



Early View

Original article

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Take-home message:

miR-134, miR-146a and let-7 family as regulators of chronic mucus hypersecretion in COPD

ABSTRACT

Chronic mucus hypersecretion (CMH) is a common feature in COPD and associated with worse prognosis and quality of life. This study aimed to identify microRNA (miRNA)-mRNA regulatory networks underlying CMH.

miRNA and mRNA expression profiles in bronchial biopsies from 63 COPD patients were associated with CMH using linear regression. Potential mRNA targets of each CMH-associated miRNA were identified using Pearson correlations. GSEA and STRING analyses were used to identify key genes and pathways.

Twenty miRNAs and 539 mRNAs were differentially expressed with CMH in COPD. The expression of 10 miRNAs was significantly correlated with the expression of one or more mRNAs. Of these, miR-134-5p, miR146a-5p and the let-7 family had the highest representation of CMH-associated mRNAs among their negatively correlated predicted targets. *KRAS* and *EDNI* were identified as key regulators of CMH and were negatively correlated predicted targets of miR-134-5p and the let-7a/d/f-5p, respectively. GSEA suggested involvement of *MUC5AC*-related genes and several other relevant gene sets in CMH. The lower expression of miR-134-5p was confirmed in primary airway fibroblasts from COPD patients with CMH.

We identified miR-134-5p, miR-146a-5p and let-7 family, along with their potential target genes including *KRAS* and *EDNI*, as potential key miRNA-mRNA networks regulating CMH in COPD.

INTRODUCTION

Chronic obstructive pulmonary disease (COPD) is a frequently occurring lung disease, associated with an abnormal inflammatory response to inhaled noxious particles and gases, including cigarette smoke. A substantial proportion of patients experience chronic cough with sputum production [1, 2] termed chronic bronchitis or chronic mucus hypersecretion (CMH) [3]. CMH in COPD is associated with lower quality of life, accelerated lung function decline, increased risk of exacerbations, and higher mortality [1, 2, 4]. Therefore, there is an urgent need for improved treatment of CMH in COPD patients. Unfortunately, our current understanding of the regulatory mechanisms that drive CMH is still limited.

Goblet cells within the airway epithelial layer together with mucous glands in the airway submucosa are responsible for the secretion of mucins, the principal components of mucus [3]. The most abundant gel-forming mucins found in human airways are MUC5AC and MUC5B [5], which are both increased in COPD [6]. Interestingly, recent *in vitro* studies suggest that fibroblasts play a role in the regulation of airway epithelial mucociliary differentiation and mucus production [7, 8].

microRNAs (miRNA) are small non-coding RNA molecules that target messenger RNA (mRNA), causing mRNA degradation or inhibition of protein translation [9]. Thus far, no studies have reported on differential miRNA expression in CMH, although several miRNAs have been implicated in the response to smoking and COPD [10], including miR-146a-5p [11]. The aim of this study was to identify key miRNA-mRNA interactions underlying CMH in bronchial biopsies from a well-defined COPD cohort.

METHODS

Patient characteristics

Baseline miRNA and mRNA expression was studied in bronchial biopsies from 63 COPD patients who participated in the Groningen Leiden Universities and Corticosteroids in Obstructive Lung Disease (GLUCOLD) study (clinicalTrials.gov NCT00158847). Details of the study including patient characteristics were previously described [12, 13]. Briefly, all patients had irreversible airflow limitation (post-bronchodilator forced expiratory volume in 1 second (FEV₁) and FEV₁/inspiratory vital capacity (IVC)<90% confidence interval (CI) of the predicted value) and chronic respiratory symptoms. All patients were stable, either current or ex-smokers, and not on corticosteroid therapy. The local medical ethics committee approved the study and all patients gave their written informed consent.

Definitions of chronic mucus hypersecretion (CMH)

In our dataset, clinical questionnaires were used, providing information comparable to the most commonly used definition of CMH: symptoms of cough and phlegm on most days for more than three months during at least two consecutive years [4]. Thus, CMH was defined based on patient responses to the question: A) “How often did you cough up sputum during the last three months?” Since a patient’s response may vary over time, we decided to include another question B) “How often did you cough up sputum during the last week?”, to cover both the longer time frame (3 months) and shorter, more recent time frame (1 week), henceforth referred to as definition A and B, respectively. A full description of the response options to these questions is presented in the online supplement. For each question, patients were divided in three groups: no CMH, mild CMH, and moderate/severe CMH.

microRNAs and mRNA expression profiling

The methods for mRNA and miRNA extraction from bronchial biopsies, for gene expression profiling using Affymetrix arrays, and for the RNA-sequencing are described in the online supplement.

Statistical analysis

mRNA and miRNA analyses on bronchial biopsies were performed using R software (v3.2.5). A linear regression model was used to identify miRNAs and mRNAs that were differentially expressed in patients with mild or with moderate/severe CMH compared to those with no CMH. The model was corrected for age, gender, smoking history and RNA integrity number (RIN). Multiple testing correction was performed using Benjamini and Hochberg's method. Definition A was applied to acquire the primary lists of candidate miRNAs and mRNAs that were associated with CMH using a false discovery rate adjusted p-value (FDR) cut-off < 0.25. Definition B was then applied to further strengthen the primary findings using a nominal p-value cut-off < 0.05. Subsequently, the final lists consisted of candidate miRNAs and mRNAs that were associated with CMH according to both definitions. Other statistical tests were performed using GraphPad Prism (v6). Differences in patient characteristics were compared using ANOVA. The correlation of the two CMH definitions was assessed using Spearman's rank correlation coefficient. Mann-Whitney U test was performed to determine significant differences in immunohistochemistry markers between CMH status and miRNA expression *in vitro*. The methods for miRNA-mRNA co-expression network analysis, Gene Set Enrichment Analysis (GSEA), and STRING interaction network analysis are described in the online supplement.

microRNA expression in human primary airway epithelial cells and fibroblasts

The expression of candidate miRNAs was evaluated in air-liquid interface (ALI)-differentiated primary airway epithelial cells (PAECs) and primary airway fibroblasts (PAFs) obtained during lung transplantation procedures. PAECs were obtained from six stage IV COPD (table S1) explanted lungs and six non-COPD donor lungs as described before [14], of which the majority did not have CMH. PAFs were isolated from stage IV COPD patients (table S2) as previously described [15], of which eight had clinical CMH symptoms and eight had no clinical CMH symptoms. Cell culture procedures and RT-qPCR details are described in the online supplement.

RESULTS

Patient characteristics

Microarray data of sufficient quality was obtained from 63 patients for miRNA expression profiles and from 57 patients for mRNA expression profiles. Patient characteristics are shown in table 1. CMH definitions A and B were significantly correlated ($r=0.651$, $p<0.0001$, figure S1). There was no significant difference in smoking status, pack-years, age, BMI, or lung function among these three groups (table 1). See figure 1 for the study approach and flow diagram of the main findings.

Table 1 Patient characteristics

	CMH Definition A			CMH Definition B		
	No CMH (n=8)	Mild (n=22)	Moderate/ severe (n=33)	No CMH (n=8)	Mild (n=25)	Moderate/ severe (n=30)
Gender (male), n(%)	8(100.0)	18(81.8)	28(84.8)	8(100.0)	22(88.0)	24(80.0)
Current smokers, n(%)	4(50.0)	14(63.6)	23(69.7)	4(50.0)	17(68.0)	20(67.0)
Pack-years*	41.7 (23.6-50.3)	44.1 (31.9-54.4)	41.5 (35.9-53.5)	40.9 (24.4-51.2)	45.0 (31.2-55.8)	41.5 (36.5-53.5)
Age, years*	64 (57-69)	59 (53-64)	60 (57-66)	56 (50-60)	59 (55-63)	62 (57-69)
BMI, kg/m ² *	25.8 (23.2-27.8)	24.2 (22.8-27.2)	24.0 (22.0-28.0)	25.1 (23.8-27.1)	24.4 (22.3-29.4)	24.4 (21.6-28.0)
FEV ₁ , %predicted*	69.9 (48.5-71.8)	63.3 (58.5-67.4)	64.8 (58.2-69.8)	66.6 (61.4-70.5)	65.6 (58.5-71.9)	63.9 (56.3-67.2)
FEV ₁ /FVC*	0.54 (0.42-0.60)	0.49 (0.44-0.54)	0.50 (0.44-0.56)	0.56 (0.49-0.63)	0.50 (0.44-0.56)	0.49 (0.42-0.54)
RIN	2.6 (2.5-3.2)	2.7 (2.3-4.7)	2.6 (2.4-3.7)	2.7 (2.5-4.4)	2.7 (2.4-4.0)	2.6 (2.4-3.4)

*Data are presented as median (interquartile range); BMI is body mass index; FEV₁ is forced expiratory volume in 1 second; FVC is forced vital capacity; RIN is RNA integrity number.

CMH-associated miRNAs

To identify miRNAs associated with CMH, we compared expression profiles of 230 miRNAs in patients with 1) mild and no CMH and 2) moderate/severe and no CMH. According to definition A, three miRNAs (miR-34b-3p, miR-92b-3p and miR-449b-5p) were higher expressed with mild CMH, while miR-664a-5p was lower expressed. With moderate/severe CMH, we found 39 differentially expressed miRNAs, including the four that were associated with mild CMH (FDR<0.25, figure 2a and 2b). Twenty out of the 39 miRNAs were also associated with moderate/severe CMH and in the same direction according to definition B (p<0.05). Among these, miR-708-5p had the highest fold increase (2.06) and miR-134-5p had the strongest fold decrease (-2.15) (table S3). No miRNA was differentially expressed in mild CMH according to definition B.

CMH-associated mRNAs

To identify mRNAs associated with CMH, we compared expression profiles of 19,793 mRNAs in patients with 1) mild and no CMH and 2) moderate/severe and no CMH. According to CMH definition A, no differences in mRNA expression were found with mild CMH. The expression of 942 mRNAs differed with moderate/severe (FDR<0.25, figure 2c and 2d). Further, 539 out of 942 mRNAs were also associated with CMH in the same direction according to definition B (p<0.05, figure 2c and 2d). Among these, 264 mRNAs were higher and 275 mRNAs were lower expressed with moderate/severe CMH (table S4). The top 20 significant mRNAs are shown in table 2.

To validate the findings from the microarray dataset, RNA-sequencing was performed on bronchial biopsies from a subset of the patients in GLUCOLD cohort, with moderate/severe CMH (n=21) and without CMH (n=5). GSEA was performed to assess if the CMH-associated genes in our microarray dataset were enriched among the CMH-associated

genes in our RNA-sequencing dataset. Indeed, we found a significant enrichment (figure S2, table S7).

To ensure that the observed differences in miRNA and mRNA expression were not due to changes in cellular composition, we analysed available immunohistochemical data on the numbers of neutrophils, macrophages, eosinophils, CD3+/CD4+/CD8+ lymphocytes, mast cells, and epithelial cells in the bronchial biopsies previously described [13]. We observed that only CD8+ lymphocytes differed with CMH. When accounting for the CD8+ cell number in our linear regression model, all 20 CMH-associated miRNAs and 539 CMH-associated mRNAs remained significant.

Table 2 Top 20 significant mRNAs differently expressed with CMH and their statistics

Gene	Moderate/severe CMH vs No CMH (definition A)				Moderate/severe CMH vs No CMH (definition B)		
	t-value	FC	p-value	FDR	t-value	FC	p-value
	AIG1	4.667	1.355	2.32E-05	0.225	2.548	1.213
LRRC8B	4.498	1.487	4.10E-05	0.225	3.117	1.359	3.03E-03
ROD1	4.410	1.538	5.49E-05	0.225	3.515	1.462	9.43E-04
OSBPL3	4.402	1.671	5.64E-05	0.225	3.130	1.522	2.91E-03
RC3H1	4.345	1.238	6.82E-05	0.225	2.760	1.173	8.07E-03
RQCD1	4.082	1.264	1.61E-04	0.231	4.512	1.316	3.91E-05
LIAS	4.030	1.194	1.90E-04	0.231	2.254	1.124	2.86E-02
USP46	3.884	1.271	3.02E-04	0.231	2.608	1.194	1.20E-02
MTF1	3.873	1.289	3.13E-04	0.231	2.842	1.227	6.47E-03
LOC100133388	-4.265	-1.306	8.86E-05	0.225	-2.072	-1.173	4.34E-02
NKD1	-4.249	-1.312	9.36E-05	0.225	-2.552	-1.198	1.38E-02
FAM115A	-4.223	-1.386	1.02E-04	0.225	-2.518	-1.266	1.50E-02
C1QTNF1	-4.222	-1.328	1.02E-04	0.225	-3.233	-1.270	2.17E-03
RPL23AP64	-4.075	-1.183	1.65E-04	0.231	-2.915	-1.142	5.30E-03
WTIP	-4.039	-1.266	1.84E-04	0.231	-2.435	-1.167	1.85E-02
LIMS2	-4.010	-1.326	2.02E-04	0.231	-4.282	-1.342	8.38E-05
BTN2A3	-3.961	-1.355	2.37E-04	0.231	-2.889	-1.296	5.70E-03
PDGFB	-3.929	-1.321	2.62E-04	0.231	-3.030	-1.262	3.87E-03
C15orf60	-3.916	-1.223	2.73E-04	0.231	-2.902	-1.180	5.50E-03
EDN1	-3.884	-1.357	3.02E-04	0.231	-2.098	-1.207	4.10E-02

FC is fold change, FDR is false discovery rate.

Gene Set Enrichment Analysis (GSEA) of CMH-associated mRNAs

To identify pathways, biological processes, and molecular functions in which the CMH-associated mRNAs may be involved, GSEA was performed. The top 20 significant gene sets enriched among mRNAs differentially expressed with CMH according to both definitions are shown in table 3. Among these were gene sets related to cilium development and function, neurohormonal signalling, ion channel activities, and extracellular matrix (ECM) structure. The complete list of significant gene sets (FDR<0.01) is reported in the online supplement (table S5). Furthermore, we investigated whether our CMH-associated mRNAs are involved in the mechanisms relevant to MUC5AC expression. Since MUC5AC was not expressed above background levels in our microarrays, we built further on the findings of Wang et al.

[16] who previously identified 73 *MUC5AC*-associated core genes which were higher expressed in small airway epithelium from individuals with high versus those with low *MUC5AC* gene expression. Using this list, we found a strong enrichment of *MUC5AC*-associated genes among the genes higher expressed with CMH according to both definition A (enrichment score (ES)=0.40, $p<0.001$) and B (ES=0.44, $p<0.001$) (figure S3).

Table 3 Top 20 significant gene sets enriched among CMH-associated mRNAs

Category	Gene sets enriched among genes higher expressed with CMH	NES*	FDR*	#core-enriched genes (#total genes)	core-enriched CMH-associated genes
Cilium/ microtubule development and function	GO Cilium organization	3.801	0.0	117 (171)	SPAG1, TTLL5
	GO Cilium morphogenesis	3.716	0.0	123 (187)	IFT52, SPAG1, TTLL5
	GO Cilium movement	3.235	0.0	30 (33)	-
	GO Axoneme assembly	3.116	0.0	35 (41)	SPAG1, TTLL5
	GO Protein transport along microtubule	2.922	0.0	20 (24)	-
	GO Intraciliary transport	2.903	0.0	20 (24)	-
	GO Axonemal dynein complex assembly	2.903	0.0	19 (19)	SPAG1
	GO Microtubule bundle formation	2.863	0.0	44 (63)	CLIP1, SPAG1, TTLL5
	GO Nonmotile primary cilium assembly	2.708	7.944E-05	16 (22)	-
GO Microtubule based movement	2.631	6.455E-05	85 (195)	SOD1	
Cellular component assembly	GO Cellular component assembly involved in morphogenesis	3.163	0.0	122 (229)	NEBL, TMOD3, SPAG1, TTLL5
	GO Cell projection assembly	2.965	0.0	114 (246)	EZR, SPAG1, TTLL5
	GO Organelle assembly	2.922	0.0	175 (452)	RC3H1, NEBL, WDR45L, CNOT7, MIS12, STAM2, ATXN2, EZR, VTA1, RAB11A, CHMP5, TMOD3, CHMP2B, SPAG1, TTLL5, DDX3X, PDCD6IP
	GO Protein modification by small protein removal	2.903	0.0	69 (112)	USP46, USP42, USP10, USP9Y, USP38, OTUD4
Proteolysis	KEGG Proteasome	2.761	0.0	26 (43)	-
	BIOCARTA Proteasome pathway	2.863	0.0	22 (28)	-
	GO Ubiquitin like protein specific protease activity	2.761	0.0	64 (97)	USP46, USP42, USP10, USP9Y, USP38, OTUD4
	GO Protein polyubiquitination	2.620	6.075E-05	117 (240)	CBFB, CBLB, RNF6, SKP2
Central dogma	GO Ribonucleoprotein complex biogenesis	2.694	7.377E-05	176 (385)	RC3H1, CNOT7, CDH7, RPP40, ATXN2, DDX3X
	GO RNA splicing via transesterification reactions	2.642	6.885E-05	103 (231)	HNRNPF, POLR2H, DHX32, PAPOLA

Table 3 Top 20 significant gene sets enriched among CMH-associated mRNAs (continued)

Category	Gene sets enriched among genes lower expressed with CMH	NES*	FDR*	#core-enriched genes (#total genes)	core-enriched CMH-associated genes
Neuronal and cell signaling	GO Olfactory receptor activity	-2.843	0.0	257 (347)	OR2B11
	GO Hormone activity	-2.819	0.0	81 (113)	EDN1, CRH, NPPB
	GO Neuropeptide signaling pathway	-2.523	0.0	73 (97)	OPRK1, NPFFR1
	GO Adenylate cyclase modulating g protein coupled receptor signaling pathway	-2.507	0.0	84 (142)	ADRA1A, ADCY1, GNAO1, ADRA2C, OPRK1
	KEGG Neuroactive ligand receptor interaction	-2.476	0.0	183 (269)	F2RL3, ADRA1A, ADRA2C, OPRK1, NPFFR1, LPAR4, PTGER1
	GO G-protein coupled receptor signaling pathway coupled to cyclic nucleotide second messenger	-2.452	0.0	103 (169)	ADRA1A, ADCY1, GNAO1, ADRA2C, OPRK1
	GO Regulation of sensory perception of pain	-2.370	8.000E-05	16 (35)	EDN1, ADRA2C, OPRK1
	GO Neuropeptide hormone activity	-2.358	1.300E-04	25 (29)	CRH
	GO Adenylate cyclase inhibiting g protein coupled receptor signaling pathway	-2.364	1.400E-04	45 (66)	ADCY1, OPRK1
	GO Growth factor activity	-2.327	2.500E-04	95 (154)	PDGFB, REG1A, IL34, GDF11, CLEC11A, NENF, PGF, GDNF, NRTN
GO Peptide receptor activity	-2.234	8.400E-04	84 (129)	F2RL3, RAMP1, OPRK1, NPFFR1	
Metabolic processes	GO Cyclic nucleotide biosynthetic process	-2.534	0.0	23 (33)	ADCY1, NPPB
	GO Cyclic nucleotide metabolic process	-2.305	2.200E-04	34 (55)	PDE9A, ADCY1, NPPB
	GO Multicellular organismal macromolecule metabolic process	-2.259	5.700E-04	45 (78)	COL5A1, COL6A2, COL8A2, LEPRE1, COL4A2, COL4A1, ENPEP, MRC2, COL6A1
Ion channel	GO Cation channel activity	-2.364	1.500E-04	158 (293)	TRPV2, JPH2, TMEM38A
	GO Extracellular ligand gated ion channel activity	-2.322	2.200E-04	59 (74)	SLC17A7
	GO Potassium channel activity	-2.298	2.600E-04	65 (118)	TMEM38A
	GO Gated channel activity	-2.253	6.300E-04	171 (316)	JPH2, SLC17A7
Others	GO Extracellular matrix structural constituent	-2.318	2.600E-04	46 (75)	COL5A1, COL8A2, COL4A2, COL4A1, EFEMP2
	GO Metanephric nephron development	-2.312	2.300E-04	22 (32)	PDGFB, GDNF

*statistics based on mRNAs associated with CMH definition A. NES is normalized enrichment score, FDR is false discovery rate.

Identification of miRNA-mRNA co-expression networks contributing to CMH in COPD

To identify mRNAs that are regulated by the CMH-associated miRNAs, we assessed positive and negative correlations between the expression of each miRNA and the mRNA expression profile in the matched biopsies (same patient). The expression levels of 10 out of 20 miRNAs, i.e., let-7a-5p, let-7d-5p, let-7f-5p, miR-31-5p, miR-708-5p, miR-134-5p, miR-146a-5p, miR-193-5p, miR-500a-3p and miR-1207-5p were significantly correlated with at least one mRNA (FDR<0.25, table S6).

To identify potential direct targets, the lists of miRNA-negatively correlated mRNAs were compared to the list of miRNAs' predicted targets. mRNAs that overlapped in both lists were used to generate miRNA-mRNA co-expression networks (figure 3a). let-7a-5p, let-7d-5p, let-7f-5p, miR-31-5p, and miR-708-5p, which were higher expressed with CMH, shared several potential targets, and as expected, the members of let-7 family clustered together through their shared target genes. Similarly, miR-134-5p, miR-146a-5p, miR-500a-3p and miR-1207-5p, which were lower expressed with CMH, shared several potential targets (figure 3a). In these networks, the interactions between miRNAs and negatively correlated predicted targets that were also associated with CMH (indicated in figure 3a) are of special interest as these are the potential key drivers of CMH. Among the higher expressed miRNAs, the let-7 cluster represents a key cluster with negative correlation with 16 CMH-associated potential targets. Among the lower expressed miRNAs, miR-134-5p and miR-146a-5p are key miRNAs negatively correlating with 8 and 10 CMH-associated potential targets, respectively. The percentage of CMH-associated potential targets among the negatively correlated predicted targets was highest for miR-134-5p (figure 3a).

To identify potential interactions among CMH-associated mRNAs, STRING interaction network analysis was performed (figure 3b). The networks point towards *KRAS*, *EDN1*, *PRKAR2A*, *GSK3B* and *POLR2H* as hub genes and potential regulators of CMH in

our biopsies as they possessed most interactions with other genes. Interestingly, *KRAS* and *EDNI* are potential targets of miR-134-5p and let-7a/d/f-5p, respectively. There was also clear clustering of several collagen and other extracellular matrix (ECM) related genes.

Enrichment of CMH- and MUC5AC-associated genes among the miRNA-correlated genes

GSEA revealed that genes higher expressed with CMH were enriched among the genes positively correlated with miRNAs higher expressed with CMH and among the genes negatively correlated with miRNAs lower expressed with CMH, and vice versa for the genes that were lower expressed with CMH (figure 4a, 4b and S4).

We found that the MUC5AC-associated gene set [16] was significantly enriched among the genes positively correlated with miRNAs that were higher expressed with CMH and among the genes negatively correlated with miRNAs that were lower expressed with CMH, except for miR-193a-5p (figure 4c and S5).

Expression of candidate miRNAs and mRNAs in human primary airway epithelial cells and fibroblasts

As bronchial biopsy specimens contain various cell types, including mucus producing epithelial cells, we investigated whether the CMH-associated miRNAs identified in biopsies were expressed in PAECs *in vitro*. ALI-differentiated PAECs expressed let-7a-5p (representative of let-7 family), miR-31-5p, miR-708-5p, miR-146a-5p and miR-193-5p (figure 5a), but not miR-134-5p, miR-500a-3p and miR-1207-5p (values > 35 Ct). We did not find differences in miRNA expression between COPD and healthy control-derived PAECs (figure 5a), neither did we observe a significant difference in *MUC5AC* expression between these two groups (figure S6).

As our previous report suggests involvement of fibroblasts in mucus production via crosstalk with epithelial cells [8], we additionally investigated candidate miRNA expression in PAFs derived from COPD patients with or without clinical CMH symptoms. All PAFs expressed let-7a-5p, miR-31-5p, miR-708-5p, miR-134-5p, miR-146a-5p and miR-193a-5p (figure 5b), but not miR-500a-3p and miR-1207-5p. Of interest, the expression of miR-134-5p (figure 5c), but not the other miRNAs, was significantly lower in PAFs derived from the patients with CMH, in line with the findings in our biopsies.

To assess whether the top 20 CMH-associated genes were expressed in ALI-differentiated PAECs, we used a publicly available gene expression profiles [17] and found that the majority of these genes were expressed in the ALI-differentiated PAECs (figure S7). LOC100133388, RPL23AP64, C15orf60 were not available in this dataset. Furthermore, using a publicly available gene expression profiles of primary human lung fibroblasts [18], we found that the majority of these genes were also expressed in primary human lung fibroblasts, except NKD1 and PDGFB (figure S8). LOC100133388 was not available in this dataset.

DISCUSSION

We identified 20 miRNAs and 539 mRNAs associated with CMH in bronchial biopsies from COPD patients. Our data suggest that miR-134-5p, miR-146a-5p and the let-7 family may regulate CMH via their potential CMH-associated targets e.g. *KRAS* and *EDNI*. The relevance of our CMH signatures was supported by the enrichment of MUC5AC-associated genes [16] among our CMH-associated mRNAs and mRNAs that correlated with the CMH-associated miRNAs. Furthermore, our *in vitro* studies demonstrated that miR134-5p was lower expressed in primary airway fibroblasts from COPD patients with CMH compared to those without CMH, which is in line with the findings in bronchial biopsies and supports a key role for mir134-5p in regulating CMH in COPD.

Since we had both miRNA and mRNA data available from the same bronchial biopsies, we were able to create miRNA-mRNA co-expression networks. This analysis identified the let-7 family, miR-134-5p and miR-146a-5p with their CMH-associated targets to be the key regulators of CMH. miR-134-5p had the highest percentage of CMH-associated genes among its potential targets, of which *KRAS* was identified as a hub and potential regulatory gene for CMH. *KRAS* was previously found to be one of the MUC5AC-associated core genes [16]. Interestingly, the expression of miR-134-5p was lower in fibroblasts from COPD patients with CMH than those without, in line with the finding in biopsies. It was not expressed in epithelial cells, suggesting an indirect regulation of CMH via fibroblasts. There are various explanations why the differential expression of miR-134-5p in fibroblasts can affect MUC5AC-associated genes identified in airway epithelium. Firstly, miRNAs can be secreted into exosomes [19] and thus transported from one cell type (e.g. fibroblasts) to the other (e.g. epithelium). Secondly, MUC5AC-associated genes are not only expressed by epithelial cells, but also by fibroblasts. We found that approximately 70% of the MUC5AC-

associated genes identified in airway epithelium [16] are also expressed in the lung fibroblasts [18]. Finally, the MUC5AC-associated genes may be secondary targets of miR-134-5p. Our recent studies have shown that CXCL8 produced by lung fibroblasts promotes epithelial mucus production [8] and that the CXCL8 release is increased upon co-culture of fibroblasts and epithelial cells [20]. In line with that report, we observed in this study that CXCL8 is negatively correlated with miR-134-5p (table S6).

Another key miRNA identified in our miRNA-mRNA networks is miR-146a-5p, which was lower expressed with CMH. miR-146a5p was previously reported to be involved in airway inflammation, associated with smoking and COPD [10], and to inhibit MUC5AC production *in vitro* [21]. We recently found miR-146a-5p to be higher expressed in non-COPD lung fibroblasts upon co-culture with bronchial epithelial cells, while there was significantly less increase in COPD fibroblasts, suggesting a role of miR-146a-5p in disturbed epithelial-fibroblast crosstalk in COPD [22]. Our present findings suggest that miR-146a-5p may also be involved in mucus hypersecretion via epithelial-fibroblast crosstalk, yet it is not clear via which target gene nor in which cell type it has its main effect on CMH. Further mechanistic studies using co-culture or lung organoid models could help elucidating the CMH-related function of miR-146-5p.

The last key miRNA-mRNA cluster identified was the let-7 family, which was higher expressed in association with CMH. The members of the let-7 family shared several potential targets associated with CMH of which *EDN1*, *NKD1*, *PDGFB*, *COL4A1* and *COL4A2* are of particular interest. *EDN1* is localized in submucosal glands and stimulates mucus secretion from serous and mucus cells in mucosal explant culture [23]. *NKD1* is an antagonist of the WNT/ β -catenin -signalling pathway[24], which plays an important role in respiratory epithelial differentiation [25] and of which specific components, e.g. *LEF1*, have been reported to regulate MUC5AC production [8, 26]. *PDGFB* is involved in airway remodelling

[27] and epithelial-fibroblast crosstalk [28]. Further, COL4A1 and COL4A2 were also identified in a larger cluster of collagen genes in the CMH interaction networks and are essential components of basement membranes [29]. Basement membrane thickness is associated with an increase of submucosal glands and central airway remodelling in asthma [30], but its role linking airway remodelling with CMH in COPD remains to be investigated. Of note, various CMH-associated targets of let-7a/d/f-5p (EDA, LIX1L, MAPK11, NME4) have been validated with next-generation sequencing [31], supporting our findings.

Apart from that, the CMH-associated genes we identified may be involved in several other biological processes, including cilium development and function, neurohormonal activities, cyclic nucleotide metabolism and signalling, and ion transport. Cilia function and movement is important for mucus clearance [32] and impaired cilia function was observed in COPD airways [33, 34]. The movement of cilia is dependent, at least partially, on cyclic nucleotides, in particular cAMPs [35]. Furthermore, active ion transport, such as that of Ca^{2+} , Na^+ and Cl^- , plays an important role in regulating mucus viscosity and mucociliary clearance [36, 37], and both Ca^{2+} and Na^+ can be transported through cyclic nucleotide-gated channels [38]. Besides, previous studies suggested that neurohormonal signalling regulates cGMP-induced mucin secretion [39] and the expression of *GDNF*, the gene encoding for a neurotrophic factor involving in lung development, is associated with CMH in COPD [40]. We also generated gene-interaction networks for CMH and identified *KRAS*, *EDN1*, *PRKAR2A*, *GSK3B* and *POLR2H* as hub genes and potential regulators of CMH. Next to *KRAS* and *EDN1*, *GSK3B* is also of interest as it is a pleiotropic signalling molecule that regulates WNT/ β -catenin signalling – the pathway that has been shown to induce mucus cell metaplasia in a mouse model [25].

One of the limitations of this study is the relatively small dataset that we used to explore the miRNA and mRNA changes associated with CMH and consequent use of a

lenient FDR cut-off. To support our initial findings, several approaches were used. First, we used GSEA to demonstrate the enrichment of MUC5AC-associated genes [16] among the genes higher expressed with CMH. This confirms the relation between our CMH definitions and MUC5AC expression. In addition, we demonstrated significant enrichment of the CMH-associated genes identified in the microarray dataset among the CMH-associated genes identified in the RNA-sequencing dataset. The replication of our findings in a different patient cohort would be informative. However, to the best of our knowledge, there are no other datasets in which both microRNA/mRNA profiles and CMH definitions are available which reflects an urgent need of more studies on this topic.

For the *in vitro* studies, we decided to determine the expression of our candidate miRNAs in PAECs and PAFs as they are present in airway wall biopsies and important cells in the pathogenesis of COPD. As our findings were derived from biopsies, miRNA changes in other cell types may have contributed to our findings; for instance, inflammatory cells or smooth muscle cells. In fact, this could explain the lack of expression of miR-500a-3p and miR-1207-5p in PAECs and PAFs, and validation in other cell types and co-culture studies is warranted in future studies. Furthermore, it will be of interest for future investigations to compare PAECs from patients with CMH and without CMH, which was not possible in the current study. In addition, we focused on the 10 miRNAs that were significantly correlated with mRNA expression in the same subjects in this study. This does not imply that the other 10 miRNAs are not relevant to CMH, since miRNAs not only regulate gene translation by degradation but also by inhibiting the translation [9].

Collectively, we identified three key miRNA-mRNA clusters for CMH: miR-134-5p, miR-146a-5p and the let-7 family, as well as their associated potential target genes. The let-7 and miR-134-5p clusters are connected to the CMH gene expression networks via the potential key regulatory genes *KRAS* and *EDNI*. Furthermore, we identified pathways and

biological processes, including MUC5AC-associated genes, in which these key miRNA-mRNA clusters are likely to be involved. Future studies involving co-cultures of epithelial cells with fibroblast and other cell types are required to further unravel the functional role of these key genes and miRNAs, and to establish whether they represent potential therapeutic targets for CMH.

Acknowledgement

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Figure legends

Figure 1. Study approach. Linear regression model was used to identify CMH-associated miRNAs and CMH-associated mRNAs, based on two CMH definitions. Pearson correlation was used to identify miRNA-correlated mRNAs. Gene set enrichment analysis (GSEA) was performed using gene sets of interest and ranked lists of miRNA-correlated and CMH-associated mRNAs. STRING interaction network analysis was performed on the list of CMH-associated mRNAs correlated with at least one CMH-associated miRNA. The list of CMH-associated mRNAs and the lists of negatively correlated predicted targets of the candidate miRNAs were used to create miRNA-mRNA co-expression networks. Finally, the expression of candidate miRNAs was assessed in primary airway epithelial cells and primary airway fibroblasts.

Figure 2. miRNAs and mRNAs differentially expressed with CMH. Patients were classified into 3 groups depending on their CMH status defined by two definitions. miRNA profiles of patients with moderate/severe CMH were compared to those of patients with no CMH. a) Heat map showing expression changes of 39 miRNAs in the patients with moderate/severe CMH (n=33) compared to those with no CMH (n=8) according to definition A. Bold represents 20 miRNAs whose expression was significant based on both definition A and B. b) Volcano plot showing expression changes of 230 miRNAs in the patients with moderate/severe CMH compared to ones with no CMH according to definition A. c) Heat map showing expression changes of 942 mRNAs in the patients with severe CMH (n=30) compared to those with no CMH (n=8) according to definition A. d) Volcano plot showing expression changes of 19,793 mRNAs in the patients with severe CMH compared to ones with no CMH according to definition A. Blue represents significant miRNAs/mRNAs lower

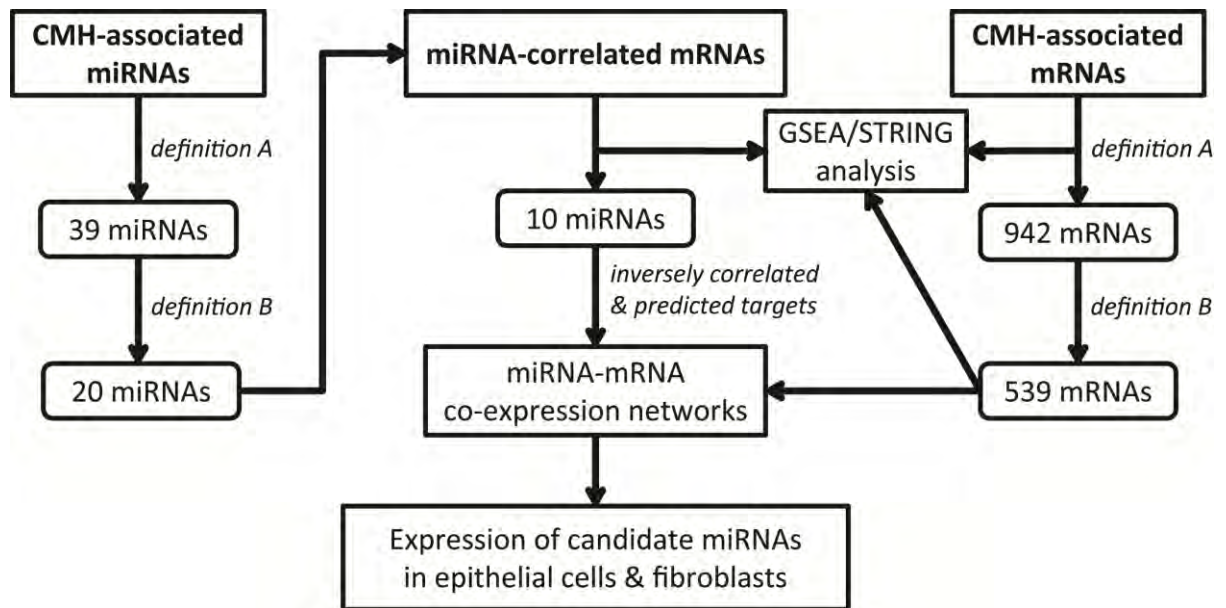
expressed with CMH; red represents significant miRNAs/mRNAs higher expressed with CMH. Triangles represent miRNAs/mRNAs of which differential expression was significant based on both definitions. $FDR < 0.25$ was a cut-off for definition A and nominal p -value < 0.05 was a cut-off for definition B.

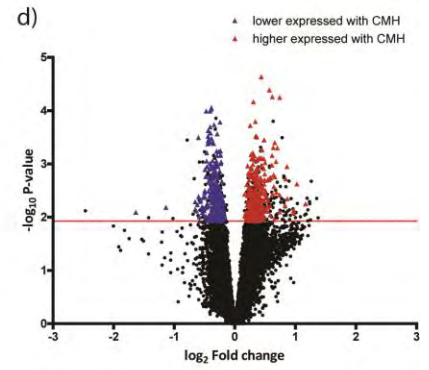
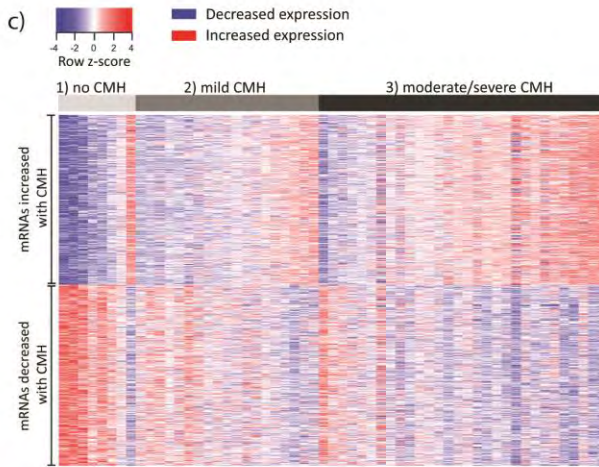
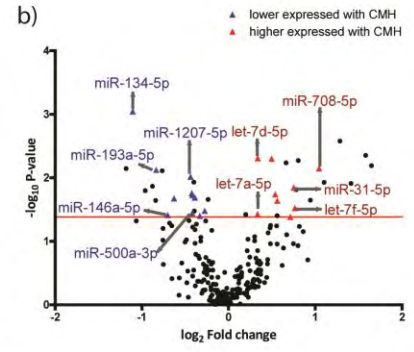
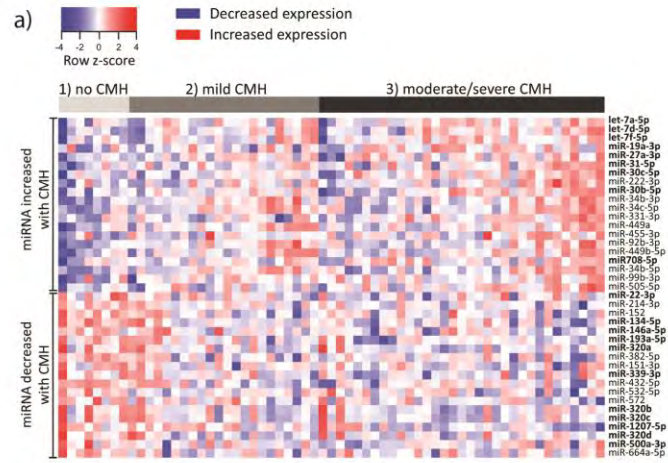
Figure 3. Potential networks underlying CMH in COPD. a) miRNA-mRNA co-expression networks. Red diamonds represent miRNAs higher expressed with CMH; blue diamonds represent miRNAs lower expressed with CMH; green circles represent predicted target genes negatively correlated with that miRNA; black circles represent negatively correlated predicted targets of the miRNAs whose expression was also associated with CMH. Line width correlates to degree of significance of the miRNA-mRNA correlation. Below the figure is the table showing percentage of CMH-associated genes among the negatively correlated predicted targets of each miRNA. b) Predicted interactions among CMH-associated targets of CMH-associated miRNAs. The networks were created using STRING database. All mRNAs that were predicted to interact with each other are depicted in the interaction networks while mRNAs that were not predicted to interact with any other mRNA were excluded. Red represents negatively correlated predicted targets of miRNAs. Large and **BOLD** text represents top five genes with most interactions to other genes. Line width correlates to interaction scores. The interactions were predicted based on the combined score of all active interaction sources with minimum required interaction score of 0.700. Only connected nodes are shown.

Figure 4. Overrepresentation of CMH-associated genes and MUC5AC-associated genes among miRNA-correlated genes. a) Enrichment of genes higher expressed with CMH among the genes correlated with CMH-associated miRNAs. b) Enrichment of genes lower

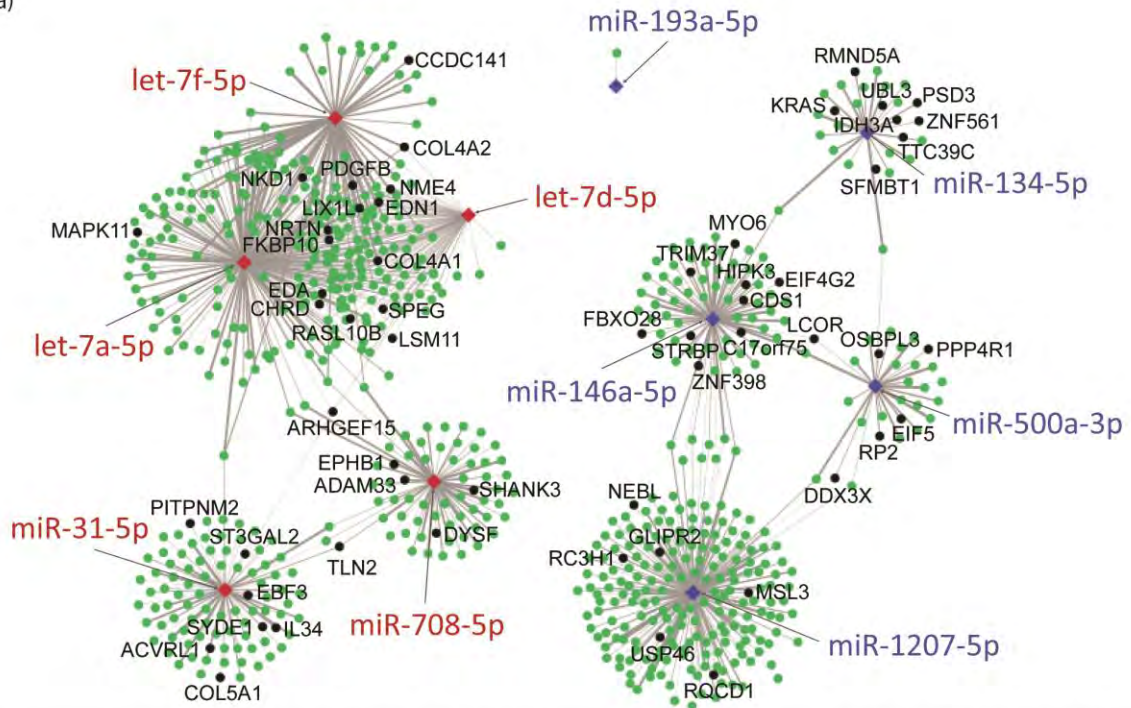
expressed with CMH among the genes correlated with CMH-associated miRNAs. c) Enrichment of MUC5AC-associated genes among the genes correlated with CMH-associated miRNAs. The enrichment plots of miR-134-5p were shown as example. **represents significant enrichment ($p < 0.01$). ***represents significant enrichment ($p < 0.001$).

Figure 5. Expression of candidate miRNAs in primary human airway structural cells. a) miRNAs expressed in primary airway epithelial cells (PAECs). PAECs were derived from COPD patients (n=6) and healthy controls (n=6) and grown at air-liquid interface for 14 days. Cells were hormonally deprived overnight and RNA was isolated. b) miRNAs expressed in primary airway fibroblasts (PAFs) from COPD patients (n=16). c) miR-134-5p was differentially expressed in PAFs from COPD patients with CMH compared to no CMH. PAFs were derived from COPD patients with (n=8) and without (n=8) CMH and grown until confluent. Cells were then serum deprived for 24 hours and RNA was isolated. Expression of all miRNAs was normalized to *RNU48*. Relative expression levels are shown (median±interquartile range). * $p < 0.05$ between the indicated values, as assessed by the Mann Whitney U test.





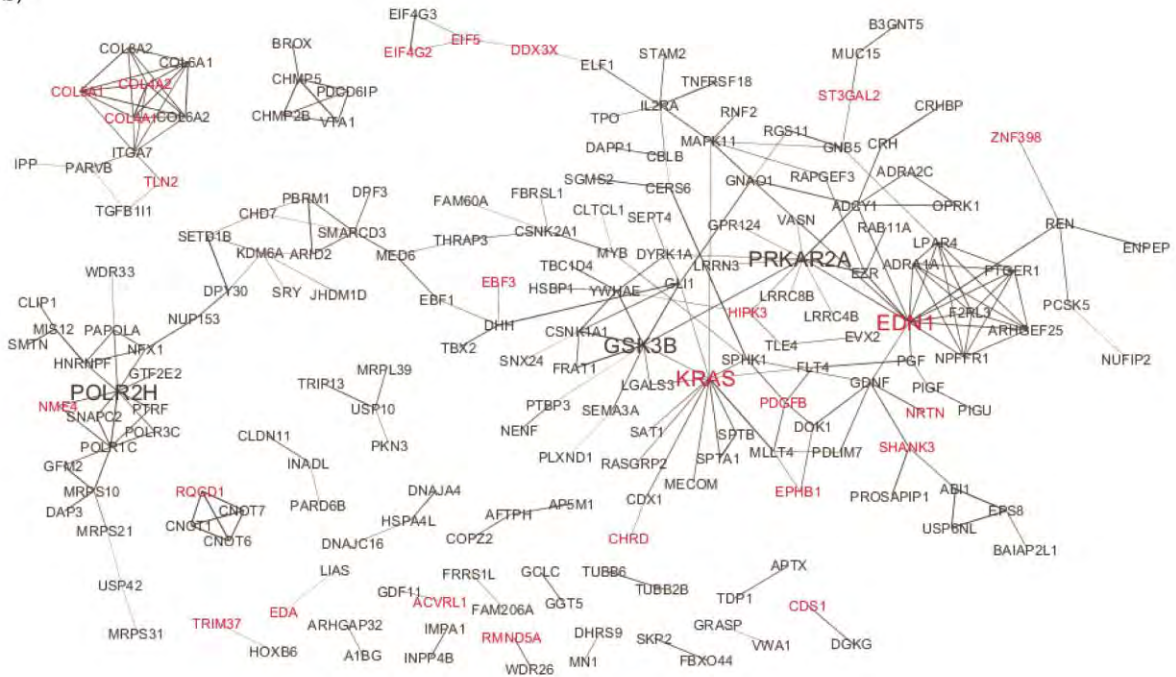
a)



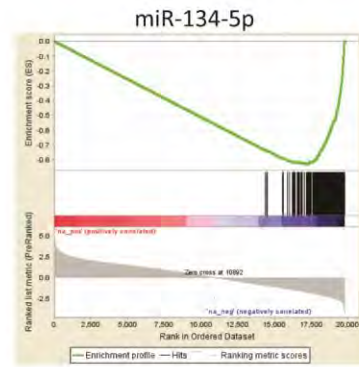
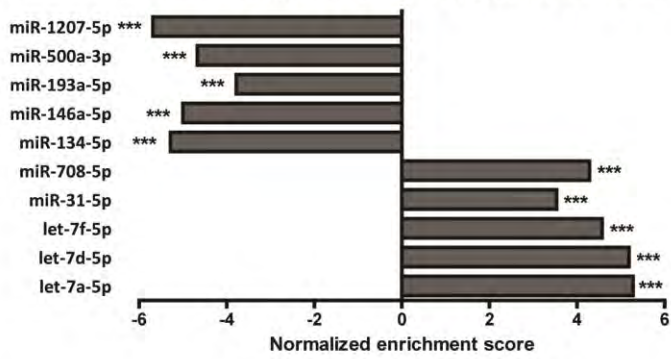
	let-7a-5p	let-7d-5p	let-7f-5p	miR-31-5p	miR-708-5p	miR-134-5p	miR-146a-5p	miR-193a-5p	miR-500a-3p	miR-1207-5p
%CMH-genes*	6.5	11.4	10.3	9.6	7.7	29.6	13.0	0.0	20.0	3.4

*representation of CMH-associated genes in all potential targets of each miRNA

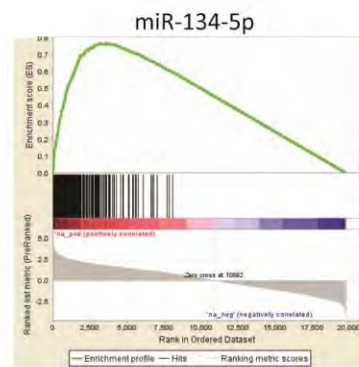
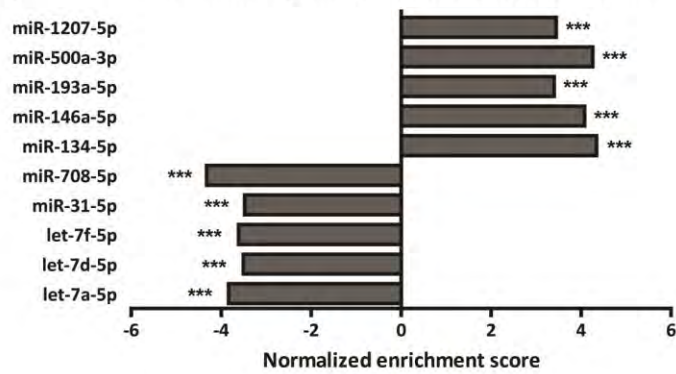
b)



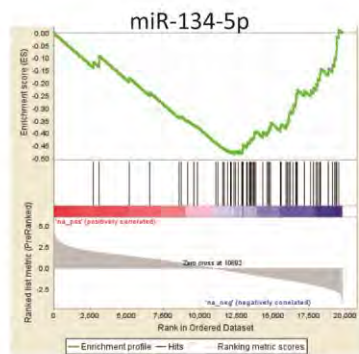
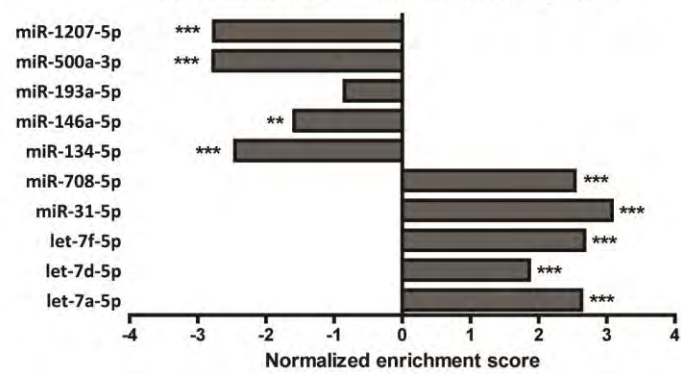
a) **Enrichment of gene set higher expressed with CMH**

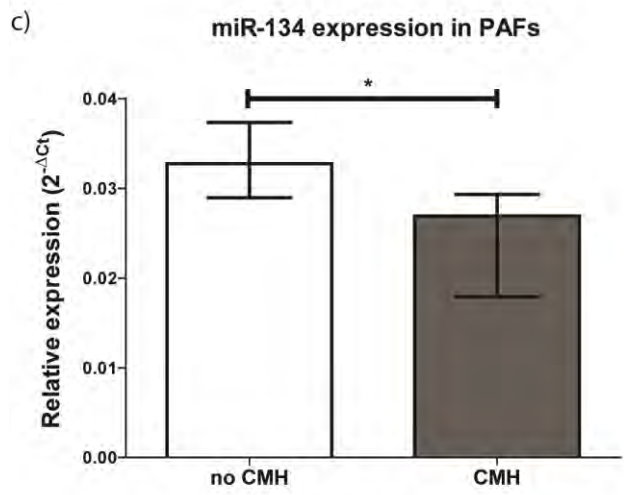
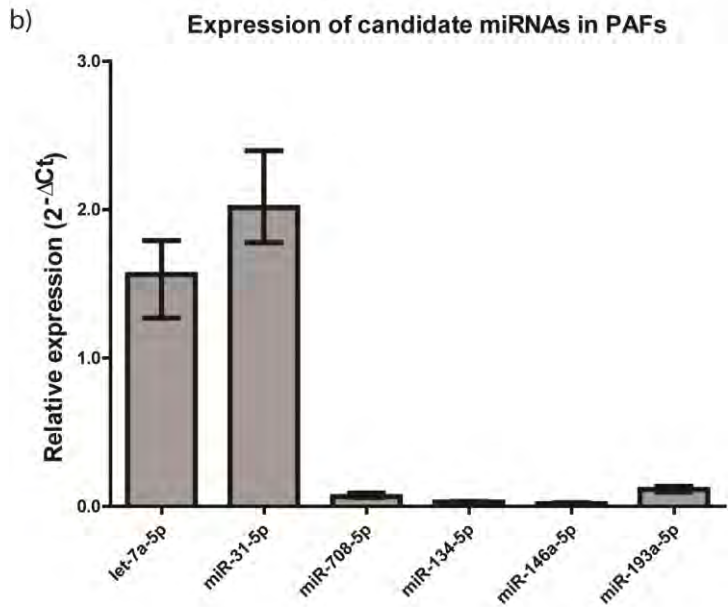
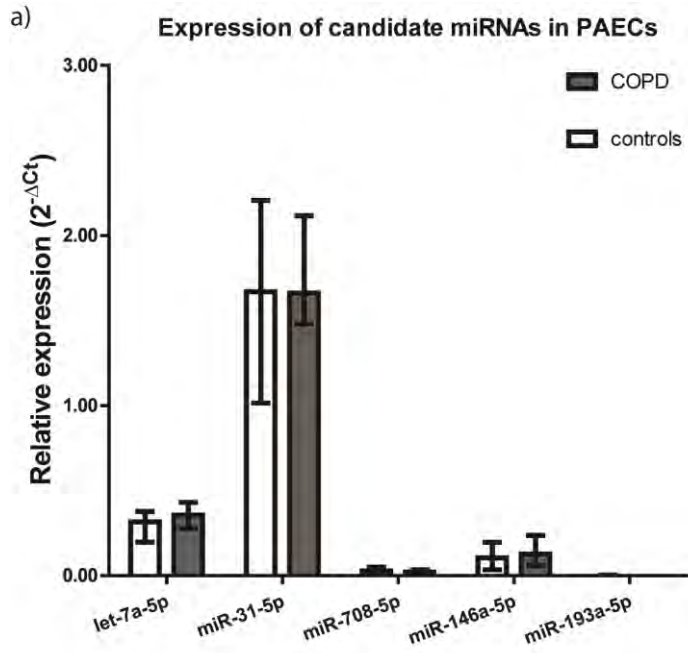


b) **Enrichment of gene set lower expressed with CMH**



c) **Enrichment of MUC5AC-associated gene set**





ONLINE SUPPLEMENT

Definitions of chronic mucus hypersecretion (CMH)

CMH was defined based on patient's responses to clinical questionnaires including two questions: A) "How often did you cough up sputum during the last three months?" and B) "How often did you cough up sputum during the last week?" The latter was derived from the clinical COPD questionnaire (CCQ) [1]. Question A had four optional answers: i) never, ii) sometimes, iii) almost daily, and iv) only during a cold. Patients who responded i) or iv) were classified as group 1: no CMH. Patients who responded ii) were classified as group 2: mild CMH. Patients who responded iii) were classified as group 3: moderate/severe CMH.

Question B had seven optional answers: i) never, ii) sometimes, iii) once in a while, iv) often, v) most of the times, vi) regularly, and vii) always. Patients who responded i) were classified as group 1: no CMH. Patients who responded ii) and iii) were classified as group 2: mild CMH. Patients who responded iv) to vii) were classified as group 3: moderate/severe CMH.

MicroRNA (miRNA) and messenger RNA (mRNA) profiling

Both total mRNA and miRNA was extracted from bronchial biopsies at baseline (n=63) as part of the GLUCOLD study [2, 3]. mRNA profiling was performed at Boston University Microarray Resource Facility as described in GeneChip® Whole Transcript (WT) Sense Target Labeling Assay Manual (Affymetrix, Santa Clara, CA, current version available at www.affymetrix.com) as previously described [4]. Microarray hybridization was performed using Affymetrix Human Gene_ST v1.0 Arrays. Isolation of small fractions of RNA for miRNA profiling was done using the miRNeasy mini kit (Qiagen) and RNeasy MinElute Cleanup Kit (Qiagen) according to the manufacturer's protocols. MiRNA profiling was performed at Boston University Microarray Resource Facility using FlashTag™ Biotin HSR Labeling Kit (Affymetrix, Santa Clara, CA, current version available at

www.affymetrix.com). miRNAs and mRNAs that were expressed in less than 50% of the patients were excluded. The filtering of miRNAs was done using the standard Affymetrix Expression Console software, and of mRNAs was done using the Robust Multichip Average algorithm and the Entrez Gene Chip Definition File (CDF) v11.0.1[5]. As a result, the expression profiles used for all analyses included 230 miRNAs and 19,793 mRNAs. Both microarray datasets can be accessed at <http://www.ncbi.nlm.nih.gov/geo/> (series accession number GSE76774 for miRNA; GSE36221 for mRNA).

To validate the findings from the microarrays, we used the mRNA profiles from the RNA-sequencing (RNA-seq) conducted on libraries belonging to biopsies obtained from 76 GLUCOLD patients. Total mRNA was extracted as described previously [2, 3]. The libraries were prepared using Ribo-Zero Gold kit and sequenced using 50bp single end read sequencing. The “FastQC” program version 0.11.5 was utilized to perform quality control checks on the raw sequence data from the RNA-Seq (<http://www.bioinformatics.babraham.ac.uk>). The sequences were trimmed using the java program “trimmomatic 0.33” [6] and the RNA-Seq mapping was conducted using the “Spliced Transcripts Alignment to a Reference (STAR)” program version 2.5.3a, which is an RNA-Seq aligner program [7]. We checked the quality of the libraries by calculating the raw count percentages of the forward reads. Libraries with a percentage lower than 90% were excluded from further analysis. Principal component analysis was also performed (using R) on the libraries in order to detect extreme outlier. After quality check, we decided to keep all samples for further analyses. This dataset can be made available for future potential collaboration upon request. The R package “edgeR_3.16.5” was utilized to perform differential expression analysis on the samples taken from CMH patients at baseline (n=38). We compared mRNA profiles of the patients with moderate/severe CMH (n=22 for definition

A and n=21 for definition B) with the patients with no CMH (n=5 for both definitions). These analyses were corrected for age, gender and smoking status.

Identification of CMH-associated miRNAs and mRNAs

A linear regression model was used to identify miRNAs and mRNAs that were differentially expressed in patients with mild CMH or with moderate/severe CMH compared to those without CMH. The model was corrected for age, gender, smoking history and RNA integrity number scores (RIN) as described below, where Me_i represents the \log_2 miRNA/gene expression value for a miRNA/gene in a sample from patient i , ϵ_i represents the error that is assumed to be normally distributed.

$$Me_i = \beta_0 + \beta_1 X_{RIN-i} + \beta_2 X_{Smoking\ history-i} + \beta_3 X_{Age-i} + \beta_4 X_{Gender-i} + \beta_5 X_{CMH\ status-i} + \epsilon_i$$

MiRNA-mRNA co-expression network analysis

Pearson correlation analysis was used to determine the correlation between the expression of each CMH-associated miRNA and all mRNAs in the same patient based on False Discovery Rate (FDR)<0.25. The lists of miRNA's predicted target genes based on TargetScan (v6.2), miRTarBase (v4.5) and miRDB (v5.0) were combined. Those predicted targets that were negatively correlated with the candidate miRNAs were used for creating miRNA-mRNA co-expression networks on Cytoscape (v3.4.0).

Gene Set Enrichment Analysis (GSEA)

GSEA (v2.2.2) was used for the following purposes: 1) to identify enriched pathways (Kegg, v5.2; Biocarta, v5.2), biological processes (Gene Ontology, v5.2), and molecular functions

(Gene Ontology, v5.2) in which CMH-associated mRNAs may be involved, 2) to determine enrichment of a previously published set of MUC5AC-associated genes [8] among mRNAs higher expressed with CMH, 3) to determine enrichment of CMH-associated mRNAs and MUC5AC-associated genes among miRNA-correlated mRNAs, and 4) to determine enrichment of CMH-associated mRNAs identified in the microarray dataset among the CMH-associated mRNAs identified in the RNA-seq dataset. Genes were ranked according to the strength of their t-statistic reflecting their association with CMH or their correlation with the miRNA of interest. Enrichment p-values were calculated after 1000 permutations were performed. Significant enrichment was determined by an FDR<0.01 for the first purpose and by p<0.05 for the second, third and fourth purposes.

STRING interaction network analysis

Of all 539 CMH-associated mRNAs, expression of 538 was significantly correlated with one or more of the 10 CMH-associated miRNAs (table S6). Interactions among these miRNAs' potential target genes were predicted using the STRING database (v10.0) and the interaction networks were created on Cytoscape (v3.4.0) with *stringApp* (v1.0.5) [9]. Sources of the interactions include text-mining, experiments, databases, co-expression, neighborhood, gene fusion and co-occurrence. Minimum required interaction score is 0.700.

Cell culture and RNA isolation

To compare the expression of candidate miRNAs in primary airway epithelial cells (PAECs) from COPD and non-COPD subjects, PAECs were obtained from 6 GOLD stage IV COPD (table S1) explanted lungs and 6 non-COPD donor lungs as described before [10]. PAECs were used in passage 3, grown to confluence in a transwell system, air-exposed for 14 days in BEGM/DMEM supplemented with 15 ng/ml retinoic acid and hormonally and growth factor-

deprived overnight as described previously [10]. To compare the expression of candidate miRNAs in primary airway fibroblasts (PAFs), a separate experiment was performed. PAFs were isolated from GOLD stage IV COPD patients (table S2) with (n=8) and without CMH (n=8) as described before [11] and used in passage 5/6 and cultured in Ham's F12 medium supplemented with 10% (v/v) fetal bovine serum (FBS) until confluence. The cells were then serum deprived for 24 hours. The study protocol followed national ethical and professional guidelines ('Code of conduct; Dutch federation of biomedical scientific societies'; <http://www.federa.org>) for all lung tissues and explant cell culture studies in Groningen.

Reverse transcription-quantitative PCR (RT-qPCR)

Total RNA was isolated using Tri Reagent® according to the manufacturer's protocol. For the miRNAs of interest RNA was converted to cDNA using the TaqMan microRNA reverse transcription kit (Life Technologies, Bleiswijk, Netherlands) and reverse transcription primers (Life Technologies) for let-7a-5p (assay id: 000377), miR-31-5p (002279), miR-708-5p (002341), miR-134-5p (000459), miR-146a-5p (000468), miR-193a-5p (002281), miR-500a-3p (001046) and miR-1207-5p (241060_mat). As let-7d-5p and let-7f-5p were in the same cluster as let-7a-5p and these three miRNAs shared very similar results in the previous analyses, we only investigated let-7a-5p expression. qPCR was performed using the matched PCR primers (Life Technologies) and Eurogentec qPCR MasterMix Plus (05-QP2X-03; Eurogentec, Maastricht, Netherlands) on the LightCycler 480 II (Roche, Almere, Netherlands). Expression of the miRNAs of interest was normalized to the expression of the small nuclear RNA, RNU48 (001006). To determine MUC5AC expression, RNA was converted to cDNA using iScript™ cDNA Synthesis Kit (BioRad). qPCR was then performed using MUC5AC Taqman® assay (Hs01365616_m1) and the Taqman® Master Mix according to the manufacturer's guidelines (Applied Biosystems, Foster City, CA).

MUC5AC expression was normalized to the expression of the reference genes: *B2M* (Hs99999907_m1) and *PPIA* (Hs99999904_m1).

Table S1 Characteristics of patients from which primary airway epithelial cells (PAECs) were obtained

	COPD IV patients [#] (n=6)
Gender (male), n(%)	3(50.0)
Ex-smokers, n(%)	6(100.0)
Pack-year*	41.7 (23.6-50.3)
Age, year*	55 (51-59)
FEV ₁ , %predicted*	18.8 (17.3-19.8)
FEV ₁ /FVC*	0.24 (0.22-0.25)

*Data are presented as median (interquartile range); FEV₁ is forced expiratory volume in 1 second; FVC is forced vital capacity; [#]two patients were CMH-positive.

Table S2 Characteristics of patients from which primary airway fibroblast (PAFs) were obtained

	COPD patients	
	no CMH (n=8)	CMH (n=8)
Gender (male), n(%)	2(25.0)	4(50.0)
Pack-year*	38.0 (30.0-57.0)	30.0 (28.8-36.3)
Age, year*	58 (57-61)	58 (50-59)
FEV ₁ , %predicted*	20.7 (17.3-22.6)	15.2 (14.2-18.5)
FEV ₁ /FVC*	0.26 (0.24-0.31)	0.27 (0.24-0.32)

*Data are presented as median (interquartile range); FEV₁ is forced expiratory volume in 1 second; FVC is forced vital capacity.

Table S3 microRNAs differentially expressed with CMH and their statistics

miRNA	Severe CMH vs No CMH (definition A)				Severe CMH vs No CMH (definition B)		
	t-value	FC	p-value	FDR	t-value	FC	p-value
let-7d-5p	2.928	1.263	4.927E-03	0.149	2.453	1.171	1.730E-02
miR-30c-5p	2.922	1.411	5.001E-03	0.149	3.365	1.423	1.400E-03
miR-708-5p	2.794	2.061	7.116E-03	0.149	2.930	2.060	4.900E-03
miR-31-5p	2.528	1.684	1.431E-02	0.182	2.566	1.613	1.300E-02
miR-27-3p	2.433	1.452	1.821E-02	0.182	3.420	1.730	1.200E-03
miR-30b-5p	2.339	1.475	2.291E-02	0.182	3.060	1.475	3.400E-03
let-7f-5p	2.227	1.700	2.996E-02	0.230	2.766	1.789	7.700E-03
let-7a-5p	2.133	1.261	3.731E-02	0.240	2.400	1.223	1.980E-02
miR-19a-3p	2.088	1.638	4.139E-02	0.244	2.463	1.529	1.690E-02
miR-134-5p	-3.507	-2.152	9.002E-04	0.149	-2.433	-1.615	1.820E-02
miR-193a-5p	-2.774	-1.785	7.519E-03	0.149	-2.545	-1.653	1.370E-02
miR-320c	-2.681	-1.355	9.638E-03	0.171	-2.874	-1.316	5.700E-03
miR-339-3p	-2.448	-1.342	1.754E-02	0.182	-2.138	-1.269	3.690E-02
miR-320a	-2.419	-1.334	1.885E-02	0.182	-2.863	-1.320	5.900E-03
miR-320b	-2.384	-1.309	2.054E-02	0.182	-2.873	-1.299	5.700E-03
miR-1207-5p	-2.371	-1.547	2.120E-02	0.182	-3.727	-1.694	5.000E-04
miR-22-3p	-2.183	-1.209	3.326E-02	0.239	-2.250	-1.230	2.840E-02
miR-500a-3p	-2.151	-1.336	3.577E-02	0.240	-2.166	-1.239	3.460E-02
miR-146a-5p	-2.117	-1.626	3.872E-02	0.240	-2.288	-1.569	2.590E-02
miR-320d	-2.106	-1.259	3.969E-02	0.240	-2.288	-1.242	2.590E-02

FC is fold change; FDR is false discovery rate.

Table S4 mRNAs differentially expressed with CMH and their statistics

gene	Moderate/severe CMH vs No CMH (definition A)				Moderate/severe CMH vs No CMH (definition B)		
	t-value	FC	p-value	FDR	t-value	FC	p-value
AIG1	4.667	1.355	0.000	0.225	2.548	1.213	0.014
LRRC8B	4.498	1.487	0.000	0.225	3.117	1.359	0.003
ROD1	4.410	1.538	0.000	0.225	3.515	1.461	0.001
OSBPL3	4.402	1.671	0.000	0.225	3.130	1.522	0.003
RC3H1	4.345	1.238	0.000	0.225	2.760	1.173	0.008
RQCD1	4.082	1.264	0.000	0.231	4.512	1.316	0.000
LIAS	4.030	1.193	0.000	0.231	2.254	1.124	0.029
USP46	3.884	1.270	0.000	0.231	2.608	1.193	0.012
MTF1	3.873	1.289	0.000	0.231	2.842	1.227	0.006
CSNK1A1	3.834	1.400	0.000	0.231	2.724	1.298	0.009
ZDHHC13	3.795	1.579	0.000	0.231	2.974	1.468	0.005
MARVELD2	3.728	1.554	0.000	0.231	3.236	1.478	0.002
FAM60A	3.722	1.627	0.001	0.231	3.614	1.637	0.001
NEBL	3.696	1.368	0.001	0.231	2.757	1.277	0.008
HNRNPF	3.654	1.229	0.001	0.231	2.967	1.210	0.005
WDR45L	3.638	1.239	0.001	0.231	3.640	1.256	0.001
ADAT1	3.629	1.204	0.001	0.231	3.165	1.200	0.003
SRI	3.617	1.534	0.001	0.231	2.702	1.435	0.009
SS18	3.614	1.253	0.001	0.231	3.093	1.241	0.003
TTC39C	3.584	1.325	0.001	0.231	3.012	1.283	0.004
LRBA	3.580	1.360	0.001	0.231	2.751	1.297	0.008
WDR51B	3.574	1.322	0.001	0.231	3.196	1.301	0.002
TMEM14B	3.571	1.396	0.001	0.231	2.837	1.322	0.007
KATNA1	3.570	1.338	0.001	0.231	3.588	1.365	0.001
NFX1	3.568	1.212	0.001	0.231	2.588	1.163	0.013
GTF2E2	3.562	1.297	0.001	0.231	2.936	1.259	0.005
USP6NL	3.559	1.248	0.001	0.231	3.508	1.257	0.001
POLR2H	3.547	1.287	0.001	0.231	2.527	1.220	0.015
AZIN1	3.530	1.604	0.001	0.231	2.158	1.398	0.036
FANCF	3.514	1.415	0.001	0.231	2.982	1.396	0.004
DYRK1A	3.490	1.232	0.001	0.231	2.094	1.155	0.041
C3orf52	3.477	1.530	0.001	0.231	2.461	1.385	0.017
SAT1	3.475	1.363	0.001	0.231	2.330	1.254	0.024
IDH3A	3.473	1.355	0.001	0.231	3.234	1.360	0.002
PRDM4	3.467	1.160	0.001	0.231	3.262	1.167	0.002
B3GNT5	3.457	1.816	0.001	0.231	2.796	1.691	0.007
FLJ11506	3.451	1.207	0.001	0.231	3.179	1.198	0.003

INPP4B	3.446	1.296	0.001	0.231	2.425	1.233	0.019
CSNK2A1	3.431	1.207	0.001	0.231	2.483	1.166	0.016
RAB28	3.429	1.395	0.001	0.231	2.087	1.264	0.042
KIAA0232	3.420	1.293	0.001	0.231	2.193	1.208	0.033
C11orf30	3.419	1.279	0.001	0.231	2.989	1.262	0.004
COMMD2	3.413	1.317	0.001	0.231	2.462	1.258	0.017
SNX24	3.374	1.284	0.001	0.231	2.618	1.237	0.012
MRP63	3.370	1.194	0.001	0.231	2.804	1.166	0.007
NUP153	3.366	1.244	0.001	0.231	3.146	1.242	0.003
WDR33	3.361	1.169	0.001	0.231	2.188	1.131	0.033
GFM2	3.351	1.407	0.002	0.231	2.452	1.313	0.018
SMG7	3.346	1.218	0.002	0.231	3.030	1.207	0.004
LOC100133333	3.337	1.560	0.002	0.231	2.090	1.360	0.042
CXorf39	3.336	1.174	0.002	0.231	3.430	1.183	0.001
C17orf75	3.334	1.289	0.002	0.231	2.310	1.221	0.025
H2AFY	3.327	1.190	0.002	0.231	2.993	1.178	0.004
LARP5	3.313	1.235	0.002	0.231	2.437	1.179	0.018
MAP3K7IP3	3.310	1.206	0.002	0.231	3.080	1.202	0.003
MAL2	3.308	1.583	0.002	0.231	3.160	1.538	0.003
DNAJC16	3.306	1.279	0.002	0.231	2.986	1.260	0.004
CDS1	3.298	1.512	0.002	0.231	2.138	1.349	0.037
PPP4R1	3.295	1.344	0.002	0.231	2.722	1.299	0.009
LCOR	3.291	1.256	0.002	0.231	2.961	1.246	0.005
DAPP1	3.290	1.491	0.002	0.231	2.009	1.312	0.050
DAZAP2	3.289	1.291	0.002	0.231	2.443	1.234	0.018
SEMA3A	3.276	1.793	0.002	0.234	2.891	1.756	0.006
TRIM37	3.270	1.236	0.002	0.237	2.944	1.230	0.005
UBL3	3.267	1.486	0.002	0.238	2.167	1.343	0.035
PGM2L1	3.264	1.460	0.002	0.238	2.635	1.388	0.011
CSTB	3.257	1.402	0.002	0.238	2.758	1.334	0.008
CNOT7	3.257	1.354	0.002	0.238	2.057	1.242	0.045
MRPS21	3.255	1.178	0.002	0.238	2.705	1.162	0.009
ERLIN1	3.254	1.415	0.002	0.238	3.540	1.451	0.001
LOC100133422	3.249	1.307	0.002	0.239	2.344	1.223	0.023
AMPD3	3.238	1.285	0.002	0.241	2.369	1.221	0.022
EIF5	3.227	1.265	0.002	0.242	2.251	1.197	0.029
MUC15	3.202	2.038	0.002	0.243	2.659	1.892	0.011
TC2N	3.198	1.400	0.002	0.243	2.100	1.277	0.041
MRPS31	3.193	1.258	0.002	0.243	2.385	1.218	0.021
USP42	3.192	1.147	0.002	0.243	3.559	1.175	0.001
PEX13	3.191	1.271	0.002	0.243	2.557	1.225	0.014
PIGU	3.182	1.335	0.003	0.243	3.588	1.390	0.001
DPY30	3.177	1.340	0.003	0.243	2.199	1.250	0.033
KIAA1279	3.174	1.297	0.003	0.243	2.876	1.279	0.006
CAST	3.174	1.288	0.003	0.243	2.891	1.283	0.006
C10orf57	3.160	1.567	0.003	0.243	2.208	1.402	0.032

TRIM2	3.160	1.312	0.003	0.243	2.155	1.223	0.036
LGALS3	3.158	1.297	0.003	0.243	2.765	1.266	0.008
RAB2B	3.151	1.174	0.003	0.243	2.047	1.133	0.046
C9orf6	3.148	1.378	0.003	0.243	2.375	1.305	0.021
DAP3	3.145	1.199	0.003	0.243	2.894	1.197	0.006
IPMK	3.131	1.361	0.003	0.244	2.319	1.283	0.025
ELF1	3.109	1.254	0.003	0.244	2.594	1.225	0.012
IMPA1	3.102	1.419	0.003	0.244	2.491	1.348	0.016
DOPEY1	3.099	1.232	0.003	0.244	2.118	1.181	0.039
TDP1	3.096	1.193	0.003	0.244	3.002	1.202	0.004
UTX	3.094	1.283	0.003	0.244	3.051	1.305	0.004
FYTTD1	3.091	1.281	0.003	0.244	2.521	1.250	0.015
ZNF410	3.087	1.189	0.003	0.244	3.364	1.223	0.001
IPP	3.087	1.346	0.003	0.244	2.678	1.313	0.010
CHD7	3.087	1.171	0.003	0.244	2.719	1.164	0.009
METTL5	3.083	1.354	0.003	0.244	2.072	1.249	0.043
MIS12	3.080	1.349	0.003	0.244	2.268	1.284	0.028
TMEM154	3.075	1.611	0.003	0.244	2.388	1.485	0.021
RPP40	3.067	1.237	0.003	0.244	2.363	1.187	0.022
STAM2	3.064	1.361	0.004	0.244	2.469	1.320	0.017
TAX1BP1	3.063	1.400	0.004	0.244	2.476	1.353	0.017
USP10	3.060	1.283	0.004	0.244	3.043	1.293	0.004
OXNAD1	3.060	1.174	0.004	0.244	2.444	1.160	0.018
ABHD6	3.055	1.373	0.004	0.244	2.185	1.277	0.034
CBFB	3.055	1.211	0.004	0.244	3.389	1.248	0.001
EPS8	3.055	1.243	0.004	0.244	2.353	1.198	0.023
VAPA	3.054	1.320	0.004	0.244	2.492	1.291	0.016
DNAJA4	3.046	1.540	0.004	0.244	2.114	1.406	0.040
C10orf46	3.044	1.120	0.004	0.244	2.544	1.106	0.014
KRAS	3.040	1.416	0.004	0.244	2.500	1.340	0.016
CCDC109A	3.036	1.300	0.004	0.244	3.694	1.358	0.001
ANK3	3.034	1.295	0.004	0.244	2.402	1.260	0.020
LZTFL1	3.032	1.669	0.004	0.244	2.083	1.495	0.042
MSL3	3.030	1.182	0.004	0.244	2.193	1.145	0.033
TAF5L	3.021	1.156	0.004	0.244	2.608	1.137	0.012
PCSK5	3.017	1.436	0.004	0.244	2.228	1.338	0.030
PARD6B	3.014	1.186	0.004	0.244	2.080	1.149	0.043
TOMM34	3.012	1.330	0.004	0.244	2.716	1.305	0.009
WDR26	3.002	1.249	0.004	0.244	2.504	1.241	0.016
VDAC3	2.999	1.330	0.004	0.244	2.262	1.265	0.028
RTCD1	2.999	1.229	0.004	0.244	2.030	1.170	0.048
C1orf25	2.996	1.453	0.004	0.244	2.215	1.358	0.031
CBLB	2.981	1.236	0.004	0.244	2.064	1.176	0.044
HIPK3	2.978	1.294	0.004	0.244	2.639	1.301	0.011
PLAC8	2.975	1.825	0.005	0.244	2.105	1.629	0.040
GLIPR2	2.973	1.331	0.005	0.244	2.170	1.261	0.035

FAM149B1	2.972	1.216	0.005	0.244	2.184	1.175	0.034
KIAA1012	2.972	1.315	0.005	0.244	2.771	1.320	0.008
BTBD9	2.970	1.273	0.005	0.244	2.222	1.225	0.031
PSD3	2.958	1.375	0.005	0.244	2.329	1.288	0.024
MRPL39	2.957	1.188	0.005	0.244	3.052	1.222	0.004
KIAA2018	2.955	1.286	0.005	0.244	2.417	1.249	0.019
TDRD7	2.954	1.240	0.005	0.244	2.408	1.211	0.020
SLC15A2	2.949	1.464	0.005	0.244	2.053	1.327	0.045
RALGPS2	2.944	1.366	0.005	0.244	3.050	1.394	0.004
ATXN2	2.942	1.248	0.005	0.244	2.260	1.210	0.028
ANXA2	2.942	1.344	0.005	0.244	3.003	1.352	0.004
SOD1	2.940	1.401	0.005	0.244	2.199	1.305	0.033
SFMBT1	2.929	1.154	0.005	0.244	2.069	1.125	0.044
MRPS10	2.928	1.302	0.005	0.244	2.608	1.286	0.012
QRSL1	2.911	1.196	0.005	0.244	2.234	1.159	0.030
USP9Y	2.910	1.316	0.005	0.244	2.010	1.229	0.050
ALPK1	2.906	1.271	0.005	0.244	2.029	1.207	0.048
USP38	2.898	1.249	0.006	0.244	2.251	1.198	0.029
RP2	2.898	1.211	0.006	0.244	2.064	1.156	0.044
C1orf110	2.894	2.249	0.006	0.244	2.301	1.992	0.026
MOCS3	2.891	1.304	0.006	0.244	2.451	1.263	0.018
JHDM1D	2.888	1.337	0.006	0.244	2.349	1.292	0.023
KIAA0317	2.882	1.170	0.006	0.244	2.214	1.138	0.031
KIAA1468	2.876	1.247	0.006	0.244	2.339	1.212	0.023
RNF2	2.874	1.296	0.006	0.244	2.778	1.305	0.008
CCNY	2.873	1.150	0.006	0.244	2.839	1.157	0.007
ASCC1	2.870	1.273	0.006	0.244	2.642	1.274	0.011
MYB	2.868	1.779	0.006	0.244	2.125	1.599	0.039
ZNF823	2.866	1.198	0.006	0.244	3.705	1.251	0.001
ASXL2	2.864	1.181	0.006	0.244	2.168	1.141	0.035
STRBP	2.863	1.499	0.006	0.244	2.405	1.439	0.020
IKZF2	2.861	1.374	0.006	0.244	2.934	1.376	0.005
DLAT	2.858	1.218	0.006	0.244	3.782	1.306	0.000
EZR	2.856	1.458	0.006	0.244	2.680	1.476	0.010
RNF6	2.853	1.296	0.006	0.244	2.865	1.314	0.006
EIF4G2	2.847	1.213	0.006	0.244	3.046	1.230	0.004
TRIP4	2.845	1.247	0.006	0.244	3.037	1.276	0.004
PIGF	2.844	1.457	0.006	0.244	2.214	1.365	0.031
ZNF33B	2.843	1.363	0.006	0.244	2.038	1.277	0.047
SKP2	2.840	1.220	0.007	0.244	2.179	1.174	0.034
OMA1	2.835	1.398	0.007	0.244	2.022	1.300	0.049
MED6	2.830	1.268	0.007	0.244	2.119	1.210	0.039
PBRM1	2.827	1.213	0.007	0.244	2.761	1.219	0.008
ADIPOR1	2.820	1.240	0.007	0.244	2.063	1.190	0.044
ECHDC1	2.819	1.328	0.007	0.244	2.889	1.352	0.006
N4BP1	2.815	1.193	0.007	0.244	2.602	1.172	0.012

THRAP3	2.814	1.199	0.007	0.244	2.192	1.166	0.033
WDR47	2.809	1.335	0.007	0.244	2.143	1.266	0.037
VTA1	2.808	1.356	0.007	0.244	2.990	1.393	0.004
HECTD1	2.806	1.256	0.007	0.244	2.738	1.275	0.009
TMEM131	2.805	1.254	0.007	0.244	2.226	1.213	0.031
NUFIP2	2.804	1.213	0.007	0.244	2.830	1.233	0.007
DHRS9	2.793	1.962	0.007	0.244	2.442	1.794	0.018
CNOT1	2.791	1.222	0.007	0.244	2.928	1.243	0.005
TTC39B	2.787	1.325	0.007	0.244	2.427	1.288	0.019
GOLPH3L	2.786	1.314	0.008	0.244	2.457	1.281	0.018
C2orf86	2.780	1.419	0.008	0.244	2.094	1.347	0.041
CCDC138	2.776	1.448	0.008	0.244	2.330	1.412	0.024
YWHAE	2.775	1.300	0.008	0.244	2.630	1.300	0.011
HSPA4L	2.774	1.424	0.008	0.244	3.142	1.490	0.003
HSBP1	2.773	1.261	0.008	0.244	2.255	1.226	0.029
INADL	2.771	1.184	0.008	0.244	2.816	1.202	0.007
RICS	2.769	1.357	0.008	0.244	2.721	1.331	0.009
AFTPH	2.766	1.154	0.008	0.244	2.637	1.153	0.011
GCLC	2.764	1.669	0.008	0.244	3.277	1.744	0.002
CBLL1	2.758	1.171	0.008	0.244	3.174	1.200	0.003
TMEM220	2.757	1.206	0.008	0.244	2.013	1.162	0.050
NQO1	2.753	1.956	0.008	0.244	2.081	1.613	0.043
ABI1	2.751	1.323	0.008	0.244	2.353	1.292	0.023
RAB11A	2.750	1.305	0.008	0.244	2.645	1.299	0.011
CHMP5	2.750	1.339	0.008	0.244	2.029	1.271	0.048
NUPL1	2.750	1.190	0.008	0.244	2.783	1.211	0.008
APTX	2.749	1.132	0.008	0.244	2.229	1.120	0.030
MLLT4	2.747	1.344	0.008	0.244	2.118	1.294	0.039
MUDENG	2.746	1.371	0.008	0.244	2.025	1.292	0.048
TMOD3	2.745	1.297	0.008	0.244	2.357	1.254	0.022
FRK	2.743	1.318	0.008	0.244	2.333	1.264	0.024
MAK10	2.742	1.209	0.008	0.244	2.607	1.214	0.012
ZNF607	2.741	1.266	0.008	0.244	2.108	1.227	0.040
IFT52	2.735	1.296	0.009	0.244	2.321	1.278	0.024
ARID2	2.734	1.223	0.009	0.244	2.313	1.201	0.025
SEC23IP	2.729	1.207	0.009	0.244	2.652	1.197	0.011
TGFA	2.724	1.281	0.009	0.244	2.538	1.254	0.014
EV11	2.723	1.271	0.009	0.244	2.198	1.223	0.033
PDIK1L	2.716	1.202	0.009	0.244	2.901	1.218	0.006
TET2	2.715	1.193	0.009	0.244	2.191	1.179	0.033
BTBD1	2.714	1.204	0.009	0.244	2.150	1.167	0.036
PTGR1	2.713	1.500	0.009	0.244	3.403	1.610	0.001
RMND5A	2.711	1.351	0.009	0.244	2.266	1.311	0.028
IVNS1ABP	2.710	1.223	0.009	0.244	3.146	1.275	0.003
HEBP2	2.710	1.169	0.009	0.244	2.120	1.134	0.039
KLHDC10	2.706	1.179	0.009	0.244	2.244	1.161	0.029

TRIP13	2.705	1.245	0.009	0.244	2.725	1.256	0.009
BAZ1A	2.699	1.242	0.009	0.245	2.951	1.266	0.005
TTC9C	2.697	1.120	0.010	0.245	2.187	1.103	0.033
CHMP2B	2.695	1.397	0.010	0.245	2.210	1.351	0.032
ZNF398	2.691	1.132	0.010	0.245	3.295	1.166	0.002
POLR1C	2.689	1.169	0.010	0.245	2.497	1.166	0.016
BRP44	2.684	1.227	0.010	0.245	2.114	1.187	0.040
S100A11	2.683	1.303	0.010	0.245	2.011	1.229	0.050
LOC552889	2.683	1.197	0.010	0.245	2.283	1.190	0.027
MORF4L2	2.680	1.308	0.010	0.245	2.805	1.346	0.007
EXPH5	2.679	1.391	0.010	0.245	2.742	1.413	0.008
LASS6	2.679	1.320	0.010	0.245	2.103	1.268	0.041
ZNF561	2.679	1.206	0.010	0.245	3.067	1.243	0.003
NBEAL1	2.679	1.268	0.010	0.245	2.702	1.300	0.009
HCCS	2.678	1.254	0.010	0.245	2.831	1.262	0.007
BAIAP2L1	2.667	1.390	0.010	0.247	2.010	1.308	0.050
ANXA4	2.658	1.306	0.011	0.248	2.078	1.265	0.043
SGMS2	2.658	1.395	0.011	0.248	2.382	1.361	0.021
EIF4G3	2.657	1.219	0.011	0.248	2.322	1.192	0.024
FBXO28	2.657	1.230	0.011	0.248	2.696	1.247	0.010
CNOT6	2.656	1.229	0.011	0.248	2.332	1.213	0.024
DHX32	2.655	1.275	0.011	0.248	2.179	1.238	0.034
CLIP1	2.654	1.214	0.011	0.248	2.939	1.243	0.005
SAPS3	2.654	1.138	0.011	0.248	2.317	1.127	0.025
POLR3C	2.650	1.163	0.011	0.248	2.958	1.184	0.005
OTUD4	2.643	1.358	0.011	0.248	2.184	1.329	0.034
ANXA2P2	2.642	1.288	0.011	0.248	2.515	1.273	0.015
SPAG1	2.640	1.569	0.011	0.248	2.025	1.465	0.048
TLE4	2.639	1.163	0.011	0.248	2.271	1.140	0.028
TTLL5	2.635	1.351	0.011	0.248	2.153	1.306	0.036
PRKAR2A	2.634	1.153	0.011	0.248	2.704	1.162	0.009
NEK4	2.630	1.262	0.011	0.248	2.483	1.281	0.016
SLMO2	2.627	1.334	0.011	0.248	2.879	1.367	0.006
GSK3B	2.627	1.184	0.011	0.248	2.812	1.203	0.007
ZNF507	2.626	1.221	0.011	0.248	2.147	1.201	0.037
DDX3X	2.625	1.207	0.011	0.248	2.759	1.235	0.008
SECISBP2	2.624	1.174	0.012	0.248	2.442	1.184	0.018
PAPOLA	2.622	1.265	0.012	0.248	2.126	1.236	0.038
MYO6	2.620	1.246	0.012	0.248	2.483	1.231	0.016
PDCD6IP	2.619	1.181	0.012	0.248	2.266	1.166	0.028
VRK2	2.618	1.253	0.012	0.248	2.804	1.291	0.007
C1orf58	2.616	1.309	0.012	0.248	2.466	1.297	0.017
NXT2	2.615	1.259	0.012	0.248	3.511	1.345	0.001
TESC	-2.614	-1.497	0.012	0.248	-2.793	-1.556	0.007
ZNF775	-2.615	-1.167	0.012	0.248	-2.377	-1.162	0.021
ADAD2	-2.616	-1.206	0.012	0.248	-2.114	-1.183	0.039

MRGPRF	-2.617	-1.291	0.012	0.248	-2.375	-1.262	0.021
VASN	-2.624	-1.189	0.011	0.248	-3.115	-1.240	0.003
PLXND1	-2.624	-1.375	0.011	0.248	-3.365	-1.457	0.001
NAPSA	-2.625	-1.202	0.011	0.248	-2.605	-1.214	0.012
C1QTNF5	-2.625	-1.212	0.011	0.248	-3.208	-1.267	0.002
LOC100132755	-2.626	-1.313	0.011	0.248	-2.181	-1.279	0.034
FAM70B	-2.629	-1.264	0.011	0.248	-3.429	-1.354	0.001
PARVB	-2.633	-1.180	0.011	0.248	-3.556	-1.252	0.001
SLC26A3	-2.634	-1.161	0.011	0.248	-2.181	-1.147	0.034
INMT	-2.635	-1.352	0.011	0.248	-2.514	-1.320	0.015
CDR2L	-2.639	-1.253	0.011	0.248	-2.129	-1.216	0.038
MYO7B	-2.641	-1.143	0.011	0.248	-2.548	-1.153	0.014
PTGER1	-2.645	-1.229	0.011	0.248	-2.355	-1.209	0.023
GPR124	-2.647	-1.301	0.011	0.248	-2.751	-1.312	0.008
EXD3	-2.650	-1.164	0.011	0.248	-2.068	-1.140	0.044
EMILIN3	-2.650	-1.178	0.011	0.248	-2.373	-1.174	0.022
NRTN	-2.650	-1.207	0.011	0.248	-2.544	-1.211	0.014
LCN10	-2.652	-1.319	0.011	0.248	-2.010	-1.240	0.050
TAL1	-2.654	-1.218	0.011	0.248	-2.643	-1.222	0.011
TMEM38A	-2.654	-1.165	0.011	0.248	-2.769	-1.185	0.008
GNB5	-2.658	-1.113	0.011	0.248	-2.097	-1.090	0.041
FLJ42957	-2.662	-1.194	0.010	0.248	-2.665	-1.223	0.010
FAM9C	-2.664	-1.166	0.010	0.247	-2.043	-1.146	0.046
LPAR4	-2.665	-1.190	0.010	0.247	-2.220	-1.161	0.031
LOC100133397	-2.665	-1.215	0.010	0.247	-2.043	-1.174	0.046
NFATC4	-2.669	-1.241	0.010	0.247	-2.214	-1.213	0.031
TUBB6	-2.671	-1.202	0.010	0.247	-2.473	-1.198	0.017
PTMS	-2.672	-1.212	0.010	0.247	-2.381	-1.211	0.021
FAM69B	-2.677	-1.191	0.010	0.245	-2.962	-1.224	0.005
KLHL34	-2.678	-1.170	0.010	0.245	-2.132	-1.148	0.038
NUP210L	-2.680	-1.228	0.010	0.245	-2.531	-1.223	0.015
NPFFR1	-2.685	-1.271	0.010	0.245	-2.149	-1.234	0.037
SNORD114-3	-2.685	-1.500	0.010	0.245	-2.467	-1.464	0.017
SH3BP2	-2.690	-1.231	0.010	0.245	-3.186	-1.270	0.002
C11orf20	-2.691	-1.393	0.010	0.245	-2.120	-1.328	0.039
GDNF	-2.695	-1.165	0.010	0.245	-2.148	-1.146	0.037
IL2RA	-2.699	-1.213	0.009	0.245	-2.408	-1.189	0.020
FEZ1	-2.701	-1.284	0.009	0.244	-2.558	-1.282	0.014
DSCR6	-2.702	-1.216	0.009	0.244	-2.571	-1.220	0.013
PCBP4	-2.706	-1.216	0.009	0.244	-2.133	-1.173	0.038
EBF3	-2.706	-1.307	0.009	0.244	-3.397	-1.363	0.001
SNORD116-25	-2.707	-1.262	0.009	0.244	-2.292	-1.219	0.026
SRY	-2.708	-1.124	0.009	0.244	-2.629	-1.131	0.011
CHRD	-2.710	-1.175	0.009	0.244	-2.274	-1.160	0.027
TTYH1	-2.711	-1.346	0.009	0.244	-2.581	-1.356	0.013
LRRN3	-2.713	-1.159	0.009	0.244	-2.030	-1.132	0.048

SEMA3G	-2.713	-1.247	0.009	0.244	-2.918	-1.280	0.005
DHH	-2.716	-1.223	0.009	0.244	-2.437	-1.216	0.018
ZNF358	-2.721	-1.152	0.009	0.244	-2.598	-1.149	0.012
RCOR2	-2.722	-1.207	0.009	0.244	-2.231	-1.189	0.030
FAM43A	-2.726	-1.223	0.009	0.244	-2.175	-1.187	0.034
SMTN	-2.727	-1.431	0.009	0.244	-2.424	-1.385	0.019
TNFRSF18	-2.728	-1.208	0.009	0.244	-2.075	-1.174	0.043
ROBO4	-2.729	-1.245	0.009	0.244	-3.132	-1.278	0.003
SLC45A1	-2.730	-1.221	0.009	0.244	-2.036	-1.177	0.047
UAP1L1	-2.730	-1.195	0.009	0.244	-2.905	-1.222	0.005
IRF2BP1	-2.734	-1.147	0.009	0.244	-2.513	-1.144	0.015
FBXO43	-2.737	-1.149	0.009	0.244	-2.131	-1.128	0.038
PKHD1L1	-2.739	-1.285	0.009	0.244	-2.339	-1.264	0.023
SPNS2	-2.752	-1.288	0.008	0.244	-2.146	-1.243	0.037
CCDC50	-2.757	-1.142	0.008	0.244	-2.623	-1.130	0.012
SPTB	-2.757	-1.172	0.008	0.244	-2.634	-1.174	0.011
COL6A1	-2.757	-1.449	0.008	0.244	-2.476	-1.404	0.017
SERPINA3	-2.760	-3.099	0.008	0.244	-2.079	-2.488	0.043
EGFL7	-2.763	-1.280	0.008	0.244	-3.411	-1.344	0.001
LOC100133142	-2.765	-1.271	0.008	0.244	-2.416	-1.265	0.019
HEXDC	-2.767	-1.158	0.008	0.244	-2.667	-1.158	0.010
UNC45B	-2.767	-1.220	0.008	0.244	-2.401	-1.188	0.020
KLHL4	-2.772	-1.183	0.008	0.244	-2.771	-1.189	0.008
SPSB4	-2.773	-1.232	0.008	0.244	-2.040	-1.190	0.047
EBF1	-2.780	-1.553	0.008	0.244	-2.551	-1.495	0.014
LOC100130518	-2.781	-1.173	0.008	0.244	-2.149	-1.146	0.036
SNTA1	-2.782	-1.207	0.008	0.244	-2.307	-1.192	0.025
C9orf4	-2.783	-1.193	0.008	0.244	-3.379	-1.241	0.001
DAAM2	-2.786	-1.418	0.008	0.244	-2.203	-1.324	0.032
HSD17B14	-2.787	-1.280	0.007	0.244	-2.412	-1.234	0.020
SCARNA4	-2.788	-1.297	0.007	0.244	-2.805	-1.299	0.007
DBN1	-2.793	-1.232	0.007	0.244	-2.151	-1.190	0.036
ACTRT2	-2.794	-1.209	0.007	0.244	-2.353	-1.195	0.023
PLVAP	-2.796	-1.440	0.007	0.244	-2.745	-1.419	0.008
MRC2	-2.796	-1.291	0.007	0.244	-2.031	-1.221	0.048
SGK493	-2.806	-1.571	0.007	0.244	-2.284	-1.471	0.027
FLJ46838	-2.807	-1.131	0.007	0.244	-2.591	-1.130	0.012
GRASP	-2.809	-1.295	0.007	0.244	-3.290	-1.338	0.002
MN1	-2.810	-1.218	0.007	0.244	-2.732	-1.219	0.009
GEFT	-2.812	-1.443	0.007	0.244	-2.304	-1.354	0.025
EFEMP2	-2.813	-1.302	0.007	0.244	-2.618	-1.272	0.012
PCP2	-2.814	-1.202	0.007	0.244	-2.953	-1.234	0.005
MPP2	-2.815	-1.171	0.007	0.244	-2.167	-1.143	0.035
CLEC14A	-2.820	-1.415	0.007	0.244	-3.219	-1.449	0.002
EDA	-2.821	-1.161	0.007	0.244	-2.748	-1.163	0.008
ENPEP	-2.822	-1.212	0.007	0.244	-3.186	-1.236	0.002

GLI1	-2.824	-1.213	0.007	0.244	-2.963	-1.242	0.005
CRTC1	-2.825	-1.186	0.007	0.244	-2.758	-1.193	0.008
SMARCD3	-2.829	-1.193	0.007	0.244	-2.843	-1.199	0.006
SLC17A7	-2.832	-1.203	0.007	0.244	-2.193	-1.167	0.033
LOC124220	-2.837	-2.199	0.007	0.244	-2.062	-1.913	0.044
CD22	-2.838	-1.380	0.007	0.244	-2.304	-1.324	0.025
OPRK1	-2.839	-1.157	0.007	0.244	-2.786	-1.167	0.008
FBXO44	-2.840	-1.175	0.007	0.244	-2.742	-1.174	0.008
REN	-2.844	-1.157	0.006	0.244	-2.256	-1.142	0.028
ProSAPiP1	-2.844	-1.261	0.006	0.244	-2.126	-1.204	0.038
SNORA20	-2.844	-1.455	0.006	0.244	-2.123	-1.320	0.039
GGTLC1	-2.846	-1.145	0.006	0.244	-3.238	-1.177	0.002
LMCD1	-2.849	-1.376	0.006	0.244	-2.773	-1.345	0.008
NPPB	-2.854	-1.219	0.006	0.244	-2.824	-1.230	0.007
SLC6A17	-2.856	-1.193	0.006	0.244	-2.056	-1.158	0.045
KIAA0427	-2.856	-1.193	0.006	0.244	-2.072	-1.146	0.043
KIAA1045	-2.861	-1.186	0.006	0.244	-2.473	-1.175	0.017
ADAMTSL1	-2.862	-1.247	0.006	0.244	-2.182	-1.190	0.034
PGF	-2.866	-1.217	0.006	0.244	-2.393	-1.200	0.021
RAPGEF3	-2.867	-1.351	0.006	0.244	-3.671	-1.434	0.001
REXO1	-2.873	-1.200	0.006	0.244	-2.633	-1.202	0.011
GALNTL1	-2.876	-1.376	0.006	0.244	-3.391	-1.466	0.001
NENF	-2.878	-1.174	0.006	0.244	-2.121	-1.137	0.039
ADRA2C	-2.879	-1.183	0.006	0.244	-2.954	-1.190	0.005
NRGN	-2.880	-1.536	0.006	0.244	-2.085	-1.387	0.042
TUBB2B	-2.884	-1.263	0.006	0.244	-2.037	-1.194	0.047
TRIM54	-2.891	-1.166	0.006	0.244	-2.943	-1.189	0.005
VWA1	-2.895	-1.223	0.006	0.244	-2.594	-1.211	0.012
LRRC4B	-2.895	-1.224	0.006	0.244	-2.010	-1.170	0.050
CLTCL1	-2.897	-1.131	0.006	0.244	-2.177	-1.100	0.034
RASL10B	-2.898	-1.221	0.006	0.244	-2.677	-1.217	0.010
DLK2	-2.898	-1.232	0.006	0.244	-2.063	-1.174	0.044
TMEM150	-2.901	-1.210	0.006	0.244	-2.040	-1.153	0.047
NPDC1	-2.903	-1.366	0.005	0.244	-2.409	-1.335	0.020
CRH	-2.906	-1.161	0.005	0.244	-2.205	-1.138	0.032
SLC26A10	-2.908	-1.296	0.005	0.244	-3.262	-1.335	0.002
DGKG	-2.909	-1.283	0.005	0.244	-2.885	-1.293	0.006
OR2B11	-2.913	-1.231	0.005	0.244	-2.248	-1.192	0.029
PKN3	-2.914	-1.253	0.005	0.244	-2.912	-1.262	0.005
ART4	-2.915	-1.205	0.005	0.244	-2.365	-1.181	0.022
METTL7B	-2.918	-1.210	0.005	0.244	-2.726	-1.208	0.009
USHBP1	-2.925	-1.162	0.005	0.244	-2.436	-1.154	0.018
RNASE1	-2.927	-1.574	0.005	0.244	-2.612	-1.522	0.012
CLEC11A	-2.927	-1.234	0.005	0.244	-3.236	-1.282	0.002
FAM65A	-2.930	-1.234	0.005	0.244	-2.473	-1.200	0.017
ITGA7	-2.930	-1.480	0.005	0.244	-3.814	-1.589	0.000

ADAMTS10	-2.932	-1.244	0.005	0.244	-3.176	-1.254	0.003
GNAO1	-2.932	-1.283	0.005	0.244	-2.137	-1.221	0.037
NFE2	-2.937	-1.242	0.005	0.244	-2.654	-1.219	0.011
CLDN11	-2.939	-1.291	0.005	0.244	-3.229	-1.340	0.002
BLOC1S3	-2.940	-1.229	0.005	0.244	-2.526	-1.204	0.015
A1BG	-2.954	-1.197	0.005	0.244	-2.225	-1.160	0.031
ADCY1	-2.956	-1.147	0.005	0.244	-2.816	-1.146	0.007
HAS1	-2.957	-1.204	0.005	0.244	-3.122	-1.234	0.003
COL4A1	-2.959	-1.477	0.005	0.244	-2.896	-1.473	0.006
HOXC12	-2.959	-1.219	0.005	0.244	-2.446	-1.194	0.018
TGFB1I1	-2.961	-1.299	0.005	0.244	-3.365	-1.333	0.001
ARL10	-2.961	-1.230	0.005	0.244	-2.142	-1.177	0.037
JPH2	-2.970	-1.257	0.005	0.244	-2.607	-1.235	0.012
C9orf142	-2.973	-1.189	0.005	0.244	-2.069	-1.139	0.044
CDX1	-2.977	-1.187	0.004	0.244	-2.527	-1.172	0.015
EPHB1	-2.978	-1.220	0.004	0.244	-3.001	-1.233	0.004
TRPV2	-2.983	-1.263	0.004	0.244	-2.655	-1.231	0.011
HOXD4	-2.988	-1.268	0.004	0.244	-2.564	-1.249	0.013
FAM71A	-2.992	-1.161	0.004	0.244	-2.790	-1.158	0.007
SPEG	-2.993	-1.244	0.004	0.244	-2.993	-1.258	0.004
DLX2	-2.993	-1.223	0.004	0.244	-2.014	-1.171	0.049
THY1	-2.993	-1.435	0.004	0.244	-3.574	-1.550	0.001
MAP3K11	-2.996	-1.233	0.004	0.244	-2.705	-1.217	0.009
LCN6	-3.003	-1.312	0.004	0.244	-2.397	-1.245	0.020
PITPNM2	-3.005	-1.252	0.004	0.244	-2.048	-1.185	0.046
SELM	-3.005	-1.408	0.004	0.244	-2.397	-1.318	0.020
SEMA6B	-3.007	-1.276	0.004	0.244	-2.643	-1.252	0.011
PTRF	-3.008	-1.514	0.004	0.244	-2.900	-1.471	0.006
PDLIM7	-3.018	-1.334	0.004	0.244	-2.727	-1.308	0.009
CLEC3B	-3.019	-1.255	0.004	0.244	-3.526	-1.309	0.001
SPTA1	-3.022	-1.153	0.004	0.244	-2.358	-1.129	0.022
GDF11	-3.025	-1.290	0.004	0.244	-2.779	-1.286	0.008
FBXO10	-3.027	-1.176	0.004	0.244	-2.889	-1.186	0.006
HES3	-3.028	-1.251	0.004	0.244	-2.921	-1.254	0.005
CRHBP	-3.044	-1.202	0.004	0.244	-2.116	-1.150	0.039
HOXB6	-3.062	-1.248	0.004	0.244	-2.098	-1.178	0.041
RAMP1	-3.063	-1.244	0.004	0.244	-2.487	-1.209	0.016
WFDC1	-3.063	-1.304	0.004	0.244	-3.608	-1.374	0.001
RPL23AP71	-3.064	-1.241	0.004	0.244	-2.166	-1.184	0.035
COL4A2	-3.066	-1.413	0.003	0.244	-3.547	-1.483	0.001
ADRA1A	-3.072	-1.241	0.003	0.244	-2.302	-1.201	0.026
PNCK	-3.082	-1.223	0.003	0.244	-2.639	-1.210	0.011
MAPK11	-3.083	-1.230	0.003	0.244	-3.402	-1.264	0.001
FSTL3	-3.084	-1.270	0.003	0.244	-2.618	-1.225	0.012
DYSF	-3.089	-1.353	0.003	0.244	-4.036	-1.434	0.000
CCDC9	-3.092	-1.233	0.003	0.244	-2.047	-1.169	0.046

SETD1B	-3.093	-1.185	0.003	0.244	-2.470	-1.162	0.017
PLAC9	-3.093	-1.296	0.003	0.244	-2.313	-1.229	0.025
PP13004	-3.097	-1.246	0.003	0.244	-2.615	-1.231	0.012
SPHK1	-3.098	-1.408	0.003	0.244	-2.603	-1.356	0.012
SHROOM4	-3.102	-1.213	0.003	0.244	-2.668	-1.176	0.010
PLXNB3	-3.103	-1.295	0.003	0.244	-2.717	-1.296	0.009
SNX15	-3.108	-1.189	0.003	0.244	-2.832	-1.186	0.007
C8orf82	-3.119	-1.209	0.003	0.244	-2.781	-1.198	0.008
NME4	-3.131	-1.197	0.003	0.244	-2.027	-1.137	0.048
GAL3ST4	-3.136	-1.226	0.003	0.243	-3.079	-1.241	0.003
CARD10	-3.138	-1.228	0.003	0.243	-2.177	-1.174	0.034
TBC1D4	-3.140	-1.228	0.003	0.243	-2.124	-1.162	0.039
COPZ2	-3.142	-1.265	0.003	0.243	-3.678	-1.320	0.001
PLK5P	-3.143	-1.204	0.003	0.243	-3.472	-1.235	0.001
GGT5	-3.143	-1.321	0.003	0.243	-3.736	-1.372	0.000
LEPRE1	-3.145	-1.188	0.003	0.243	-2.762	-1.178	0.008
SYDE1	-3.151	-1.270	0.003	0.243	-2.159	-1.197	0.036
CDH23	-3.151	-1.221	0.003	0.243	-2.186	-1.148	0.034
CCDC141	-3.157	-1.241	0.003	0.243	-2.794	-1.224	0.007
DPF3	-3.160	-1.248	0.003	0.243	-2.487	-1.208	0.016
C20orf160	-3.161	-1.232	0.003	0.243	-2.905	-1.219	0.005
COL8A2	-3.168	-1.211	0.003	0.243	-2.411	-1.179	0.020
PPP1R12C	-3.170	-1.246	0.003	0.243	-2.149	-1.182	0.037
FRAT1	-3.172	-1.226	0.003	0.243	-2.162	-1.165	0.035
F2RL3	-3.189	-1.250	0.002	0.243	-2.671	-1.228	0.010
CHST10	-3.195	-1.236	0.002	0.243	-2.597	-1.193	0.012
FLT4	-3.202	-1.254	0.002	0.243	-3.553	-1.284	0.001
ACVRL1	-3.204	-1.311	0.002	0.243	-2.941	-1.292	0.005
FAM101B	-3.223	-1.283	0.002	0.243	-2.960	-1.275	0.005
EVX2	-3.229	-1.236	0.002	0.242	-2.280	-1.193	0.027
RASL12	-3.233	-1.345	0.002	0.242	-2.558	-1.278	0.014
ARPP-21	-3.242	-1.160	0.002	0.239	-2.014	-1.108	0.049
COL6A2	-3.252	-1.343	0.002	0.238	-3.040	-1.330	0.004
TLN2	-3.283	-1.278	0.002	0.233	-2.477	-1.218	0.017
UNKL	-3.295	-1.213	0.002	0.231	-3.299	-1.224	0.002
SLC22A17	-3.304	-1.339	0.002	0.231	-2.698	-1.278	0.009
TBX2	-3.311	-1.295	0.002	0.231	-2.907	-1.254	0.005
GPD1	-3.312	-1.393	0.002	0.231	-2.222	-1.289	0.031
CNTNAP1	-3.330	-1.230	0.002	0.231	-2.921	-1.218	0.005
IL34	-3.338	-1.213	0.002	0.231	-2.429	-1.170	0.019
TNFRSF10D	-3.360	-1.241	0.001	0.231	-2.861	-1.223	0.006
ST3GAL2	-3.361	-1.277	0.001	0.231	-3.817	-1.308	0.000
LOC375295	-3.376	-1.251	0.001	0.231	-3.003	-1.232	0.004
MEP1B	-3.391	-1.188	0.001	0.231	-3.247	-1.197	0.002
ADAM33	-3.411	-1.254	0.001	0.231	-3.175	-1.242	0.003
SHANK3	-3.412	-1.406	0.001	0.231	-3.982	-1.469	0.000

RASIP1	-3.419	-1.337	0.001	0.231	-3.612	-1.369	0.001
DOK1	-3.430	-1.288	0.001	0.231	-2.829	-1.252	0.007
TPO	-3.456	-1.374	0.001	0.231	-3.408	-1.385	0.001
SLC25A42	-3.457	-1.213	0.001	0.231	-3.371	-1.221	0.001
COL5A1	-3.461	-1.285	0.001	0.231	-3.790	-1.323	0.000
SEP04	-3.461	-1.243	0.001	0.231	-2.815	-1.197	0.007
LIX1L	-3.467	-1.242	0.001	0.231	-2.818	-1.198	0.007
NES	-3.473	-1.309	0.001	0.231	-2.571	-1.234	0.013
FBRSL1	-3.473	-1.217	0.001	0.231	-2.697	-1.184	0.010
RUSC2	-3.496	-1.249	0.001	0.231	-3.237	-1.237	0.002
REG1A	-3.501	-1.174	0.001	0.231	-2.354	-1.128	0.023
FADS3	-3.503	-1.328	0.001	0.231	-2.115	-1.204	0.039
GUCA1A	-3.504	-1.242	0.001	0.231	-2.346	-1.175	0.023
FLJ10404	-3.525	-1.169	0.001	0.231	-2.672	-1.140	0.010
LOC100133404	-3.536	-1.379	0.001	0.231	-3.358	-1.382	0.002
ACHE	-3.536	-1.234	0.001	0.231	-3.286	-1.229	0.002
FKBP10	-3.541	-1.287	0.001	0.231	-2.738	-1.229	0.009
XKR6	-3.615	-1.223	0.001	0.231	-2.324	-1.170	0.024
LOC401097	-3.616	-1.175	0.001	0.231	-3.211	-1.171	0.002
SLC2A6	-3.653	-1.377	0.001	0.231	-2.817	-1.318	0.007
TRAM1L1	-3.669	-1.198	0.001	0.231	-2.458	-1.149	0.017
SNAPC2	-3.677	-1.231	0.001	0.231	-2.684	-1.197	0.010
LSM11	-3.682	-1.177	0.001	0.231	-3.324	-1.173	0.002
PEAR1	-3.780	-1.361	0.000	0.231	-4.382	-1.427	0.000
PDE9A	-3.784	-1.273	0.000	0.231	-2.762	-1.217	0.008
RASGRP2	-3.795	-1.322	0.000	0.231	-3.599	-1.311	0.001
ARHGEF15	-3.801	-1.284	0.000	0.231	-2.956	-1.229	0.005
SLCO4A1	-3.822	-1.355	0.000	0.231	-2.288	-1.226	0.026
SCARNA16	-3.842	-1.347	0.000	0.231	-3.215	-1.303	0.002
RGS11	-3.852	-1.303	0.000	0.231	-3.830	-1.328	0.000
HTRA1	-3.867	-1.516	0.000	0.231	-2.372	-1.330	0.022
EDN1	-3.884	-1.357	0.000	0.231	-2.098	-1.207	0.041
C15orf60	-3.916	-1.223	0.000	0.231	-2.902	-1.180	0.005
PDGFB	-3.929	-1.320	0.000	0.231	-3.030	-1.262	0.004
BTN2A3	-3.961	-1.355	0.000	0.231	-2.889	-1.296	0.006
LIMS2	-4.010	-1.326	0.000	0.231	-4.282	-1.342	0.000
WTIP	-4.039	-1.267	0.000	0.231	-2.435	-1.167	0.018
RPL23AP64	-4.075	-1.183	0.000	0.231	-2.915	-1.142	0.005
C1QTNF1	-4.222	-1.328	0.000	0.225	-3.233	-1.270	0.002
FAM115A	-4.223	-1.386	0.000	0.225	-2.518	-1.266	0.015
NKD1	-4.249	-1.312	0.000	0.225	-2.552	-1.197	0.014
LOC100133388	-4.265	-1.306	0.000	0.225	-2.072	-1.173	0.043

List of gene sets significantly enriched among CMH-upregulated genes (based on definition A)

Databases: Kegg, Biocarta, GO biological processes, GO molecular functions

NAME	NES	NOM p-val	FDR q-val
GO_CILIUM_ORGANIZATION	3.8006504	0	0
GO_CILIUM_MORPHOGENESIS	3.7160468	0	0
GO_CILIUM_MOVEMENT	3.2349818	0	0
GO_CELLULAR_COMPONENT_ASSEMBLY_INVOLVED_IN_MORPHOGENESIS	3.1632638	0	0
GO_AXONEME_ASSEMBLY	3.1164439	0	0
GO_CELL_PROJECTION_ASSEMBLY	2.9652689	0	0
GO_ORGANELLE_ASSEMBLY	2.9222157	0	0
GO_PROTEIN_TRANSPORT_ALONG_MICROTUBULE	2.9220273	0	0
GO_INTRACILIARY_TRANSPORT	2.9028447	0	0
GO_AXONEMAL_DYNEIN_COMPLEX_ASSEMBLY	2.9026778	0	0
GO_MICROTUBULE_BUNDLE_FORMATION	2.8629107	0	0
KEGG_PROTEASOME	2.761147	0	0
GO_NCRNA_TRANSCRIPTION	2.5306628	0	3.13E-05
GO_RNA_SPLICING	2.5354204	0	3.23E-05
GO_MICROTUBULE_BASED_PROCESS	2.5436714	0	3.33E-05
GO_RNA_LOCALIZATION	2.5437672	0	3.44E-05
GO_TRANSCRIPTION_COUPLED_NUCLEOTIDE_EXCISION_REPAIR	2.5447857	0	3.56E-05
KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	2.552915	0	3.69E-05
GO_ANAPHASE_PROMOTING_COMPLEX_DEPENDENT_CATABOLIC_PROCESS	2.5618896	0	3.83E-05
GO_MRNA_PROCESSING	2.5696392	0	3.97E-05
GO_CYSTEINE_TYPE_PEPTIDASE_ACTIVITY	2.5711367	0	4.13E-05
GO_THIOL_DEPENDENT_UBIQUITIN_SPECIFIC_PROTEASE_ACTIVITY	2.5727997	0	4.30E-05
GO_PROTEIN_COMPLEX_LOCALIZATION	2.5862148	0	4.49E-05
KEGG_RNA_DEGRADATION	2.589887	0	4.69E-05
GO_POSITIVE_REGULATION_OF_LIGASE_ACTIVITY	2.600568	0	4.92E-05
GO_REGULATION_OF_LIGASE_ACTIVITY	2.4558153	0	5.08E-05
GO_PROTEIN_POLYUBIQUITINATION	2.604567	0	5.16E-05
GO_RNA_PHOSPHODIESTER_BOND_HYDROLYSIS_EXONUCLEOLYTIC	2.4573567	0	5.20E-05
GO_MICROTUBULE_CYTOSKELETON_ORGANIZATION	2.4575782	0	5.34E-05
GO_MICROTUBULE_BASED_MOVEMENT	2.608739	0	5.44E-05
GO_NUCLEAR_EXPORT	2.472638	0	5.48E-05
GO_RIBONUCLEOPROTEIN_COMPLEX_SUBUNIT_ORGANIZATION	2.4778724	0	5.63E-05
GO_RNA_SPLICING_VIA_TRANSESTERIFICATION_REACTIONS	2.6139529	0	5.74E-05
GO_MULTIVESICULAR_BODY_ORGANIZATION	2.492811	0	5.78E-05
GO_LIGASE_ACTIVITY	2.5167072	0	5.95E-05
GO_RIBONUCLEOPROTEIN_COMPLEX_BIOGENESIS	2.620134	0	6.08E-05
GO_REGULATION_OF_CENTROSOME_DUPLICATION	2.5249932	0	6.12E-05
GO_NONMOTILE_PRIMARY_CILIUM_ASSEMBLY	2.6305513	0	6.45E-05
GO_UBIQUITIN_LIKE_PROTEIN_SPECIFIC_PROTEASE_ACTIVITY	2.6424568	0	6.89E-05
GO_REGULATION_OF_CELLULAR_RESPONSE_TO_HEAT	2.443078	0	6.99E-05
GO_EPITHELIAL_CILIUM_MOVEMENT	2.4471858	0	7.16E-05
GO_PROTEASOMAL_PROTEIN_CATABOLIC_PROCESS	2.4516573	0	7.33E-05
BIOCARTA_PROTEASOME_PATHWAY	2.693849	0	7.38E-05
GO_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_REMOVAL	2.7083864	0	7.94E-05
GO_NUCLEOCYTOPLASMIC_TRANSPORTER_ACTIVITY	2.4303207	0	9.16E-05

GO_NCRNA_METABOLIC_PROCESS	2.4185586	0	1.09E-04
GO_RIBONUCLEOPROTEIN_COMPLEX_LOCALIZATION	2.4226809	0	1.11E-04
GO_DNA_REPAIR	2.3970144	0	1.47E-04
GO_ENDOSOME_TO_LYSOSOME_TRANSPORT	2.398264	0	1.50E-04
KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_BIOSYNTHESIS	2.3809264	0	1.53E-04
GO_DNA_TEMPLATED_TRANSCRIPTION_TERMINATION	2.3823593	0	1.56E-04
GO_POSITIVE_REGULATION_OF_TELOMERE_MAINTENANCE_VIA_TELOMERE_LENGTHENING	2.3854747	0	1.59E-04
GO_REGULATION_OF_CENTROSOME_CYCLE	2.3877773	0	1.62E-04
GO_PROTEIN_UBIQUITINATION_INVOLVED_IN_UBIQUITIN_DEPENDENT_PROTEIN_CATABOLIC_PROCESS	2.3883617	0	1.65E-04
GO_TRNA_TRANSPORT	2.377111	0	1.66E-04
GO_GDP_BINDING	2.3773031	0	1.69E-04
GO_DNA_TEMPLATED_TRANSCRIPTION_ELONGATION	2.3639317	0	1.78E-04
GO_REGULATION_OF_TELOMERE_MAINTENANCE	2.3654282	0	1.81E-04
GO_EXONUCLEASE_ACTIVITY_ACTIVE_WITH_EITHER_RIBO_OR_DEOXYRIBONUCLEIC_ACIDS_AND_PRODUCING_5_PHOSPHOMONOESTERS	2.3550313	0	1.89E-04
GO_UBIQUITIN_LIKE_PROTEIN_LIGASE_ACTIVITY	2.3557103	0	1.92E-04
GO_TRNA_METABOLIC_PROCESS	2.3469052	0	2.37E-04
GO_NUCLEOTIDE_EXCISION_REPAIR	2.3445032	0	2.46E-04
GO_BASAL_TRANSCRIPTION_MACHINERY_BINDING	2.335392	0	2.46E-04
GO_MULTI_ORGANISM_TRANSPORT	2.3373365	0	2.50E-04
GO_UBIQUITIN_LIKE_PROTEIN_BINDING	2.3448365	0	2.50E-04
GO_EXORIBONUCLEASE_ACTIVITY	2.3375556	0	2.54E-04
GO_ENDOSOME_ORGANIZATION	2.3340433	0	2.58E-04
GO_THREONINE_TYPE_PEPTIDASE_ACTIVITY	2.3416066	0	2.58E-04
GO_REGULATION_OF_ORGANELLE_ASSEMBLY	2.3175235	0	2.94E-04
GO_ANTIGEN_PROCESSING_AND_PRESENTATION_OF_EXOGENOUS_PEPTIDE_ANTIGEN_VIA_MHC_CLASS_I	2.3187113	0	2.99E-04
GO_NCRNA_PROCESSING	2.2901726	0	4.38E-04
GO_TRANSCRIPTION_FROM_RNA_POLYMERASE_III_PROMOTER	2.2953587	0	4.44E-04
GO_LIGASE_ACTIVITY_FORMING_CARBON_NITROGEN_BONDS	2.2958457	0	4.50E-04
GO_MULTI_ORGANISM_LOCALIZATION	2.281286	0	4.73E-04
KEGG_SPLICEOSOME	2.2796633	0	4.81E-04
GO_POSITIVE_REGULATION_OF_TELOMERE_MAINTENANCE	2.2668555	0	5.29E-04
GO_NLS_BEARING_PROTEIN_IMPORT_INTO_NUCLEUS	2.2696836	0	5.30E-04
GO_CYSTEINE_TYPE_ENDOPEPTIDASE_ACTIVITY	2.264687	0	5.35E-04
GO_REGULATION_OF_PROTEIN_UBIQUITINATION_INVOLVED_IN_UBIQUITIN_DEPENDENT_PROTEIN_CATABOLIC_PROCESS	2.2673776	0	5.36E-04
GO_NUCLEOTIDE_EXCISION_REPAIR_PREINCISION_COMPLEX_ASSEMBLY	2.2605557	0	5.60E-04
GO_PROTEIN_LOCALIZATION_TO_CILIUM	2.2598393	0	5.66E-04
GO_POSITIVE_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION_OR_REMOVAL	2.2610931	0	5.67E-04
GO_RNA_POLYMERASE_II_CORE_BINDING	2.2568324	0	5.71E-04
GO_GPI_ANCHOR_METABOLIC_PROCESS	2.25532	0	6.13E-04
GO_TRANSCRIPTION_ELONGATION_FROM_RNA_POLYMERASE_II_PROMOTER	2.2500775	0	6.79E-04
GO_SNRNA_METABOLIC_PROCESS	2.236979	0	7.49E-04
GO_SIGNAL_SEQUENCE_BINDING	2.2423651	0	7.55E-04
GO_MRNA_CLEAVAGE	2.237301	0	7.58E-04
KEGG_RNA_POLYMERASE	2.234414	0	7.86E-04
GO_CYTOPLASMIC_MICROTUBULE_ORGANIZATION	2.229667	0	8.14E-04
GO_POST_GOLGI_VESICLE_MEDIATED_TRANSPORT	2.2310236	0	8.23E-04
GO_TRANSLATION_INITIATION_FACTOR_ACTIVITY	2.2286005	0	8.27E-04
GO_NUCLEAR_PORE_ORGANIZATION	2.2269888	0	8.40E-04
GO_PROTEIN_LOCALIZATION_TO_CYTOSKELETON	2.222961	0	8.56E-04
GO_NUCLEAR_TRANSPORT	2.2230425	0	8.65E-04

GO_NUCLEAR_ENVELOPE_ORGANIZATION	2.221268	0	8.70E-04
GO_POSTTRANSCRIPTIONAL_REGULATION_OF_GENE_EXPRESSION	2.2213874	0	8.79E-04
GO_RNA_PHOSPHODIESTER_BOND_HYDROLYSIS	2.217704	0	8.95E-04
BIOCARTA_CDC42RAC_PATHWAY	2.218631	0	9.04E-04
GO_CELL_DIVISION	2.2049456	0	0.001019179
GO_UBIQUITIN_LIKE_PROTEIN_TRANSFERASE_ACTIVITY	2.2059038	0	0.001029171
GO_NUCLEUS_ORGANIZATION	2.2074997	0	0.001029528
GO_PROTEIN_SUMOYLATION	2.2078187	0	0.001039824
GO_REGULATION_OF_RNA_STABILITY	2.197219	0	0.001049283
GO_PROTEIN_LOCALIZATION_TO_CENTROSOME	2.197891	0	0.001049538
GO_NUCLEAR_IMPORT	2.1988513	0	0.00105963
GO_NUCLEOBASE_CONTAINING_COMPOUND_TRANSPORT	2.193433	0	0.001126637
GO_HELICASE_ACTIVITY	2.1911087	0	0.001153903
GO_PREASSEMBLY_OF_GPI_ANCHOR_IN_ER_MEMBRANE	2.1877909	0	0.001177725
GO_REGULATION_OF_TELOMERE_MAINTENANCE_VIA_TELOMERE_LENGTHENING	2.18833	0	0.001179095
GO_CELL_CYCLE_G2_M_PHASE_TRANSITION	2.188855	0	0.001180898
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_DAMAGE_RECOGNITION	2.1868472	0	0.001185944
GO_ESTABLISHMENT_OF_LOCALIZATION_BY_MOVEMENT_ALONG_MICROTUBULE	2.1815758	0	0.001239547
GO_GOLGI_ORGANIZATION	2.1803324	0	0.001273626
GO_POSTREPLICATION_REPAIR	2.1770473	0	0.00129328
GO_RNA_CATABOLIC_PROCESS	2.177525	0	0.001304429
GO_MITOTIC_NUCLEAR_DIVISION	2.1750214	0	0.001305978
GO_RIBOSOME_BIOGENESIS	2.1759272	0	0.001308303
GO_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION_OR_REMOVAL	2.1781833	0	0.001315772
GO_POSITIVE_REGULATION_OF_CELLULAR_PROTEIN_CATABOLIC_PROCESS	2.1708527	0	0.00138583
GO_NEGATIVE_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION_OR_REMOVAL	2.1711016	0	0.001388834
GO_RNA_CAPPING	2.163833	0	0.001456097
GO_RNA_POLYMERASE_III_ACTIVITY	2.165172	0	0.001459477
GO_RNA_POLYMERASE_CORE_ENZYME_BINDING	2.1616204	0.002386635	0.001469182
GO_7_METHYLGUANOSINE_RNA_CAPPING	2.1511602	0	0.00166955
GO_MITOCHONDRIAL_TRANSLATION	2.1496499	0	0.001672959
GO_GLOBAL_GENOME_NUCLEOTIDE_EXCISION_REPAIR	2.1489925	0	0.001675753
GO_MRNA_BINDING	2.1485474	0	0.001678999
GO_FC_EPSILON_RECEPTOR_SIGNALING_PATHWAY	2.1420002	0	0.001804355
GO_EXONUCLEASE_ACTIVITY	2.1432536	0	0.001808559
KEGG_BASAL_TRANSCRIPTION_FACTORS	2.142124	0	0.001818235
GO_CELLULAR_PROTEIN_COMPLEX_ASSEMBLY	2.139734	0	0.001821847
GO_REGULATION_OF_CHROMOSOME_SEGREGATION	2.138502	0	0.001823887
GO_PEPTIDYL_LYSINE_MODIFICATION	2.1353345	0	0.001872082
GO_RRNA_METABOLIC_PROCESS	2.1338007	0	0.001881295
GO_REGULATION_OF_CELLULAR_PROTEIN_CATABOLIC_PROCESS	2.1296837	0	0.001935054
GO_REGULATION_OF_TRANSLATIONAL_INITIATION	2.1264188	0	0.001966588
GO_PROTEIN_EXPORT_FROM_NUCLEUS	2.1201308	0	0.002177942
GO_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_THE_CH_CH_GROUP_OF_DONORS_NAD_OR_NADP_AS_ACCEPTOR	2.1181211	0	0.002192004
GO_MULTI_ORGANISM_MEMBRANE_BUDDING	2.1115131	0	0.002366943
GO_ACTIN_NUCLEATION	2.109234	0	0.002423629
GO_INNATE_IMMUNE_RESPONSE_ACTIVATING_CELL_SURFACE_RECEPTOR_SIGNALING_PATHWAY	2.1040316	0	0.00257233
GO_REGULATION_OF_SPINDLE_ORGANIZATION	2.100814	0	0.002655916
GO_NUCLEAR_TRANSCRIBED_MRNA_CATABOLIC_PROCESS_EXONUCLEOLYTIC	2.0970564	0.002421308	0.002754136
GO_REGULATION_OF_SISTER_CHROMATID_COHESION	2.0975723	0	0.002766242

GO_DNA_GEOMETRIC_CHANGE	2.0947127	0	0.002798952
GO_MULTI_ORGANISM_ORGANELLE_ORGANIZATION	2.0933692	0.002288329	0.002822134
GO_REGULATION_OF_TELOMERASE_RNA_LOCALIZATION_TO_CAJAL_BODY	2.0905871	0	0.002914545
GO_NUCLEOTIDYLTRANSFERASE_ACTIVITY	2.0893464	0	0.002915729
GO_RAN_GTPASE_BINDING	2.0833514	0	0.003087527
GO_DAMAGED_DNA_BINDING	2.0805926	0	0.003149295
GO_CELL_SEPARATION_AFTER_CYTOKINESIS	2.0796316	0	0.003162176
GO_RNA_POLYADENYLATION	2.0764544	0	0.003243079
GO_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION_TO_ORGANELLE	2.0738807	0	0.003382922
GO_POSITIVE_REGULATION_OF_TELOMERASE_RNA_LOCALIZATION_TO_CAJAL_BODY	2.0637949	0	0.003751751
GO_VACUOLAR_TRANSPORT	2.0531516	0	0.004077421
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_DUPLEX_UNWINDING	2.051477	0	0.004116688
GO_FC_RECEPTOR_SIGNALING_PATHWAY	2.0444355	0	0.004388112
KEGG_NUCLEOTIDE_EXCISION_REPAIR	2.0433044	0	0.004397876
GO_INTRA_GOLGI_VESICLE_MEDIATED_TRANSPORT	2.0415528	0	0.004399377
GO_REGULATION_OF_TELOMERE_CAPPING	2.0446026	0	0.004409445
GO_NUCLEAR_LOCALIZATION_SEQUENCE_BINDING	2.0418293	0	0.004413869
GO_TRNA_AMINOACYLATION	2.0426164	0	0.004415465
GO_UBIQUITIN_LIKE_PROTEIN_LIGASE_BINDING	2.0405269	0	0.004416661
GO_AEROBIC_RESPIRATION	2.0435057	0	0.004418832
GO_REGULATION_OF_EXOSOMAL_SECRETION	2.0383484	0.002192983	0.004450532
GO_ATPASE_ACTIVITY	2.0390522	0	0.004458885
GO_NUCLEAR_TRANSCRIBED_MRNA_CATABOLIC_PROCESS_DEADENYLATION_DEPENDENT_DECAY	2.0381424	0	0.00446079
GO_POSITIVE_REGULATION_OF_CHROMOSOME_ORGANIZATION	2.0357473	0	0.004562443
GO_PROTEIN_TARGETING	2.030701	0	0.004681019
GO_SISTER_CHROMATID_SEGREGATION	2.02643	0	0.004802016
GO_GLUTATHIONE_DERIVATIVE_BIOSYNTHETIC_PROCESS	2.025566	0	0.004804031
GO_SPLICEOSOMAL_SNRNP_ASSEMBLY	2.027133	0	0.004811891
GO_PROTEIN_LOCALIZATION_TO_NUCLEUS	2.0274277	0	0.004822127
GO_LYSOSOMAL_TRANSPORT	2.0247436	0	0.004835687
GO_GLUTATHIONE_DERIVATIVE_METABOLIC_PROCESS	2.0185847	0	0.005130293
GO_REGULATION_OF_MRNA_METABOLIC_PROCESS	2.0154018	0	0.005256963
GO_VITAMIN_D_RECEPTOR_BINDING	2.0131853	0.002352941	0.005324259
GO_MRNA_3_END_PROCESSING	2.0137813	0	0.005325303
GO_CHROMOSOME_SEGREGATION	2.0108056	0	0.005425776
GO_POSITIVE_REGULATION_OF_DNA_REPAIR	2.0108082	0	0.005450068
GO_PORE_COMPLEX_ASSEMBLY	2.005998	0.002309469	0.005585594
GO_TBP_CLASS_PROTEIN_BINDING	2.0052395	0.002304148	0.005594318
GO_CYTOSKELETON_DEPENDENT_CYTOKINESIS	2.0045254	0	0.005603486
GO_MODULATION_BY_VIRUS_OF_HOST_MORPHOLOGY_OR_PHYSIOLOGY	2.006047	0.00257732	0.005616284
GO_TRNA_METHYLATION	2.0006223	0.002427185	0.005811726
GO_REGULATION_OF_CELLULAR_AMIDE_METABOLIC_PROCESS	1.9989367	0	0.00586873
GO_VIRAL_BUDDING	1.991583	0.002364066	0.005977449
GO_CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT	1.9963366	0	0.005979083
GO_SPLICEOSOMAL_COMPLEX_ASSEMBLY	1.9917079	0	0.006008103
GO_REGULATION_OF_CILIUM_ASSEMBLY	1.9944171	0	0.006025642
GO_REGULATION_OF_SISTER_CHROMATID_SEGREGATION	1.9938447	0	0.006031918
GO_AMINO_ACID_ACTIVATION	1.9920447	0	0.006039072
KEGG_PEROXISOME	1.995065	0	0.006040672
GO_REGULATION_OF_INTRACELLULAR_ESTROGEN_RECEPTOR_SIGNALING_PATHWAY	1.9944962	0	0.006052177

GO_RNA_SECONDARY_STRUCTURE_UNWINDING	1.9896829	0	0.006062082
GO_TRANSLATIONAL_TERMINATION	1.9921077	0	0.006070362
GO_MICROTUBULE_MOTOR_ACTIVITY	1.9841177	0	0.006320398
GO_MITOCHONDRIAL_TRANSPORT	1.985134	0	0.006342388
GO_VACUOLE_ORGANIZATION	1.9842829	0	0.006347037
GO_REGULATION_OF_CELLULAR_AMINO_ACID_METABOLIC_PROCESS	1.9815824	0	0.006417877
GO_PROTEIN_IMPORT	1.9781799	0	0.006531867
GO_3_5_EXONUCLEASE_ACTIVITY	1.9782052	0.002450981	0.006564203
GO_POSITIVE_REGULATION_OF_HISTONE_H3_K4_METHYLATION	1.9747258	0.00234192	0.006742995
GO_REGULATION_OF_MICROTUBULE_BASED_PROCESS	1.9718522	0	0.006881181
GO_DOUBLE_STRAND_BREAK_REPAIR	1.9709268	0	0.006922801
GO_REGULATION_OF_RESPONSE_TO_DNA_DAMAGE_STIMULUS	1.9700168	0	0.00693973
GO_ATPASE_ACTIVITY_COUPLED	1.9690253	0	0.006965593
GO_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_NAD_P_H_QUINONE_OR_SIMILAR_COMPOUND_AS_ACCEPTOR	1.9670717	0	0.007074927
GO_TRANSCRIPTION_FROM_RNA_POLYMERASE_I_PROMOTER	1.9632937	0	0.00732527
GO_NUCLEAR_ENVELOPE_DISASSEMBLY	1.958186	0	0.007647388
GO_LIGASE_ACTIVITY_FORMING_CARBON_OXYGEN_BONDS	1.9499412	0.002512563	0.008265242
GO_PROTEIN_K48_LINKED_UBIQUITINATION	1.9427767	0	0.008885002
GO_MEMBRANE_DISASSEMBLY	1.940524	0	0.009063603
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_INCISION_3_TO_LESION	1.9374303	0	0.009313379
GO_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION_TO_VACUOLE	1.9358763	0	0.009413272
GO_MRNA_3_UTR_BINDING	1.935042	0	0.009416682
GO_TRNA_PROCESSING	1.935435	0	0.009421908
GO_TRNA_METHYLTRANSFERASE_ACTIVITY	1.9342072	0	0.009424865
GO_PROTEIN_TRANSPORTER_ACTIVITY	1.9345124	0	0.00944424

List of gene sets significantly enriched among CMH-upregulated genes (based on definition B)

Databases: Kegg, Biocarta, GO biological processes, GO molecular functions

NAME	NES	NOM p-val	FDR q-val
GO_RIBONUCLEOPROTEIN_COMPLEX_BIOGENESIS	3.2504516	0	0
GO_MRNA_PROCESSING	3.1673763	0	0
GO_RNA_SPLICING_VIA_TRANSESTERIFICATION_REACTIONS	3.1605022	0	0
GO_RNA_SPLICING	3.1495197	0	0
GO_NCRNA_METABOLIC_PROCESS	3.0851214	0	0
GO_CILIUM_MORPHOGENESIS	3.058604	0	0
GO_RIBOSOME_BIOGENESIS	3.0468209	0	0
GO_RNA_LOCALIZATION	3.0056489	0	0
GO_CILIUM_ORGANIZATION	2.9869907	0	0
GO_NCRNA_PROCESSING	2.984354	0	0
GO_RIBONUCLEOPROTEIN_COMPLEX_LOCALIZATION	2.9561281	0	0
GO_DNA_TEMPLATED_TRANSCRIPTION_ELONGATION	2.9428291	0	0
GO_RRNA_METABOLIC_PROCESS	2.9417257	0	0
GO_NUCLEAR_EXPORT	2.9383054	0	0
GO_NCRNA_TRANSCRIPTION	2.8823278	0	0
KEGG_SPLICEOSOME	2.8758023	0	0
BIOCARTA_PROTEASOME_PATHWAY	2.834667	0	0
GO_SNRNA_METABOLIC_PROCESS	2.8210099	0	0
GO_TRNA_METABOLIC_PROCESS	2.817743	0	0
GO_TRANSCRIPTION_ELONGATION_FROM_RNA_POLYMERASE_II_PROMOTER	2.8081615	0	0
GO_REGULATION_OF_CELLULAR_RESPONSE_TO_HEAT	2.793583	0	0
KEGG_RNA_DEGRADATION	2.7912598	0	0
GO_RNA_3_END_PROCESSING	2.7884398	0	0
GO_SISTER_CHROMATID_SEGREGATION	2.7804706	0	0
GO_RIBONUCLEOPROTEIN_COMPLEX_SUBUNIT_ORGANIZATION	2.7764106	0	0
GO_NUCLEOBASE_CONTAINING_COMPOUND_TRANSPORT	2.725635	0	0
GO_NUCLEUS_ORGANIZATION	2.7058773	0	0
GO_MRNA_3_END_PROCESSING	2.704693	0	0
GO_DNA_TEMPLATED_TRANSCRIPTION_TERMINATION	2.7036874	0	0
GO_REGULATION_OF_TELOMERASE_RNA_LOCALIZATION_TO_CAJAL_BODY	2.6966763	0	0
GO_CHROMOSOME_SEGREGATION	2.6945724	0	0
GO_MITOTIC_NUCLEAR_DIVISION	2.6856534	0	0
GO_TRANSCRIPTION_COUPLED_NUCLEOTIDE_EXCISION_REPAIR	2.6781304	0	0
GO_SISTER_CHROMATID_COHESION	2.653954	0	0
GO_NUCLEAR_ENVELOPE_ORGANIZATION	2.6536353	0	0
GO_RNA_PHOSPHODIESTER_BOND_HYDROLYSIS_EXONUCLEOLYTIC	2.6512039	0	0
GO_RNA_CATABOLIC_PROCESS	2.6509628	0	0
GO_NUCLEAR_IMPORT	2.6494172	0	0
GO_POSITIVE_REGULATION_OF_TELOMERASE_RNA_LOCALIZATION_TO_CAJAL_BODY	2.644757	0	0
GO_RNA_PHOSPHODIESTER_BOND_HYDROLYSIS	2.6407986	0	0
GO_NUCLEOCYTOPLASMIC_TRANSPORTER_ACTIVITY	2.6387286	0	0
GO_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_REMOVAL	2.6320012	0	0
GO_EXONUCLEASE_ACTIVITY_ACTIVE_WITH_EITHER_RIBO_OR_DEOXYRIBONUCLEIC_ACIDS_AND_PRODUCING_5_PHOSPHOMONOESTERS	2.6196828	0	0
GO_CILIUM_MOVEMENT	2.6186109	0	0
GO_MEMBRANE_DISASSEMBLY	2.6161938	0	0

GO_NUCLEAR_TRANSPORT	2.6137538	0	0
GO_EXORIBONUCLEASE_ACTIVITY	2.605938	0	0
GO_MITOCHONDRIAL_TRANSLATION	2.5994868	0	0
GO_TRNA_TRANSPORT	2.5994267	0	0
GO_POSITIVE_REGULATION_OF_LIGASE_ACTIVITY	2.5969882	0	0
GO_REGULATION_OF_CHROMOSOME_SEGREGATION	2.5883799	0	0
GO_NUCLEAR_ENVELOPE_DISASSEMBLY	2.584988	0	0
GO_ANAPHASE_PROMOTING_COMPLEX_DEPENDENT_CATABOLIC_PROCESS	2.584203	0	0
GO_NUCLEAR_CHROMOSOME_SEGREGATION	2.5780768	0	0
GO_REGULATION_OF_CENTROSOME_DUPLICATION	2.573534	0	0
GO_ORGANELLE_ASSEMBLY	2.5728939	0	0
GO_HELICASE_ACTIVITY	2.5717828	0	0
GO_NUCLEOTIDE_EXCISION_REPAIR	2.5640829	0	0
GO_7_METHYLGUANOSINE_RNA_CAPPING	2.5636837	0	0
GO_MULTI_ORGANISM_TRANSPORT	2.560211	0	0
GO_REGULATION_OF_TELOMERE_MAINTENANCE	2.559223	0	0
GO_RNA_CAPPING	2.5543458	0	0
GO_TRANSLATIONAL_INITIATION	2.5540934	0	0
GO_CELL_DIVISION	2.5529315	0	0
GO_UNFOLDED_PROTEIN_BINDING	2.5511274	0	0
GO_TRANSLATIONAL_TERMINATION	2.54841	0	0
GO_DNA_REPAIR	2.547302	0	0
GO_POSTTRANSCRIPTIONAL_REGULATION_OF_GENE_EXPRESSION	2.544344	0	0
GO_MITOTIC_SISTER_CHROMATID_SEGREGATION	2.5421083	0	0
GO_AXONEME_ASSEMBLY	2.5320232	0	0
GO_MULTI_ORGANISM_LOCALIZATION	2.5217204	0	0
GO_SINGLE_STRANDED_DNA_BINDING	2.5198839	0	0
GO_RNA_HELICASE_ACTIVITY	2.4732456	0	1.14E-05
GO_REGULATION_OF_EXOSOMAL_SECRETION	2.475219	0	1.15E-05
GO_PEPTIDYL_LYSINE_MODIFICATION	2.4762554	0	1.16E-05
GO_MULTIVESICULAR_BODY_ORGANIZATION	2.4821038	0	1.18E-05
GO_MICROTUBULE_BASED_PROCESS	2.4824426	0	1.19E-05
GO_PROTEIN_UBIQUITINATION_INVOLVED_IN_UBIQUITIN_DEPENDENT_PROTEIN_CATABOLIC_PROCESS	2.4831874	0	1.20E-05
GO_METAPHASE_PLATE_CONGRESSION	2.484842	0	1.22E-05
GO_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION_TO_ORGANELLE	2.488681	0	1.23E-05
GO_MICROTUBULE_BASED_MOVEMENT	2.4894662	0	1.25E-05
GO_REGULATION_OF_CENTROSOME_CYCLE	2.4966414	0	1.26E-05
GO_REGULATION_OF_MRNA_METABOLIC_PROCESS	2.5020678	0	1.28E-05
GO_TRANSLATION_INITIATION_FACTOR_ACTIVITY	2.5045252	0	1.30E-05
GO_PURINE_NTP_DEPENDENT_HELICASE_ACTIVITY	2.5094662	0	1.31E-05
GO_MICROTUBULE_CYTOSKELETON_ORGANIZATION	2.5124018	0	1.33E-05
GO_REGULATION_OF_LIGASE_ACTIVITY	2.513267	0	1.35E-05
GO_TERMINATION_OF_RNA_POLYMERASE_II_TRANSCRIPTION	2.5165248	0	1.37E-05
GO_DNA_DEPENDENT_ATPASE_ACTIVITY	2.5172303	0	1.39E-05
GO_DNA_GEOMETRIC_CHANGE	2.4266293	0	1.94E-05
GO_PROTEIN_TARGETING	2.4271579	0	1.96E-05
GO_RIBONUCLEOPROTEIN_COMPLEX_BINDING	2.43115	0	1.98E-05
GO_MATURATION_OF_SSU_RRNA	2.4363315	0	2.00E-05
GO_PROTEIN_POLYUBIQUITINATION	2.441538	0	2.02E-05
GO_CELLULAR_COMPONENT_ASSEMBLY_INVOLVED_IN_MORPHOGENESIS	2.443832	0	2.04E-05

GO_TRNA_PROCESSING	2.4438422	0	2.06E-05
GO_PROTEIN_IMPORT	2.4491847	0	2.08E-05
GO_NUCLEAR_TRANSCRIBED_MRNA_CATABOLIC_PROCESS_DEADENYLATION_DEPENDENT_DECAY	2.4526503	0	2.10E-05
GO_PROTEIN_TRANSPORT_ALONG_MICROTUBULE	2.4528146	0	2.13E-05
GO_PROTEASOMAL_PROTEIN_CATABOLIC_PROCESS	2.457798	0	2.15E-05
KEGG_MISMATCH_REPAIR	2.462583	0	2.17E-05
GO_REGULATION_OF_SISTER_CHROMATID_SEGREGATION	2.4626386	0	2.20E-05
GO_POSITIVE_REGULATION_OF_TELOMERE_MAINTENANCE_VIA_TELOMERE_LENGTHENING	2.4628952	0	2.22E-05
GO_NUCLEAR_TRANSCRIBED_MRNA_CATABOLIC_PROCESS_NONSENSE_MEDIATED_DECAY	2.4133384	0	2.75E-05
GO_REGULATION_OF_TRANSLATIONAL_INITIATION	2.4137678	0	2.78E-05
GO_PROTEIN_SUMOYLATION	2.4145877	0	2.81E-05
GO_ENDOSOME_ORGANIZATION	2.4151971	0	2.83E-05
GO_PROTEIN_LOCALIZATION_TO_NUCLEUS	2.4155705	0	2.86E-05
GO_INTRACILIARY_TRANSPORT	2.4239457	0	2.89E-05
GO_RNA_POLYADENYLATION	2.4245949	0	2.91E-05
GO_CELL_CYCLE_G2_M_PHASE_TRANSITION	2.3866098	0	3.39E-05
GO_ATPASE_ACTIVITY	2.3872838	0	3.42E-05
GO_RAN_GTPASE_BINDING	2.3913717	0	3.45E-05
GO_NUCLEIC_ACID_PHOSPHODIESTER_BOND_HYDROLYSIS	2.391871	0	3.48E-05
GO_REGULATION_OF_RNA_STABILITY	2.3931406	0	3.51E-05
GO_UBIQUITIN_LIKE_PROTEIN_SPECIFIC_PROTEASE_ACTIVITY	2.3941839	0	3.54E-05
GO_DOUBLE_STRAND_BREAK_REPAIR	2.4019306	0	3.57E-05
GO_MICROTUBULE_BUNDLE_FORMATION	2.402193	0	3.60E-05
GO_LIGASE_ACTIVITY	2.4031277	0	3.64E-05
GO_CELLULAR_RESPIRATION	2.3646533	0	4.92E-05
KEGG_PROTEASOME	2.3708067	0	4.96E-05
GO_SIGNAL_SEQUENCE_BINDING	2.3727624	0	5.00E-05
GO_AXONEMAL_DYNEIN_COMPLEX_ASSEMBLY	2.3765416	0	5.04E-05
GO_MRNA_BINDING	2.3775213	0	5.08E-05
GO_MULTI_ORGANISM_METABOLIC_PROCESS	2.358237	0	5.63E-05
GO_CELL_SEPARATION_AFTER_CYTOKINESIS	2.3604858	0	5.68E-05
GO_REGULATION_OF_PROTEIN_UBIQUITINATION_INVOLVED_IN_UBIQUITIN_DEPENDENT_PROTEIN_CATABOLIC_PROCESS	2.345711	0	7.00E-05
GO_POSITIVE_REGULATION_OF_CHROMOSOME_ORGANIZATION	2.3484259	0	7.05E-05
GO_TRNA_AMINOACYLATION	2.350115	0	7.11E-05
GO_AMIDE_BIOSYNTHETIC_PROCESS	2.3519247	0	7.16E-05
GO_REGULATION_OF_SISTER_CHROMATID_COHESION	2.339028	0	7.59E-05
GO_CHROMOSOME_LOCALIZATION	2.3415608	0	7.65E-05
GO_REGULATION_OF_TELOMERE_MAINTENANCE_VIA_TELOMERE_LENGTHENING	2.3422875	0	7.71E-05
GO_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_NAD_P_H_QUINONE_OR_SIMILAR_COMPOUND_AS_ACCEPTOR	2.335219	0	8.22E-05
GO_REGULATION_OF_CELLULAR_AMIDE_METABOLIC_PROCESS	2.3382595	0	8.28E-05
GO_NUCLEOTIDE_EXCISION_REPAIR_PREINCISION_COMPLEX_ASSEMBLY	2.3333569	0	8.90E-05
GO-NLS_BEARING_PROTEIN_IMPORT_INTO_NUCLEUS	2.3321161	0	9.60E-05
GO_REGULATION_OF_MRNA_3_END_PROCESSING	2.3307595	0	1.02E-04
KEGG_CELL_CYCLE	2.3164587	0	1.09E-04
GO_CELL_PROJECTION_ASSEMBLY	2.319388	0	1.10E-04
GO_BASAL_TRANSCRIPTION_MACHINERY_BINDING	2.3203998	0	1.11E-04
KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS	2.322264	0	1.12E-04
GO_OXIDATIVE_PHOSPHORYLATION	2.3239295	0	1.12E-04
GO_REGULATION_OF_CELLULAR_PROTEIN_CATABOLIC_PROCESS	2.3239436	0	1.13E-04
KEGG_BASAL_TRANSCRIPTION_FACTORS	2.3260756	0	1.14E-04

KEGG_NUCLEOTIDE_EXCISION_REPAIR	2.3268027	0	1.15E-04
GO_CELLULAR_PROTEIN_COMPLEX_DISASSEMBLY	2.3281057	0	1.16E-04
GO_RIBONUCLEASE_ACTIVITY	2.3298903	0	1.16E-04
GO_POSITIVE_REGULATION_OF_TELOMERE_MAINTENANCE	2.3054018	0	1.20E-04
GO_POSITIVE_REGULATION_OF_CELLULAR_PROTEIN_CATABOLIC_PROCESS	2.3087392	0	1.20E-04
GO_ENDOSOME_TO_LYSOSOME_TRANSPORT	2.3095362	0	1.21E-04
GO_RIBOSOMAL_SMALL_SUBUNIT_BIOGENESIS	2.311762	0	1.22E-04
GO_ATPASE_ACTIVITY_COUPLED	2.2967944	0	1.28E-04
GO_POSITIVE_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION_OR_REMOVAL	2.2992535	0	1.29E-04
GO_LIGASE_ACTIVITY_FORMING_CARBON_OXYGEN_BONDS	2.29991	0	1.30E-04
KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	2.3007843	0	1.30E-04
GO_RNA_SECONDARY_STRUCTURE_UNWINDING	2.3020873	0	1.31E-04
GO_ORGANELLE_FISSION	2.3022861	0	1.32E-04
GO_TRNA_METHYLATION	2.2879677	0	1.44E-04
GO_NUCLEOTIDYLTRANSFERASE_ACTIVITY	2.2896802	0	1.45E-04
GO_TRANSLATIONAL_ELONGATION	2.2832315	0	1.46E-04
GO_AMINO_ACID_ACTIVATION	2.2922907	0	1.46E-04
GO_GENE_SILENCING_BY_RNA	2.2843003	0	1.47E-04
GO_UBIQUITIN_LIKE_PROTEIN_BINDING	2.285015	0	1.48E-04
GO_MITOCHONDRIAL_RESPIRATORY_CHAIN_COMPLEX_ASSEMBLY	2.2852204	0	1.49E-04
GO_AEROBIC_RESPIRATION	2.2863703	0	1.49E-04
GO_SPLICEOSOMAL_COMPLEX_ASSEMBLY	2.2790263	0	1.51E-04
GO_NUCLEAR_LOCALIZATION_SEQUENCE_BINDING	2.276209	0	1.54E-04
GO_CYTOPLASMIC_TRANSLATION	2.277815	0	1.55E-04
KEGG_RNA_POLYMERASE	2.278524	0	1.56E-04
GO_RNA_METHYLATION	2.2744725	0	1.70E-04
GO_GLOBAL_GENOME_NUCLEOTIDE_EXCISION_REPAIR	2.2749217	0	1.71E-04
GO_TRANSLATION_FACTOR_ACTIVITY_RNA_BINDING	2.2681346	0	1.86E-04
GO_3_5_EXONUCLEASE_ACTIVITY	2.263067	0	1.95E-04
GO_DNA_HELICASE_ACTIVITY	2.2631412	0	1.96E-04
GO_NADH_DEHYDROGENASE_ACTIVITY	2.263377	0	1.97E-04
GO_RNA_POLYMERASE_ACTIVITY	2.2579036	0	1.99E-04
GO_POSITIVE_REGULATION_OF_DNA_TEMPLATED_TRANSCRIPTION_ELONGATION	2.247411	0	2.38E-04
GO_TRANSCRIPTION_FROM_RNA_POLYMERASE_III_PROMOTER	2.2467792	0	2.43E-04
GO_CELL_CYCLE_CHECKPOINT	2.243026	0	2.47E-04
GO_MITOCHONDRIAL_ELECTRON_TRANSPORT_NADH_TO_UBIQUINONE	2.2409332	0	2.51E-04
GO_EXONUCLEASE_ACTIVITY	2.2390983	0	2.78E-04
GO_PROTEIN_COMPLEX_LOCALIZATION	2.2331336	0	2.83E-04
GO_FORMATION_OF_TRANSLATION_PREINITIATION_COMPLEX	2.2333336	0	2.85E-04
GO_NUCLEAR_TRANSCRIBED_MRNA_CATABOLIC_PROCESS_EXONUCLEOLYTIC	2.2335994	0	2.86E-04
GO_ELECTRON_TRANSPORT_CHAIN	2.233959	0	2.88E-04
GO_MITOCHONDRIAL_RESPIRATORY_CHAIN_COMPLEX_I_ASSEMBLY	2.229656	0	3.12E-04
GO_NUCLEAR_PORE_ORGANIZATION	2.2303596	0	3.14E-04
GO_RNA_MODIFICATION	2.2266405	0	3.16E-04
GO_VIRAL_LIFE_CYCLE	2.2247324	0	3.16E-04
GO_THIOL_DEPENDENT_UBIQUITIN_SPECIFIC_PROTEASE_ACTIVITY	2.2248518	0	3.18E-04
GO_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION_OR_REMOVAL	2.2253747	0	3.20E-04
GO_COVALENT_CHROMATIN_MODIFICATION	2.2209058	0	3.30E-04
GO_PROTEIN_MONOUBIQUITINATION	2.218384	0	3.39E-04
GO_CHROMATIN_MODIFICATION	2.2177804	0	3.43E-04

GO_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_NAD_P_H	2.2144194	0	3.52E-04
GO_UBIQUITIN_LIKE_PROTEIN_LIGASE_ACTIVITY	2.2124987	0	3.70E-04
GO_MACROMOLECULAR_COMPLEX_DISASSEMBLY	2.2123985	0	3.74E-04
GO_TELOMERE_MAINTENANCE_VIA_RECOMBINATION	2.2116554	0	3.82E-04
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_INCISION	2.2076468	0	3.85E-04
GO_REGULATION_OF_ORGANELLE_ASSEMBLY	2.1996086	0	4.22E-04
GO_POSTREPLICATION_REPAIR	2.2015512	0	4.24E-04
GO_MITOCHONDRIAL_RNA_METABOLIC_PROCESS	2.1962783	0	4.30E-04
KEGG_HUNTINGTONS_DISEASE	2.1958196	0	4.33E-04
GO_NUCLEAR_TRANSCRIBED_MRNA_POLY_A_TAIL_SHORTENING	2.1923296	0	4.70E-04
GO_NADH_DEHYDROGENASE_COMPLEX_ASSEMBLY	2.1897576	0	4.87E-04
GO_REGULATION_OF_CHROMOSOME_ORGANIZATION	2.1893282	0	4.87E-04
GO_REGULATION_OF_CELL_CYCLE_PHASE_TRANSITION	2.1893837	0	4.90E-04
GO_ESTABLISHMENT_OF_LOCALIZATION_BY_MOVEMENT_ALONG_MICROTUBULE	2.1833663	0	5.33E-04
GO_REGULATION_OF_RESPONSE_TO_DNA_DAMAGE_STIMULUS	2.1816154	0	5.45E-04
GO_POSITIVE_REGULATION_OF_TELOMERASE_ACTIVITY	2.1785107	0	5.61E-04
GO_MULTI_ORGANISM_MEMBRANE_BUDDING	2.1792185	0	5.63E-04
GO_HISTONE_UBIQUITINATION	2.1793869	0	5.66E-04
GO_VIRAL_BUDDING	2.1758575	0	5.86E-04
GO_MITOTIC_RECOMBINATION	2.1750584	0	5.88E-04
GO_POSITIVE_REGULATION_OF_MRNA_3_END_PROCESSING	2.1723006	0	5.90E-04
GO_REGULATION_OF_PROTEASOMAL_PROTEIN_CATABOLIC_PROCESS	2.1719887	0	5.91E-04
GO_POST_GOLGI_VESICLE_MEDIATED_TRANSPORT	2.1724162	0	5.92E-04
GO_REGULATION_OF_PROTEASOMAL_UBIQUITIN_DEPENDENT_PROTEIN_CATABOLIC_PROCESS	2.172885	0	5.95E-04
GO_MITOCHONDRIAL_RESPIRATORY_CHAIN_COMPLEX_I_BIOGENESIS	2.1694	0	5.97E-04
GO_LYSOSOMAL_TRANSPORT	2.170745	0	5.98E-04
GO_PROTEIN_REFOLDING	2.1704462	0	6.00E-04
GO_RNA_POLYMERASE_III_ACTIVITY	2.1664155	0	6.03E-04
GO_NF_KAPPAB_BINDING	2.162125	0	6.28E-04
BIOCARTA_EIF_PATHWAY	2.1613283	0	6.39E-04
GO_MICROTUBULE_ORGANIZING_CENTER_ORGANIZATION	2.1596057	0	6.67E-04
GO_ESTABLISHMENT_OF_PROTEIN_LOCALIZATION_TO_VACUOLE	2.157006	0	6.75E-04
GO_CELL_CYCLE_PHASE_TRANSITION	2.1571558	0	6.78E-04
GO_VACUOLAR_TRANSPORT	2.153977	0	6.88E-04
GO_CELLULAR_PROTEIN_COMPLEX_ASSEMBLY	2.1548111	0	6.90E-04
GO_SPLICEOSOMAL_SNRNP_ASSEMBLY	2.1542275	0	6.91E-04
GO_ERROR_FREE_TRANSLESION_SYNTHESIS	2.1507413	0	7.04E-04
GO_GDP_BINDING	2.151866	0	7.07E-04
GO_ENDONUCLEASE_ACTIVITY_ACTIVE_WITH_EITHER_RIBO_OR_DEOXYRIBONUCLEIC_ACIDS_AND_PRODUCING_5_PHOSPHOMONOESTERS	2.1453474	0	7.68E-04
GO_GENE_SILENCING	2.1453948	0	7.71E-04
BIOCARTA_CDC42RAC_PATHWAY	2.1454947	0	7.74E-04
GO_PROTEIN_LOCALIZATION_TO_CHROMOSOME	2.142829	0	8.11E-04
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_DAMAGE_RECOGNITION	2.142575	0	8.12E-04
GO_DNA_STRAND_ELONGATION	2.1407743	0	8.17E-04
GO_ENDORIBONUCLEASE_ACTIVITY_PRODUCING_5_PHOSPHOMONOESTERS	2.139101	0	8.31E-04
GO_NUCLEOPHAGY	2.1381059	0	8.36E-04
GO_CYTOPLASMIC_MICROTUBULE_ORGANIZATION	2.1356192	0	8.45E-04
GO_PROTEIN_TRANSPORTER_ACTIVITY	2.1347625	0	8.54E-04
GO_REGULATION_OF_RNA_SPLICING	2.133411	0	8.55E-04
GO_DNA_RECOMBINATION	2.1339254	0	8.59E-04

GO_ENDOMEMBRANE_SYSTEM_ORGANIZATION	2.1320462	0	8.61E-04
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_DUPLEX_UNWINDING	2.1321914	0	8.64E-04
GO_POSITIVE_REGULATION_OF_VIRAL_PROCESS	2.1306355	0	8.78E-04
GO_REGULATION_OF_DNA_REPAIR	2.130806	0	8.81E-04
GO_NONMOTILE_PRIMARY_CILIUM_ASSEMBLY	2.123294	0	9.36E-04
GO_MITOTIC_CELL_CYCLE_CHECKPOINT	2.1233175	0	9.40E-04
GO_PROTEIN_ALKYLATION	2.1236136	0	9.44E-04
GO_MATURATION_OF_5_8S_RRNA	2.123722	0	9.48E-04
GO_MULTI_ORGANISM_ORGANELLE_ORGANIZATION	2.121611	0	9.49E-04
GO_MATURATION_OF_SSU_RRNA_FROM_TRICISTRONIC_RRNA_TRANSCRIPT_SSU_RRNA_5_8S_RRNA_LSU_RRNA_	2.1154654	0	0.00100374
GO_PROTEIN_METHYLATION	2.116162	0	0.001003794
GO_DNA_INTEGRITY_CHECKPOINT	2.116498	0	0.001003866
GO_DAMAGED_DNA_BINDING	2.113997	0	0.001023298
GO_TRNA_MODIFICATION	2.1106026	0	0.001042343
GO_INTRA_GOLGI_VESICLE_MEDIATED_TRANSPORT	2.1103764	0	0.001046047
GO_UBIQUITIN_LIKE_PROTEIN_LIGASE_BINDING	2.1111054	0	0.001046352
GO_DNA_DEPENDENT_DNA_REPLICATION	2.11163	0	0.001046639
GO_PEPTIDE_N_ACETYLTRANSFERASE_ACTIVITY	2.1091068	0	0.0010496
GO_RNA_POLYMERASE_CORE_ENZYME_BINDING	2.1094055	0	0.001053591
GO_MITOTIC_SPINDLE_ORGANIZATION	2.1084087	0	0.001068746
GO_CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT	2.1070728	0	0.001083765
GO_REGULATION_OF_SULFUR_METABOLIC_PROCESS	2.1038265	0	0.001101748
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	2.1046455	0	0.001102457
GO_UBIQUITIN_LIKE_PROTEIN_TRANSFERASE_ACTIVITY	2.1039407	0	0.001105859
GO_ACTIN_NUCLEATION	2.1007917	0.002164502	0.001169106
GO_RRNA_MODIFICATION	2.098696	0	0.00119099
GO_CYSTEINE_TYPE_PEPTIDASE_ACTIVITY	2.0955315	0	0.001222798
GO_VITAMIN_D_RECEPTOR_BINDING	2.0960672	0	0.001227293
GO_VACUOLE_ORGANIZATION	2.094437	0	0.001228581
GO_TELOMERE_ORGANIZATION	2.094834	0	0.001229417
GO_POSITIVE_REGULATION_OF_DNA_BIOSYNTHETIC_PROCESS	2.0909152	0	0.001245631
GO_REGULATION_OF_PROTEIN_PHOSPHATASE_TYPE_2A_ACTIVITY	2.0911474	0	0.001246375
GO_REGULATION_OF_SIGNAL_TRANSDUCTION_BY_P53_CLASS_MEDIATOR	2.0881069	0	0.001284741
GO_REGULATION_OF_SPINDLE_ORGANIZATION	2.0804539	0	0.001385644
GO_LIGASE_ACTIVITY_FORMING_CARBON_NITROGEN_BONDS	2.0798905	0	0.001395199
GO_PORE_COMPLEX_ASSEMBLY	2.0765412	0	0.001457168
GO_MRNA_CLEAVAGE	2.076599	0	0.001458711
GO_RIBOSOME_BINDING	2.07361	0	0.001476819
GO_UBIQUITIN_DEPENDENT_PROTEIN_CATABOLIC_PROCESS_VIA_THE_MULTIVESICULAR_BODY_SORTING_PATHWAY	2.0707653	0	0.001564225
GO_VIRION_ASSEMBLY	2.0690098	0	0.00159183
GO_MEMBRANE_BUDDING	2.0692465	0	0.001593942
GO_RNA_POLYMERASE_II_CORE_BINDING	2.0670629	0	0.001607499
GO_POSITIVE_REGULATION_OF_CHROMOSOME_SEGREGATION	2.0599368	0	0.001703802
GO_S_ADENOSYLMETHIONINE_DEPENDENT_METHYLTRANSFERASE_ACTIVITY	2.0595446	0	0.00170482
GO_MACROMOLECULE_METHYLATION	2.056358	0	0.001775466
KEGG_DNA_REPLICATION	2.0558066	0	0.001776332
GO_SIGNAL_TRANSDUCTION_IN_RESPONSE_TO_DNA_DAMAGE	2.0505013	0	0.001888569
GO_NEGATIVE_REGULATION_OF_PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION_OR_REMOVAL	2.0507665	0	0.001891597
GO_TRNA_METHYLTRANSFERASE_ACTIVITY	2.0496454	0	0.001899037
GO_DNA_STRAND_ELONGATION_INVOLVED_IN_DNA_REPLICATION	2.048727	0	0.001906289

GO_DNA_TEMPLATED_TRANSCRIPTION_INITIATION	2.0474946	0	0.001914623
GO_RNA_POLYMERASE_II_REPRESSING_TRANSCRIPTION_FACTOR_BINDING	2.047911	0	0.001917032
GO_TRANSCRIPTION_FROM_RNA_POLYMERASE_I_PROMOTER	2.0475128	0	0.001921047
GO_VESICLE_MEDIATED_TRANSPORT_BETWEEN_ENDOSOMAL_COMPARTMENTS	2.0475385	0	0.001927516
GO_PROTEIN_DNA_COMPLEX_SUBUNIT_ORGANIZATION	2.045178	0	0.001962057
GO_APICAL_JUNCTION_ASSEMBLY	2.0423756	0.002277904	0.0020057
GO_RNA_METHYLTRANSFERASE_ACTIVITY	2.0427516	0	0.002008988
GO_ERROR_PRONE_TRANSLESION_SYNTHESIS	2.0395348	0	0.002049493
GO_PROTEIN_EXPORT_FROM_NUCLEUS	2.0406182	0	0.00205283
GO_NON_RECOMBINATIONAL_REPAIR	2.0400925	0	0.002056234
GO_TRANSCRIPTION_INITIATION_FROM_RNA_POLYMERASE_II_PROMOTER	2.0381093	0	0.002072437
KEGG_CITRATE_CYCLE_TCA_CYCLE	2.0374384	0	0.002075513
GO_REGULATION_OF_MITOTIC_CELL_CYCLE	2.0369303	0	0.002081719
GO_ATP_DEPENDENT_DNA_HELICASE_ACTIVITY	2.0333369	0	0.002133499
GO_POSITIVE_REGULATION_OF_HISTONE_H3_K4_METHYLATION	2.032018	0	0.002152626
GO_DNA_DOUBLE_STRAND_BREAK_PROCESSING	2.0296967	0	0.002204179
GO_PROTEIN_LOCALIZATION_TO_CYTOSKELETON	2.027526	0	0.002226421
GO_HISTONE_MRNA_METABOLIC_PROCESS	2.0263631	0	0.002248264
GO_DOUBLE_STRANDED_RNA_BINDING	2.018273	0	0.002454991
BIOCARTA_RARRXR_PATHWAY	2.018546	0.002262444	0.002459566
GO_INNATE_IMMUNE_RESPONSE_ACTIVATING_CELL_SURFACE_RECEPTOR_SIGNALING_PATHWAY	2.0141969	0	0.00256234
GO_POSITIVE_REGULATION_OF_DNA_REPAIR	2.0103436	0	0.002666221
GO_NUCLEOSIDE_MONOPHOSPHATE_METABOLIC_PROCESS	2.010742	0	0.002668415
GO_REGULATION_OF_DNA_METABOLIC_PROCESS	2.0047636	0	0.002898674
GO_FC_EPSILON_RECEPTOR_SIGNALING_PATHWAY	2.0035605	0	0.002927501
GO_NUCLEOSOME_BINDING	2.002753	0	0.002952785
BIOCARTA_TEL_PATHWAY	1.9997349	0.002178649	0.002987891
GO_REGULATION_OF_MICROTUBULE_BASED_PROCESS	1.9997587	0	0.002997056
GO_PTERIDINE_CONTAINING_COMPOUND_BIOSYNTHETIC_PROCESS	1.9998626	0	0.003006278
GO_NEGATIVE_REGULATION_OF_MRNA_METABOLIC_PROCESS	2.0004094	0	0.00300937
GO_NIK_NF_KAPPAB_SIGNALING	1.9999319	0	0.00301244
GO_CYTOSKELETON_DEPENDENT_CYTOKINESIS	2.0004401	0	0.003018715
GO_PROTEIN_LOCALIZATION_TO_VACUOLE	1.9969472	0	0.003061576
GO_TELOMERIC_DNA_BINDING	1.9963466	0	0.003064462
GO_MITOCHONDRION_MORPHOGENESIS	1.9933083	0.004175365	0.003153082
GO_SPINDLE_LOCALIZATION	1.9921576	0	0.003189334
GO_DNA_REPLICATION	1.9894043	0	0.003286082
GO_MITOTIC_DNA_INTEGRITY_CHECKPOINT	1.9875164	0	0.003318752
GO_EPITHELIAL_CILIUM_MOVEMENT	1.9869703	0	0.003327099
GO_VESICLE_CYTOSKELETAL_TRAFFICKING	1.985899	0	0.003356665
GO_METHYLATION	1.9834368	0	0.00342813
GO_ESTABLISHMENT_OF_MITOTIC_SPINDLE_LOCALIZATION	1.9814821	0.002202643	0.003485409
GO_RNA_POLYMERASE_BINDING	1.9817203	0.002020202	0.003489732
GO_THYROID_HORMONE_RECEPTOR_BINDING	1.9810556	0.002369668	0.003501815
GO_REGULATION_OF_CELLULAR_AMINO_ACID_METABOLIC_PROCESS	1.9751672	0	0.003732045
GO_TBP_CLASS_PROTEIN_BINDING	1.969967	0	0.003913498
GO_TRNA_BINDING	1.9703562	0	0.003919026
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_GAP_FILLING	1.9677906	0.002192983	0.00400545
GO_ENDORIBONUCLEASE_ACTIVITY	1.9662519	0	0.004076188
GO_GOLGI_VESICLE_TRANSPORT	1.964789	0	0.004120256

GO_ENERGY_DERIVATION_BY_OXIDATION_OF_ORGANIC_COMPOUNDS	1.9584023	0	0.004382335
GO_CENTROSOME_CYCLE	1.9575535	0	0.004424643
GO_NEGATIVE_REGULATION_OF_DNA_RECOMBINATION	1.9565631	0	0.004449817
GO_RECOMBINATIONAL_REPAIR	1.9553007	0	0.004500697
GO_REGULATION_OF_MRNA_SPLICING_VIA_SPLICEOSOME	1.9531459	0	0.004545629
GO_POSITIVE_REGULATION_OF_PROTEIN_CATABOLIC_PROCESS	1.9523968	0	0.004564545
GO_UBIQUITIN_LIKE_PROTEIN_CONJUGATING_ENZYME_ACTIVITY	1.9517931	0.002298851	0.004574295
GO_MITOCHONDRIAL_TRANSPORT	1.9448982	0	0.004904872
GO_POSITIVE_REGULATION_OF_MRNA_PROCESSING	1.9439536	0	0.004942851
GO_PEPTIDYL_THREONINE_MODIFICATION	1.9432464	0	0.004954514
GO_NUCLEOSOMAL_DNA_BINDING	1.9420551	0	0.004991605
GO_PROTEIN_ACETYLTATION	1.9414878	0	0.004997512
GO_STEROID_HORMONE_RECEPTOR_BINDING	1.9400582	0	0.005028945
GO_GLUTATHIONE_DERIVATIVE_BIOSYNTHETIC_PROCESS	1.9401681	0.002217295	0.005037285
GO_NUCLEOSIDE_TRIPHOSPHATE_METABOLIC_PROCESS	1.9364887	0	0.005220359
GO_MITOTIC_CYTOKINESIS	1.9354484	0.002392344	0.00527016
GO_GOLGI_ORGANIZATION	1.9351188	0	0.005286254
GO_ENDOPLASMIC_RETICULUM_ORGANIZATION	1.9344435	0.002202643	0.00530512
GO_PROTEIN_K48_LINKED_UBIQUITINATION	1.9329561	0	0.005368454
GO_RRNA_BINDING	1.9310471	0	0.005439544
GO_ER_NUCLEUS_SIGNALING_PATHWAY	1.9286302	0.002207506	0.005523159
GO_MRNA_3_UTR_BINDING	1.9287894	0.002178649	0.005535566
GO_DNA_DAMAGE_RESPONSE_DETECTION_OF_DNA_DAMAGE	1.9266579	0	0.005626286
GO_LIGAND_DEPENDENT_NUCLEAR_RECEPTOR_BINDING	1.9252853	0	0.005681946
GO_ESTROGEN_RECEPTOR_BINDING	1.9244848	0	0.005694855
GO_G1_DNA_DAMAGE_CHECKPOINT	1.9244881	0	0.005710247
GO_AUTOPHAGOSOME_ORGANIZATION	1.9231161	0.00462963	0.005758352
GO_REGULATION_OF_TELOMERASE_ACTIVITY	1.9214674	0	0.005867186
GO_RRNA_CATABOLIC_PROCESS	1.9209818	0	0.005881369
GO_REGULATION_OF_PROTEIN_CATABOLIC_PROCESS	1.9189094	0	0.006006002
GO_NCRNA_CATABOLIC_PROCESS	1.916741	0	0.006130469
GO_TRANSFERASE_ACTIVITY_TRANSFERRING_ONE_CARBON_GROUPS	1.9160535	0	0.006151486
GO_TRANSFERASE_ACTIVITY_TRANSFERRING_ALKYL_OR_ARYL_OTHER_THAN_METHYL_GROUPS	1.9155039	0	0.006175271
GO_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_THE_CH_CH_GROUP_OF_DONORS_NAD_OR_NADP_AS_ACCEPTOR	1.9131662	0	0.006305145
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	1.9132743	0	0.006316395
GO_POSITIVE_REGULATION_OF_VIRAL_TRANSCRIPTION	1.9106765	0	0.00640041
GO_DNA_BIOSYNTHETIC_PROCESS	1.9107647	0	0.00641184
KEGG_GLUTATHIONE_METABOLISM	1.9110376	0.002242153	0.006415374
GO_PROTEIN_ACYLATION	1.910148	0	0.006423472
GO_TRICARBOXYLIC_ACID_METABOLIC_PROCESS	1.9097236	0.002227172	0.006430426
GO_PHOSPHOTRANSFERASE_ACTIVITY_FOR_OTHER_SUBSTITUTED_PHOSPHATE_GROUPS	1.9065417	0.006593407	0.006565292
GO_REGULATION_OF_PROTEIN_STABILITY	1.9056833	0	0.006600667
GO_BICELLULAR_TIGHT_JUNCTION_ASSEMBLY	1.9054099	0.004705882	0.006615015
GO_NEGATIVE_REGULATION_OF_CELL_CYCLE_PROCESS	1.9037147	0	0.006689861
GO_POSITIVE_REGULATION_OF_MRNA_METABOLIC_PROCESS	1.9037385	0.002283105	0.006704466
GO_CIRCADIAN_REGULATION_OF_GENE_EXPRESSION	1.8999609	0	0.006884214
GO_PROTEIN_PHOSPHATASE_TYPE_2A_REGULATOR_ACTIVITY	1.8986627	0.00212766	0.006956585
GO_PROTEIN_FOLDING	1.8978932	0	0.006982796
GO_OXIDOREDUCTASE_ACTIVITY_ACTING_ON_THE_CH_OH_GROUP_OF_DONORS_NAD_OR_NADP_AS_ACCEPTOR	1.8921018	0	0.007338191
GO_GLUTATHIONE_DERIVATIVE_METABOLIC_PROCESS	1.8922409	0.002155172	0.007351665

GO_RNA_PHOSPHODIESTER_BOND_HYDROLYSIS_ENDONUCLEOLYTIC	1.8910998	0.004662005	0.007377642
GO_CLEAVAGE_INVOLVED_IN_RRNA_PROCESSING	1.891146	0	0.007393718
GO_PROTEIN_LOCALIZATION_TO_CENTROSOME	1.8859748	0.004357298	0.007725012
GO_NUCLEOTIDE_EXCISION_REPAIR_PREINCISION_COMPLEX_STABILIZATION	1.8814342	0.006696429	0.008026571
GO_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY	1.8809793	0.002252252	0.008059623
GO_DNA_SYNTHESIS_INVOLVED_IN_DNA_REPAIR	1.8798076	0.002242153	0.008112232
GO_PROTEIN_C_TERMINUS_BINDING	1.8770463	0	0.008310872
GO_REGULATION_OF_DNA_TEMPLATED_TRANSCRIPTION_ELONGATION	1.8753635	0	0.008394725
GO_ESTABLISHMENT_OF_MITOTIC_SPINDLE_ORIENTATION	1.8750211	0.004464286	0.008403988
GO_FC_RECEPTOR_SIGNALING_PATHWAY	1.8754948	0	0.008410508
GO_MITOCHONDRIAL_TRANSMEMBRANE_TRANSPORT	1.8742902	0.002257336	0.008455683
GO_NUCLEOTIDE_EXCISION_REPAIR_DNA_INCISION_3_TO_LESION	1.8726233	0	0.008537912
GO_REGULATION_OF_TRANSLATIONAL_ELONGATION	1.8727756	0.008474576	0.008548915
GO_NEGATIVE_REGULATION_OF_CHROMOSOME_SEGREGATION	1.8679683	0.002257336	0.008818747
GO_CENTROSOME_LOCALIZATION	1.8680041	0.002331002	0.008840203
GO_MATURATION_OF_5_8S_RRNA_FROM_TRICISTRONIC_RRNA_TRANSCRIPT_SSU_RRNA_5_8S_RRNA_LSU_RRNA_	1.868157	0	0.008851836
GO_ESTABLISHMENT_OF_SPINDLE_ORIENTATION	1.8683662	0.002123142	0.008861087
GO_MISMATCH_REPAIR	1.8642721	0	0.009089075
GO_REGULATION_OF_DNA_REPLICATION	1.8578409	0	0.009610962
GO_TOXIN_TRANSPORT	1.8557746	0.004576659	0.009692128
GO_POSITIVE_REGULATION_OF_DNA_REPLICATION	1.8562894	0	0.009699944
GO_TRANSFERASE_ACTIVITY_TRANSFERRING_ACYL_GROUPS_OTHER_THAN_AMINO_ACYL_GROUPS	1.8557975	0	0.009713019
GO_STRUCTURAL_CONSTITUENT_OF_RIBOSOME	1.853301	0	0.009883514
GO_LIPASE_INHIBITOR_ACTIVITY	1.8525399	0.002314815	0.009944052

List of gene sets significantly enriched among CMH-downregulated genes (based on definition A)

Databases: Kegg, Biocarta, GO biological processes, GO molecular functions

NAME	NES	NOM p-val	FDR q-val
GO_OLFACTORY_RECEPTOR_ACTIVITY	-2.8431723	0	0
GO_HORMONE_ACTIVITY	-2.8187227	0	0
KEGG_OLFACTORY_TRANSDUCTION	-2.6969917	0	0
GO_SENSORY_PERCEPTION_OF_CHEMICAL_STIMULUS	-2.6594946	0	0
GO_G_PROTEIN_COUPLED_AMINE_RECEPTOR_ACTIVITY	-2.5681584	0	0
GO_CYCLIC_NUCLEOTIDE_BIOSYNTHETIC_PROCESS	-2.5336487	0	0
GO_NEUROPEPTIDE_SIGNALING_PATHWAY	-2.5232506	0	0
GO_ADENYLATE_CYCLASE_MODULATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	-2.5070999	0	0
KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	-2.4764905	0	0
GO_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY_COUPLED_TO_CYCLIC_NUCLEOTIDE_SECOND_MESSENGER	-2.4522843	0	0
GO_REGULATION_OF_SENSORY_PERCEPTION	-2.4060326	0	0
GO_REGULATION_OF_SENSORY_PERCEPTION_OF_PAIN	-2.3702533	0	8.14E-05
GO_NEUROPEPTIDE_HORMONE_ACTIVITY	-2.3582785	0	1.31E-04
GO_ADENYLATE_CYCLASE_INHIBITING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	-2.3635907	0	1.40E-04
GO_CATION_CHANNEL_ACTIVITY	-2.3637762	0	1.51E-04
GO_EXTRACELLULAR_LIGAND_GATED_ION_CHANNEL_ACTIVITY	-2.3216562	0	2.19E-04
GO_CYCLIC_NUCLEOTIDE_METABOLIC_PROCESS	-2.305255	0	2.23E-04
GO_PROXIMAL_DISTAL_PATTERN_FORMATION	-2.3229592	0	2.32E-04
GO_METANEPHRIC_NEPHRON_DEVELOPMENT	-2.312112	0	2.33E-04
GO_NEUROTRANSMITTER_RECEPTOR_ACTIVITY	-2.3132818	0	2.45E-04
GO_GROWTH_FACTOR_ACTIVITY	-2.3271646	0	2.46E-04
GO_POTASSIUM_CHANNEL_ACTIVITY	-2.2980068	0	2.56E-04
GO_EXTRACELLULAR_MATRIX_STRUCTURAL_CONSTITUENT	-2.3175237	0	2.58E-04
GO_MULTICELLULAR_ORGANISMAL_MACROMOLECULE_METABOLIC_PROCESS	-2.258586	0	5.70E-04
GO_CENTRAL_NERVOUS_SYSTEM_NEURON_DIFFERENTIATION	-2.2522635	0	6.01E-04
GO_ODORANT_BINDING	-2.2484002	0	6.16E-04
GO_GATED_CHANNEL_ACTIVITY	-2.2529485	0	6.25E-04
GO_PEPTIDE_RECEPTOR_ACTIVITY	-2.233957	0	8.39E-04
GO_NEGATIVE_REGULATION_OF_HORMONE_SECRETION	-2.2246122	0	9.79E-04
GO_SYNAPTIC_SIGNALING	-2.2152588	0	0.001011398
GO_REGULATION_OF_CATECHOLAMINE_SECRETION	-2.2196655	0	0.001045112
GO_NEUROPEPTIDE_RECEPTOR_BINDING	-2.2078454	0	0.001097684
GO_CELL_FATE_COMMITMENT	-2.209186	0	0.001131987
GO_SECOND_MESSENGER_MEDIATED_SIGNALING	-2.2010894	0	0.001152608
GO_NEUROPEPTIDE_RECEPTOR_ACTIVITY	-2.1928034	0	0.001400386
GO_MULTICELLULAR_ORGANISM_METABOLIC_PROCESS	-2.1888094	0	0.001443109
GO_PASSIVE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	-2.1787133	0	0.001519281
GO_REGULATION_OF_POSTSYNAPTIC_MEMBRANE_POTENTIAL	-2.1728225	0	0.001526315
GO_CGMP_METABOLIC_PROCESS	-2.1745527	0	0.001529932
GO_ADENYLATE_CYCLASE_ACTIVATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	-2.1804056	0	0.001533364
GO_MUSCLE_ORGAN_DEVELOPMENT	-2.1837568	0	0.001536706
GO_ANTERIOR_POSTERIOR_PATTERN_SPECIFICATION	-2.1718109	0	0.00155791
GO_VENTRAL_SPINAL_CORD_DEVELOPMENT	-2.1734996	0	0.001562656
GO_CELL_DIFFERENTIATION_IN_SPINAL_CORD	-2.1818025	0	0.001573715
GO_MESENCHYMAL_TO_EPITHELIAL_TRANSITION	-2.165943	0	0.001675362

GO_CGMP_BIOSYNTHETIC_PROCESS	-2.1643674	0	0.001682083
GO_AMMONIUM_ION_BINDING	-2.1575537	0	0.001858417
GO_REGULATION_OF_URINE_VOLUME	-2.1553867	0	0.001860415
GO_SPINAL_CORD_DEVELOPMENT	-2.1593213	0	0.001897957
GO_REGULATION_OF_EXCRETION	-2.1452334	0	0.001959978
GO_POTASSIUM_ION_TRANSPORT	-2.1468809	0	0.001979254
GO_POTASSIUM_ION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	-2.1490498	0	0.001999118
GO_POSITIVE_REGULATION_OF_CYCLIC_NUCLEOTIDE_METABOLIC_PROCESS	-2.139591	0	0.00205224
GO_ACETYLCHOLINE_RECEPTOR_ACTIVITY	-2.132441	0	0.002269598
GO_REGULATION_OF_CYCLIC_NUCLEOTIDE_METABOLIC_PROCESS	-2.1305807	0	0.002328964
GO_ODONTOGENESIS	-2.131513	0	0.002335426
GO_EXCITATORY_EXTRACELLULAR_LIGAND_GATED_ION_CHANNEL_ACTIVITY	-2.1262925	0	0.002425581
GO_CELL_SURFACE_RECEPTOR_SIGNALING_PATHWAY_INVOLVED_IN_CELL_CELL_SIGNALING	-2.12245	0	0.00246708
GO_REGULATION_OF_RENAL_SYSTEM_PROCESS	-2.1099372	0	0.00285574
GO_CAMP_BIOSYNTHETIC_PROCESS	-2.1089115	0	0.002857168
GO_SPINAL_CORD_MOTOR_NEURON_DIFFERENTIATION	-2.1066065	0	0.002859927
GO_REGIONALIZATION	-2.1070192	0	0.002890813
GO_CYCLIC_NUCLEOTIDE_MEDIATED_SIGNALING	-2.1047645	0	0.002892626
GO_MESENCHYMAL_CELL_DIFFERENTIATION	-2.10239	0	0.002969928
GO_REGULATION_OF_SYSTEM_PROCESS	-2.0950701	0	0.003270845
GO_EXTRACELLULAR_STRUCTURE_ORGANIZATION	-2.0883374	0	0.003592428
GO_SYNAPTIC_TRANSMISSION_CHOLINERGIC	-2.08383	0	0.003685483
GO_NEURON_FATE_COMMITMENT	-2.0733466	0	0.004046299
GO_CELL_FATE_SPECIFICATION	-2.0737321	0	0.004047837
GO_NEPHRON_DEVELOPMENT	-2.0694003	0	0.004171584
GO_VOLTAGE_GATED_ION_CHANNEL_ACTIVITY	-2.0676308	0	0.004182422
GO_ODONTOGENESIS_OF_DENTIN_CONTAINING_TOOTH	-2.0612087	0	0.00460003
GO_REGULATION_OF_CAMP_METABOLIC_PROCESS	-2.0593288	0	0.00469752
GO_GLYCOSAMINOGLYCAN_BINDING	-2.0496037	0	0.00495036
GO_CIRCULATORY_SYSTEM_PROCESS	-2.0549297	0	0.004951662
GO_VOLTAGE_GATED_POTASSIUM_CHANNEL_ACTIVITY	-2.0497913	0	0.005002614
GO_VOLTAGE_GATED_CATION_CHANNEL_ACTIVITY	-2.0499442	0	0.005069315
GO_NEGATIVE_REGULATION_OF_CATECHOLAMINE_SECRETION	-2.044483	0	0.005264489
GO_MUSCLE_ORGAN_MORPHOGENESIS	-2.0378795	0	0.005313728
GO_MESENCHYME_DEVELOPMENT	-2.0425622	0	0.005322118
KEGG_ECM_RECEPTOR_INTERACTION	-2.0380976	0	0.005378529
GO_REGULATION_OF_AMINE_TRANSPORT	-2.0391843	0	0.005384492
GO_POSITIVE_REGULATION_OF_PURINE_NUCLEOTIDE_METABOLIC_PROCESS	-2.0394545	0	0.005427272
GO_LIGAND_GATED_CHANNEL_ACTIVITY	-2.0310838	0	0.005810666
GO_NEURAL_CRESCENT_CELL_DIFFERENTIATION	-2.0288327	0	0.005857987
GO_VOLTAGE_GATED_SODIUM_CHANNEL_ACTIVITY	-2.029644	0.001686341	0.005880838
GO_REGULATION_OF_BLOOD_CIRCULATION	-2.0202682	0	0.006420476
GO_DEFENSE_RESPONSE_TO_FUNGUS	-2.0161703	0.001615509	0.00670448
GO_POSITIVE_REGULATION_OF_NUCLEOTIDE_METABOLIC_PROCESS	-2.0139532	0	0.006894394
GO_STEM_CELL_DIFFERENTIATION	-2.0071967	0	0.00734526
GO_PROTEIN_LIPID_COMPLEX_BINDING	-2.0077665	0.001733102	0.007373138
GO_MUSCLE_STRUCTURE_DEVELOPMENT	-1.9999356	0	0.00766962
KEGG_CALCIIUM_SIGNALING_PATHWAY	-1.9999743	0	0.007750353
GO_PATTERNING_OF_BLOOD_VESSELS	-2.0025532	0	0.007757198
GO_REGULATION_OF_CGMP_BIOSYNTHETIC_PROCESS	-2.00048	0	0.007759847

GO_DELAYED_RECTIFIER_POTASSIUM_CHANNEL_ACTIVITY	-2.0008607	0	0.00780103
GO_CARTILAGE_DEVELOPMENT_INVOLVED_IN_ENDOCHONDRAL_BONE_MORPHOGENESIS	-1.9963969	0.001760563	0.007852881
GO_REGULATION_OF_RENAL_SODIUM_EXCRETION	-1.9941434	0	0.007931905
GO_REGULATION_OF_DOPAMINE_SECRETION	-1.9947823	0	0.007972839
GO_MUSCLE_FILAMENT_SLIDING	-1.9889485	0	0.008157618
GO_FIBROBLAST_GROWTH_FACTOR_RECEPTOR_BINDING	-1.9906178	0	0.008166389
GO_CELL_FATE_DETERMINATION	-1.9878641	0.001677852	0.008172913
GO_PEPTIDE_HORMONE_PROCESSING	-1.9827465	0	0.008185426
GO_CARTILAGE_DEVELOPMENT	-1.9871446	0	0.008197947
GO_RESPONSE_TO_NICOTINE	-1.9891738	0.001618123	0.008227882
GO_ACTIN_MYOSIN_FILAMENT_SLIDING	-1.9836336	0	0.008243139
GO_REGULATION_OF_NEURAL_PRECURSOR_CELL_PROLIFERATION	-1.9895024	0	0.008260762
GO_SODIUM_INDEPENDENT_ORGANIC_ANION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	-1.9853175	0	0.008287785
GO_PEPTIDE_HORMONE_RECEPTOR_BINDING	-1.9838828	0	0.008292505
GO_EPHRIN_RECEPTOR_ACTIVITY	-1.9800144	0	0.008338251
GO_HEPARIN_BINDING	-1.980555	0	0.008360741
GO_NEPHRON_TUBULE_FORMATION	-1.9733922	0	0.008911771
GO_BIOMINERAL_TISSUE_DEVELOPMENT	-1.9662415	0	0.009613111
GO_REGULATION_OF_CELLULAR_RESPONSE_TO_GROWTH_FACTOR_STIMULUS	-1.9639251	0	0.00970218
GO_REGULATION_OF_HEART_CONTRACTION	-1.9642683	0	0.009735415

List of gene sets significantly enriched among CMH-downregulated genes (based on definition B)

Databases: Kegg, Biocarta, GO biological processes, GO molecular functions

NAME	NES	NOM p-val	FDR q-val
GO_EXTRACELLULAR_MATRIX_STRUCTURAL_CONSTITUENT	-2.721	0	0
GO_CYCLIC_NUCLEOTIDE_METABOLIC_PROCESS	-2.62015	0	0
GO_CYCLIC_NUCLEOTIDE_BIOSYNTHETIC_PROCESS	-2.6009	0	0
GO_EXTRACELLULAR_STRUCTURE_ORGANIZATION	-2.36594	0	1.43E-04
GO_ADENYLATE_CYCLASE_MODULATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	-2.36863	0	1.67E-04
GO_CGMP_METABOLIC_PROCESS	-2.43747	0	2.00E-04
GO_HORMONE_ACTIVITY	-2.4445	0	2.50E-04
GO_CGMP_BIOSYNTHETIC_PROCESS	-2.34498	0	3.29E-04
GO_REGULATION_OF_CATECHOLAMINE_SECRETION	-2.34758	0	3.71E-04
GO_CYCLIC_NUCLEOTIDE_MEDIATED_SIGNALING	-2.32456	0	3.94E-04
GO_CAMP_METABOLIC_PROCESS	-2.32001	0	4.48E-04
KEGG_CELL_ADHESION_MOLECULES_CAMS	-2.31492	0	4.93E-04
GO_ADENYLATE_CYCLASE_INHIBITING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	-2.27821	0	6.80E-04
GO_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY_COUPLED_TO_CYCLIC_NUCLEOTIDE_SECOND_MESSENGER	-2.29984	0	7.06E-04
GO_MULTICELLULAR_ORGANISMAL_MACROMOLECULE_METABOLIC_PROCESS	-2.28414	0	7.26E-04
KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	-2.27207	0	7.57E-04
KEGG_ECM_RECEPTOR_INTERACTION	-2.30784	0	7.61E-04
GO_ACTIN_MYOSIN_FILAMENT_SLIDING	-2.2463	0	9.93E-04
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	-2.24493	0	9.93E-04
GO_REGULATION_OF_AMINE_TRANSPORT	-2.24037	0	0.001038376
GO_CATION_CHANNEL_ACTIVITY	-2.24751	0	0.001044934
GO_MUSCLE_FILAMENT_SLIDING	-2.25678	0	0.001048155
GO_PHAGOCYTOSIS_RECOGNITION	-2.23426	0	0.001078888
GO_ADENYLATE_CYCLASE_ACTIVATING_G_PROTEIN_COUPLED_RECEPTOR_SIGNALING_PATHWAY	-2.22551	0	0.001239896
GO_MULTICELLULAR_ORGANISM_METABOLIC_PROCESS	-2.21515	0	0.00146853
GO_MUSCLE_ORGAN_DEVELOPMENT	-2.21302	0	0.001563981
GO_NEUROPEPTIDE_SIGNALING_PATHWAY	-2.19888	0	0.001698889
GO_REGULATION_OF_URINE_VOLUME	-2.19526	0	0.001708901
GO_POTASSIUM_CHANNEL_ACTIVITY	-2.20419	0	0.001725728
GO_SECOND_MESSENGER_MEDIATED_SIGNALING	-2.18389	0	0.0021137
KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	-2.17199	0	0.002398202
GO_GROWTH_FACTOR_ACTIVITY	-2.16376	0	0.002421503
KEGG_TYPE_I_DIABETES_MELLITUS	-2.16404	0	0.002465191
GO_ANGIOGENESIS	-2.16536	0	0.002510497
GO_DEATH_RECEPTOR_ACTIVITY	-2.16015	0	0.002523186
KEGG_ALLOGRAFT_REJECTION	-2.15504	0	0.002681462
GO_GLYCOSAMINOGLYCAN_BINDING	-2.14895	0	0.002727848
GO_REGULATION_OF_CYCLIC_NUCLEOTIDE_METABOLIC_PROCESS	-2.15604	0	0.002728875
GO_MUSCLE_CELL_FATE_COMMITMENT	-2.15027	0	0.002748038
KEGG_AUTOIMMUNE_THYROID_DISEASE	-2.15034	0	0.002820355
GO_POSITIVE_REGULATION_OF_ENDOTHELIAL_CELL_MIGRATION	-2.14275	0	0.002878158
GO_POSITIVE_REGULATION_OF_CYCLIC_NUCLEOTIDE_METABOLIC_PROCESS	-2.13318	0	0.003109312
GO_CYCLASE_ACTIVITY	-2.13382	0	0.003135907
KEGG_GRAFT_VERSUS_HOST_DISEASE	-2.13469	0	0.003163178
GO_IMMUNOGLOBULIN_RECEPTOR_BINDING	-2.11891	0	0.003615956

GO_POSITIVE_REGULATION_OF_PURINE_NUCLEOTIDE_METABOLIC_PROCESS	-2.10427	0	0.004047347
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	-2.10153	0	0.00406271
GO_REGULATION_OF_CYTOSOLIC_CALCIUM_ION_CONCENTRATION	-2.10566	0	0.004089636
GO_B_CELL_RECEPTOR_SIGNALING_PATHWAY	-2.10191	0	0.004122862
GO_PATTERNING_OF_BLOOD_VESSELS	-2.09793	0	0.004136518
KEGG_PRIMARY_IMMUNODEFICIENCY	-2.0967	0	0.004151434
GO_POSITIVE_REGULATION_OF_NUCLEOTIDE_METABOLIC_PROCESS	-2.10566	0	0.004174837
GO_HMG_BOX_DOMAIN_BINDING	-2.10852	0	0.004184342
GO_HEPARIN_BINDING	-2.10616	0	0.004221781
GO_LYMPH_VESSEL_DEVELOPMENT	-2.09066	0	0.004364371
GO_CORECEPTOR_ACTIVITY	-2.08926	0	0.004392662
GO_CIRCULATORY_SYSTEM_PROCESS	-2.07969	0	0.004558693
GO_FIBROBLAST_GROWTH_FACTOR_RECEPTOR_BINDING	-2.08032	0	0.00458458
GO_COLLAGEN_FIBRIL_ORGANIZATION	-2.07654	0	0.004586984
GO_EXTRACELLULAR_LIGAND_GATED_ION_CHANNEL_ACTIVITY	-2.0807	0	0.004595381
GO_PROTEIN_ACTIVATION_CASCADE	-2.07148	0	0.004604834
GO_REGULATION_OF_SYSTEMIC_ARTERIAL_BLOOD_PRESSURE_MEDIATED_BY_A_CHEMICAL_SIGNAL	-2.08391	0	0.004629798
GO_REGULATION_OF_BLOOD_PRESSURE	-2.07396	0	0.004654898
GO_CAMP_BIOSYNTHETIC_PROCESS	-2.08121	0	0.004656419
GO_PASSIVE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	-2.07691	0	0.004659794
GO_CAMP_MEDIATED_SIGNALING	-2.07166	0	0.004674605
GO_REGULATION_OF_DOPAMINE_SECRETION	-2.08176	0	0.004702563
GO_GROWTH_FACTOR_BINDING	-2.06196	0	0.004976073
GO_NEGATIVE_REGULATION_OF_CATECHOLAMINE_SECRETION	-2.0623	0.001821494	0.00504716
GO_DORSAL_SPINAL_CORD_DEVELOPMENT	-2.06372	0	0.005078634
GO_BLOOD_VESSEL_MORPHOGENESIS	-2.06265	0	0.00509149
GO_SCAVENGER_RECEPTOR_ACTIVITY	-2.05761	0	0.005127242
GO_GATED_CHANNEL_ACTIVITY	-2.05438	0	0.005245846
GO_CELL_DIFFERENTIATION_IN_SPINAL_CORD	-2.05261	0	0.005269638
KEGG_DILATED_CARDIOMYOPATHY	-2.05036	0	0.005275359
GO_PEPTIDE_RECEPTOR_ACTIVITY	-2.05169	0	0.005279229
GO_KIDNEY_VASCULATURE_DEVELOPMENT	-2.04849	0	0.005373175
GO_INTEGRIN_BINDING	-2.04138	0	0.005585051
GO_RENAL_SYSTEM_VASCULATURE_DEVELOPMENT	-2.0431	0	0.005638233
GO_POTASSIUM_ION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	-2.04171	0	0.005654864
GO_NEUROPEPTIDE_HORMONE_ACTIVITY	-2.04424	0	0.005659382
GO_EXCITATORY_EXTRACELLULAR_LIGAND_GATED_ION_CHANNEL_ACTIVITY	-2.03727	0	0.005770772
GO_REGULATION_OF_ENDOTHELIAL_CELL_PROLIFERATION	-2.03225	0	0.006070891
GO_PLATELET_DERIVED_GROWTH_FACTOR_RECEPTOR_BINDING	-2.03266	0	0.006095919
GO_VASCULAR_PROCESS_IN_CIRCULATORY_SYSTEM	-2.03279	0	0.006169364
GO_METANEPHRIC_NEPHRON_DEVELOPMENT	-2.02832	0.001872659	0.006242666
GO_OLFACTORY_RECEPTOR_ACTIVITY	-2.02414	0	0.006398841
GO_CARBOHYDRATE_BINDING	-2.02147	0	0.006552896
GO_CELL_FATE_DETERMINATION	-2.01649	0	0.006813577
GO_SERINE_HYDROLASE_ACTIVITY	-2.01356	0	0.007013421
KEGG_CALCIUM_SIGNALING_PATHWAY	-2.01203	0	0.007022866
GO_RETINA_VASCULATURE_DEVELOPMENT_IN_CAMERA_TYPE_EYE	-2.00938	0.003472222	0.007084315
GO_MUSCLE_ORGAN_MORPHOGENESIS	-2.01043	0	0.007108878
GO_PEPTIDE_ANTIGEN_BINDING	-2.01008	0	0.007117603
GO_NEUROMUSCULAR_PROCESS_CONTROLLING_BALANCE	-2.00548	0	0.007458152

GO_CATECHOLAMINE_BINDING	-2.00414	0.001901141	0.007493969
GO_FRIZZLED_BINDING	-1.99877	0	0.007814785
GO_REGULATION_OF_ANTIGEN_PROCESSING_AND_PRESENTATION	-1.99677	0.003642987	0.008029223
GO_VASCULATURE_DEVELOPMENT	-1.99335	0	0.008318566
GO_NEURAL_CRESCENT_CELL_DIFFERENTIATION	-1.99121	0	0.00839388
GO_REGULATION_OF_CAMP_METABOLIC_PROCESS	-1.98697	0	0.008821217
GO_LYMPHOCYTE_MIGRATION	-1.98622	0	0.008822429
GO_REGULATION_OF_SENSORY_PERCEPTION_OF_PAIN	-1.98451	0	0.008968781
GO_TRANSFORMING_GROWTH_FACTOR_BETA_BINDING	-1.98193	0.001855288	0.009216664
GO_NEUROMUSCULAR_SYNAPTIC_TRANSMISSION	-1.97956	0	0.009346467
GO_VOLTAGE_GATED_ION_CHANNEL_ACTIVITY	-1.97466	0	0.009828415

genename	r-value	FDR	t-value	CMH-associated
LOC100129532	-0.55730859	0.01053406	-4.97782008	
RAMP2	-0.55957834	0.01053406	-5.00730808	
OR4X2	-0.57050914	0.01053406	-5.15165478	
TRIM50	-0.54700285	0.01053406	-4.84593565	
MGAT5B	-0.54617245	0.01053406	-4.83544820	
ADRA2B	-0.57634177	0.01053406	-5.23032197	
UPP2	-0.57683747	0.01053406	-5.23706223	
DGKG	-0.54600807	0.01053406	-4.83337469	yes
CCDC83	-0.56177111	0.01053406	-5.03595160	
CSTF2T	0.59012985	0.01053406	5.42112576	
HLX	-0.57354367	0.01053406	-5.19243603	
MGC44328	-0.54845470	0.01053406	-4.86432061	
REEP2	-0.56670666	0.01053406	-5.10099399	
LMOD3	-0.55144647	0.01053406	-4.90240478	
PTMS	-0.56487977	0.01053406	-5.07682560	yes
HIF3A	-0.57231959	0.01053406	-5.17594752	
SNRPD1	0.55386025	0.01053406	4.93332922	
GFI1B	-0.54716502	0.01053406	-4.84798616	
TKTL2	-0.54750675	0.01053406	-4.85230945	
USP42	0.55271977	0.01053406	4.91869566	yes
CACNA1H	-0.55518355	0.01053406	-4.95035886	
CTSB	0.54182685	0.01108551	4.78089551	
GRB14	-0.54242408	0.01108551	-4.78836039	
hCG_1793639	-0.54195407	0.01108551	-4.78248480	
SSX10	-0.52936619	0.01149683	-4.62743411	
LOC100129427	-0.53444805	0.01149683	-4.68950144	
GDF11	-0.52781090	0.01149683	-4.60857779	yes
SLMO1	-0.53732751	0.01149683	-4.72498443	
KLK8	-0.52836610	0.01149683	-4.61530159	
KTI12	0.53416833	0.01149683	4.68606668	
CXorf39	0.52787532	0.01149683	4.60935755	yes
FAM163A	-0.53941668	0.01149683	-4.75087413	
LOC150763	-0.53719861	0.01149683	-4.72339109	
ADAT1	0.52736824	0.01149683	4.60322266	yes
HNRNPF	0.52889746	0.01149683	4.62174444	yes
MAP3K15	-0.53264777	0.01149683	-4.66743333	
TESC	-0.52932845	0.01149683	-4.62697578	yes
LIMS2	-0.53461219	0.01149683	-4.69151794	yes
C3orf14	0.53425990	0.01149683	4.68719094	
RPL34	0.53129383	0.01149683	4.65089473	
SAT1	0.52793815	0.01149683	4.61011815	yes
WIPF3	-0.52974660	0.01149683	-4.63205596	
FAM117A	-0.52754791	0.01149683	-4.60539565	
CDKN1C	-0.52581535	0.01150902	-4.58447780	
COX7A1	-0.52654602	0.01150902	-4.59328973	
TULP2	-0.52572824	0.01150902	-4.58342811	
AHSG	-0.52488509	0.01166631	-4.57327895	
PAH	-0.52434802	0.01168082	-4.56682387	
LOC100130518	-0.52234108	0.01181619	-4.54276838	yes

FOXC2	-0.52002104	0.01181619	-4.51508948	
GPBR	-0.51989624	0.01181619	-4.51360447	
EVX2	-0.52143894	0.01181619	-4.53198916	yes
SULT1C3	-0.52163522	0.01181619	-4.53433269	
ZNF295	0.52092440	0.01181619	4.52585054	
PLEKHB2	0.52015242	0.01181619	4.51665315	
FN3K	-0.52261027	0.01181619	-4.54598886	
ZNF414	-0.52035999	0.01181619	-4.51912469	
SNORD116-4	-0.51358195	0.01193953	-4.43898093	
SNORD116-8	-0.51678632	0.01193953	-4.47672629	
SNORD115-25	-0.51325500	0.01193953	-4.43514404	
TMEM170A	0.51522201	0.01193953	4.45826801	
CNTNAP5	-0.51748416	0.01193953	-4.48498022	
ZBTB46	-0.51463294	0.01193953	-4.45133297	
DNMT3B	-0.51515518	0.01193953	-4.45748082	
OR5D14	-0.51906085	0.01193953	-4.50367418	
C11orf35	-0.51774044	0.01193953	-4.48801460	
C10orf53	-0.51609295	0.01193953	-4.46853722	
NBPF22P	-0.51319106	0.01193953	-4.43439394	
PARVB	-0.51557301	0.01193953	-4.46240433	yes
EMR4P	-0.51605802	0.01193953	-4.46812500	
UFSP1	-0.51602285	0.01193953	-4.46770999	
C20orf199	0.51414608	0.01193953	4.44560767	
SOX18	-0.51355196	0.01193953	-4.43862894	
ADPGK	0.51758000	0.01193953	4.48611477	
HSBP1	0.51092737	0.01239826	4.40790315	yes
KRAS	0.51176697	0.01239826	4.41771399	yes
FLJ42418	-0.51138710	0.01239826	-4.41327303	
CA11	-0.51097342	0.01239826	-4.40844071	
ACHE	-0.51041325	0.01249399	-4.40190397	yes
LRRC3B	-0.50907943	0.01270035	-4.38636968	
OR52E4	-0.50905913	0.01270035	-4.38613354	
WNT3	-0.50913005	0.01270035	-4.38695845	
THUMPD3	0.50849066	0.01283228	4.37952618	
LOC100130174	-0.50771344	0.01307401	-4.37050493	
FOXC1	-0.50658612	0.01350554	-4.35744552	
CYP46A1	-0.50573861	0.01364060	-4.34764742	
RBPM52	-0.50593013	0.01364060	-4.34986017	
LOC728115	0.50505900	0.01369305	4.33980260	
MOGAT2	-0.50517013	0.01369305	-4.34108471	
SNORD116-6	-0.50343430	0.01381164	-4.32109244	
RP11-218C14.6	-0.50362256	0.01381164	-4.32325734	
APOBEC1	-0.50441945	0.01381164	-4.33243019	
PURB	0.50365226	0.01381164	4.32359892	
LOC728844	0.50394239	0.01381164	4.32693707	
TCEAL2	-0.50129272	0.01405519	-4.29652358	
TTC7B	-0.50113789	0.01405519	-4.29475141	
HOXB1	-0.50112740	0.01405519	-4.29463137	
NFYA	0.50130145	0.01405519	4.29662353	
LOC646508	-0.50117368	0.01405519	-4.29516097	

VHL	0.50182752	0.01405519	4.30264899	
CSDA	0.50165735	0.01405519	4.30069920	
C9orf96	-0.49804727	0.01424733	-4.25949131	
DRD2	-0.49862986	0.01424733	-4.26612138	
PLD5	-0.49863561	0.01424733	-4.26618686	
GLT25D2	-0.49790982	0.01424733	-4.25792826	
SUSD5	-0.49830669	0.01424733	-4.26244269	
C1orf167	-0.49798209	0.01424733	-4.25875009	
HPCAL1	-0.49851023	0.01424733	-4.26475935	
M6PR	0.49803004	0.01424733	4.25929539	
LOC441476	-0.49868682	0.01424733	-4.26677000	
SLC15A2	0.49812202	0.01424733	4.26034163	yes
BST1	-0.49784830	0.01424733	-4.25722877	
PPFIA4	-0.49979373	0.01424733	-4.27938953	
SNUPN	0.48569720	0.01435878	4.12071277	
PAIP1	-0.49224308	0.01435878	-4.19385345	
ADCY1	-0.48925202	0.01435878	-4.16031813	yes
CHST14	-0.48521977	0.01435878	-4.11541407	
ODF3	-0.48814726	0.01435878	-4.14798072	
C17orf95	0.48660658	0.01435878	4.13081882	
DMBX1	-0.48561101	0.01435878	-4.11975588	
C20orf166	-0.48829888	0.01435878	-4.14967243	
LRRC15	-0.49181583	0.01435878	-4.18905128	
BEST3	-0.48520696	0.01435878	-4.11527201	
UNC45B	-0.49152694	0.01435878	-4.18580646	yes
DACT3	-0.49333638	0.01435878	-4.20616011	
GPBAR1	-0.49049560	0.01435878	-4.17423734	
ATP6V0E2	-0.49298542	0.01435878	-4.20220671	
CCDC63	-0.48613675	0.01435878	-4.12559532	
BMPER	-0.48972294	0.01435878	-4.16558518	
LCE4A	-0.48607044	0.01435878	-4.12485852	
HEPACAM	-0.48813273	0.01435878	-4.14781863	
GPR97	-0.49404335	0.01435878	-4.21413219	
FOXF1	-0.49387075	0.01435878	-4.21218487	
ZNF423	-0.49529150	0.01435878	-4.22823361	
AHCYL2	0.48946006	0.01435878	4.16264440	
DEFB119	-0.49233341	0.01435878	-4.19486929	
C16orf65	-0.48853831	0.01435878	-4.15234476	
TMEM158	-0.48682177	0.01435878	-4.13321281	
MYRIP	-0.49102797	0.01435878	-4.18020633	
OR2F1	-0.49278610	0.01435878	-4.19996266	
CNTN6	-0.49561155	0.01435878	-4.23185518	
BMP10	-0.48776403	0.01435878	-4.14370711	
GNAZ	-0.49702906	0.01435878	-4.24792230	
BLOC1S2	0.48650874	0.01435878	4.12973066	
SLC9A10	-0.49034561	0.01435878	-4.17255676	
KCNC3	-0.49217704	0.01435878	-4.19311089	
FAM148B	-0.49293246	0.01435878	-4.20161035	
SLC6A17	-0.48800530	0.01435878	-4.14639724	yes
C2orf82	-0.49123957	0.01435878	-4.18258051	

OR52E8	-0.48834017	0.01435878	-4.15013316	
ACCSL	-0.49305249	0.01435878	-4.20296204	
OR5M1	-0.49116668	0.01435878	-4.18176261	
LDLRAD2	-0.49510571	0.01435878	-4.22613236	
FOXB2	-0.48623988	0.01435878	-4.12674153	
NUDT1	-0.48713315	0.01435878	-4.13667868	
NDUFA9	0.48545168	0.01435878	4.11798735	
SPRN	-0.49054365	0.01435878	-4.17477588	
SEPSECS	0.49627762	0.01435878	4.23939924	
NIP7	0.48834267	0.01435878	4.15016103	
GNG13	-0.48541999	0.01435878	-4.11763561	
C11orf71	0.49565063	0.01435878	4.23229752	
C9orf95	0.48883038	0.01435878	4.15560638	
MEG3	-0.48552405	0.01435878	-4.11879057	
CMAS	0.48721713	0.01435878	4.13761376	
PLEKHA4	-0.48810239	0.01435878	-4.14748019	
DEFB136	-0.49291333	0.01435878	-4.20139502	
PKNOX2	-0.48891806	0.01435878	-4.15658593	
ANO3	-0.49137573	0.01435878	-4.18410879	
ZFYVE20	0.48528592	0.01435878	4.11614798	
TFB2M	0.49694782	0.01435878	4.24700030	
SGCA	-0.48532178	0.01435878	-4.11654587	
SLC30A5	0.48749237	0.01435878	4.14067961	
RPL23AP64	-0.49576281	0.01435878	-4.23356752	yes
KRTAP19-8	-0.48763671	0.01435878	-4.14228803	
LOC100133430	-0.49327446	0.01435878	-4.20546242	
TTY5	-0.49589072	0.01435878	-4.23501592	
TMEM128	0.49661673	0.01435878	4.24324398	
KIAA1755	-0.49272339	0.01435878	-4.19925687	
CBFB	0.48849482	0.01435878	4.15185933	yes
AKAP4	-0.48618637	0.01435878	-4.12614682	
RTN1	-0.48498883	0.01439424	-4.11285280	
C1QTNF5	-0.48437886	0.01440148	-4.10609308	yes
MTCH2	0.48442586	0.01440148	4.10661367	
PDX1	-0.48478253	0.01440148	-4.11056572	
USP38	0.48457221	0.01440148	4.10823497	yes
PIP5KL1	-0.48391692	0.01456828	-4.10097899	
WIF1	-0.48129117	0.01490984	-4.07199469	
DUSP15	-0.48282300	0.01490984	-4.08888633	
AMAC1	-0.48144844	0.01490984	-4.07372663	
GLIPR2	0.48050812	0.01490984	4.06337866	yes
TIGD2	0.48221472	0.01490984	4.08217290	
FCAR	-0.48144406	0.01490984	-4.07367841	
ITGA11	-0.48123951	0.01490984	-4.07142585	
CAMTA1	-0.48180406	0.01490984	-4.07764498	
ZSCAN1	-0.48126433	0.01490984	-4.07169916	
C1orf95	-0.48188412	0.01490984	-4.07852741	
INCA1	-0.48234430	0.01490984	-4.08360239	
RNASE13	-0.48300778	0.01490984	-4.09092725	
RBP3	-0.48049419	0.01490984	-4.06322557	

LOC646359	-0.48091008	0.01490984	-4.06779990	
FHOD3	-0.48047257	0.01490984	-4.06298780	
TCF7L1	-0.48190386	0.01490984	-4.07874500	
CASP4	0.48256260	0.01490984	4.08601142	
FIBCD1	-0.48112811	0.01490984	-4.07019951	
ZNF628	-0.48067833	0.01490984	-4.06525044	
DGKI	-0.48212308	0.01490984	-4.08116220	
PDE9A	-0.48021696	0.01497564	-4.06017825	yes
EXOSC2	0.47955207	0.01512053	4.05287622	
HOXD4	-0.47969316	0.01512053	-4.05442501	yes
RSPO4	-0.47959417	0.01512053	-4.05333833	
EFCAB3	-0.47919252	0.01520529	-4.04893135	
KLF15	-0.47913421	0.01520529	-4.04829186	
LOC100129654	-0.47267682	0.01522297	-3.97789666	
CDX1	-0.47334951	0.01522297	-3.98519093	yes
STAG3	-0.47264598	0.01522297	-3.97756248	
WTIP	-0.47754454	0.01522297	-4.03088397	yes
TRAM1L1	-0.47317556	0.01522297	-3.98330388	yes
LSM11	-0.47321601	0.01522297	-3.98374261	yes
PNCK	-0.47457156	0.01522297	-3.99846541	yes
GATA5	-0.47824153	0.01522297	-4.03851018	
PARP4	0.47713211	0.01522297	4.02637602	
LOC146336	-0.47221578	0.01522297	-3.97290248	
ADRA1A	-0.47406966	0.01522297	-3.99300991	yes
SMYD1	-0.47475314	0.01522297	-4.00044035	
ADRA2C	-0.47492711	0.01522297	-4.00233312	yes
DPYS	-0.47464511	0.01522297	-3.99926520	
ATN1	-0.47504606	0.01522297	-4.00362760	
PDE12	0.47705516	0.01522297	4.02553537	
EFR3B	-0.47504142	0.01522297	-4.00357714	
FOXE3	-0.47234192	0.01522297	-3.97426845	
CLDN15	-0.47222292	0.01522297	-3.97297985	
C20orf200	-0.47384325	0.01522297	-3.99055055	
TPSG1	-0.47515156	0.01522297	-4.00477594	
C15orf60	-0.47599453	0.01522297	-4.01395988	yes
GSDMA	-0.47755810	0.01522297	-4.03103228	
SLC25A42	-0.47426001	0.01522297	-3.99507836	yes
SYPL2	-0.47273841	0.01522297	-3.97856408	
LOC285943	-0.47835530	0.01522297	-4.03975585	
C1QL4	-0.47473207	0.01522297	-4.00021114	
IGBP1	0.47864802	0.01522297	4.04296238	
PP13004	-0.47396115	0.01522297	-3.99183113	yes
MN1	-0.47549363	0.01522297	-4.00850104	yes
LOC441931	-0.47723141	0.01522297	-4.02746112	
ASTN1	-0.47289648	0.01522297	-3.98027750	
ATP1B2	-0.47323528	0.01522297	-3.98395171	
NKX6-1	-0.47688900	0.01522297	-4.02372044	
UTP18	0.47330659	0.01522297	3.98472527	
IGF2AS	-0.47751262	0.01522297	-4.03053502	
FTHL17	-0.47417090	0.01522297	-3.99410994	

POLR2H	0.47455515	0.01522297	3.99828688	yes
PON2	0.47468615	0.01522297	3.99971163	
RHBDL2	0.47869138	0.01522297	4.04343747	
WDR33	0.47583311	0.01522297	4.01220015	yes
RADIL	-0.47342828	0.01522297	-3.98604574	
PSMA4	0.47547858	0.01522297	4.00833702	
PSMB4	0.47641681	0.01522297	4.01856581	
ZSWIM6	0.47343524	0.01522297	3.98612125	
TRIB3	-0.47671415	0.01522297	-4.02181112	
ZNF410	0.47595317	0.01522297	4.01350893	yes
SOX17	-0.47336300	0.01522297	-3.98533740	
SIM2	-0.47238839	0.01522297	-3.97477176	
SKP1	0.47724443	0.01522297	4.02760334	
LOC728318	-0.47265607	0.01522297	-3.97767178	
UBC	0.47884206	0.01522297	4.04508876	
OR4A5	-0.47778666	0.01522297	-4.03353208	
HIST1H4G	-0.47534787	0.01522297	-4.00691346	
NAPG	0.47687976	0.01522297	4.02361947	
GLYATL1	-0.47731020	0.01522297	-4.02832222	
PDLIM7	-0.47725671	0.01522297	-4.02773759	yes
USP6NL	0.47259563	0.01522297	3.97701681	yes
TBKBP1	-0.47646105	0.01522297	-4.01904852	
SNORD116-14	-0.47021622	0.01531124	-3.95129099	
SNORD116-24	-0.47063568	0.01531124	-3.95581809	
G3BP1	0.47087211	0.01531124	3.95837126	
SPEG	-0.47038201	0.01531124	-3.95307992	yes
LOC29034	-0.47158476	0.01531124	-3.96607390	
GTF2E2	0.47074487	0.01531124	3.95699714	yes
UCRC	0.47194314	0.01531124	3.96995108	
NRAS	0.47029216	0.01531124	3.95211034	
DYNC1LI1	0.47030108	0.01531124	3.95220655	
COPZ2	-0.47163155	0.01531124	-3.96657989	yes
IRGC	-0.47042558	0.01531124	-3.95355017	
PAPOLB	-0.47005067	0.01531124	-3.94950529	
CDH23	-0.47182749	0.01531124	-3.96869968	yes
SLC26A10	-0.47081254	0.01531124	-3.95772795	yes
TLL2	-0.47150253	0.01531124	-3.96518464	
UMPS	0.47002630	0.01531124	3.94924244	
CA4	-0.47100020	0.01531124	-3.95975506	
ALX1	-0.47035205	0.01531124	-3.95275662	
WDR87	-0.47107249	0.01531124	-3.96053611	
UNC5A	-0.47057733	0.01531124	-3.95518809	
FAM132B	-0.46992585	0.01531260	-3.94815916	
MTX2	0.46946994	0.01532789	3.94324520	
BVES	-0.46931621	0.01532789	-3.94158913	
PRSS7	-0.46955735	0.01532789	-3.94418699	
MED10	0.46942736	0.01532789	3.94278644	
CCDC109A	0.46960111	0.01532789	3.94465857	yes
KIAA0644	-0.46939728	0.01532789	-3.94246240	
CISH	-0.46901092	0.01533791	-3.93830179	

SETD1B	-0.46909546	0.01533791	-3.93921196	yes
KIF5A	-0.46913514	0.01533791	-3.93963917	
GRID2	-0.46864799	0.01543097	-3.93439612	
ROPN1	-0.46870426	0.01543097	-3.93500155	
PMPCB	0.46842268	0.01550158	3.93197268	
SNORD116-2	-0.46686029	0.01556945	-3.91519496	
SNORD116-23	-0.46686761	0.01556945	-3.91527343	
LOC100127905	-0.46273350	0.01556945	-3.87110367	
LOC100133142	-0.46524184	0.01556945	-3.89786453	yes
PDCD6	0.46376527	0.01556945	3.88209695	
C1QTNF4	-0.46268402	0.01556945	-3.87057692	
OR51F2	-0.46644806	0.01556945	-3.91077605	
OR10A7	-0.46438422	0.01556945	-3.88870145	
NIPA1	0.46564636	0.01556945	3.90219151	
UHMK1	0.46775555	0.01556945	3.92480300	
AP1S3	0.46507959	0.01556945	3.89612989	
NKX2-5	-0.46273543	0.01556945	-3.87112416	
C1orf127	-0.46431044	0.01556945	-3.88791378	
MMAA	0.46463605	0.01556945	3.89139065	
ZNF679	-0.46405542	0.01556945	-3.88519203	
SPERT	-0.46449830	0.01556945	-3.88991949	
FGF4	-0.46565932	0.01556945	-3.90233011	
GABRB3	-0.46359252	0.01556945	-3.88025497	
CLIP3	-0.46807705	0.01556945	-3.92825712	
GALNT8	-0.46725252	0.01556945	-3.91940244	
PCOLCE2	-0.46359135	0.01556945	-3.88024247	
FOXB1	-0.46297793	0.01556945	-3.87370624	
B3GAT1	-0.46447717	0.01556945	-3.88969385	
AQP11	-0.46546732	0.01556945	-3.90027599	
PIGW	0.46629452	0.01556945	3.90913100	
GPR150	-0.46743254	0.01556945	-3.92133464	
GUCY1A2	-0.46796620	0.01556945	-3.92706594	
H3F3B	0.46334061	0.01556945	3.87756987	
HOXB3	-0.46508266	0.01556945	-3.89616279	
HOXB6	-0.46550980	0.01556945	-3.90073045	yes
IGFL3	-0.46656202	0.01556945	-3.91199726	
LOC388906	-0.46338011	0.01556945	-3.87799083	
C15orf58	0.46362333	0.01556945	3.88058343	
LYL1	-0.46664959	0.01556945	-3.91293589	
MSI1	-0.46452153	0.01556945	-3.89016752	
MYL1	-0.46338502	0.01556945	-3.87804316	
OTC	-0.46552817	0.01556945	-3.90092692	
FOXP3	-0.46291618	0.01556945	-3.87304859	
CALHM2	-0.46282575	0.01556945	-3.87208581	
DERA	0.46672426	0.01556945	3.91373641	
UBAP1	0.46412152	0.01556945	3.88589736	
ANAPC5	0.46297579	0.01556945	3.87368339	
POLR3K	0.46473683	0.01556945	3.89246710	
C9orf11	-0.46737786	0.01556945	-3.92074765	
CRLS1	0.46788211	0.01556945	3.92616245	

EXD3	-0.46427081	0.01556945	-3.88749072	yes
PIGV	0.46415002	0.01556945	3.88620152	
NIT2	0.46290721	0.01556945	3.87295310	
RBM3	0.46676025	0.01556945	3.91412223	
FKBP10	-0.46471990	0.01556945	-3.89228624	yes
RPL36AL	0.46257501	0.01556945	3.86941672	
TSPAN31	0.46714410	0.01556945	3.91823912	
SCN4A	-0.46645978	0.01556945	-3.91090162	
BCAN	-0.46509522	0.01556945	-3.89629699	
SOX9	-0.46253293	0.01556945	-3.86896898	
TAL1	-0.46320075	0.01556945	-3.87607961	yes
UGCG	0.46385281	0.01556945	3.88303063	
WT1	-0.46452408	0.01556945	-3.89019481	
C4orf29	0.46555312	0.01556945	3.90119383	
AIF1L	-0.46312731	0.01556945	-3.87529725	
TATDN1	0.46536086	0.01556945	3.89913734	
HIATL1	0.46564787	0.01556945	3.90220761	
UNC5C	-0.46469625	0.01556945	-3.89203366	
RGS11	-0.46800404	0.01556945	-3.92747250	yes
TRIP4	0.46648256	0.01556945	3.91114565	yes
H2AFY	0.46431175	0.01556945	3.88792778	yes
ROD1	0.46741478	0.01556945	3.92114398	yes
UNQ6126	-0.46188160	0.01559390	-3.86204198	
LOC100129434	-0.46080045	0.01559390	-3.85056122	
PWP1	0.46107089	0.01559390	3.85343098	
DACH1	-0.46184874	0.01559390	-3.86169272	
DLX2	-0.46136480	0.01559390	-3.85655133	yes
C9orf25	-0.46095142	0.01559390	-3.85216307	
TMEM130	-0.46115850	0.01559390	-3.85436094	
IKZF2	0.46087798	0.01559390	3.85138373	yes
INHA	-0.46211671	0.01559390	-3.86454145	
NHLRC3	0.46185831	0.01559390	3.86179434	
ARHGAP6	-0.46080316	0.01559390	-3.85058999	
ANAPC7	0.46155285	0.01559390	3.85854861	
PMS2	0.46212568	0.01559390	3.86463683	
MXRA8	-0.46222511	0.01559390	-3.86569429	
SUSD2	-0.46236970	0.01559390	-3.86723221	
BARHL1	-0.46102204	0.01559390	-3.85291245	
TBX20	-0.46169923	0.01559390	-3.86010387	
SLC4A10	-0.46112801	0.01559390	-3.85403724	
YWHAB	0.46129856	0.01559390	3.85584792	
ESX1	-0.46182581	0.01559390	-3.86144896	
GPR37L1	-0.46156557	0.01559390	-3.85868380	
CAMK2N2	-0.46161832	0.01559390	-3.85924420	
TREX2	-0.46038813	0.01561567	-3.84618856	
TMEM196	-0.46051546	0.01561567	-3.84753853	
LSG1	0.46054399	0.01561567	3.84784106	
ACSBG2	-0.46061845	0.01561567	-3.84863070	
PNPT1	0.46044346	0.01561567	3.84677517	
PRSS36	-0.45997945	0.01571573	-3.84185754	

TMEM216	0.46008751	0.01571573	3.84300245	
OXNAD1	0.46002768	0.01571573	3.84236847	yes
LOC100132755	-0.45965597	0.01575795	-3.83843171	yes
MEOX1	-0.45968862	0.01575795	-3.83877742	
XCL1	-0.45974809	0.01575795	-3.83940717	
CILP	-0.45960819	0.01575795	-3.83792579	
FIGLA	-0.45932247	0.01587226	-3.83490175	
CTSS	0.45918129	0.01590923	3.83340805	
HSD17B14	-0.45903439	0.01591045	-3.83185424	yes
PERP	0.45909675	0.01591045	3.83251374	
HIST1H2BA	-0.45852219	0.01597913	-3.82643952	
ZNF575	-0.45864671	0.01597913	-3.82775538	
TMEM200B	-0.45861497	0.01597913	-3.82742001	
IMP3	0.45879815	0.01597913	3.82935618	
KLK6	-0.45847698	0.01597913	-3.82596183	
VTN	-0.45855698	0.01597913	-3.82680711	
SNORD116-1	-0.45703254	0.01602317	-3.81071915	
LOC100131120	-0.45651518	0.01602317	-3.80526887	
GAS2L1	-0.45648827	0.01602317	-3.80498555	
NPFFR2	-0.45814273	0.01602317	-3.82243119	
CKMT2	-0.45648445	0.01602317	-3.80494536	
ZNF560	-0.45672746	0.01602317	-3.80750457	
FNDC7	-0.45723419	0.01602317	-3.81284480	
LVRN	-0.45711327	0.01602317	-3.81157003	
GABRG3	-0.45660901	0.01602317	-3.80625695	
NGDN	0.45704595	0.01602317	3.81086045	
GDNF	-0.45636445	0.01602317	-3.80368196	yes
GMPR	-0.45720713	0.01602317	-3.81255946	
GPR26	-0.45682698	0.01602317	-3.80855301	
GRM8	-0.45662050	0.01602317	-3.80637806	
PKN3	-0.45719769	0.01602317	-3.81245994	yes
NHSL2	-0.45698265	0.01602317	-3.81019332	
C9orf139	-0.45665874	0.01602317	-3.80678075	
C19orf29OS	-0.45746374	0.01602317	-3.81526544	
TMEM41B	0.45741021	0.01602317	3.81470089	
HTRA1	-0.45831177	0.01602317	-3.82421642	yes
PSMA5	0.45819043	0.01602317	3.82293491	
REL	0.45714461	0.01602317	3.81190041	
SOX1	-0.45739943	0.01602317	-3.81458712	
SOX10	-0.45725461	0.01602317	-3.81306002	
SPTA1	-0.45638468	0.01602317	-3.80389485	yes
TTR	-0.45632515	0.01602317	-3.80326818	
SNORD114-3	-0.45717987	0.01602317	-3.81227213	yes
ADAM33	-0.45674933	0.01602317	-3.80773498	yes
USHBP1	-0.45638726	0.01602317	-3.80392208	yes
CRADD	0.45789932	0.01602317	3.81986140	
CD300LB	-0.45619645	0.01602855	-3.80191363	
LEFTY2	-0.45616397	0.01602855	-3.80157176	
KIAA2013	-0.45611515	0.01602855	-3.80105806	
DNASE2B	-0.45590312	0.01605356	-3.79882730	

TIGD5	-0.45590078	0.01605356	-3.79880273	
ACPT	-0.45586988	0.01605356	-3.79847771	
WDR40A	0.45570101	0.01610905	3.79670171	
LOC100128374	-0.45463478	0.01617650	-3.78550043	
ASZ1	-0.45468344	0.01617650	-3.78601113	
C3orf55	-0.45502304	0.01617650	-3.78957694	
HOXC12	-0.45488759	0.01617650	-3.78815451	yes
HTR1B	-0.45512910	0.01617650	-3.79069091	
VSTM2B	-0.45518949	0.01617650	-3.79132538	
HCRP1	-0.45496924	0.01617650	-3.78901190	
SLC22A10	-0.45480061	0.01617650	-3.78724119	
LOC389813	-0.45453721	0.01617650	-3.78447640	
LHX1	-0.45547896	0.01617650	-3.79436723	
RAB14	0.45456409	0.01617650	3.78475854	
PTGER3	-0.45538997	0.01617650	-3.79343200	
RAF1	0.45491865	0.01617650	3.78848061	
PPAPDC3	-0.45492824	0.01617650	-3.78858128	
RASL10B	-0.45528276	0.01617650	-3.79230529	yes
GGTLC1	-0.45466973	0.01617650	-3.78586728	yes
TAS1R3	-0.45437777	0.01622823	-3.78280347	
MGC39545	-0.45406694	0.01631931	-3.77954330	
SEMA5B	-0.45401915	0.01631931	-3.77904223	
BTG1	0.45414514	0.01631931	3.78036336	
RTN4R	-0.45385481	0.01636624	-3.77731939	
MEX3B	-0.45380629	0.01636624	-3.77681090	
B3GAT2	-0.45348069	0.01637242	-3.77339924	
DEFB116	-0.45342982	0.01637242	-3.77286632	
ZNF775	-0.45356629	0.01637242	-3.77429596	yes
RNASE10	-0.45341752	0.01637242	-3.77273751	
VWC2	-0.45367371	0.01637242	-3.77542144	
GAL3ST4	-0.45354612	0.01637242	-3.77408462	yes
GSX1	-0.45329887	0.01640306	-3.77149492	
GLUL	0.45313811	0.01645686	3.76981174	
HHLA1	-0.45212681	0.01649223	-3.75923354	
AHCYL1	0.45090142	0.01649223	3.74644048	
SP7	-0.45118721	0.01649223	-3.74942172	
ZNF358	-0.45129011	0.01649223	-3.75049545	yes
RP11-410N8.4	-0.45144959	0.01649223	-3.75216012	
C11orf42	-0.45092828	0.01649223	-3.74672055	
NLRP6	-0.45179997	0.01649223	-3.75581876	
EIF5	0.45169247	0.01649223	3.75469600	yes
ARHGEF15	-0.45143670	0.01649223	-3.75202549	yes
C1orf107	0.45278758	0.01649223	3.76614313	
SIGLEC15	-0.45091598	0.01649223	-3.74659234	
MRPL18	0.45202420	0.01649223	3.75816132	
GTF2F2	0.45277686	0.01649223	3.76603098	
MNX1	-0.45277548	0.01649223	-3.76601649	
LOC347549	-0.45158643	0.01649223	-3.75358865	
IGF2	-0.45255773	0.01649223	-3.76373871	
DKFZp779M0652	-0.45207497	0.01649223	-3.75869186	

PEAR1	-0.45097043	0.01649223	-3.74716026	yes
KRTAP10-11	-0.45130065	0.01649223	-3.75060555	
SMAD6	-0.45261747	0.01649223	-3.76436354	
PMS2CL	0.45147065	0.01649223	3.75237995	
RFPL4B	-0.45166550	0.01649223	-3.75441438	
NPY6R	-0.45097877	0.01649223	-3.74724716	
SLMO2	0.45176448	0.01649223	3.75544803	yes
FBXO40	-0.45169153	0.01649223	-3.75468620	
PEX13	0.45118180	0.01649223	3.74936529	yes
NUFIP2	0.45101305	0.01649223	3.74760476	yes
ISLR2	-0.45234932	0.01649223	-3.76155940	
EDA2R	-0.45108361	0.01649223	-3.74834080	
LOC646471	-0.45152396	0.01649223	-3.75293647	
STAR	-0.45200379	0.01649223	-3.75794805	
TRIM48	-0.45198742	0.01649223	-3.75777695	
ZMAT4	-0.45144506	0.01649223	-3.75211278	
LIMD2	-0.45239449	0.01649223	-3.76203166	
OR1E1	-0.45192365	0.01649223	-3.75711075	
GTF3C4	0.45186901	0.01649223	3.75653994	
C20orf141	-0.45064847	0.01650320	-3.74380300	
HSD17B4	0.45073811	0.01650320	3.74473753	
FLJ46210	-0.45071148	0.01650320	-3.74445986	
MIS12	0.45070055	0.01650320	3.74434593	yes
IL11	-0.45048007	0.01653187	-3.74204775	
ABCG4	-0.45051964	0.01653187	-3.74246013	
KCNJ9	-0.45036294	0.01653280	-3.74082715	
ACTL8	-0.45040971	0.01653280	-3.74131452	
FXYP7	-0.45026880	0.01655276	-3.73984629	
CILP2	-0.45011128	0.01655686	-3.73820550	
EMX1	-0.45008918	0.01655686	-3.73797529	
HMX3	-0.45011090	0.01655686	-3.73820150	
OLIG1	-0.44922381	0.01656731	-3.72896930	
CRYBB1	-0.44916662	0.01656731	-3.72837455	
C16orf11	-0.44955041	0.01656731	-3.73236674	
DRD3	-0.44925419	0.01656731	-3.72928516	
OR56B4	-0.44977130	0.01656731	-3.73466551	
FZD2	-0.44919050	0.01656731	-3.72862286	
HOXA3	-0.44935447	0.01656731	-3.73032825	
LOC387763	-0.44940976	0.01656731	-3.73090338	
FLJ45717	-0.44931647	0.01656731	-3.72993300	
LOC440461	-0.44997686	0.01656731	-3.73680568	
SF3B14	0.44931365	0.01656731	3.72990360	
VIP	-0.44988862	0.01656731	-3.73588687	
DISP2	-0.44988218	0.01656731	-3.73581979	
CDC123	0.44936932	0.01656731	3.73048270	
UAP1L1	-0.44981399	0.01656731	-3.73510997	yes
PPP1R14A	-0.44925303	0.01656731	-3.72927310	
NLRP4	-0.44904266	0.01657424	-3.72708568	
EML4	0.44906173	0.01657424	3.72728397	
LOC100132564	-0.44807961	0.01668890	-3.71708152	

ARPP-21	-0.44841367	0.01668890	-3.72054991	yes
RNASE8	-0.44803307	0.01668890	-3.71659851	
JSRP1	-0.44764572	0.01668890	-3.71257963	
ANKRD60	-0.44864344	0.01668890	-3.72293665	
FAM71A	-0.44835659	0.01668890	-3.71995715	yes
ZFPM1	-0.44775258	0.01668890	-3.71368802	
APCDD1L	-0.44819170	0.01668890	-3.71824506	
TFIP11	0.44769599	0.01668890	3.71310100	
C16orf5	-0.44834957	0.01668890	-3.71988427	
C2orf71	-0.44804675	0.01668890	-3.71674045	
C14orf129	0.44846251	0.01668890	3.72105717	
CMTM6	0.44763960	0.01668890	3.71251609	
PRG2-1	-0.44782548	0.01668890	-3.71444435	
PRDM13	-0.44790724	0.01668890	-3.71529272	
REN	-0.44822020	0.01668890	-3.71854092	yes
FASTKD5	0.44801434	0.01668890	3.71640408	
SNORA35	-0.44763216	0.01668890	-3.71243894	
EPX	-0.44790125	0.01668890	-3.71523053	
ZIC5	-0.44777351	0.01668890	-3.71390516	
SCARF2	-0.44873946	0.01668890	-3.72393433	
CD58	0.44841755	0.01668890	3.72059021	
HRASLS5	-0.44736232	0.01680737	-3.70964091	
RNF222	-0.44719529	0.01686984	-3.70790952	
DCTD	0.44699237	0.01693897	3.70580679	
HES3	-0.44696327	0.01693897	-3.70550529	yes
COX6A2	-0.44685011	0.01694442	-3.70433311	
NPTXR	-0.44674035	0.01694442	-3.70319622	
C3orf1	0.44673271	0.01694442	3.70311717	
ACSL5	0.44668770	0.01694442	3.70265103	
PRB1	-0.44681354	0.01694442	-3.70395429	
NUBP1	0.44662771	0.01694835	3.70202983	
HCN1	-0.44642620	0.01697231	-3.69994371	
NTRK1	-0.44649976	0.01697231	-3.70070513	
ASB16	-0.44647145	0.01697231	-3.70041214	
LRRC25	-0.44598456	0.01698521	-3.69537406	
CRISP1	-0.44612441	0.01698521	-3.69682076	
EGR4	-0.44604872	0.01698521	-3.69603774	
IDH3A	0.44598826	0.01698521	3.69541235	yes
C3orf18	-0.44605459	0.01698521	-3.69609846	
FAM176B	-0.44606953	0.01698521	-3.69625295	
ADM2	-0.44600440	0.01698521	-3.69557932	
SLC4A9	-0.44625514	0.01698521	-3.69817338	
NAE1	0.44592384	0.01699007	3.69474607	
NOS3	-0.44583780	0.01699381	-3.69385630	
SLC22A17	-0.44578745	0.01699381	-3.69333568	yes
TBC1D4	-0.44576176	0.01699381	-3.69307009	yes
NOVA2	-0.44568578	0.01700729	-3.69228451	
CHRNA2	-0.44520280	0.01712498	-3.68729350	
CTRB1	-0.44528241	0.01712498	-3.68811589	
MGC24975	-0.44524530	0.01712498	-3.68773252	

IL27	-0.44526519	0.01712498	-3.68793795	
DAPP1	0.44516543	0.01712498	3.68690750	yes
S1PR5	-0.44534242	0.01712498	-3.68873585	
FGF5	-0.44510225	0.01713169	-3.68625490	
POLR1B	0.44500792	0.01715579	3.68528077	
TMEM207	-0.44476285	0.01716144	-3.68275055	
ARID3A	-0.44474371	0.01716144	-3.68255307	
IFNGR1	0.44477022	0.01716144	3.68282665	
CAMK1G	-0.44489821	0.01716144	-3.68414794	
LOC645605	-0.44488948	0.01716144	-3.68405781	
UPRT	0.44461625	0.01720427	3.68123758	
SUCLG2	0.44455645	0.01720945	3.68062047	
SNORD116-15	-0.44449470	0.01721575	-3.67998338	
RAB39B	-0.44415127	0.01723970	-3.67644096	
ITIH3	-0.44415061	0.01723970	-3.67643416	
KCNA10	-0.44420104	0.01723970	-3.67695421	
BCL2L15	0.44437678	0.01723970	3.67876684	
PCBP2	0.44423171	0.01723970	3.67727052	
PRB4	-0.44428342	0.01723970	-3.67780379	
RASIP1	-0.44407340	0.01725493	-3.67563804	yes
LOC100132750	-0.44332531	0.01728437	-3.66792986	
TFG	0.44388827	0.01728437	3.67372959	
RPP38	0.44361307	0.01728437	3.67089374	
C1QTNF1	-0.44368543	0.01728437	-3.67163933	yes
TTC39B	0.44330825	0.01728437	3.66775412	yes
NMNAT2	-0.44349318	0.01728437	-3.66965868	
TMEM146	-0.44393046	0.01728437	-3.67416448	
LY6G6F	-0.44337858	0.01728437	-3.66847839	
LAMA1	-0.44370917	0.01728437	-3.67188389	
SPIN2B	-0.44328984	0.01728437	-3.66756456	
NFE2	-0.44375880	0.01728437	-3.67239530	yes
SENP2	0.44332754	0.01728437	3.66795277	
PAX8	-0.44328006	0.01728437	-3.66746384	
C8orf76	0.44340209	0.01728437	3.66872050	
SCRT2	-0.44347540	0.01728437	-3.66947557	
RBMXL2	-0.44312396	0.01732433	-3.66585676	
ZNF541	-0.44311098	0.01732433	-3.66572312	
LBX1	-0.44283396	0.01745240	-3.66287216	
OXSM	0.44274133	0.01747717	3.66191920	
EFNA2	-0.44268270	0.01748283	-3.66131606	
DNAJC5G	-0.44250460	0.01750128	-3.65948430	
LDHAL6B	-0.44252751	0.01750128	-3.65971986	
VPS4B	0.44257288	0.01750128	3.66018649	
ERCC3	0.44243065	0.01750224	3.65872389	
OR4F6	-0.44240633	0.01750224	-3.65847385	
ZNF213	-0.44227018	0.01755188	-3.65707407	
C19orf71	-0.44205478	0.01764661	-3.65486025	
UNQ6193	-0.44183859	0.01765110	-3.65263905	
CCDC42	-0.44190556	0.01765110	-3.65332707	
SLC35D3	-0.44185067	0.01765110	-3.65276318	

C5orf43	0.44195394	0.01765110	3.65382416	
ALPK1	0.44180711	0.01765110	3.65231574	yes
AMH	-0.44173504	0.01766491	-3.65157548	
RUNDC3A	-0.44160592	0.01768785	-3.65024945	
C14orf68	-0.44150703	0.01768785	-3.64923411	
LINGO4	-0.44150427	0.01768785	-3.64920586	
MARS2	0.44156299	0.01768785	3.64980867	
RP5-1022P6.2	0.44141544	0.01771138	3.64829390	
CLTA	0.44115103	0.01772019	3.64558033	
CRCP	0.44122951	0.01772019	3.64638559	
FEM1C	0.44128316	0.01772019	3.64693615	
KIAA1772	-0.44111667	0.01772019	-3.64522769	
FOXH1	-0.44131751	0.01772019	-3.64728872	
RAB9P1	-0.44117705	0.01772019	-3.64584725	
C17orf47	-0.44086705	0.01776746	-3.64266712	
C19orf31	-0.44079926	0.01776746	-3.64197195	
FLJ14100	-0.44080963	0.01776746	-3.64207828	
LRRC16B	-0.44090055	0.01776746	-3.64301069	
GABBR2	-0.44094824	0.01776746	-3.64349984	
LOC407835	-0.44069800	0.01777199	-3.64093361	
ACCN4	-0.44072174	0.01777199	-3.64117699	
PPP3R2	-0.44051072	0.01785227	-3.63901376	
TMEM85	0.44040046	0.01788874	3.63788365	
ADORA2B	0.44026124	0.01790031	3.63645715	
GSC	-0.44007634	0.01790031	-3.63456297	
DIMT1L	0.44004798	0.01790031	3.63427252	
KRT82	-0.44033220	0.01790031	-3.63718415	
ATR	0.43987257	0.01790031	3.63247615	
BTNL2	-0.43989599	0.01790031	-3.63271595	
TAF11	0.44011063	0.01790031	3.63491424	
COQ10B	0.43990691	0.01790031	3.63282786	
RETNLB	-0.43987846	0.01790031	-3.63253653	
ZNF835	-0.44023194	0.01790031	-3.63615691	
NEURL	-0.43988448	0.01790031	-3.63259815	
SNORD115-7	-0.43935368	0.01791091	-3.62716543	
SNORD115-32	-0.43949070	0.01791091	-3.62856733	
SLC36A2	-0.43979608	0.01791091	-3.63169300	
FOXS1	-0.43952034	0.01791091	-3.62887072	
DDN	-0.43968361	0.01791091	-3.63054168	
RCOR2	-0.43946956	0.01791091	-3.62835110	yes
ERO1L	0.43948959	0.01791091	3.62855603	
LOC401296	-0.43942023	0.01791091	-3.62784627	
VWA5A	0.43959203	0.01791091	3.62960437	
CNOT6	0.43950985	0.01791091	3.62876328	yes
FAM62C	-0.43936305	0.01791091	-3.62726130	
MOCS3	0.43929253	0.01791516	3.62653983	yes
CECR6	-0.43925373	0.01791516	-3.62614298	
LOC492303	-0.43920865	0.01791516	-3.62568192	
POU3F3	-0.43912117	0.01791516	-3.62478724	
CD72	-0.43914518	0.01791516	-3.62503273	

PGM2L1	0.43893104	0.01792151	3.62284311	yes
XKR5	-0.43897298	0.01792151	-3.62327185	
CACNG7	-0.43896768	0.01792151	-3.62321771	
QTRTD1	0.43896443	0.01792151	3.62318444	
TMEM221	-0.43841341	0.01799401	-3.61755339	
NXNL1	-0.43787388	0.01799401	-3.61204463	
HSPA12B	-0.43812165	0.01799401	-3.61457380	
CMTM2	-0.43862119	0.01799401	-3.61967613	
TBC1D21	-0.43760866	0.01799401	-3.60933836	
C10orf35	-0.43858936	0.01799401	-3.61935097	
C10orf27	-0.43763117	0.01799401	-3.60956800	
FOXO3	-0.43813854	0.01799401	-3.61474623	
LARP5	0.43786439	0.01799401	3.61194771	yes
NPB	-0.43822935	0.01799401	-3.61567350	
SALL3	-0.43827909	0.01799401	-3.61618147	
OR5J2	-0.43811309	0.01799401	-3.61448640	
SLC36A3	-0.43773013	0.01799401	-3.61057765	
HCCS	0.43792822	0.01799401	3.61259920	yes
SOX8	-0.43847363	0.01799401	-3.61816857	
MPN2	-0.43853517	0.01799401	-3.61879723	
KRT1	-0.43822474	0.01799401	-3.61562642	
C12orf69	-0.43769038	0.01799401	-3.61017211	
ING3	0.43820570	0.01799401	3.61543200	
RALB	0.43793551	0.01799401	3.61267364	
CALCB	-0.43759226	0.01799401	-3.60917111	
NPAL2	0.43757586	0.01799401	3.60900377	
OR2C3	-0.43790960	0.01799401	-3.61240921	
NCOA3	0.43806332	0.01799401	3.61397830	
RAB2B	0.43838353	0.01799401	3.61724812	yes
RTCD1	0.43857962	0.01799401	3.61925145	yes
CDK5R2	-0.43841242	0.01799401	-3.61754329	
ATG5	0.43780675	0.01799401	3.61135954	
SYNPO	-0.43738074	0.01808101	-3.60701369	
C12orf59	-0.43718598	0.01816818	-3.60502794	
FNDC8	-0.43705771	0.01821733	-3.60372044	
MRPS31	0.43661100	0.01828220	3.59916902	yes
NTN5	-0.43663879	0.01828220	-3.59945208	
COL19A1	-0.43674683	0.01828220	-3.60055265	
VPS37D	-0.43667738	0.01828220	-3.59984519	
GDF10	-0.43671083	0.01828220	-3.60018585	
HRG	-0.43652846	0.01828220	-3.59832843	
BEND4	-0.43651798	0.01828220	-3.59822173	
TRPM1	-0.43655570	0.01828220	-3.59860585	
CMPK1	0.43652994	0.01828220	3.59834349	
HIST3H3	-0.43677929	0.01828220	-3.60088332	
ZNF703	-0.43638719	0.01833334	-3.59688992	
KCTD19	-0.43610200	0.01835009	-3.59398705	
SERPINB1	0.43606238	0.01835009	3.59358382	
SEMG2	-0.43627253	0.01835009	-3.59572269	
WNK4	-0.43613316	0.01835009	-3.59430416	

GSG1	-0.43613912	0.01835009	-3.59436475	
KCNQ4	-0.43612604	0.01835009	-3.59423165	
PUM1	0.43627943	0.01835009	3.59579293	
PPTC7	0.43601986	0.01835034	3.59315118	
RNU12	-0.43578406	0.01838978	-3.59075225	
BMP8B	-0.43580163	0.01838978	-3.59093105	
SLC15A5	-0.43587984	0.01838978	-3.59172654	
TSC22D4	-0.43583441	0.01838978	-3.59126447	
TCP10L	-0.43563520	0.01845198	-3.58923841	
KRTAP10-10	-0.43554612	0.01847952	-3.58833263	
CPSF3	0.43549466	0.01848519	3.58780934	
NME4	-0.43540421	0.01851362	-3.58688986	yes
NRN1L	-0.43519077	0.01856538	-3.58472056	
SIRT4	-0.43526414	0.01856538	-3.58546625	
MRPL39	0.43522364	0.01856538	3.58505459	yes
KIF26A	-0.43500356	0.01861410	-3.58281848	
UNCX	-0.43494173	0.01861410	-3.58219040	
PRM3	-0.43494307	0.01861410	-3.58220411	
SOCS1	-0.43494390	0.01861410	-3.58221250	
TXNDC9	0.43452134	0.01863161	3.57792179	
PSMD14	0.43479790	0.01863161	3.58072966	
ZBTB43	0.43461069	0.01863161	3.57882881	
ZBTB32	-0.43453019	0.01863161	-3.57801159	
MORC1	-0.43423760	0.01863161	-3.57504220	
MLN	-0.43451915	0.01863161	-3.57789952	
ABHD5	0.43423209	0.01863161	3.57498639	
LOC51145	-0.43438775	0.01863161	-3.57656584	
BARX1	-0.43437442	0.01863161	-3.57643056	
CPLX3	-0.43459139	0.01863161	-3.57863282	
MAGEB17	-0.43443602	0.01863161	-3.57705579	
SLC5A2	-0.43472804	0.01863161	-3.58002030	
NOX5	-0.43449591	0.01863161	-3.57766361	
KRTAP1-3	-0.43473143	0.01863161	-3.58005467	
KRTAP3-2	-0.43424886	0.01863161	-3.57515651	
NKX6-2	-0.43454976	0.01863161	-3.57821028	
IQCB1	0.43421556	0.01863161	3.57481864	
IGSF5	-0.43394276	0.01868952	-3.57205149	
C10orf114	-0.43397286	0.01868952	-3.57235673	
OPRK1	-0.43393355	0.01868952	-3.57195813	yes
FUSSEL18	-0.43391448	0.01868952	-3.57176470	
TRH	-0.43394858	0.01868952	-3.57211046	
RLBP1	-0.43386136	0.01869704	-3.57122600	
IGFALS	-0.43380283	0.01870775	-3.57063259	
OR6B3	-0.43374311	0.01871919	-3.57002708	
CORT	-0.43362548	0.01876471	-3.56883465	
LOC120824	-0.43353618	0.01877003	-3.56792963	
SNTA1	-0.43353888	0.01877003	-3.56795696	yes
BEX1	-0.43346362	0.01877168	-3.56719426	
ABCG8	-0.43345332	0.01877168	-3.56708985	
OR4K14	-0.43320284	0.01882222	-3.56455216	

CPT1C	-0.43312833	0.01882222	-3.56379754	
GSG1L	-0.43313980	0.01882222	-3.56391362	
MYLIP	0.43329841	0.01882222	3.56552034	
NPM1	0.43317593	0.01882222	3.56427960	
RAE1	0.43328663	0.01882222	3.56540093	
TGFB111	-0.43303987	0.01885096	-3.56290164	yes
ETV5	-0.43287398	0.01885522	-3.56122193	
TFAP2E	-0.43297802	0.01885522	-3.56227528	
SH2D4B	-0.43283474	0.01885522	-3.56082472	
FAM18A	-0.43286731	0.01885522	-3.56115443	
PPP4R1	0.43292450	0.01885522	3.56173347	yes
ZNF746	-0.43279153	0.01885744	-3.56038730	
LHB	-0.43269631	0.01887040	-3.55942349	
SUPV3L1	0.43269080	0.01887040	3.55936775	
C6orf192	0.43235971	0.01893385	3.55601765	
IGFL2	-0.43234806	0.01893385	-3.55589980	
MYBPHL	-0.43237860	0.01893385	-3.55620877	
NIF3L1	0.43235363	0.01893385	3.55595613	
FGF18	-0.43239120	0.01893385	-3.55633621	
CHD1L	0.43252841	0.01893385	3.55772435	
SLURP1	-0.43229716	0.01894085	-3.55538497	
SLC32A1	-0.43209753	0.01895129	-3.55336608	
EIF4E1B	-0.43209705	0.01895129	-3.55336118	
ARL5A	0.43213837	0.01895129	3.55377903	
HOXA4	-0.43208477	0.01895129	-3.55323702	
NPTX2	-0.43218258	0.01895129	-3.55422608	
CDKN2AIP	0.43201242	0.01897113	3.55250552	
HOXB4	-0.43189788	0.01899073	-3.55134764	
HSPA8	0.43189788	0.01899073	3.55134769	
CACNA1S	-0.43183389	0.01899073	-3.55070090	
IGSF21	-0.43182443	0.01899073	-3.55060526	
HNRNPK	0.43170332	0.01901989	3.54938130	
TNFRSF8	-0.43169801	0.01901989	-3.54932766	
SCGB1D1	-0.43164722	0.01902715	-3.54881445	
GTF2A2	0.43152346	0.01903213	3.54756403	
OR52K1	-0.43153811	0.01903213	-3.54771210	
PYGM	-0.43154888	0.01903213	-3.54782086	
CST11	-0.43119869	0.01907494	-3.54428400	
AMDHD1	-0.43114541	0.01907494	-3.54374606	
NFAM1	-0.43129202	0.01907494	-3.54522649	
PACSL1	-0.43115306	0.01907494	-3.54382334	
LCE1F	-0.43130406	0.01907494	-3.54534806	
LMX1B	-0.43127953	0.01907494	-3.54510029	
ANKS1B	-0.43119646	0.01907494	-3.54426155	
RASL11B	-0.43124657	0.01907494	-3.54476746	
FAM55D	-0.43108446	0.01908853	-3.54313078	
CACYBP	-0.43080951	0.01912336	-3.54035573	
C3orf70	-0.43079833	0.01912336	-3.54024288	
HOXB7	-0.43081709	0.01912336	-3.54043217	
LOC729080	-0.43092921	0.01912336	-3.54156373	

TNFAIP8L2	-0.43090143	0.01912336	-3.54128336	
CNTNAP4	-0.43090888	0.01912336	-3.54135851	
XIRP1	-0.43062596	0.01917085	-3.53850381	
LOC401357	-0.43065818	0.01917085	-3.53882885	
SNORD25	0.43060527	0.01917085	3.53829511	
CCL1	-0.43049341	0.01921507	-3.53716688	
C4orf12	-0.43044370	0.01922227	-3.53666551	
ELA2	-0.43035520	0.01925267	-3.53577308	
OR13C8	-0.43027757	0.01925996	-3.53499029	
STGC3	-0.43026791	0.01925996	-3.53489292	
RP13-388O5.1	-0.43017070	0.01929568	-3.53391295	
LOC100130130	-0.43005602	0.01929644	-3.53275702	
SIGLEC8	-0.43007478	0.01929644	-3.53294605	
TTC9C	0.42998253	0.01929644	3.53201635	yes
VSTM1	-0.43007893	0.01929644	-3.53298794	
FAM60A	0.42999436	0.01929644	3.53213553	yes
ZNF840	-0.42973947	0.01933844	-3.52956743	
PRRT2	-0.42965918	0.01933844	-3.52875859	
COL11A1	-0.42970001	0.01933844	-3.52916990	
AGTR1	-0.42959993	0.01933844	-3.52816187	
C12orf12	-0.42954142	0.01933844	-3.52757258	
HELT	-0.42975539	0.01933844	-3.52972773	
CACNG8	-0.42955691	0.01933844	-3.52772861	
SNORA60	-0.42982350	0.01933844	-3.53041396	
NKX2-1	-0.42974158	0.01933844	-3.52958868	
FBXL18	-0.42963238	0.01933844	-3.52848871	
CATSPER1	-0.42949163	0.01934616	-3.52707123	
TNFSF9	-0.42941504	0.01936997	-3.52630008	
CA2	-0.42933691	0.01939475	-3.52551348	
FAM43B	-0.42903126	0.01942069	-3.52243712	
HBD	-0.42909765	0.01942069	-3.52310516	
HOXD9	-0.42925559	0.01942069	-3.52469481	
TGM6	-0.42911909	0.01942069	-3.52332093	
IL10	-0.42898741	0.01942069	-3.52199588	
KRTAP10-2	-0.42892371	0.01942069	-3.52135498	
C1QL3	-0.42890426	0.01942069	-3.52115930	
AVPR1A	-0.42911590	0.01942069	-3.52328883	
CCL3	-0.42889109	0.01942069	-3.52102687	
DLGAP2	-0.42902838	0.01942069	-3.52240819	
ProSAPiP1	-0.42907754	0.01942069	-3.52290285	yes
OR10A5	-0.42859814	0.01942724	-3.51808043	
CTNNA3	-0.42863580	0.01942724	-3.51845911	
MAZ	-0.42870616	0.01942724	-3.51916667	
ATP8A2	-0.42868555	0.01942724	-3.51895939	
PLA2G2F	-0.42884211	0.01942724	-3.52053410	
SHB	-0.42879791	0.01942724	-3.52008950	
SOD3	-0.42859016	0.01942724	-3.51800019	
ZNF136	0.42876478	0.01942724	3.51975633	
ECHDC1	0.42850514	0.01945661	3.51714531	yes
BTBD1	0.42846809	0.01945721	3.51677279	yes

ABCA13	0.42825803	0.01945798	3.51466139	
BHLHE22	-0.42829810	0.01945798	-3.51506407	
HMHMB1	-0.42834494	0.01945798	-3.51553486	
GFRA4	-0.42830000	0.01945798	-3.51508321	
DPEP3	-0.42825122	0.01945798	-3.51459294	
PSD2	-0.42832422	0.01945798	-3.51532663	
C10orf104	0.42817050	0.01948495	3.51378174	
SIX5	-0.42811190	0.01949510	-3.51319293	
SHANK1	-0.42808209	0.01949510	-3.51289335	
ICK	0.42799599	0.01952540	3.51202833	
RALGPS2	0.42790598	0.01953665	3.51112420	yes
TACR2	-0.42793544	0.01953665	-3.51142015	
GSC2	-0.42782361	0.01956482	-3.51029683	
C19orf20	-0.42775196	0.01958656	-3.50957733	
hCG_1644301	-0.42760416	0.01959235	-3.50809330	
IMPA2	0.42766663	0.01959235	3.50872043	
FAM69A	0.42756498	0.01959235	3.50769990	
TOX2	-0.42766773	0.01959235	-3.50873154	
RQCD1	0.42757111	0.01959235	3.50776145	yes
KCNK18	-0.42745537	0.01963716	-3.50659958	
TXNDC12	0.42737836	0.01964100	3.50582663	
AIG1	0.42738898	0.01964100	3.50593329	yes
NDUFA4L2	-0.42731227	0.01965961	-3.50516346	
C1QL1	-0.42723763	0.01966214	-3.50441447	
C13orf28	-0.42724253	0.01966214	-3.50446363	
PRSS23	0.42714288	0.01967691	3.50346377	
C16orf59	-0.42716272	0.01967691	-3.50366279	
TSPAN10	-0.42710657	0.01967763	-3.50309954	
NKPD1	-0.42691624	0.01968687	-3.50119038	
APLP1	-0.42700875	0.01968687	-3.50211827	
ARHGDIG	-0.42692471	0.01968687	-3.50127530	
DHH	-0.42692702	0.01968687	-3.50129853	yes
JAGN1	0.42696996	0.01968687	3.50172920	
PSME3	0.42677993	0.01970603	3.49982353	
WDR3	0.42680801	0.01970603	3.50010508	
BPI	-0.42678449	0.01970603	-3.49986925	
LOC100129572	-0.42661895	0.01970886	-3.49820962	
C10orf129	-0.42672416	0.01970886	-3.49926437	
GAP43	-0.42658067	0.01970886	-3.49782591	
ZC3H12B	-0.42668226	0.01970886	-3.49884425	
KCNK1	0.42663358	0.01970886	3.49835622	
NR2E1	-0.42656687	0.01970886	-3.49768756	
LOC729135	-0.42652937	0.01971060	-3.49731168	
OR10P1	-0.42641976	0.01975379	-3.49621312	
ST8SIA4	0.42638889	0.01975379	3.49590378	
HMGB1L10	0.42634045	0.01976222	3.49541841	
PRH2	-0.42629700	0.01976765	-3.49498306	
PRPS2	0.42619854	0.01980647	3.49399662	
MYL12B	0.42591196	0.01983638	3.49112644	
SACM1L	0.42604727	0.01983638	3.49248148	

C8orf46	-0.42580637	0.01983638	-3.49006921	
COL24A1	-0.42583341	0.01983638	-3.49033988	
GLI4	-0.42607094	0.01983638	-3.49271852	
HAS1	-0.42582940	0.01983638	-3.49029981	yes
OR14I1	-0.42582014	0.01983638	-3.49020702	
LOC442668	-0.42591669	0.01983638	-3.49117375	
DSCR6	-0.42593616	0.01983638	-3.49136873	yes
FBLIM1	-0.42593731	0.01983638	-3.49138022	
TCL6	-0.42544632	0.01996098	-3.48646558	
LOC439951	-0.42551212	0.01996098	-3.48712400	
DNM1P33	-0.42543118	0.01996098	-3.48631406	
LRFN1	-0.42547101	0.01996098	-3.48671261	
ZNF28	0.42539745	0.01996098	3.48597656	
PARP8	0.42554423	0.01996098	3.48744528	
SAMD12	0.42534729	0.01997087	3.48547473	
SLC30A6	0.42517191	0.02005741	3.48372037	
DPY30	0.42512962	0.02006254	3.48329748	yes
API5	0.42507430	0.02007570	3.48274424	
SNORD59B	0.42499272	0.02010499	3.48192842	
PPAPDC1A	-0.42489641	0.02012786	-3.48096550	
ICAM5	-0.42488790	0.02012786	-3.48088041	
SS18	0.42472109	0.02020976	3.47921304	yes
DEFA5	-0.42461809	0.02025251	-3.47818361	
AP3S2	0.42380617	0.02028209	3.47007515	
PTGES3	0.42368133	0.02028209	3.46882934	
RP11-431O22.2	-0.42450142	0.02028209	-3.47701789	
TRYX3	-0.42372433	0.02028209	-3.46925842	
C6orf221	-0.42381943	0.02028209	-3.47020748	
DRP2	-0.42390740	0.02028209	-3.47108562	
OR9Q2	-0.42408245	0.02028209	-3.47283315	
AVL9	0.42390089	0.02028209	3.47102060	
FRZB	-0.42386614	0.02028209	-3.47067375	
FAM19A5	-0.42430620	0.02028209	-3.47506764	
IL1F5	-0.42390361	0.02028209	-3.47104771	
LOC284297	-0.42443930	0.02028209	-3.47639727	
KLHL38	-0.42421999	0.02028209	-3.47420663	
QRFP	-0.42417137	0.02028209	-3.47372111	
ENHO	-0.42431365	0.02028209	-3.47514206	
C13orf36	-0.42430204	0.02028209	-3.47502611	
GTF2H5	0.42392116	0.02028209	3.47122295	
FAM108B1	0.42439975	0.02028209	3.47600209	
ADAMTSL4	-0.42402904	0.02028209	-3.47229991	
GJC2	-0.42367068	0.02028209	-3.46872308	
DMRTB1	-0.42369920	0.02028209	-3.46900762	
EPC1	0.42400402	0.02028209	3.47205013	
SGPL1	0.42378181	0.02028209	3.46983206	
MED20	0.42367205	0.02028209	3.46873673	
ADAMTS2	-0.42430031	0.02028209	-3.47500879	
SART3	0.42405449	0.02028209	3.47255405	
NUPL1	0.42407871	0.02028209	3.47279579	yes

MYADML	-0.42354713	0.02031777	-3.46749029	
GRM1	-0.42355567	0.02031777	-3.46757558	
KIAA1191	0.42324976	0.02046971	3.46452432	
ISL2	-0.42323629	0.02046971	-3.46438999	
IL31	-0.42303827	0.02057266	-3.46241574	
LOC100129858	-0.42144455	0.02058947	-3.44654802	
LOC100129890	-0.42202443	0.02058947	-3.45231703	
LOC100131763	-0.42112814	0.02058947	-3.44340234	
LOC100133131	-0.42281150	0.02058947	-3.46015547	
CDK7	0.42286840	0.02058947	3.46072253	
CHRM2	-0.42105495	0.02058947	-3.44267491	
FAM24A	-0.42232306	0.02058947	-3.45528993	
WFIKK2	-0.42162680	0.02058947	-3.44836059	
OSCAR	-0.42178010	0.02058947	-3.44988565	
UROC1	-0.42169855	0.02058947	-3.44907428	
OR2A14	-0.42201593	0.02058947	-3.45223239	
LDLRAD3	-0.42190869	0.02058947	-3.45116513	
MESP2	-0.42172781	0.02058947	-3.44936538	
ARL6IP6	0.42232487	0.02058947	3.45530796	
CCDC140	-0.42240338	0.02058947	-3.45608980	
GDF7	-0.42225959	0.02058947	-3.45465802	
FLJ36031	-0.42237396	0.02058947	-3.45579680	
FAM9A	-0.42137338	0.02058947	-3.44584033	
DYNC111	-0.42164328	0.02058947	-3.44852450	
EDN1	-0.42115243	0.02058947	-3.44364372	yes
METTL7B	-0.42269188	0.02058947	-3.45896361	yes
GGN	-0.42115969	0.02058947	-3.44371592	
SLFNL1	-0.42176072	0.02058947	-3.44969280	
RANBP3L	-0.42285944	0.02058947	-3.46063325	
OR8J1	-0.42163237	0.02058947	-3.44841594	
FGL1	-0.42182535	0.02058947	-3.45033585	
RPIA	0.42277434	0.02058947	3.45978525	
FOXD2	-0.42178274	0.02058947	-3.44991194	
FBXO8	0.42110309	0.02058947	3.44315339	
GATA6	-0.42175773	0.02058947	-3.44966309	
GPR27	-0.42207845	0.02058947	-3.45285466	
TBK1	0.42099335	0.02058947	3.44206272	
GUCA2A	-0.42212304	0.02058947	-3.45329853	
ZAR1	-0.42148048	0.02058947	-3.44690526	
KLK3	-0.42155597	0.02058947	-3.44765609	
KRTAP10-1	-0.42239303	0.02058947	-3.45598670	
SPDYC	-0.42176890	0.02058947	-3.44977424	
RPL7P48	-0.42229774	0.02058947	-3.45503789	
FLJ44817	-0.42110055	0.02058947	-3.44312806	
C5orf40	-0.42276196	0.02058947	-3.45966185	
ART1	-0.42172980	0.02058947	-3.44938518	
ATIC	0.42125946	0.02058947	3.44470772	
TMED7	0.42107541	0.02058947	3.44287826	
APTX	0.42208361	0.02058947	3.45290602	yes
WDR70	0.42155263	0.02058947	3.44762284	

ANO1	-0.42199572	0.02058947	-3.45203121	
PSMA1	0.42161566	0.02058947	3.44824981	
MEIS3	-0.42134232	0.02058947	-3.44553153	
PSMC5	0.42186575	0.02058947	3.45073787	
KIAA1239	-0.42096926	0.02058947	-3.44182339	
SNORA3	-0.42173196	0.02058947	-3.44940670	
RTN2	-0.42098557	0.02058947	-3.44198544	
CARD9	-0.42207361	0.02058947	-3.45280655	
LCAP	-0.42203135	0.02058947	-3.45238583	
FABP12	-0.42253626	0.02058947	-3.45741325	
ST6GAL1	0.42170095	0.02058947	3.44909816	
SMO	-0.42099077	0.02058947	-3.44203708	
VIPR2	-0.42130644	0.02058947	-3.44517480	
FRMD1	-0.42125121	0.02058947	-3.44462568	
CALN1	-0.42194136	0.02058947	-3.45149022	
SCARF1	-0.42293358	0.02058947	-3.46137217	
MCART1	-0.42255473	0.02058947	-3.45759727	
STXBP5L	-0.42281096	0.02058947	-3.46015018	
SETDB1	0.42107258	0.02058947	3.44285016	
ANGPT4	-0.42091412	0.02060446	-3.44127544	
DENND1B	0.42085802	0.02060957	3.44071811	
ELOVL5	0.42081297	0.02060957	3.44027046	
AMMECR1L	0.42081583	0.02060957	3.44029894	
FAM175B	0.42066060	0.02066589	3.43875695	
TULP1	-0.42066215	0.02066589	-3.43877239	
NPAS1	-0.42062245	0.02067042	-3.43837807	
CHRNA3	-0.42043950	0.02072602	-3.43656133	
COL5A1	-0.42028930	0.02072602	-3.43507020	yes
ANKRD1	-0.42040978	0.02072602	-3.43626619	
GPD1	-0.42043923	0.02072602	-3.43655858	yes
RAX	-0.42037776	0.02072602	-3.43594831	
ESSPL	-0.42024687	0.02072602	-3.43464904	
GALNTL6	-0.42022581	0.02072602	-3.43443992	
PSMB1	0.42042144	0.02072602	3.43638201	
RHO	-0.42025924	0.02072602	-3.43477176	
MGC13057	-0.42033037	0.02072602	-3.43547790	
RPS7P4	-0.42006259	0.02077063	-3.43282013	
EFHA1	0.42007873	0.02077063	3.43298022	
TPT1	0.42007524	0.02077063	3.43294562	
RPSA	0.41998177	0.02078299	3.43201815	
OR14J1	-0.42000885	0.02078299	-3.43228687	
LASS1	-0.41958177	0.02082605	-3.42805063	
LILRA3	-0.41942935	0.02082605	-3.42653943	
CHRM4	-0.41939786	0.02082605	-3.42622729	
ABHD3	0.41973805	0.02082605	3.42960048	
ITGB3BP	0.41961833	0.02082605	3.42841313	
GLI1	-0.41985604	0.02082605	-3.43077080	yes
GPR3	-0.41939812	0.02082605	-3.42622984	
HSD3B1	-0.41981014	0.02082605	-3.43031546	
LYN	0.41945761	0.02082605	3.42681957	

TMEM89	-0.41942885	0.02082605	-3.42653443	
PDE3A	-0.41983205	0.02082605	-3.43053288	
FBXO34	0.41969177	0.02082605	3.42914150	
PDIA2	-0.41955382	0.02082605	-3.42777351	
ZNF205	-0.41950758	0.02082605	-3.42731504	
MCEE	0.41963590	0.02082605	3.42858741	
XPR1	0.41966926	0.02082605	3.42891822	
TM9SF2	0.41956533	0.02082605	3.42788760	
PRDX3	0.41904448	0.02087310	3.42272511	
RDH10	0.41910488	0.02087310	3.42332359	
PLAC9	-0.41920602	0.02087310	-3.42432581	yes
IBSP	-0.41925301	0.02087310	-3.42479146	
TRIM67	-0.41917060	0.02087310	-3.42397484	
SYNJ2BP	0.41910932	0.02087310	3.42336758	
GRK1	-0.41918259	0.02087310	-3.42409366	
hCG_2039146	-0.41913704	0.02087310	-3.42364220	
CASP8	0.41902295	0.02087310	3.42251178	
HTRA3	-0.41902830	0.02087310	-3.42256484	
FRMD5	-0.41897928	0.02088176	-3.42207918	
MOGAT1	-0.41871337	0.02089377	-3.41944544	
DOPEY1	0.41857428	0.02089377	3.41806820	yes
OR2L2	-0.41874237	0.02089377	-3.41973263	
TESSP2	-0.41867140	0.02089377	-3.41902979	
IGFBPL1	-0.41879126	0.02089377	-3.42021679	
KRTAP10-7	-0.41858051	0.02089377	-3.41812991	
NGF	-0.41869028	0.02089377	-3.41921677	
TBX22	-0.41870211	0.02089377	-3.41933387	
PCSK1	-0.41872223	0.02089377	-3.41953314	
PSMD11	0.41859593	0.02089377	3.41828253	
S100A1	-0.41865135	0.02089377	-3.41883133	
SLC34A1	-0.41879462	0.02089377	-3.42025011	
HSPB3	-0.41878606	0.02089377	-3.42016524	
GDAP1L1	-0.41851566	0.02091200	-3.41748781	
TAF13	0.41846879	0.02092288	3.41702382	
TRIM17	-0.41842640	0.02093097	-3.41660428	
GTF2E1	0.41833398	0.02095200	3.41568948	
IMPA1	0.41833566	0.02095200	3.41570616	yes
FAM19A4	-0.41829076	0.02096066	-3.41526179	
YTHDF3	0.41807299	0.02105118	3.41310703	
GRIK5	-0.41809894	0.02105118	-3.41336375	
TMEM159	0.41805859	0.02105118	3.41296458	
CSNK1A1	0.41799475	0.02105446	3.41233300	yes
PRRT1	-0.41800971	0.02105446	-3.41248105	
VRK2	0.41791073	0.02108894	3.41150194	yes
LAG3	-0.41781543	0.02112345	-3.41055947	
ZDHHC13	0.41779750	0.02112345	3.41038216	yes
LIP1	-0.41774222	0.02113990	-3.40983546	
ZCCHC5	-0.41762129	0.02117735	-3.40863982	
EXTL1	-0.41762562	0.02117735	-3.40868269	
TMEM215	-0.41759541	0.02117735	-3.40838401	

PSRC1	-0.41753943	0.02119433	-3.40783064	
DPYSL4	-0.41743853	0.02121792	-3.40683331	
C1orf65	-0.41740713	0.02121792	-3.40652299	
UPK3A	-0.41738582	0.02121792	-3.40631235	
KCNH6	-0.41741719	0.02121792	-3.40662232	
SYDE1	-0.41734783	0.02122359	-3.40593695	yes
CARKD	0.41724985	0.02126730	3.40496875	
CPLX1	-0.41717868	0.02127195	-3.40426560	
ZNF385C	-0.41715561	0.02127195	-3.40403759	
EVX1	-0.41720603	0.02127195	-3.40453577	
LRRC9	-0.41712324	0.02127414	-3.40371787	
C1orf161	-0.41691538	0.02127470	-3.40166472	
CSN1S1	-0.41688454	0.02127470	-3.40136022	
RNF149	0.41692687	0.02127470	3.40177825	
TLX2	-0.41689303	0.02127470	-3.40144405	
KRTDAP	-0.41686302	0.02127470	-3.40114769	
FXYD3	0.41706037	0.02127470	3.40309676	
C1orf56	-0.41702275	0.02127470	-3.40272517	
NECAB1	-0.41690300	0.02127470	-3.40154247	
HTR3B	-0.41694129	0.02127470	-3.40192069	
ARPM1	-0.41681525	0.02128679	-3.40067599	
GPC2	-0.41673169	0.02130342	-3.39985095	
MRPS35	0.41675140	0.02130342	3.40004553	
RAPGEF3	-0.41655033	0.02134804	-3.39806067	yes
ZDHHC8P	-0.41652403	0.02134804	-3.39780108	
PNPLA5	-0.41644689	0.02134804	-3.39703974	
FAAH2	0.41647791	0.02134804	3.39734584	
QPRT	-0.41643284	0.02134804	-3.39690111	
PLSCR1	0.41648289	0.02134804	3.39739501	
IL20RA	0.41652701	0.02134804	3.39783048	
JHDM1D	0.41659521	0.02134804	3.39850365	yes
F7	-0.41637338	0.02136774	-3.39631428	
DLGAP4	-0.41617221	0.02138729	-3.39432960	
EGLN1	-0.41620606	0.02138729	-3.39466352	
PPM2C	0.41623057	0.02138729	3.39490530	
SLC6A2	-0.41618461	0.02138729	-3.39445189	
NRSN2	-0.41628364	0.02138729	-3.39542884	
CHST1	-0.41620358	0.02138729	-3.39463898	
CHL1	0.41601609	0.02146867	3.39278971	
SLC17A2	-0.41522677	0.02150550	-3.38500985	
C3orf24	-0.41511398	0.02150550	-3.38389890	
CNGA2	-0.41520359	0.02150550	-3.38478143	
RLBP1L2	-0.41557228	0.02150550	-3.38841411	
IRX2	-0.41535230	0.02150550	-3.38624645	
ADAMTS16	-0.41583784	0.02150550	-3.39103194	
LRRC55	-0.41550047	0.02150550	-3.38770642	
EFR3A	0.41569248	0.02150550	3.38959891	
KIAA1024	-0.41509019	0.02150550	-3.38366458	
LYSMD2	-0.41514482	0.02150550	-3.38420259	
FBXO10	-0.41588715	0.02150550	-3.39151813	yes

TCEAL5	-0.41579823	0.02150550	-3.39064139	
ITGAD	-0.41529170	0.02150550	-3.38564946	
MYO1B	0.41544611	0.02150550	3.38717076	
NTRK3	-0.41592269	0.02150550	-3.39186860	
KCNK4	-0.41511339	0.02150550	-3.38389303	
FAM135B	-0.41513036	0.02150550	-3.38406020	
IRAK4	0.41509550	0.02150550	3.38371688	
SNX7	0.41565129	0.02150550	3.38919288	
PDE4C	-0.41517274	0.02150550	-3.38447763	
PCDHA3	-0.41570000	0.02150550	-3.38967302	
WDR45L	0.41547465	0.02150550	3.38745198	yes
MANBAL	0.41511293	0.02150550	3.38388854	
DCLRE1C	0.41545312	0.02150550	3.38723983	
TPTE	-0.41510104	0.02150550	-3.38377141	
SF3A2	-0.41520131	0.02150550	-3.38475898	
C2orf16	-0.41574250	0.02150550	-3.39009202	
C3orf39	-0.41566623	0.02150550	-3.38934012	
CCKBR	-0.41571347	0.02150550	-3.38980588	
OTOP2	-0.41545220	0.02150550	-3.38723081	
EFTUD2	0.41536514	0.02150550	3.38637296	
COX6B2	-0.41499173	0.02150612	-3.38269494	
KLF17	-0.41492734	0.02150612	-3.38206087	
OR4C6	-0.41492348	0.02150612	-3.38202292	
ZDHHC22	-0.41493416	0.02150612	-3.38212810	
SPATC1	-0.41506098	0.02150612	-3.38337690	
HES7	-0.41492726	0.02150612	-3.38206010	
DPF1	-0.41481593	0.02155712	-3.38096407	
ADCY8	-0.41467748	0.02160119	-3.37960117	
CTNNA1	0.41463687	0.02160119	3.37920154	
TMEM9B	0.41465138	0.02160119	3.37934434	
ANKRD55	-0.41463880	0.02160119	-3.37922054	
C5orf50	-0.41456645	0.02162866	-3.37850846	
LOC152118	-0.41420414	0.02166713	-3.37494403	
NKX2-3	-0.41412690	0.02166713	-3.37418437	
THAP8	-0.41439418	0.02166713	-3.37681346	
MYT1L	-0.41440760	0.02166713	-3.37694550	
KIAA0746	0.41421414	0.02166713	3.37504243	
BCL2L13	0.41415382	0.02166713	3.37444920	
TBX21	-0.41424355	0.02166713	-3.37533171	
LBXCOR1	-0.41424960	0.02166713	-3.37539119	
FLJ46300	-0.41412381	0.02166713	-3.37415404	
ATP1B1	0.41416016	0.02166713	3.37451154	
ATP4A	-0.41441653	0.02166713	-3.37703337	
PHAX	0.41439525	0.02166713	3.37682397	
SNIP1	-0.41418079	0.02166713	-3.37471440	
CUL4A	0.41421511	0.02166713	3.37505200	
WFIKKN1	-0.41394241	0.02170747	-3.37237033	
SERPINA3	-0.41389804	0.02170747	-3.37193414	yes
BHLHE23	-0.41396920	0.02170747	-3.37263372	
C14orf119	0.41390778	0.02170747	3.37202986	

TSN	0.41392365	0.02170747	3.37218586	
DUSP27	-0.41391812	0.02170747	-3.37213154	
ZNF365	-0.41366465	0.02171736	-3.36964008	
C15orf2	-0.41361701	0.02171736	-3.36917191	
GUCY2D	-0.41369061	0.02171736	-3.36989525	
HTR5A	-0.41376661	0.02171736	-3.37064222	
FREM2	0.41366650	0.02171736	3.36965825	
FOLR4	-0.41378875	0.02171736	-3.37085976	
FLJ43752	-0.41361282	0.02171736	-3.36913073	
LOC401875	-0.41382142	0.02171736	-3.37118088	
SLC17A7	-0.41364891	0.02171736	-3.36948544	yes
TBX1	-0.41361991	0.02171736	-3.36920043	
LOC151174	-0.41358133	0.02172031	-3.36882134	
NDUFS3	0.41355410	0.02172055	3.36855379	
RALYL	-0.41351907	0.02172235	-3.36820960	
GDF6	-0.41349763	0.02172235	-3.36799891	
RNF114	0.41346401	0.02172672	3.36766863	
ILDR1	0.41342823	0.02173023	3.36731712	
C14orf101	0.41340498	0.02173023	3.36708871	
SHE	-0.41331041	0.02177372	-3.36615974	
KIAA1919	0.41320891	0.02182174	3.36516285	
ADAD2	-0.41309730	0.02183980	-3.36406678	yes
RARS2	0.41314941	0.02183980	3.36457849	
SLC17A1	-0.41308661	0.02183980	-3.36396186	
VDAC3	0.41304742	0.02183980	3.36357704	yes
VASH2	-0.41305665	0.02183980	-3.36366765	
CACNA2D2	-0.41300117	0.02185242	-3.36312297	
GAL	-0.41294366	0.02186930	-3.36255835	
TMPRSS5	-0.41292175	0.02186930	-3.36234328	
NHLH1	-0.41289363	0.02187029	-3.36206728	
NES	-0.41283204	0.02189285	-3.36146269	yes
SNORD116-29	-0.41272578	0.02191326	-3.36041980	
ANKRD2	-0.41272981	0.02191326	-3.36045938	
RGS6	-0.41272080	0.02191326	-3.36037097	
MYL9	-0.41266007	0.02193349	-3.35977498	
SEL1L2	-0.41263648	0.02193349	-3.35954349	
RAMP1	-0.41260567	0.02193630	-3.35924117	yes
DKFZp564N2472	-0.41252457	0.02195453	-3.35844546	
IFNAR1	0.41254468	0.02195453	3.35864279	
ASCL4	-0.41239676	0.02196893	-3.35719173	
SIRPD	-0.41240164	0.02196893	-3.35723958	
AMTN	-0.41244279	0.02196893	-3.35764324	
TLN2	-0.41240706	0.02196893	-3.35729278	yes
GPHB5	-0.41232207	0.02199345	-3.35645914	
CELSR3	-0.41230617	0.02199345	-3.35630315	
ABI1	0.41224386	0.02199917	3.35569208	yes
SC4MOL	0.41221848	0.02199917	3.35544317	
SPTB	-0.41221894	0.02199917	-3.35544771	yes
GPT	-0.41206124	0.02208396	-3.35390145	
COG5	0.41200663	0.02209171	3.35336607	

GYPB	-0.41199683	0.02209171	-3.35327000	
UROS	0.41196653	0.02209437	3.35297297	
NTRK2	-0.41190688	0.02211608	-3.35238831	
LRRK8B	0.41187385	0.02212054	3.35206459	yes
ATP6AP2	0.41182098	0.02213789	3.35154640	
FAM47A	-0.41165454	0.02219516	-3.34991534	
GDF2	-0.41165820	0.02219516	-3.34995127	
LIPA	0.41170625	0.02219516	3.35042206	
FBRSL1	-0.41162825	0.02219529	-3.34965782	yes
LOC100130557	-0.41153374	0.02220713	-3.34873185	
LOC390282	-0.41152131	0.02220713	-3.34861011	
NEUROD1	-0.41152268	0.02220713	-3.34862354	
ACN9	0.41150043	0.02220713	3.34840553	
SALL2	-0.41147990	0.02220713	-3.34820448	
ETF1	0.41144306	0.02221420	3.34784361	
TUBGCP3	0.41133746	0.02224762	3.34680937	
KCNK15	-0.41131391	0.02224762	-3.34657867	
ADAM17	0.41132626	0.02224762	3.34669970	
PHOX2A	-0.41127506	0.02225164	-3.34619828	
MGC50273	-0.41125591	0.02225164	-3.34601076	
SCAND3	-0.41108319	0.02228548	-3.34431966	
TRIM71	-0.41110109	0.02228548	-3.34449484	
KLHL34	-0.41107479	0.02228548	-3.34423744	yes
CHMP2B	0.41114431	0.02228548	3.34491800	yes
ASCL5	-0.41111722	0.02228548	-3.34465283	
CCDC85A	-0.41090314	0.02230908	-3.34255719	
OR52E2	-0.41100267	0.02230908	-3.34353143	
OR52J3	-0.41093376	0.02230908	-3.34285690	
PDHA2	-0.41088410	0.02230908	-3.34237083	
SOX2	0.41089080	0.02230908	3.34243648	
OLFM2	-0.41092568	0.02230908	-3.34277779	
FIGN	-0.41084407	0.02231843	-3.34197916	
P2RX3	-0.41078491	0.02234030	-3.34140019	
PRKAG3	-0.41071897	0.02234986	-3.34075493	
ADAMTSL2	-0.41072518	0.02234986	-3.34081578	
LRRN2	-0.41052510	0.02239872	-3.33885832	
DLAT	0.41060782	0.02239872	3.33966748	yes
RNF215	-0.41041416	0.02239872	-3.33777327	
IFNA8	-0.41046070	0.02239872	-3.33822838	
KRTAP26-1	-0.41050077	0.02239872	-3.33862036	
RGS7	-0.41047585	0.02239872	-3.33837658	
RPS6KA3	0.41054467	0.02239872	3.33904973	
TRIM46	-0.41043728	0.02239872	-3.33799932	
RNF34	0.41050413	0.02239872	3.33865322	
NUPL2	0.41033838	0.02240438	3.33703219	
ASB13	0.41032910	0.02240438	3.33694145	
MIXL1	-0.41037251	0.02240438	-3.33736587	
APC2	-0.40993939	0.02248132	-3.33313156	
UBE2E3	-0.40992411	0.02248132	-3.33298230	
DLL3	-0.40989214	0.02248132	-3.33266984	

LDB3	-0.40992214	0.02248132	-3.33296300	
SCRG1	-0.40988227	0.02248132	-3.33257339	
LMTK3	-0.40994353	0.02248132	-3.33317210	
DPEP1	-0.40996319	0.02248132	-3.33336417	
PSD3	0.40993405	0.02248132	3.33307942	yes
IRX4	-0.41006310	0.02248132	-3.33434078	
UBR7	0.41000556	0.02248132	3.33377837	
CXCL5	-0.40989756	0.02248132	-3.33272285	
TAF7	0.40996465	0.02248132	3.33337845	
CCK	-0.40994030	0.02248132	-3.33314052	
MYBPH	-0.40985681	0.02248148	-3.33232461	
FOXP4	-0.40977865	0.02250798	-3.33156085	
COCH	-0.40970545	0.02250798	-3.33084566	
MYH15	-0.40963174	0.02250798	-3.33012561	
NALCN	-0.40969947	0.02250798	-3.33078723	
MAP3K10	-0.40967033	0.02250798	-3.33050253	
HCFC1R1	-0.40973260	0.02250798	-3.33111089	
TRPM8	-0.40961519	0.02250798	-3.32996390	
ZNF239	-0.40963888	0.02250798	-3.33019532	
HPD	-0.40954450	0.02253791	-3.32927344	
MRPL44	0.40951899	0.02253821	3.32902420	
RNF157	-0.40918585	0.02254397	-3.32577117	
GALNTL2	-0.40928626	0.02254397	-3.32675157	
C16orf63	0.40920395	0.02254397	3.32594788	
HFE2	-0.40932350	0.02254397	-3.32711519	
EPO	-0.40920832	0.02254397	-3.32599061	
AGFG2	-0.40939256	0.02254397	-3.32778945	
SLC10A5	0.40938025	0.02254397	3.32766929	
ATOH1	-0.40939277	0.02254397	-3.32779156	
C21orf91	0.40926879	0.02254397	3.32658094	
PRHOXNB	-0.40927033	0.02254397	-3.32659598	
SLC22A1	-0.40923122	0.02254397	-3.32621416	
PPP1R3F	-0.40931746	0.02254397	-3.32705612	
TM4SF5	-0.40936776	0.02254397	-3.32754732	
ASTE1	0.40914933	0.02255163	3.32541475	
KLK2	-0.40910527	0.02256346	-3.32498467	
POU4F1	-0.40908168	0.02256346	-3.32475433	
ARSF	-0.40896570	0.02260708	-3.32362240	
C4orf35	-0.40896766	0.02260708	-3.32364150	
UBE3C	0.40889244	0.02263898	3.32290750	
SLC9A8	0.40880242	0.02264939	3.32202908	
PANK1	-0.40880396	0.02264939	-3.32204416	
SFRP1	-0.40882339	0.02264939	-3.32223374	
TGM7	-0.40874414	0.02265523	-3.32146052	
SCN1B	-0.40876225	0.02265523	-3.32163718	
SMOC1	-0.40869033	0.02267442	-3.32093556	
CCT8	0.40846952	0.02269149	3.31878183	
CHRM1	-0.40851492	0.02269149	-3.31922464	
C20orf94	0.40861975	0.02269149	3.32024704	
C11orf40	-0.40836950	0.02269149	-3.31780654	

MAGEB6	-0.40843086	0.02269149	-3.31840484	
ARX	-0.40843478	0.02269149	-3.31844315	
SLC4A1AP	0.40857231	0.02269149	3.31978437	
TMEM2	0.40840685	0.02269149	3.31817075	
C1orf144	0.40856350	0.02269149	3.31969846	
NPBWR2	-0.40841082	0.02269149	-3.31820942	
ITIH4	-0.40837903	0.02269149	-3.31789943	
MPV17	0.40848745	0.02269149	3.31895671	
PROCR	-0.40829547	0.02272415	-3.31708472	
MTPN	0.40820434	0.02275200	3.31619635	
SYCN	-0.40822476	0.02275200	-3.31639542	
LGALS3	0.40815363	0.02276935	3.31570203	yes
DIRC1	-0.40812476	0.02277229	-3.31542063	
GOSR1	0.40808020	0.02278561	3.31498630	
ARL6IP1	0.40795631	0.02279940	3.31377891	
PPCS	0.40802426	0.02279940	3.31444112	
ABHD1	-0.40794005	0.02279940	-3.31362050	
VAPA	0.40793751	0.02279940	3.31359572	yes
CER1	-0.40799481	0.02279940	-3.31415406	
HES4	-0.40790742	0.02280159	-3.31330252	
NT5C1A	-0.40788558	0.02280159	-3.31308970	
TTYH1	-0.40784988	0.02280913	-3.31274191	yes
ARPC4	0.40779106	0.02281593	3.31216884	
SEP4	-0.40781056	0.02281593	-3.31235882	yes
DAD1	0.40772226	0.02284541	3.31149856	
SIVA1	-0.40694423	0.02284680	-3.30392390	
PNMA2	-0.40692129	0.02284680	-3.30370069	
SUB1	0.40749303	0.02284680	3.30926596	
CHRNB4	-0.40715441	0.02284680	-3.30596932	
PKD1L2	-0.40756716	0.02284680	-3.30998788	
COL11A2	-0.40674338	0.02284680	-3.30196979	
OSR1	-0.40718329	0.02284680	-3.30625036	
XKR3	-0.40735861	0.02284680	-3.30795712	
PYDC2	-0.40692126	0.02284680	-3.30370036	
LOC153328	-0.40686703	0.02284680	-3.30317269	
UNQ9391	-0.40745660	0.02284680	-3.30891120	
P2RX2	-0.40670016	0.02284680	-3.30154942	
SLC16A8	-0.40728007	0.02284680	-3.30719249	
BRI3	-0.40751420	0.02284680	-3.30947215	
LATS2	-0.40675433	0.02284680	-3.30207636	
GNAT1	-0.40758376	0.02284680	-3.31014951	
SUMF1	0.40673315	0.02284680	3.30187036	
CD200R1L	-0.40728846	0.02284680	-3.30727414	
FAM101B	-0.40714902	0.02284680	-3.30591681	yes
YJEFN3	-0.40683798	0.02284680	-3.30289012	
KIF3C	-0.40716985	0.02284680	-3.30611952	
C17orf82	-0.40698113	0.02284680	-3.30428292	
NEFL	-0.40676928	0.02284680	-3.30222174	
OTX2	-0.40720963	0.02284680	-3.30650672	
C21orf45	0.40752908	0.02284680	3.30961705	

FLJ10404	-0.40729555	0.02284680	-3.30734314	yes
PPM1B	0.40670580	0.02284680	3.30160431	
MRPS10	0.40675755	0.02284680	3.30210764	yes
PAK7	-0.40727679	0.02284680	-3.30716052	
KCNT1	-0.40733297	0.02284680	-3.30770749	
NKX2-4	-0.40712422	0.02284680	-3.30567547	
SLC4A3	-0.40679788	0.02284680	-3.30249995	
TCEB1	0.40695542	0.02284680	3.30403270	
UBE2A	0.40669168	0.02284680	3.30146693	
RAB7A	0.40738241	0.02284680	3.30818883	
YIPF5	0.40699362	0.02284680	3.30440445	
SLCO5A1	-0.40709473	0.02284680	-3.30538839	
OR1A1	-0.40739972	0.02284680	-3.30835731	
NEURL3	-0.40712473	0.02284680	-3.30568035	
CNOT8	0.40719968	0.02284680	3.30640986	
CLINT1	0.40691182	0.02284680	3.30360852	
KIAA0427	-0.40673015	0.02284680	-3.30184110	yes
MFAP3L	-0.40709188	0.02284680	-3.30536070	
GCHFR	-0.40663461	0.02286890	-3.30091187	
PSMB11	-0.40650753	0.02292173	-3.29967598	
C7orf61	-0.40651389	0.02292173	-3.29973787	
LINS1	0.40647448	0.02292800	3.29935462	
PIWIL1	-0.40640870	0.02295596	-3.29871508	
ZNRF3	-0.40637493	0.02296274	-3.29838673	
VAX1	-0.40634524	0.02296368	-3.29809816	
MKRN2	0.40631673	0.02296368	3.29782095	
LCN10	-0.40630298	0.02296368	-3.29768730	yes
LOC100133367	-0.40609072	0.02296726	-3.29562420	
DNM1L	0.40604871	0.02296726	3.29521591	
CDO1	-0.40581774	0.02296726	-3.29297191	
CHRN2	-0.40576327	0.02296726	-3.29244274	
FAM55A	-0.40555318	0.02296726	-3.29040239	
C7orf31	-0.40577859	0.02296726	-3.29259159	
CD300LG	-0.40598524	0.02296726	-3.29459923	
PATE1	-0.40562317	0.02296726	-3.29108203	
GRASP	-0.40574518	0.02296726	-3.29226708	yes
DTX1	-0.40568744	0.02296726	-3.29170626	
FCN2	-0.40565139	0.02296726	-3.29135610	
KIAA0802	-0.40585716	0.02296726	-3.29335486	
STX12	0.40614142	0.02296726	3.29611696	
REXO2	0.40578394	0.02296726	3.29264356	
SULT1C4	-0.40587651	0.02296726	-3.29354278	
GRIK2	0.40579275	0.02296726	3.29272909	
HBQ1	-0.40589665	0.02296726	-3.29373851	
SMTNL2	-0.40609333	0.02296726	-3.29564957	
ZACN	-0.40593565	0.02296726	-3.29411734	
LPL	-0.40616492	0.02296726	-3.29634528	
CERCAM	-0.40557606	0.02296726	-3.29062455	
TBCCD1	0.40593046	0.02296726	3.29406698	
MRS2	0.40589200	0.02296726	3.29369333	

BAI1	-0.40560742	0.02296726	-3.29092913	
SCNN1D	-0.40560576	0.02296726	-3.29091302	
hCG_1757335	0.40615296	0.02296726	3.29622910	
ACTG1	0.40606740	0.02296726	3.29539762	
CALB1	-0.40584870	0.02296726	-3.29327266	
RPAIN	0.40623335	0.02296726	3.29701046	
LCOR	0.40556011	0.02296726	3.29046963	yes
DYNLL1	0.40613276	0.02296726	3.29603273	
POLR1C	0.40569023	0.02296726	3.29173329	yes
NDFIP2	0.40552250	0.02297231	3.29010451	
NOBOX	-0.40549929	0.02297244	-3.28987914	
TANK	0.40537908	0.02297595	3.28871198	
FBXL22	-0.40538026	0.02297595	-3.28872350	
LCE1D	-0.40541298	0.02297595	-3.28904107	
ARF4	0.40542255	0.02297595	3.28913405	
VGLL1	-0.40545267	0.02297595	-3.28942645	
CYGB	-0.40526987	0.02299150	-3.28765190	
GFAP	-0.40529424	0.02299150	-3.28788845	
IREB2	0.40529745	0.02299150	3.28791962	
HRH4	-0.40526387	0.02299150	-3.28759362	
LOC100129455	-0.40510450	0.02302130	-3.28604692	
CCNY	0.40513794	0.02302130	3.28637137	yes
C5orf46	-0.40512583	0.02302130	-3.28625387	
COLEC11	-0.40518101	0.02302130	-3.28678941	
SAMD1	-0.40515348	0.02302130	-3.28652223	
PRKAR1B	-0.40508092	0.02302180	-3.28581810	
PARP1	0.40502254	0.02302684	3.28525160	
SNCG	-0.40500491	0.02302684	-3.28508056	
RILP	-0.40504010	0.02302684	-3.28542194	
PHF21B	-0.40484142	0.02306484	-3.28349440	
TMCO2	-0.40486251	0.02306484	-3.28369899	
NCAN	-0.40483378	0.02306484	-3.28342032	
UBXN4	0.40490682	0.02306484	3.28412881	
OR51B6	-0.40486021	0.02306484	-3.28367670	
PLRG1	0.40478793	0.02307948	3.28297560	
STMN4	-0.40476628	0.02307948	-3.28276557	
MAPK8IP2	-0.40465296	0.02309449	-3.28166657	
C10orf28	0.40469689	0.02309449	3.28209253	
TMIGD1	-0.40466484	0.02309449	-3.28178173	
CORO6	-0.40465796	0.02309449	-3.28171504	
OR10H5	-0.40457317	0.02313241	-3.28089281	
CHD5	-0.40447194	0.02316960	-3.27991129	
CACNG1	-0.40448375	0.02316960	-3.28002573	
POLR3C	0.40441196	0.02317943	3.27932981	yes
MNAT1	0.40442993	0.02317943	3.27950402	
PRAMEF11	-0.40433467	0.02321582	-3.27858053	
TCP1	0.40423882	0.02326465	3.27765147	
MYLPF	-0.40410764	0.02333557	-3.27638022	
LOC729040	-0.40408750	0.02333557	-3.27618510	
CHRM5	-0.40406463	0.02333579	-3.27596344	

LOC389458	-0.40397879	0.02337815	-3.27513176	
EBF3	-0.40393588	0.02339181	-3.27471610	yes
OR51M1	-0.40388360	0.02341176	-3.27420965	
GTF2B	0.40380027	0.02342137	3.27340243	
ITIH2	-0.40382926	0.02342137	-3.27368322	
HES5	-0.40375692	0.02342137	-3.27298253	
C4orf49	-0.40376457	0.02342137	-3.27305670	
ZNF697	-0.40378985	0.02342137	-3.27330149	
FAM59B	-0.40369481	0.02342460	-3.27238101	
EDA	-0.40366244	0.02342460	-3.27206758	yes
GPR32	-0.40367500	0.02342460	-3.27218918	
PLEKHF2	0.40369288	0.02342460	3.27236240	
TPPP2	-0.40361918	0.02343860	-3.27164862	
DHRS9	0.40350434	0.02344784	3.27053675	yes
CKM	-0.40353023	0.02344784	-3.27078739	
KCNE1L	-0.40351914	0.02344784	-3.27068001	
STH	-0.40347869	0.02344784	-3.27028839	
PYDC1	-0.40346522	0.02344784	-3.27015801	
OR1L3	-0.40344907	0.02344784	-3.27000167	
MT3	-0.40353832	0.02344784	-3.27086573	
C15orf37	-0.40337764	0.02347249	-3.26931016	
VCPIP1	0.40336777	0.02347249	3.26921465	
FAM70B	-0.40330836	0.02348249	-3.26863961	yes
HDHD2	0.40332773	0.02348249	3.26882710	
KLF14	-0.40316456	0.02353431	-3.26724791	
OR10A4	-0.40317176	0.02353431	-3.26731761	
C3orf36	-0.40318263	0.02353431	-3.26742273	
CPLX2	-0.40308463	0.02354647	-3.26647450	
SLFN5	0.40306515	0.02354647	3.26628599	
HOXD3	-0.40302452	0.02354647	-3.26589291	
LOC647597	-0.40309591	0.02354647	-3.26658366	
FAM96A	0.40303094	0.02354647	3.26595501	
CBS	-0.40301345	0.02354647	-3.26578576	
SSBP1	0.40290039	0.02360767	3.26469208	
ZNF629	-0.40272680	0.02370995	-3.26301311	
HIPK4	-0.40269683	0.02371526	-3.26272325	
RP11-265F14.2	-0.40264264	0.02372202	-3.26219925	
ACTL6A	0.40264601	0.02372202	3.26223186	
C9orf40	-0.40258876	0.02374354	-3.26167828	
MRGPRX4	-0.40251623	0.02376278	-3.26097697	
GPR22	-0.40252828	0.02376278	-3.26109352	
AMZ1	-0.40239678	0.02377936	-3.25982231	
AZU1	-0.40238666	0.02377936	-3.25972450	
CYP26B1	-0.40242519	0.02377936	-3.26009692	
ZC3HAV1	0.40241329	0.02377936	3.25998192	
GAL3ST1	-0.40238163	0.02377936	-3.25967580	
SPRED3	-0.40226284	0.02384221	-3.25852769	
LOC653808	-0.40224503	0.02384221	-3.25835558	
WDR86	-0.40217034	0.02384525	-3.25763387	
KCNJ5	-0.40217147	0.02384525	-3.25764473	

POU3F2	-0.40215273	0.02384525	-3.25746368	
FAM58A	-0.40221453	0.02384525	-3.25806089	
ACTR2	0.40190596	0.02385763	3.25507963	
TRIM13	0.40174922	0.02385763	3.25356579	
TIMM17A	0.40167980	0.02385763	3.25289541	
LOC145814	-0.40195606	0.02385763	-3.25556356	
AP2B1	0.40171646	0.02385763	3.25324938	
MRPS27	0.40194889	0.02385763	3.25549424	
OR7C1	-0.40187808	0.02385763	-3.25481032	
FAM71E2	-0.40204160	0.02385763	-3.25638996	
TMPRSS9	-0.40208708	0.02385763	-3.25682936	
METTL10	0.40171606	0.02385763	3.25324550	
MED31	0.40184313	0.02385763	3.25447270	
OSGEP	0.40179574	0.02385763	3.25401506	
TMEM184C	0.40182244	0.02385763	3.25427291	
FNDC4	-0.40177200	0.02385763	-3.25378576	
SNX2	0.40191242	0.02385763	3.25514201	
ZIC2	-0.40170156	0.02385763	-3.25310547	
ATG10	0.40173062	0.02385763	3.25338617	
CUL2	0.40194104	0.02385763	3.25541848	
ATAD1	0.40167664	0.02385763	3.25286492	
ZBTB47	-0.40200844	0.02385763	-3.25606960	
PAGE4	-0.40208175	0.02385763	-3.25677781	
BBC3	-0.40163175	0.02386104	-3.25243147	
ZNF843	-0.40162828	0.02386104	-3.25239796	
GPRIN1	-0.40151274	0.02387846	-3.25128243	
ABRA	-0.40146159	0.02387846	-3.25078865	
DIS3	0.40146677	0.02387846	3.25083863	
ARL2BP	0.40145132	0.02387846	3.25068953	
KRT26	-0.40145699	0.02387846	-3.25074419	
NUP88	0.40150767	0.02387846	3.25123346	
THEG	-0.40156397	0.02387846	-3.25177702	
CNTFR	-0.40138149	0.02391124	-3.25001546	
BAIAP2L2	-0.40131218	0.02394370	-3.24934649	
C5orf28	0.40127866	0.02395185	3.24902297	
GPR64	-0.40122696	0.02395772	-3.24852406	
DAB2IP	-0.40124283	0.02395772	-3.24867724	
ASCC3	0.40119344	0.02396106	3.24820063	
HAPLN4	-0.40117903	0.02396106	-3.24806155	
RC3H1	0.40112898	0.02397222	3.24757861	yes
GNAO1	-0.40109819	0.02397222	-3.24728155	yes
LOC100133431	-0.40111832	0.02397222	-3.24747579	
CPNE6	-0.40102647	0.02400645	-3.24658966	
NANOS1	-0.40095627	0.02403969	-3.24591246	
PDZD8	0.40088947	0.02404775	3.24526811	
HOXC11	-0.40088587	0.02404775	-3.24523343	
MEF2B	-0.40088016	0.02404775	-3.24517826	
C20orf123	-0.40083644	0.02406298	-3.24475663	
hCG_1659830	-0.40076161	0.02409948	-3.24403494	
SCUBE2	-0.40073993	0.02409968	-3.24382588	

TNP1	-0.40070191	0.02411105	-3.24345932	
ZNF296	-0.40049215	0.02415957	-3.24143690	
GALR1	-0.40048166	0.02415957	-3.24133577	
GHSR	-0.40050684	0.02415957	-3.24157850	
XKRX	0.40059598	0.02415957	3.24243786	
NRD1	0.40048365	0.02415957	3.24135503	
QRSL1	0.40049972	0.02415957	3.24150986	yes
SPINK1	-0.40052089	0.02415957	-3.24171397	
GBX2	-0.40032519	0.02424800	-3.23982768	
MAGEB3	-0.40031012	0.02424800	-3.23968239	
INSM1	-0.40021778	0.02429195	-3.23879263	
PSMD13	0.40020362	0.02429195	3.23865615	
PUM2	0.40015599	0.02431009	3.23819720	
KCND1	-0.40009957	0.02431968	-3.23765358	
ATF1	0.40011286	0.02431968	3.23778163	
SPAG4L	-0.39996741	0.02437322	-3.23638046	
C14orf178	-0.39999067	0.02437322	-3.23660452	
CAPN2	0.39995821	0.02437322	3.23629178	
CCDC105	-0.39990273	0.02439189	-3.23575744	
VWA5B1	-0.39986662	0.02439189	-3.23540967	
XIRP2	-0.39985659	0.02439189	-3.23531304	
SLC35A5	0.39984641	0.02439189	3.23521503	
FLJ40292	-0.39981892	0.02439627	-3.23495026	
PRX	-0.39979266	0.02439980	-3.23469732	
GHITM	0.39975903	0.02440842	3.23437352	
SNORD115-38	-0.39938754	0.02442390	-3.23079715	
C20orf144	-0.39961999	0.02442390	-3.23303468	
CRP	-0.39937904	0.02442390	-3.23071535	
FAM119A	0.39940033	0.02442390	3.23092024	
DAND5	-0.39946862	0.02442390	-3.23157749	
C1orf43	0.39945679	0.02442390	3.23146368	
OR1L1	-0.39966656	0.02442390	-3.23348309	
HOXA13	-0.39948840	0.02442390	-3.23176797	
KCNJ1	-0.39944585	0.02442390	-3.23135834	
ROR1	-0.39962466	0.02442390	-3.23307970	
TMEM138	0.39940430	0.02442390	3.23095846	
PLIN	-0.39945107	0.02442390	-3.23140856	
PROP1	-0.39947707	0.02442390	-3.23165888	
RPS9	-0.39965489	0.02442390	-3.23337079	
LOC642648	-0.39951329	0.02442390	-3.23200747	
RPL36P8	-0.39954120	0.02442390	-3.23227619	
LOC643332	-0.39938770	0.02442390	-3.23079867	
SSX8	-0.39935567	0.02442558	-3.23049034	
LCMT1	0.39930818	0.02444285	3.23003333	
RNF2	0.39928329	0.02444285	3.22979386	yes
PGLYRP1	-0.39926789	0.02444285	-3.22964567	
KRT33B	-0.39918711	0.02448421	-3.22886833	
SERPINA10	-0.39910129	0.02448864	-3.22804262	
SOX11	-0.39910337	0.02448864	-3.22806260	
CASR	-0.39912665	0.02448864	-3.22828661	

TBPL1	0.39909723	0.02448864	3.22800358	
ABCC12	-0.39907534	0.02448937	-3.22779301	
PCP2	-0.39901499	0.02450229	-3.22721241	yes
ZNF774	-0.39901860	0.02450229	-3.22724718	
C16orf82	-0.39899088	0.02450457	-3.22698054	
SLC28A1	-0.39896460	0.02450836	-3.22672769	
SATL1	-0.39889212	0.02453097	-3.22603061	
LOC645877	-0.39889034	0.02453097	-3.22601346	
TBX10	-0.39884346	0.02453467	-3.22556263	
NCRNA00114	-0.39885173	0.02453467	-3.22564209	
LYPD6B	0.39880246	0.02454220	3.22516827	
SUMO1P1	-0.39878409	0.02454220	-3.22499160	
RPE	0.39877037	0.02454220	3.22485973	
GPR88	-0.39870856	0.02457065	-3.22426537	
CLDN19	-0.39866344	0.02457191	-3.22383153	
SNORA80	-0.39864464	0.02457191	-3.22365079	
STC1	-0.39865328	0.02457191	-3.22373386	
DULLARD	-0.39858780	0.02459207	-3.22310430	
ACTN3	-0.39857420	0.02459207	-3.22297358	
HOXD1	-0.39850794	0.02460546	-3.22233663	
SLC35F4	-0.39847694	0.02460546	-3.22203861	
KCNJ8	-0.39850087	0.02460546	-3.22226862	
SNHG3-RCC1	0.39847231	0.02460546	3.22199415	
HAPLN2	-0.39844117	0.02461276	-3.22169481	
B3GNT8	-0.39841283	0.02461812	-3.22142247	
ADAM5P	-0.39832279	0.02466630	-3.22055708	
EID2	-0.39829731	0.02466970	-3.22031221	
LOC100131664	-0.39807678	0.02477425	-3.21819334	
PLEKHG4B	-0.39804421	0.02477425	-3.21788047	
TUBB2B	-0.39809045	0.02477425	-3.21832470	yes
NDUFA5	0.39812157	0.02477425	3.21862360	
RPL18	0.39805303	0.02477425	3.21796521	
OSBPL3	0.39793749	0.02477715	3.21685533	yes
C12orf61	-0.39801713	0.02477715	-3.21762036	
LOC389151	-0.39794756	0.02477715	-3.21695207	
RPL26P12	-0.39797981	0.02477715	-3.21726182	
SOHLH1	-0.39795952	0.02477715	-3.21706698	
HOXD13	-0.39790577	0.02478048	-3.21655070	
MYBPC3	-0.39789175	0.02478048	-3.21641600	
HOXB5	-0.39784462	0.02479907	-3.21596342	
LOC100133364	-0.39764307	0.02483390	-3.21402808	
KLF2	-0.39751138	0.02483390	-3.21276393	
TDRD10	-0.39771264	0.02483390	-3.21469608	
MAGEA13P	-0.39759870	0.02483390	-3.21360217	
FLJ23865	-0.39750476	0.02483390	-3.21270039	
ABC7	0.39748895	0.02483390	3.21254859	
OFCC1	-0.39765724	0.02483390	-3.21416410	
GP1BA	-0.39753267	0.02483390	-3.21296828	
GTPBP8	0.39763353	0.02483390	3.21393647	
HOXA9	-0.39767939	0.02483390	-3.21437678	

NPY2R	-0.39750421	0.02483390	-3.21269504	
RASL12	-0.39763175	0.02483390	-3.21391939	yes
RNF138	0.39760251	0.02483390	3.21363867	
RAD23B	0.39758761	0.02483390	3.21349566	
DNLZ	-0.39772672	0.02483390	-3.21483122	
IGLON5	-0.39744338	0.02484255	-3.21211118	
TMEM165	0.39743596	0.02484255	3.21204002	
NOG	-0.39734427	0.02489240	-3.21115999	
PAK2	0.39729551	0.02489815	3.21069206	
RIOK3	0.39730351	0.02489815	3.21076885	
NPW	-0.39722544	0.02493298	-3.21001968	
C17orf75	0.39716918	0.02495817	3.20947996	yes
OTOS	-0.39708860	0.02500045	-3.20870686	
DNAJA2	0.39695910	0.02503971	3.20746465	
FAM101A	-0.39679449	0.02503971	-3.20588599	
HORMAD2	-0.39698790	0.02503971	-3.20774089	
CHST13	-0.39661438	0.02503971	-3.20415904	
PKD1L1	-0.39669115	0.02503971	-3.20489511	
EN1	-0.39699575	0.02503971	-3.20781617	
SLITRK5	-0.39675848	0.02503971	-3.20554067	
DKK4	-0.39658982	0.02503971	-3.20392366	
KSR2	-0.39685745	0.02503971	-3.20648972	
TREML4	-0.39672819	0.02503971	-3.20525028	
KRT73	-0.39689646	0.02503971	-3.20686384	
APOE	-0.39660993	0.02503971	-3.20411641	
IGFBP1	-0.39692014	0.02503971	-3.20709099	
SULT6B1	-0.39677285	0.02503971	-3.20567851	
OR2A2	-0.39662316	0.02503971	-3.20424322	
FAM82B	0.39670565	0.02503971	3.20503410	
SAGE1	-0.39688318	0.02503971	-3.20673651	
CSGALNACT1	-0.39694132	0.02503971	-3.20729411	
ZNF669	0.39662469	0.02503971	3.20425789	
SCRT1	-0.39659194	0.02503971	-3.20394399	
C19orf2	0.39677597	0.02503971	3.20570836	
PSMD6	0.39663599	0.02503971	3.20436629	
MESDC1	-0.39650513	0.02508350	-3.20311182	
CASP6	0.39648740	0.02508350	3.20294183	
PITX3	-0.39645450	0.02508973	-3.20262646	
PTCH2	-0.39643855	0.02508973	-3.20247363	
APLN	-0.39640300	0.02510066	-3.20213295	
PRAP1	-0.39633386	0.02513523	-3.20147030	
EAF1	0.39629718	0.02514699	3.20111880	
METTL5	0.39617746	0.02520319	3.19997168	yes
SLC10A2	-0.39619464	0.02520319	-3.20013630	
TSPAN3	0.39613533	0.02520583	3.19956806	
RAB41	-0.39613386	0.02520583	-3.19955394	
MGC34800	-0.39607379	0.02521346	-3.19897855	
BZRPL1	-0.39600681	0.02521346	-3.19833693	
LOC284837	-0.39609198	0.02521346	-3.19915281	
KCNF1	-0.39600367	0.02521346	-3.19830682	

ENPP1	-0.39601846	0.02521346	-3.19844855	
KCNK13	-0.39605801	0.02521346	-3.19882736	
SLC25A34	-0.39595271	0.02523538	-3.19781874	
ELF1	0.39592258	0.02524264	3.19753015	yes
C20orf165	-0.39586821	0.02525300	-3.19700945	
PPHLN1	0.39588290	0.02525300	3.19715017	
PDZRN4	-0.39579994	0.02527185	-3.19635568	
TMEM82	-0.39579933	0.02527185	-3.19634988	
CAPRIN1	0.39577954	0.02527185	3.19616031	
FEV	-0.39574247	0.02527185	-3.19580542	
PRB3	-0.39574930	0.02527185	-3.19587076	
FAM168A	-0.39572025	0.02527358	-3.19559261	
GPN1	0.39552710	0.02528032	3.19374355	
BCL6B	-0.39558612	0.02528032	-3.19430850	
C3orf56	-0.39557260	0.02528032	-3.19417905	
ANXA7	0.39566639	0.02528032	3.19507697	
C2orf53	-0.39553911	0.02528032	-3.19385850	
NFE2L2	0.39551346	0.02528032	3.19361299	
TRIM68	0.39567637	0.02528032	3.19517248	
KCMF1	0.39554725	0.02528032	3.19393638	
USH2A	-0.39560863	0.02528032	-3.19452401	
SPATA22	-0.39558852	0.02528032	-3.19433146	
hCG_2004198	-0.39544845	0.02529041	-3.19299071	
CHRNE	-0.39544019	0.02529041	-3.19291162	
PKHD1	-0.39545956	0.02529041	-3.19309702	
CASP12	-0.39538817	0.02531326	-3.19241376	
ZBTB12	-0.39528822	0.02535720	-3.19145733	
ATP2B3	-0.39528674	0.02535720	-3.19144314	
GLRA4	-0.39523699	0.02536553	-3.19096711	
VEGFB	-0.39521612	0.02536553	-3.19076742	
DCTN5	0.39523132	0.02536553	3.19091285	
TRIM38	0.39503300	0.02545362	3.18901561	
DAGLB	0.39505414	0.02545362	3.18921776	
POP5	0.39504487	0.02545362	3.18912913	
ERC2	-0.39494472	0.02550240	-3.18817117	
C10orf71	-0.39490711	0.02551523	-3.18781144	
AOC2	-0.39482615	0.02555890	-3.18703723	
LOC100130988	-0.39468459	0.02557812	-3.18568370	
AANAT	-0.39468199	0.02557812	-3.18565884	
PFDN2	-0.39476883	0.02557812	-3.18648911	
PPID	0.39468874	0.02557812	3.18572336	
GDF5	-0.39472449	0.02557812	-3.18606518	
C9orf140	-0.39470013	0.02557812	-3.18583224	
PTCRA	-0.39462938	0.02558535	-3.18515581	
SLC25A41	-0.39459391	0.02558535	-3.18481679	
ATP6V1C1	0.39460329	0.02558535	3.18490645	
THOC7	0.39461234	0.02558535	3.18499294	
CDH20	-0.39451188	0.02562994	-3.18403258	
LOC100131138	-0.39421901	0.02563139	-3.18123380	
CREB1	0.39423509	0.02563139	3.18138746	

ADSL	0.39430557	0.02563139	3.18206087	
AFF2	-0.39431229	0.02563139	-3.18212508	
TPSD1	-0.39434526	0.02563139	-3.18244013	
OR2M4	-0.39429046	0.02563139	-3.18191655	
GTF2A1	0.39440723	0.02563139	3.18303238	
GJC3	-0.39440740	0.02563139	-3.18303398	
KIR2DS4	-0.39426091	0.02563139	-3.18163417	
ZNF580	-0.39444879	0.02563139	-3.18342963	
PDE6C	-0.39424563	0.02563139	-3.18148819	
PRODH2	-0.39439860	0.02563139	-3.18294996	
TMEM72	-0.39442949	0.02563139	-3.18324513	
CABLES2	-0.39431799	0.02563139	-3.18217960	
LPGAT1	0.39431881	0.02563139	3.18218743	
F11R	0.39418296	0.02564332	3.18088936	
ACTR6	0.39410850	0.02566889	3.18017802	
TTC35	0.39411493	0.02566889	3.18023946	
NRG3	-0.39406115	0.02567453	-3.17972571	
HMGCS1	0.39394653	0.02567453	3.17863084	
ASPDH	-0.39394985	0.02567453	-3.17866257	
SCT	-0.39394783	0.02567453	-3.17864331	
FAM57B	-0.39405104	0.02567453	-3.17962915	
DIRC2	0.39397785	0.02567453	3.17892999	
ZNF804A	-0.39396843	0.02567453	-3.17884004	
FBXO44	-0.39403024	0.02567453	-3.17943038	yes
WDR68	0.39388964	0.02568770	3.17808750	
FLJ38576	-0.39390369	0.02568770	-3.17822175	
ITGB1BP3	-0.39382252	0.02569451	-3.17744653	
IAH1	0.39383822	0.02569451	3.17759647	
NPPC	-0.39382627	0.02569451	-3.17748238	
GABRA4	-0.39375392	0.02572980	-3.17679151	
C1orf71	0.39369903	0.02573615	3.17626745	
SMPX	-0.39368755	0.02573615	-3.17615784	
KCTD8	-0.39372386	0.02573615	-3.17650449	
ASB10	-0.39356701	0.02575727	-3.17500707	
C19orf45	-0.39362449	0.02575727	-3.17555575	
KPNA1	0.39354328	0.02575727	3.17478054	
UNQ6190	-0.39354432	0.02575727	-3.17479050	
CASP7	0.39360262	0.02575727	3.17534698	
MED17	0.39358460	0.02575727	3.17517492	
SGK3	0.39352144	0.02575923	3.17457208	
CCL8	-0.39349846	0.02576203	-3.17435268	
RNF145	0.39346146	0.02576543	3.17399952	
DNAJC15	0.39345556	0.02576543	3.17394325	
ZNF787	-0.39333835	0.02576963	-3.17282467	
SPATA3	-0.39320269	0.02576963	-3.17153018	
SRCRB4D	-0.39332420	0.02576963	-3.17268966	
DDX5	0.39338553	0.02576963	3.17327491	
OR10AG1	-0.39326831	0.02576963	-3.17215629	
NDUFS2	0.39324344	0.02576963	3.17191903	
Magmas	-0.39340434	0.02576963	-3.17345438	

PSG9	-0.39322705	0.02576963	-3.17176264	
TMBIM6	0.39332781	0.02576963	3.17272407	
LOC727726	0.39325333	0.02576963	3.17201334	
HIST1H2BN	-0.39321382	0.02576963	-3.17163642	
B4GALT5	0.39320943	0.02576963	3.17159447	
CD33	-0.39342203	0.02576963	-3.17362323	
MTNR1B	-0.39317399	0.02577660	-3.17125640	
WBSCR17	-0.39314076	0.02578682	-3.17093936	
LOC285550	0.39311850	0.02578921	3.17072700	
DBNDD1	-0.39309267	0.02579415	-3.17048054	
ASB2	-0.39304652	0.02581363	-3.17004032	
FOXO4	-0.39302313	0.02581684	-3.16981717	
APOBEC2	-0.39286744	0.02582759	-3.16833231	
COPB1	0.39294293	0.02582759	3.16905227	
LOC441179	-0.39289783	0.02582759	-3.16862209	
PARD6A	-0.39287976	0.02582759	-3.16844984	
LOC100133422	0.39297654	0.02582759	3.16937285	yes
AADACL1	0.39296661	0.02582759	3.16927812	
hCG_1781062	0.39285724	0.02582759	3.16823503	
SLC30A2	-0.39289451	0.02582759	-3.16859051	
DUSP8	-0.39279186	0.02586089	-3.16761161	
PRDM14	-0.39276900	0.02586379	-3.16739360	
PSMC6	0.39269240	0.02587607	3.16666327	
RAB3A	-0.39269318	0.02587607	-3.16667068	
TMEM121	-0.39267668	0.02587607	-3.16651335	
C12orf65	-0.39269125	0.02587607	-3.16665231	
FGF19	-0.39261705	0.02590534	-3.16594484	
SEMA3A	0.39258452	0.02591520	3.16563478	yes
ACTL7B	-0.39252721	0.02592211	-3.16508850	
IDI1	0.39251281	0.02592211	3.16495118	
RPGRIP1	-0.39254065	0.02592211	-3.16521657	
CGNL1	-0.39249992	0.02592211	-3.16482829	
B3GNT2	0.39236322	0.02595519	3.16352552	
GNB1	0.39237651	0.02595519	3.16365216	
LOC100133408	-0.39238642	0.02595519	-3.16374662	
C21orf125	-0.39239296	0.02595519	-3.16380888	
DYNLT3	0.39236026	0.02595519	3.16349728	
MAN1A2	0.39230400	0.02597294	3.16296111	
LRIT1	-0.39229816	0.02597294	-3.16290546	
C21orf93	-0.39221632	0.02598971	-3.16212569	
ANXA2	0.39218353	0.02598971	3.16181326	yes
LOC375295	-0.39225290	0.02598971	-3.16247426	yes
PIPOX	-0.39223527	0.02598971	-3.16230620	
CDC23	0.39218155	0.02598971	3.16179445	
ACTL7A	-0.39215958	0.02599211	-3.16158513	
ZNF780A	0.39210295	0.02599270	3.16104557	
POMC	-0.39211977	0.02599270	-3.16120580	
KIAA0391	0.39210827	0.02599270	3.16109630	
RBM14	0.39200773	0.02602716	3.16013854	
PURG	-0.39199651	0.02602716	-3.16003169	

AVPR1B	-0.39198064	0.02602716	-3.15988055	
GUF1	0.39199060	0.02602716	3.15997534	
LOC100133395	-0.39190407	0.02602888	-3.15915123	
WDFY1	0.39190474	0.02602888	3.15915758	
SPP2	-0.39194038	0.02602888	-3.15949703	
CAMK2A	-0.39190864	0.02602888	-3.15919479	
ADORA3	-0.39186498	0.02604365	-3.15877894	
BLOC1S3	-0.39182217	0.02606112	-3.15837126	yes
PCK1	-0.39168659	0.02612749	-3.15708031	
SMARCD3	-0.39167446	0.02612749	-3.15696483	yes
CNTN2	-0.39168400	0.02612749	-3.15705566	
GLYAT	-0.39147410	0.02615858	-3.15505753	
CHRNA4	-0.39146198	0.02615858	-3.15494213	
CNKSR2	-0.39146605	0.02615858	-3.15498092	
IRF2BP1	-0.39144677	0.02615858	-3.15479744	yes
KRTAP10-12	-0.39160830	0.02615858	-3.15633495	
NAP1L4	0.39147400	0.02615858	3.15505654	
SERPINA5	-0.39155160	0.02615858	-3.15579519	
ZIC1	-0.39149720	0.02615858	-3.15527735	
ANKRD53	-0.39152024	0.02615858	-3.15549672	
C14orf43	-0.39154207	0.02615858	-3.15570455	
OXA1L	0.39141331	0.02616943	3.15447897	
LECT1	-0.39135851	0.02618242	-3.15395740	
NOXO1	-0.39136072	0.02618242	-3.15397842	
FUSIP1	0.39115634	0.02620981	3.15203371	
ADCYAP1R1	-0.39100954	0.02620981	-3.15063723	
CLPS	-0.39099639	0.02620981	-3.15051216	
PM20D1	-0.39097917	0.02620981	-3.15034837	
UBL4B	-0.39120872	0.02620981	-3.15253210	
DCLK2	-0.39092092	0.02620981	-3.14979433	
PCSK9	-0.39113599	0.02620981	-3.15184007	
TMEM151A	-0.39082499	0.02620981	-3.14888199	
KLK5	-0.39069925	0.02620981	-3.14768640	
VCX	-0.39119100	0.02620981	-3.15236344	
VENTX	-0.39072483	0.02620981	-3.14792964	
FAM177A1	0.39068338	0.02620981	3.14753552	
RABL3	0.39101228	0.02620981	3.15066329	
C3orf53	-0.39104439	0.02620981	-3.15096875	
HOXD11	-0.39102527	0.02620981	-3.15078683	
H1FNT	-0.39097324	0.02620981	-3.15029191	
KCNJ11	-0.39094059	0.02620981	-3.14998144	
MSX1	-0.39079193	0.02620981	-3.14856768	
NUP98	0.39110803	0.02620981	3.15157409	
MRPS16	0.39127483	0.02620981	3.15316114	
SLC45A2	-0.39075933	0.02620981	-3.14825765	
PPP1R12C	-0.39068178	0.02620981	-3.14752028	yes
PPP1R1A	-0.39078797	0.02620981	-3.14853000	
INTS10	0.39075661	0.02620981	3.14823183	
UBA6	0.39075626	0.02620981	3.14822846	
AGPAT5	0.39082581	0.02620981	3.14888977	

KCNQ1DN	-0.39107376	0.02620981	-3.15124810	
NPLOC4	0.39112508	0.02620981	3.15173629	
C9orf29	-0.39071839	0.02620981	-3.14786837	
HHIPL2	-0.39069899	0.02620981	-3.14768396	
C21orf67	-0.39108809	0.02620981	-3.15138440	
ZNF496	-0.39099946	0.02620981	-3.15054131	
TBRG1	0.39108322	0.02620981	3.15133811	
NKD1	-0.39076741	0.02620981	-3.14833445	yes
CCNT2	0.39095518	0.02620981	3.15012015	
MAPT	-0.39059530	0.02624607	-3.14669813	
TAC3	-0.39060285	0.02624607	-3.14676993	
CTSC	0.39056787	0.02625281	3.14643735	
MAGEB16	-0.39051706	0.02626338	-3.14595438	
TNFSF18	-0.39051919	0.02626338	-3.14597459	
COPS6	0.39043334	0.02629462	3.14515864	
IFNA16	-0.39040157	0.02629462	-3.14485670	
NRTN	-0.39043810	0.02629462	-3.14520390	yes
FIZ1	-0.39040757	0.02629462	-3.14491367	
ACTRT2	-0.39033370	0.02629638	-3.14421168	yes
SLC44A1	0.39037099	0.02629638	3.14456603	
COMMD2	0.39036093	0.02629638	3.14447043	yes
UTP6	0.39032703	0.02629638	3.14414824	
TMEM132D	-0.39028557	0.02631332	-3.14375426	
DMRTA1	-0.39026710	0.02631366	-3.14357876	
HSPA9	0.39022845	0.02632859	3.14321151	
PRND	-0.39019810	0.02633638	-3.14292317	
CACNA1G	-0.39018171	0.02633638	-3.14276743	
C21orf62	-0.39011104	0.02636150	-3.14209607	
C1orf163	0.39012669	0.02636150	3.14224473	
KCTD18	0.39005046	0.02639236	3.14152053	
TSGA13	-0.38998389	0.02640441	-3.14088819	
JMJD2C	0.38997387	0.02640441	3.14079297	
NPFFR1	-0.38997901	0.02640441	-3.14084182	yes
ATG3	0.38996206	0.02640441	3.14068086	
CGREF1	-0.38981674	0.02644485	-3.13930070	
IL34	-0.38983478	0.02644485	-3.13947197	yes
C11orf76	-0.38982934	0.02644485	-3.13942032	
PSEN1	0.38982578	0.02644485	3.13938650	
UBTD1	-0.38982664	0.02644485	-3.13939471	
LOC100130274	-0.38935562	0.02648403	-3.13492318	
SORBS3	-0.38968555	0.02648403	-3.13805494	
PRG3	-0.38955283	0.02648403	-3.13679499	
SLC2A6	-0.38925035	0.02648403	-3.13392422	yes
KLRAQ1	0.38937233	0.02648403	3.13508172	
CRK	0.38917820	0.02648403	3.13323960	
TXLNA	0.38941003	0.02648403	3.13543958	
DHRS7C	-0.38972258	0.02648403	-3.13840658	
C7orf51	-0.38917649	0.02648403	-3.13322336	
FGF3	-0.38926823	0.02648403	-3.13409381	
PLCB1	-0.38926882	0.02648403	-3.13409947	

TGDS	0.38939429	0.02648403	3.13529015	
C9orf4	-0.38946955	0.02648403	-3.13600442	yes
SLCO4A1	-0.38950363	0.02648403	-3.13632791	yes
GZMM	-0.38922595	0.02648403	-3.13369269	
OR3A4	-0.38959079	0.02648403	-3.13715537	
C14orf180	-0.38971260	0.02648403	-3.13831179	
C6orf138	-0.38947450	0.02648403	-3.13605146	
NDUFA4	0.38931687	0.02648403	3.13455544	
C18orf56	-0.38919539	0.02648403	-3.13340267	
RAB6B	-0.38949307	0.02648403	-3.13622768	
UEVLD	0.38926636	0.02648403	3.13407614	
FAR2	0.38958851	0.02648403	3.13713371	
GPR158	-0.38942243	0.02648403	-3.13555721	
PAPPA2	-0.38964662	0.02648403	-3.13768540	
ARV1	0.38932780	0.02648403	3.13465917	
NDRG4	-0.38944756	0.02648403	-3.13579572	
SLC12A3	-0.38968423	0.02648403	-3.13804248	
SYN1	-0.38947671	0.02648403	-3.13607243	
SPATA9	-0.38962663	0.02648403	-3.13749561	
HSDL2	0.38959433	0.02648403	3.13718892	
SPOCD1	-0.38936712	0.02648403	-3.13503225	
PLAA	0.38923817	0.02648403	3.13380859	
YME1L1	0.38914487	0.02649417	3.13292336	
C1orf146	-0.38910903	0.02650738	-3.13258336	
WNK2	-0.38904551	0.02654070	-3.13198072	
CLEC11A	-0.38899103	0.02656068	-3.13146394	yes
SPSB4	-0.38898277	0.02656068	-3.13138564	yes
CALR3	-0.38890811	0.02660216	-3.13067751	
CETP	-0.38870178	0.02666545	-3.12872081	
GABRG2	-0.38863047	0.02666545	-3.12804474	
GLCE	0.38868750	0.02666545	3.12858544	
OR4X1	-0.38865804	0.02666545	-3.12830612	
NKX2-2	-0.38865127	0.02666545	-3.12824188	
SLC25A40	0.38864454	0.02666545	3.12817815	
TBC1D24	-0.38862704	0.02666545	-3.12801218	
FLJ43763	-0.38861048	0.02666545	-3.12785519	
WDR61	0.38877647	0.02666545	3.12942907	
FZD6	0.38871090	0.02666545	3.12880731	
RIPK1	0.38872257	0.02666545	3.12891799	
TBC1D27	-0.38872846	0.02666545	-3.12897377	
OBSL1	-0.38856311	0.02668720	-3.12740616	
SIN3A	0.38852462	0.02669431	3.12704122	
MIOX	-0.38851837	0.02669431	-3.12698195	
TXNL4B	0.38848939	0.02670268	3.12670726	
SLC15A4	0.38841589	0.02670530	3.12601057	
KIAA0776	0.38845648	0.02670530	3.12639530	
PGK1	0.38842854	0.02670530	3.12613049	
RARS	0.38844248	0.02670530	3.12626269	
HK3	-0.38837812	0.02672012	-3.12565260	
FAM53C	-0.38829378	0.02676896	-3.12485338	

MPZL2	0.38817485	0.02680491	3.12372645	
RTN4RL2	-0.38819685	0.02680491	-3.12393490	
RAB9B	-0.38820687	0.02680491	-3.12402985	
MYST3	0.38819189	0.02680491	3.12388785	
PRPSAP2	0.38814035	0.02681741	3.12339949	
RWDD2B	0.38805388	0.02686799	3.12258030	
NGB	-0.38803476	0.02686923	-3.12239925	
SELV	-0.38799433	0.02688612	-3.12201623	
BANF2	-0.38796355	0.02689593	-3.12172462	
BCCIP	0.38793937	0.02690091	3.12149566	
SLC38A3	-0.38791953	0.02690271	-3.12130771	
LOC100133404	-0.38783754	0.02694320	-3.12053119	yes
PXMP3	0.38782963	0.02694320	3.12045624	
SNORA5B	-0.38780277	0.02695017	-3.12020186	
OR2L13	-0.38777716	0.02695624	-3.11995933	
LOC100130858	-0.38774048	0.02695769	-3.11961199	
ACBD5	0.38775716	0.02695769	3.11977003	
SHD	-0.38766246	0.02700231	-3.11887327	
ITGA10	-0.38764226	0.02700441	-3.11868206	
ATPGD1	-0.38761070	0.02701489	-3.11838326	
NAPSA	-0.38757836	0.02702594	-3.11807709	yes
LOC100129540	-0.38725336	0.02703659	-3.11500092	
HRH3	-0.38729708	0.02703659	-3.11541461	
CPN2	-0.38734609	0.02703659	-3.11587843	
PTF1A	-0.38738279	0.02703659	-3.11622581	
OR2W1	-0.38725780	0.02703659	-3.11504291	
PCSK1N	-0.38736264	0.02703659	-3.11603510	
SERPINA9	-0.38727204	0.02703659	-3.11517764	
TCEB3B	-0.38731735	0.02703659	-3.11560649	
PIGC	0.38735595	0.02703659	3.11597179	
EXOC1	0.38731694	0.02703659	3.11560256	
RGMA	-0.38732520	0.02703659	-3.11568077	
MTMR9	0.38727969	0.02703659	3.11525010	
SCARNA16	-0.38738740	0.02703659	-3.11626944	yes
TSHR	-0.38737558	0.02703659	-3.11615757	
CNTD2	-0.38750329	0.02703659	-3.11736634	
NCK2	0.38737100	0.02703659	3.11611424	
SLC7A3	-0.38730536	0.02703659	-3.11549300	
CHRD	-0.38739797	0.02703659	-3.11636945	yes
FLJ45139	-0.38714788	0.02708895	-3.11400285	
EAF2	0.38715807	0.02708895	3.11409922	
BTBD10	0.38712072	0.02709631	3.11374588	
C1orf62	-0.38709261	0.02710438	-3.11347991	
DHRS2	-0.38703110	0.02711179	-3.11289797	
LCN6	-0.38703801	0.02711179	-3.11296341	yes
TMEM87A	0.38706064	0.02711179	3.11317741	
LOC100133423	-0.38695966	0.02715185	-3.11222220	
LOC100132394	-0.38656432	0.02716358	-3.10848360	
MAB21L2	-0.38678776	0.02716358	-3.11059637	
ARAP2	0.38672592	0.02716358	3.11001153	

COL4A3	-0.38660999	0.02716358	-3.10891536	
TTC36	-0.38664797	0.02716358	-3.10927447	
FAM91A1	0.38655435	0.02716358	3.10838934	
EPYC	-0.38664241	0.02716358	-3.10922194	
RNF182	-0.38664776	0.02716358	-3.10927252	
FRAT2	-0.38684817	0.02716358	-3.11116766	
SENP1	0.38665349	0.02716358	3.10932672	
NONO	0.38683230	0.02716358	3.11101757	
FRMD4A	-0.38685441	0.02716358	-3.11122666	
KCNQ5	-0.38655124	0.02716358	-3.10835999	
SEMA3G	-0.38653747	0.02716358	-3.10822976	yes
CDC42SE2	0.38665379	0.02716358	3.10932957	
ABCD3	0.38680109	0.02716358	3.11072243	
S100A5	-0.38655772	0.02716358	-3.10842126	
TBXA2R	-0.38654304	0.02716358	-3.10828243	
TGM4	-0.38660941	0.02716358	-3.10890995	
TRPM3	-0.38653443	0.02716358	-3.10820106	
SESN2	-0.38654313	0.02716358	-3.10828332	
FBN3	-0.38662017	0.02716358	-3.10901163	
TCAP	-0.38684294	0.02716358	-3.11111817	
MINPP1	0.38691622	0.02716358	3.11181135	
RIMS4	-0.38637693	0.02718210	-3.10671223	
CTBS	0.38638404	0.02718210	3.10677943	
TMEM154	0.38645035	0.02718210	3.10740620	yes
GABRA5	-0.38643467	0.02718210	-3.10725797	
IL1F8	-0.38638866	0.02718210	-3.10682313	
GLRX	0.38635686	0.02718210	3.10652261	
C6orf58	-0.38640278	0.02718210	-3.10695660	
C6orf115	0.38642525	0.02718210	3.10716898	
MFSD1	0.38637063	0.02718210	3.10665271	
DOCK3	-0.38630409	0.02720470	-3.10602386	
OR1G1	-0.38629242	0.02720470	-3.10591359	
KLHDC8A	-0.38624809	0.02721248	-3.10549466	
ABCE1	0.38625260	0.02721248	3.10553721	
TMEM186	0.38614158	0.02726624	3.10448820	
MAPK9	0.38614644	0.02726624	3.10453407	
SYCP2L	-0.38610182	0.02727069	-3.10411249	
XRCC6	0.38610189	0.02727069	3.10411318	
OSTF1	0.38606392	0.02728625	3.10375448	
MCF2	-0.38600106	0.02730583	-3.10316056	
PLA2G4A	0.38600360	0.02730583	3.10318454	
ARRDC4	0.38598693	0.02730583	3.10302709	
FAM172A	0.38594738	0.02732264	3.10265353	
METTL9	0.38584978	0.02738251	3.10173166	
LOC440563	-0.38582619	0.02738753	-3.10150883	
LOC652904	-0.38579746	0.02739399	-3.10123753	
GFM2	0.38578386	0.02739399	3.10110905	yes
PDCL2	-0.38563665	0.02743017	-3.09971893	
AGXT2L1	-0.38570048	0.02743017	-3.10032168	
WNT6	-0.38566677	0.02743017	-3.10000329	

ULBP1	-0.38569441	0.02743017	-3.10026431	
EPR1	-0.38565681	0.02743017	-3.09990926	
ARD1B	-0.38563439	0.02743017	-3.09969755	
PRAMEF12	-0.38556710	0.02745525	-3.09906230	
LRRC24	-0.38557002	0.02745525	-3.09908983	
GNB2L1	0.38552484	0.02746176	3.09866325	
BRUNOL5	-0.38553341	0.02746176	-3.09874415	
KL	-0.38550700	0.02746257	-3.09849482	
NDUFAF1	0.38546881	0.02747852	3.09813439	
CEBPG	0.38538305	0.02749567	3.09732480	
CRIP3	-0.38542565	0.02749567	-3.09772697	
REXO1	-0.38539707	0.02749567	-3.09745719	yes
STK4	0.38537793	0.02749567	3.09727650	
KRTAP4-1	-0.38536217	0.02749567	-3.09712775	
LOC100128003	-0.38507049	0.02750122	-3.09437521	
WASF3	-0.38521270	0.02750122	-3.09571708	
COL8A2	-0.38524917	0.02750122	-3.09606125	yes
AHR	0.38514877	0.02750122	3.09511386	
FUT4	-0.38528288	0.02750122	-3.09637941	
GATA1	-0.38514769	0.02750122	-3.09510365	
SH2D6	-0.38516736	0.02750122	-3.09528929	
ARF1	0.38514830	0.02750122	3.09510939	
PRR16	-0.38511850	0.02750122	-3.09482819	
RASD1	-0.38527109	0.02750122	-3.09626814	
ACCN5	-0.38510054	0.02750122	-3.09465880	
SFRS3	0.38505515	0.02750122	3.09423049	
TRMT2B	0.38531638	0.02750122	3.09669554	
PLA2G12A	-0.38506747	0.02750122	-3.09434678	
JPH4	-0.38511877	0.02750122	-3.09483074	
ARTN	-0.38528373	0.02750122	-3.09638745	
AATK	-0.38521728	0.02750122	-3.09576031	
KBTBD11	-0.38509385	0.02750122	-3.09459559	
STRAP	0.38501882	0.02750309	3.09388776	
LCE3E	-0.38502368	0.02750309	-3.09393361	
RAC3	-0.38500290	0.02750309	-3.09373758	
LIPC	-0.38496508	0.02750660	-3.09338075	
KBTBD4	0.38497243	0.02750660	3.09345013	
PDCD1	-0.38492285	0.02752569	-3.09298237	
CCDC38	-0.38489133	0.02753683	-3.09268505	
NMS	-0.38486218	0.02754621	-3.09241017	
NOTCH4	-0.38484531	0.02754647	-3.09225104	
ACAN	-0.38478654	0.02757792	-3.09169672	
EPHA10	-0.38475659	0.02758792	-3.09141428	
SPATA12	-0.38470364	0.02761508	-3.09091488	
IBTK	0.38467172	0.02762657	3.09061393	
CRLF3	0.38460817	0.02764936	3.09001471	
SLC2A4	-0.38460867	0.02764936	-3.09001939	
C2orf37	0.38457398	0.02766258	3.08969229	
FLJ11151	0.38453722	0.02767771	3.08934577	
KLHL18	0.38450790	0.02768730	3.08906934	

ERCC4	0.38446960	0.02770362	3.08870819	
PCGF2	-0.38443158	0.02771973	-3.08834977	
MYO7B	-0.38436713	0.02775564	-3.08774225	yes
STX1B	-0.38432472	0.02775768	-3.08734252	
TMCO1	0.38426573	0.02775768	3.08678661	
TMEM126B	0.38428911	0.02775768	3.08700697	
NRIP1	0.38428138	0.02775768	3.08693404	
SLC25A18	-0.38428030	0.02775768	-3.08692386	
KIRREL2	-0.38433893	0.02775768	-3.08747650	
SP5	-0.38420972	0.02778733	-3.08625870	
ASH2L	0.38412749	0.02783666	3.08548386	
UBE2DNL	-0.38375497	0.02784725	-3.08197455	
ADAMTS7	-0.38356814	0.02784725	-3.08021522	
OR11H6	-0.38368320	0.02784725	-3.08129863	
PLK5P	-0.38363330	0.02784725	-3.08082878	yes
FAM148C	-0.38381933	0.02784725	-3.08258066	
OTOA	-0.38385714	0.02784725	-3.08293686	
KRT25	-0.38397308	0.02784725	-3.08402897	
OLIG3	-0.38405385	0.02784725	-3.08478997	
SAMD14	-0.38386119	0.02784725	-3.08297497	
AK3L1	-0.38384406	0.02784725	-3.08281362	
OR5M11	-0.38375408	0.02784725	-3.08196613	
NT5C2	0.38377924	0.02784725	3.08220310	
PRR17	-0.38362867	0.02784725	-3.08078515	
HADHA	0.38360494	0.02784725	3.08056165	
LOC401433	-0.38399992	0.02784725	-3.08428190	
KRCC1	0.38376586	0.02784725	3.08207706	
ATP6V1H	0.38358277	0.02784725	3.08035291	
POU6F1	-0.38368886	0.02784725	-3.08135192	
GJD2	-0.38378321	0.02784725	-3.08224054	
RAB27A	0.38363274	0.02784725	3.08082341	
RPS11	0.38381795	0.02784725	3.08256770	
SFRS7	0.38355894	0.02784725	3.08012856	
C15orf56	-0.38367890	0.02784725	-3.08125816	
CTAGE1	-0.38354268	0.02784725	-3.07997547	
TNS3	-0.38374216	0.02784725	-3.08185387	
SOX3	-0.38355215	0.02784725	-3.08006460	
TRGV5	-0.38355982	0.02784725	-3.08013685	
MKRN3	-0.38367816	0.02784725	-3.08125114	
PRR14	-0.38379348	0.02784725	-3.08233727	
ABHD8	-0.38387094	0.02784725	-3.08306682	
CUL3	0.38369645	0.02784725	3.08142339	
FUBP3	0.38389460	0.02784725	3.08328974	
SYT7	-0.38400573	0.02784725	-3.08433659	
H2AFV	0.38361598	0.02784725	3.08066564	
NUP153	0.38380557	0.02784725	3.08245110	yes
TAPT1	0.38331138	0.02787527	3.07779801	
TRIM32	0.38343101	0.02787527	3.07892412	
TMEM9	0.38332427	0.02787527	3.07791937	
POL3S	-0.38336191	0.02787527	-3.07827369	

RPRML	-0.38335630	0.02787527	-3.07822086	
OR11H4	-0.38333037	0.02787527	-3.07797680	
NDUFS1	0.38347657	0.02787527	3.07935304	
PDE6G	-0.38345687	0.02787527	-3.07916758	
TDP1	0.38339447	0.02787527	3.07858012	yes
PRDM12	-0.38337268	0.02787527	-3.07837507	
ZAN	-0.38345132	0.02787527	-3.07911535	
ANGEL2	0.38333108	0.02787527	3.07798346	
RP11-93B14.6	-0.38329375	0.02787640	-3.07763210	
CDH24	-0.38327359	0.02787944	-3.07744234	
ANKRD28	0.38310551	0.02791346	3.07586051	
CACNG5	-0.38320172	0.02791346	-3.07676589	
CXCL3	-0.38315260	0.02791346	-3.07630366	
LHFPL4	-0.38317212	0.02791346	-3.07648737	
GPR152	-0.38313761	0.02791346	-3.07616262	
RPL23AP71	-0.38310717	0.02791346	-3.07587617	yes
VPS33A	0.38309952	0.02791346	3.07580416	
TPR	0.38316335	0.02791346	3.07640480	
LELP1	-0.38306579	0.02792671	-3.07548682	
OR5I1	-0.38298999	0.02794746	-3.07477364	
ITGB6	0.38302052	0.02794746	3.07506086	
MMP20	-0.38300356	0.02794746	-3.07490128	
DYSF	-0.38296057	0.02795751	-3.07449679	yes
CRHR1	-0.38277687	0.02802333	-3.07276875	
ALKBH4	-0.38283010	0.02802333	-3.07326945	
TMEM70	0.38280846	0.02802333	3.07306588	
REG4	-0.38278104	0.02802333	-3.07280803	
KRTAP4-4	-0.38282713	0.02802333	-3.07324155	
USP10	0.38280120	0.02802333	3.07299764	yes
WFDC13	-0.38267896	0.02805367	-3.07184797	
SNORD52	0.38267289	0.02805367	3.07179083	
NRAP	-0.38268807	0.02805367	-3.07193361	
INSM2	-0.38267257	0.02805367	-3.07178784	
MMP24	-0.38264694	0.02806094	-3.07154679	
SYT14	-0.38259726	0.02808632	-3.07107968	
C20orf43	0.38258084	0.02808667	3.07092522	
WDR92	0.38252345	0.02809384	3.07038560	
GRIN2C	-0.38253174	0.02809384	-3.07046354	
SLC1A2	-0.38254061	0.02809384	-3.07054698	
MAGEB18	-0.38248077	0.02811399	-3.06998435	
POLD3	0.38235134	0.02812754	3.06876755	
ADAM29	-0.38238586	0.02812754	-3.06909200	
PWWP2A	-0.38238398	0.02812754	-3.06907435	
CABP7	-0.38237331	0.02812754	-3.06897405	
HAL	-0.38236586	0.02812754	-3.06890400	
C15orf52	-0.38236482	0.02812754	-3.06889421	
CHMP5	0.38236283	0.02812754	3.06887554	yes
CACNG3	-0.38222518	0.02816312	-3.06758166	
FGF8	-0.38226584	0.02816312	-3.06796381	
SCML4	-0.38218631	0.02816312	-3.06721639	

SOCS7	-0.38227457	0.02816312	-3.06804591	
KCNN1	-0.38213232	0.02816312	-3.06670894	
C13orf35	-0.38221744	0.02816312	-3.06750896	
PRKAR2A	0.38211377	0.02816312	3.06653468	yes
MRPS22	0.38212842	0.02816312	3.06667234	
C7orf36	0.38220418	0.02816312	3.06738434	
TNNI1	-0.38216113	0.02816312	-3.06697972	
RNASEH2C	-0.38219483	0.02816312	-3.06729648	
NKD2	-0.38215087	0.02816312	-3.06688333	
PPP2R3C	0.38209680	0.02816398	3.06637517	
FAM78B	-0.38201445	0.02820226	-3.06560139	
PSMB3	0.38202352	0.02820226	3.06568662	
UBE2J1	0.38199390	0.02820583	3.06540831	
TMEM199	0.38195912	0.02820823	3.06508148	
KRTAP12-1	-0.38196142	0.02820823	-3.06510308	
DAZL	-0.38190243	0.02822719	-3.06454894	
KCNA5	-0.38191344	0.02822719	-3.06465237	
OR5H15	-0.38188364	0.02822946	-3.06437244	
C17orf55	-0.38184839	0.02824417	-3.06404124	
SERPINA12	-0.38179134	0.02825154	-3.06350537	
BCORL1	-0.38180556	0.02825154	-3.06363889	
HIAT1	0.38179191	0.02825154	3.06351073	
SEMA4F	-0.38172583	0.02826011	-3.06289003	
PRR4	-0.38176375	0.02826011	-3.06324617	
SLC35D1	0.38172053	0.02826011	3.06284027	
MOGAT3	-0.38170127	0.02826011	-3.06265939	
BRP44L	0.38171626	0.02826011	3.06280009	
SMTN	-0.38168486	0.02826063	-3.06250519	yes
GPR143	-0.38163401	0.02827936	-3.06202763	
SNORD77	0.38162864	0.02827936	3.06197727	
TXNDC2	-0.38158098	0.02830354	-3.06152963	
SNORD115-31	-0.38155206	0.02831082	-3.06125812	
NAT8L	-0.38152946	0.02831082	-3.06104588	
PIP	-0.38151943	0.02831082	-3.06095172	
ACTA1	-0.38150855	0.02831082	-3.06084957	
RBM7	0.38148156	0.02831892	3.06059615	
KLHDC2	0.38145081	0.02831892	3.06030741	
SCAF1	-0.38145596	0.02831892	-3.06035576	
CITED1	-0.38135718	0.02836612	-3.05942833	
UTP15	0.38136545	0.02836612	3.05950603	
EYA3	0.38128795	0.02840675	3.05877848	
WDR21C	-0.38126494	0.02841233	-3.05856251	
CEND1	-0.38122432	0.02843129	-3.05818121	
SULT1C2	-0.38119901	0.02843863	-3.05794368	
PEBP4	-0.38118079	0.02843866	-3.05777267	
SHOX2	-0.38115207	0.02843866	-3.05750308	
TMEM116	0.38115253	0.02843866	3.05750742	
CRB2	-0.38099364	0.02848151	-3.05601635	
HCRT	-0.38103037	0.02848151	-3.05636103	
OR4M2	-0.38099490	0.02848151	-3.05602815	

GMPR2	0.38098642	0.02848151	3.05594860	
PRLR	-0.38100786	0.02848151	-3.05614980	
XPO4	0.38099316	0.02848151	3.05601185	
SLC6A7	-0.38106097	0.02848151	-3.05664813	
SLC2A4RG	-0.38086356	0.02853942	-3.05479594	
HSD3B7	-0.38089218	0.02853942	-3.05506438	
C6orf62	0.38086707	0.02853942	3.05482881	
LBX2	-0.38082065	0.02856025	-3.05439333	
C4orf34	0.38079670	0.02856664	3.05416864	
LMBR1	0.38071884	0.02861415	3.05343832	
SNORD68	-0.38066962	0.02863984	-3.05297671	
PLCXD3	-0.38065202	0.02864141	-3.05281158	
FEZF2	-0.38063357	0.02864362	-3.05263859	
ZNF285B	-0.38060878	0.02865068	-3.05240605	
VTI1B	0.38059238	0.02865133	3.05225231	
PAGE5	-0.38052221	0.02868122	-3.05159425	
ZNHIT3	0.38052683	0.02868122	3.05163753	
PMP22CD	-0.38048009	0.02868631	-3.05119926	
NFX1	0.38049030	0.02868631	3.05129502	yes
ZNF561	0.38046899	0.02868631	3.05109521	yes
OAZ1	0.38042787	0.02870590	3.05070965	
ERLIN1	0.38040216	0.02871371	3.05046858	yes
GPR17	-0.38036672	0.02872897	-3.05013635	
SYNGR4	-0.38032563	0.02874445	-3.04975104	
GBP3	0.38028865	0.02874445	3.04940444	
INPP5J	-0.38028456	0.02874445	-3.04936606	
DIABLO	0.38030150	0.02874445	3.04952485	
PPP1R2P9	-0.38025639	0.02875417	-3.04910201	
LOC100129346	-0.38022870	0.02876353	-3.04884244	
POMP	0.38020135	0.02877264	3.04858605	
GPR177	0.38016302	0.02879017	3.04822679	
BRSK1	-0.37997530	0.02892249	-3.04646753	
ATF7	-0.37988487	0.02893582	-3.04562027	
CRX	-0.37987018	0.02893582	-3.04548265	
HSPA4	0.37984991	0.02893582	3.04529267	
NANOS3	-0.37985670	0.02893582	-3.04535631	
ZNF749	0.37989117	0.02893582	3.04567932	
VPS11	0.37988129	0.02893582	3.04558673	
RP5-1077B9.4	-0.37993167	0.02893582	-3.04605874	
TFF2	-0.37977706	0.02898005	-3.04461021	
C16orf73	-0.37974795	0.02899061	-3.04433750	
OR2M2	-0.37965921	0.02903530	-3.04350627	
ZNF747	-0.37965977	0.02903530	-3.04351158	
GPX6	-0.37963607	0.02904127	-3.04328954	
VAMP8	0.37955414	0.02909267	3.04252225	
FAM166A	-0.37953240	0.02909759	-3.04231858	
PIK3R5	-0.37950804	0.02910452	-3.04209053	
AZIN1	0.37945694	0.02913216	3.04161195	yes
TMEM132E	-0.37941163	0.02915533	-3.04118770	
POU5F2	-0.37935350	0.02916423	-3.04064347	

LRRN4	-0.37935522	0.02916423	-3.04065950	
OR10K1	-0.37937606	0.02916423	-3.04085468	
PCMT1	0.37933868	0.02916423	3.04050463	
SLC35F3	-0.37929108	0.02918021	-3.04005908	
GDI2	0.37925893	0.02918021	3.03975804	
CXorf25	-0.37924979	0.02918021	-3.03967248	
C14orf115	-0.37924454	0.02918021	-3.03962330	
STK17A	0.37924134	0.02918021	3.03959337	
MANEAL	-0.37913929	0.02918776	-3.03863809	
LHFPL5	-0.37906330	0.02918776	-3.03792694	
KLHL35	-0.37921608	0.02918776	-3.03935696	
KIR3DL2	-0.37907988	0.02918776	-3.03808209	
MSLNL	-0.37906834	0.02918776	-3.03797405	
NEUROD2	-0.37915390	0.02918776	-3.03877491	
NPTX1	-0.37913847	0.02918776	-3.03863048	
REG3A	-0.37907690	0.02918776	-3.03805420	
PRKAR2B	-0.37911538	0.02918776	-3.03841435	
TTBK1	-0.37913069	0.02918776	-3.03855766	
OPN4	-0.37917314	0.02918776	-3.03895501	
LOC100131506	-0.37898915	0.02920974	-3.03723296	
GSX2	-0.37899350	0.02920974	-3.03727367	
EXPH5	0.37900234	0.02920974	3.03735640	yes
ZNF207	0.37896431	0.02921717	3.03700054	
TMTC2	0.37894444	0.02922076	3.03681453	
FOXN4	-0.37890134	0.02922635	-3.03641123	
FABP7	-0.37888323	0.02922635	-3.03624182	
SLC22A18AS	-0.37889621	0.02922635	-3.03636327	
LST1	-0.37887629	0.02922635	-3.03617685	
BPNT1	0.37884558	0.02923836	3.03588955	
CYP2W1	-0.37882437	0.02924301	-3.03569104	
ELFN2	-0.37874401	0.02924639	-3.03493926	
C1orf58	0.37877255	0.02924639	3.03520627	yes
OR4D9	-0.37874897	0.02924639	-3.03498567	
SRI	0.37876697	0.02924639	3.03515410	yes
EEF1E1	0.37876496	0.02924639	3.03513529	
HNRNPAB	0.37869437	0.02926209	3.03447489	
FLJ45983	-0.37869340	0.02926209	-3.03446584	
CDSN	-0.37859634	0.02928051	-3.03355791	
TMEM18	0.37861901	0.02928051	3.03376996	
IGFL1	-0.37862091	0.02928051	-3.03378778	
RTL1	-0.37862826	0.02928051	-3.03385647	
FAM18B	0.37859385	0.02928051	3.03353460	
KIF12	-0.37849733	0.02934370	-3.03263191	
CISD1	0.37847073	0.02935261	3.03238318	
STK32C	-0.37842733	0.02935278	-3.03197728	
LUZP4	-0.37839486	0.02935278	-3.03167368	
GALNTL1	-0.37841140	0.02935278	-3.03182835	yes
SPTBN4	-0.37840485	0.02935278	-3.03176705	
TM4SF4	-0.37842250	0.02935278	-3.03193211	
HIPK3	0.37831279	0.02936418	3.03090631	yes

VASN	-0.37831254	0.02936418	-3.03090391	yes
FLT3LG	-0.37832081	0.02936418	-3.03098125	
PDE6H	-0.37830468	0.02936418	-3.03083048	
C1orf200	-0.37835064	0.02936418	-3.03126019	
HMGA1	-0.37828916	0.02936451	-3.03068536	
JDP2	-0.37823378	0.02937081	-3.03016758	
GPR110	0.37822076	0.02937081	3.03004592	
SCD5	-0.37824514	0.02937081	-3.03027379	
OR6K2	-0.37826273	0.02937081	-3.03043828	
OR5F1	-0.37818461	0.02938721	-3.02970796	
VWCE	-0.37812794	0.02939822	-3.02917817	
ADAM2	-0.37812530	0.02939822	-3.02915355	
PTH	-0.37815398	0.02939822	-3.02942161	
RNF6	0.37809561	0.02940961	3.02887599	yes
H2BFM	-0.37803506	0.02943737	-3.02831001	
WFDC1	-0.37801485	0.02943737	-3.02812121	yes
SILV	-0.37802831	0.02943737	-3.02824698	
TARDBP	0.37797181	0.02945919	3.02771892	
PDE4DIP	-0.37794412	0.02946907	-3.02746010	
SNORA38B	-0.37784428	0.02951850	-3.02652723	
HEATR5A	0.37783678	0.02951850	3.02645710	
SCN2B	-0.37783569	0.02951850	-3.02644696	
PARD6B	0.37781775	0.02952080	3.02627929	yes
TXNIP	0.37773606	0.02953616	3.02551603	
UNQ6490	-0.37772055	0.02953616	-3.02537112	
YY2	-0.37769320	0.02953616	-3.02511564	
LOC728450	-0.37770001	0.02953616	-3.02517923	
ZNF146	0.37771193	0.02953616	3.02529063	
ADAM12	-0.37776547	0.02953616	-3.02579084	
HAND1	-0.37775101	0.02953616	-3.02565568	
MATN1	-0.37767514	0.02953858	-3.02494689	
BEND6	-0.37759938	0.02958607	-3.02423921	
TFAP2B	-0.37757630	0.02959242	-3.02402358	
CDH16	-0.37755358	0.02959849	-3.02381142	
OR52K2	-0.37751067	0.02962037	-3.02341060	
SLC2A7	-0.37747044	0.02964015	-3.02303493	
IRAK3	0.37740683	0.02964350	3.02244087	
TMPRSS6	-0.37739154	0.02964350	-3.02229807	
LCE2C	-0.37740245	0.02964350	-3.02239995	
CNOT2	0.37743207	0.02964350	3.02267658	
SOAT2	-0.37744484	0.02964350	-3.02279578	
NPY1R	-0.37736987	0.02964879	-3.02209565	
GPHA2	-0.37727177	0.02966254	-3.02117967	
SNORD57	-0.37726295	0.02966254	-3.02109734	
RPS12P23	-0.37729859	0.02966254	-3.02143006	
APOC2	-0.37728064	0.02966254	-3.02126247	
FSCB	-0.37731540	0.02966254	-3.02158703	
CLOCK	0.37729872	0.02966254	3.02143130	
C3orf43	-0.37716865	0.02969643	-3.02021693	
SERPINC1	-0.37718913	0.02969643	-3.02040810	

NAGA	0.37716045	0.02969643	3.02014036	
UGDH	0.37716021	0.02969643	3.02013810	
CTNND2	-0.37712949	0.02970886	-3.01985132	
LYPLA1	0.37695185	0.02976761	3.01819324	
MAP3K2	0.37703808	0.02976761	3.01899806	
ZNF543	0.37694408	0.02976761	3.01812068	
NOTUM	-0.37693637	0.02976761	-3.01804873	
GRM3	-0.37692107	0.02976761	-3.01790599	
C19orf35	-0.37696147	0.02976761	-3.01828306	
TMX3	0.37701101	0.02976761	3.01874542	
CBLN3	-0.37692638	0.02976761	-3.01795549	
ECEL1	-0.37692906	0.02976761	-3.01798057	
OR9I1	-0.37685698	0.02977781	-3.01730786	
RGAG4	-0.37684887	0.02977781	-3.01723216	
DOK5	-0.37686106	0.02977781	-3.01734597	
IMMP2L	0.37685604	0.02977781	3.01729907	
XPO1	0.37682522	0.02978476	3.01701151	
CUGBP1	0.37679883	0.02979387	3.01676529	
MYO16	-0.37674502	0.02979465	-3.01626316	
GAMT	-0.37673875	0.02979465	-3.01620463	
FYTTD1	0.37675755	0.02979465	3.01638008	yes
RSPRY1	0.37676357	0.02979465	3.01643626	
MARCH5	0.37671471	0.02980193	3.01598040	
TMEM203	0.37668990	0.02980983	3.01574886	
NCRNA00085	-0.37660483	0.02983032	-3.01495527	
EIF2B1	0.37663616	0.02983032	3.01524753	
FBXO4	0.37660974	0.02983032	3.01500105	
LOC730241	-0.37661878	0.02983032	-3.01508535	
PFKFB2	0.37656514	0.02984994	3.01458495	
C7orf11	0.37650628	0.02987307	3.01403594	
ABTB2	-0.37651838	0.02987307	-3.01414883	
NGLY1	0.37648652	0.02987703	3.01385160	
HTN1	-0.37645237	0.02989232	-3.01353312	
C2orf51	-0.37640367	0.02991907	-3.01307895	
RPS27P13	-0.37636264	0.02992285	-3.01269627	
BCL2L11	0.37632540	0.02992285	3.01234895	
CSNK1G3	0.37633308	0.02992285	3.01242063	
MORC3	0.37637445	0.02992285	3.01280641	
CWF19L1	0.37633931	0.02992285	3.01247870	
LOC139431	-0.37619423	0.03001469	-3.01112588	
GTF2I	0.37616794	0.03002386	3.01088075	
ATP5S	0.37613029	0.03002625	3.01052976	
SNORD114-26	-0.37612088	0.03002625	-3.01044208	
MGC16121	-0.37613020	0.03002625	-3.01052895	
HARS	0.37608788	0.03004074	3.01013442	
NRK	-0.37606155	0.03004667	-3.00988895	
ARFIP1	0.37603641	0.03004667	3.00965463	
SRD5A3	0.37603881	0.03004667	3.00967696	
LOC401097	-0.37596202	0.03008391	-3.00896115	yes
ERGIC2	0.37596001	0.03008391	3.00894247	

CLEC4GP1	-0.37594365	0.03008527	-3.00879000	
SLC3A1	-0.37592691	0.03008694	-3.00863394	
ZNF24	0.37589037	0.03010427	3.00829341	
C20orf118	-0.37587188	0.03010733	-3.00812104	
IL22RA2	-0.37577020	0.03010811	-3.00717351	
SARDH	-0.37582903	0.03010811	-3.00772174	
DSCR10	-0.37572495	0.03010811	-3.00675179	
C17orf102	-0.37573910	0.03010811	-3.00688365	
UBL3	0.37576698	0.03010811	3.00714344	yes
TMEM19	0.37576475	0.03010811	3.00712273	
C7orf44	0.37573361	0.03010811	3.00683253	
PTPRK	0.37584712	0.03010811	3.00789030	
SI	-0.37580883	0.03010811	-3.00753344	
TOMM20	0.37579454	0.03010811	3.00740028	
GSTP1	0.37569364	0.03010983	3.00646006	
RPL23AP32	-0.37570192	0.03010983	-3.00653720	
ATP8B3	-0.37563971	0.03011342	-3.00595760	
ZNF385B	-0.37565826	0.03011342	-3.00613042	
GJD4	-0.37562381	0.03011342	-3.00580947	
NR5A1	-0.37561636	0.03011342	-3.00574003	
TSC22D2	-0.37566406	0.03011342	-3.00618447	
RASGRP1	0.37553952	0.03013393	3.00502420	
SNORD83B	-0.37554124	0.03013393	-3.00504023	
PEX5L	-0.37553232	0.03013393	-3.00495713	
CASP3	0.37556970	0.03013393	3.00530539	
S100A7L2	-0.37551068	0.03013956	-3.00475556	
LPO	-0.37544854	0.03016948	-3.00417677	
RTKN	-0.37544386	0.03016948	-3.00413312	
DDI2	0.37540412	0.03018946	3.00376300	
GPR176	-0.37533880	0.03022974	-3.00315466	
NXT2	0.37528299	0.03026252	3.00263484	yes
PLEKHG1	0.37523970	0.03028539	3.00223174	
H1FOO	-0.37520277	0.03029406	-3.00188781	
FBXL16	-0.37519980	0.03029406	-3.00186022	
ARNTL2	0.37513847	0.03031979	3.00128916	
RXRG	-0.37514613	0.03031979	-3.00136044	
SNORD80	0.37511623	0.03032596	3.00108212	
FLJ45831	-0.37505822	0.03034909	-3.00054201	
ZNF581	-0.37505882	0.03034909	-3.00054760	
SLC6A18	-0.37501231	0.03037412	-3.00011455	
REBP	-0.37497763	0.03039022	-2.99979174	
RPL27P8	-0.37490980	0.03042123	-2.99916034	
ANUBL1	0.37491803	0.03042123	2.99923696	
KCNK7	-0.37479075	0.03043561	-2.99805234	
FMOD	-0.37479559	0.03043561	-2.99809740	
RAB26	-0.37482019	0.03043561	-2.99832632	
TES	0.37480951	0.03043561	2.99822695	
LOC346329	-0.37485330	0.03043561	-2.99863445	
RPL36P14	-0.37483961	0.03043561	-2.99850707	
ITGA2B	-0.37481464	0.03043561	-2.99827464	

RHBDD1	0.37476621	0.03044368	2.99782400	
SLC27A5	-0.37467833	0.03045072	-2.99700618	
OR4K13	-0.37470878	0.03045072	-2.99728952	
C1orf103	0.37468470	0.03045072	2.99706543	
SPAST	0.37469491	0.03045072	2.99716047	
FAM118B	0.37467421	0.03045072	2.99696787	
B4GALT4	0.37467101	0.03045072	2.99693805	
FTCD	-0.37461204	0.03047482	-2.99638933	
ZNF770	0.37461638	0.03047482	2.99642977	
LOC100130503	-0.37453918	0.03048664	-2.99571144	
SP8	-0.37451565	0.03048664	-2.99549254	
PYGO1	-0.37455883	0.03048664	-2.99589429	
OR5L2	-0.37451107	0.03048664	-2.99544997	
RPS18P12	-0.37453739	0.03048664	-2.99569479	
SLC43A1	-0.37457269	0.03048664	-2.99602325	
TMED5	0.37448700	0.03049440	2.99522600	
RP11-429E11.3	-0.37432413	0.03049480	-2.99371102	
HBCBP	-0.37424797	0.03049480	-2.99300273	
ATE1	0.37443527	0.03049480	2.99474482	
ZNF497	-0.37433250	0.03049480	-2.99378887	
C9orf141	-0.37430037	0.03049480	-2.99349003	
RRAS2	-0.37421487	0.03049480	-2.99269491	
CAMTA2	-0.37438065	0.03049480	-2.99423671	
PYY2	-0.37428545	0.03049480	-2.99335127	
STOML2	0.37445109	0.03049480	2.99489200	
KCNK3	-0.37421745	0.03049480	-2.99271890	
LBP	-0.37432133	0.03049480	-2.99368504	
HERV-FRD	-0.37426325	0.03049480	-2.99314484	
ME2	0.37423928	0.03049480	2.99292193	
LOC440311	-0.37423282	0.03049480	-2.99286180	
PLXNB3	-0.37442017	0.03049480	-2.99460434	yes
RBM23	0.37424009	0.03049480	2.99292941	
PTPRN	-0.37424628	0.03049480	-2.99298698	
NF-E4	-0.37439612	0.03049480	-2.99438066	
LOC84856	-0.37446835	0.03049480	-2.99505254	
HDAC1	0.37419802	0.03049688	2.99253819	
TERF2IP	0.37412164	0.03054645	2.99182800	
KCNG1	-0.37410475	0.03054856	-2.99167095	
C1orf2	-0.37399621	0.03055572	-2.99066180	
PADI2	-0.37399791	0.03055572	-2.99067759	
OR1N1	-0.37407175	0.03055572	-2.99136403	
NANOS2	-0.37401391	0.03055572	-2.99082634	
SLC35E4	-0.37406196	0.03055572	-2.99127309	
INHBA	-0.37401265	0.03055572	-2.99081457	
PRAM1	-0.37403528	0.03055572	-2.99102499	
LOC100128550	-0.37389693	0.03062371	-2.98973880	
RAB11FIP5	-0.37385230	0.03062553	-2.98932398	
MUSTN1	-0.37385204	0.03062553	-2.98932157	
LRRC26	-0.37387316	0.03062553	-2.98951785	
SFRS9	0.37382291	0.03063749	2.98905080	

SHISA4	-0.37371335	0.03064576	-2.98803257	
KANK4	-0.37372364	0.03064576	-2.98812814	
GCNT1	0.37375563	0.03064576	2.98842545	
BSX	-0.37373036	0.03064576	-2.98819060	
NMB	-0.37372420	0.03064576	-2.98813336	
SAPS3	0.37371902	0.03064576	2.98808521	yes
XPNPEP1	0.37379532	0.03064576	2.98879437	
CETN1	-0.37358177	0.03064934	-2.98680980	
ZFP92	-0.37366581	0.03064934	-2.98759074	
GALK2	0.37365975	0.03064934	2.98753441	
FLJ43093	-0.37357698	0.03064934	-2.98676532	
PGGT1B	0.37367004	0.03064934	2.98763001	
NT5M	-0.37357088	0.03064934	-2.98670860	
HCN2	-0.37362345	0.03064934	-2.98719707	
C7orf25	0.37356754	0.03064934	2.98667755	
KALRN	-0.37360483	0.03064934	-2.98702409	
FRMPD4	-0.37364811	0.03064934	-2.98742623	
ZNF776	0.37350769	0.03068593	2.98612151	
FOXD3	-0.37346730	0.03070698	-2.98574628	
COL8A1	-0.37331916	0.03072410	-2.98437011	
CRYGA	-0.37337675	0.03072410	-2.98490507	
ECH1	0.37343094	0.03072410	2.98540847	
OR1S1	-0.37333374	0.03072410	-2.98450550	
PSMA2	0.37334540	0.03072410	2.98461382	
TACR3	-0.37337126	0.03072410	-2.98485408	
BTN1A1	-0.37340658	0.03072410	-2.98518210	
TYRP1	-0.37340325	0.03072410	-2.98515118	
PABPC4	0.37332162	0.03072410	2.98439289	
CYLC2	-0.37323705	0.03074572	-2.98360744	
CHIA	-0.37322504	0.03074572	-2.98349584	
ASCC1	0.37324097	0.03074572	2.98364383	yes
FLJ10490	-0.37322190	0.03074572	-2.98346676	
ZNF264	0.37326447	0.03074572	2.98386205	
CEBPE	-0.37320601	0.03074720	-2.98331915	
PSORS1C2	-0.37315795	0.03076323	-2.98287280	
CREB3L3	-0.37316931	0.03076323	-2.98297828	
CRHBP	-0.37311031	0.03078417	-2.98243036	yes
FAM46D	-0.37310377	0.03078417	-2.98236965	
HINT1	0.37305299	0.03081367	2.98189810	
C14orf156	0.37302341	0.03082616	2.98162346	
LRRC37B	0.37300089	0.03083299	2.98141436	
ZCCHC3	-0.37297709	0.03084085	-2.98119341	
OR8H1	-0.37294051	0.03085899	-2.98085379	
KBTBD5	-0.37288052	0.03088471	-2.98029683	
MRPS18C	0.37288230	0.03088471	2.98031338	
METTL4	0.37285371	0.03089501	2.98004801	
UNQ6493	-0.37263730	0.03092460	-2.97803931	
CD300LD	-0.37276663	0.03092460	-2.97923967	
ADAM10	0.37264936	0.03092460	2.97815118	
ZNF524	-0.37269458	0.03092460	-2.97857092	

SORCS3	-0.37263539	0.03092460	-2.97802153	
ASPG	-0.37265391	0.03092460	-2.97819344	
C10orf113	0.37269355	0.03092460	2.97856132	
PAEP	-0.37272612	0.03092460	-2.97886368	
TFDP3	-0.37272540	0.03092460	-2.97885698	
TRAPPC2	0.37264939	0.03092460	2.97815148	
SLC2A5	-0.37275607	0.03092460	-2.97914160	
C7orf64	0.37273255	0.03092460	2.97892327	
SPPL2A	0.37278847	0.03092460	2.97944232	
CLUL1	-0.37259452	0.03093720	-2.97764224	
HOXC9	-0.37259187	0.03093720	-2.97761770	
LCLAT1	0.37253588	0.03095985	2.97709815	
MRPL47	0.37253892	0.03095985	2.97712634	
SHC2	-0.37249130	0.03097334	-2.97668448	
IGDCC4	-0.37250511	0.03097334	-2.97681266	
COL2A1	-0.37246732	0.03098145	-2.97646194	
THUMPD2	0.37239289	0.03102457	2.97577138	
SYCE1	-0.37238601	0.03102457	-2.97570761	
NARG1	0.37236410	0.03103103	2.97550435	
HNRNPA1L2	0.37227547	0.03106893	2.97468215	
OTUD7A	-0.37229616	0.03106893	-2.97487406	
LOC729756	-0.37228457	0.03106893	-2.97476658	
WDR75	0.37221481	0.03110671	2.97411948	
TTL8	-0.37216876	0.03112150	-2.97369238	
MAGEE1	-0.37217898	0.03112150	-2.97378712	
ANKRD43	-0.37214913	0.03112615	-2.97351033	
FADS3	-0.37209406	0.03113705	-2.97299956	yes
KLK15	-0.37210053	0.03113705	-2.97305954	
MAPK11	-0.37209809	0.03113705	-2.97303694	yes
ANKRD7	-0.37206617	0.03114840	-2.97274090	
LOC100129940	-0.37204761	0.03115221	-2.97256875	
ABCD1	-0.37201490	0.03116747	-2.97226548	
GJA4	-0.37199829	0.03116970	-2.97211146	
RESP18	-0.37196686	0.03118394	-2.97182005	
CAND2	-0.37186089	0.03120878	-2.97083745	
KRT84	-0.37190003	0.03120878	-2.97120036	
ATP6V1G2	-0.37185625	0.03120878	-2.97079445	
MKL1	-0.37185322	0.03120878	-2.97076638	
SRF	-0.37191522	0.03120878	-2.97134120	
MAP4K3	0.37187917	0.03120878	2.97100691	
RSPO2	-0.37182935	0.03121693	-2.97054509	
LOC339483	-0.37181093	0.03122067	-2.97037431	
EYA4	0.37176478	0.03123570	2.96994647	
RIOK2	0.37177568	0.03123570	2.97004750	
HOXA10	-0.37170338	0.03127429	-2.96937735	
C5orf47	-0.37163680	0.03128634	-2.96876019	
DLD	0.37163772	0.03128634	2.96876874	
LASS6	0.37162808	0.03128634	2.96867938	yes
KRTAP12-4	-0.37163133	0.03128634	-2.96870952	
C1orf130	-0.37161961	0.03128634	-2.96860091	

NTNG1	-0.37158699	0.03129259	-2.96829855	
RGSL1	-0.37158436	0.03129259	-2.96827422	
UBE2U	-0.37148653	0.03131990	-2.96736757	
HOXB2	-0.37151797	0.03131990	-2.96765895	
C6orf174	-0.37153190	0.03131990	-2.96778801	
FANCL	0.37146819	0.03131990	2.96719760	
TRPC2	-0.37147130	0.03131990	-2.96722646	
BZW1	0.37149814	0.03131990	2.96747517	
SYCE2	-0.37141751	0.03133874	-2.96672804	
AGPS	0.37142256	0.03133874	2.96677478	
C1orf216	-0.37135511	0.03137829	-2.96614987	
GLP2R	-0.37133368	0.03138455	-2.96595133	
APPBP2	0.37126873	0.03138466	2.96534960	
PRDM4	0.37114177	0.03138466	2.96417348	yes
ZNF480	0.37130281	0.03138466	2.96566536	
LOC255374	-0.37119561	0.03138466	-2.96467228	
ZNF326	0.37115744	0.03138466	2.96431870	
FAM47C	-0.37119798	0.03138466	-2.96469419	
ATP7B	0.37129576	0.03138466	2.96559997	
RINT1	0.37121810	0.03138466	2.96488056	
THRSP	-0.37115948	0.03138466	-2.96433758	
C16orf52	0.37120614	0.03138466	2.96476976	
ADAMTS12	-0.37114193	0.03138466	-2.96417497	
KRTAP9-3	-0.37127177	0.03138466	-2.96537777	
MKI67IP	0.37122139	0.03138466	2.96491106	
KISS1R	-0.37124343	0.03138466	-2.96511523	
PLBD1	0.37109142	0.03140337	2.96370717	
SIGLEC10	-0.37110203	0.03140337	-2.96380548	
CELP	-0.37101895	0.03141790	-2.96303595	
GPSM1	-0.37104334	0.03141790	-2.96326188	
NKX1-2	-0.37103206	0.03141790	-2.96315737	
PSMA6	0.37103143	0.03141790	2.96315156	
DICER1	0.37099081	0.03141859	2.96277539	
PRM1	-0.37100153	0.03141859	-2.96287470	
EFS	-0.37089997	0.03147804	-2.96193420	
ARID2	0.37088086	0.03147804	2.96175723	yes
PPEF2	-0.37087688	0.03147804	-2.96172042	
KLHDC10	0.37080692	0.03152395	2.96107267	yes
PEX3	0.37073575	0.03157091	2.96041377	
TTC39C	0.37069025	0.03159695	2.95999258	yes
ZMPSTE24	0.37062950	0.03160210	2.95943022	
DDX52	0.37064035	0.03160210	2.95953061	
TMEM50A	0.37064025	0.03160210	2.95952971	
RAPGEF6	0.37065687	0.03160210	2.95968358	
BIRC8	-0.37053665	0.03166691	-2.95857083	
NDUFB6	0.37047565	0.03168346	2.95800620	
PLAC8	0.37048690	0.03168346	2.95811034	yes
VTA1	0.37049136	0.03168346	2.95815160	yes
CCT2	0.37040253	0.03170190	2.95732960	
C20orf201	-0.37038988	0.03170190	-2.95721254	

ANO7	-0.37038523	0.03170190	-2.95716948	
CASS4	-0.37039226	0.03170190	-2.95723451	
FUBP1	0.37042525	0.03170190	2.95753982	
TMEM160	-0.37036389	0.03170826	-2.95697202	
SLC19A1	-0.37034377	0.03171364	-2.95678580	
OR9G4	-0.37027199	0.03173913	-2.95612168	
TNR	-0.37028659	0.03173913	-2.95625675	
CHST10	-0.37028081	0.03173913	-2.95620334	yes
SCFD1	0.37024220	0.03174134	2.95584605	
MRPL34	-0.37024763	0.03174134	-2.95589629	
RNF139	0.37020676	0.03174760	2.95551819	
ADAMTS15	-0.37019804	0.03174760	-2.95543756	
FANCF	0.37019394	0.03174760	2.95539961	yes
COL22A1	-0.37012822	0.03177039	-2.95479167	
MYOD1	-0.37014434	0.03177039	-2.95494079	
FZD8	-0.37012557	0.03177039	-2.95476714	
HBS1L	0.37010597	0.03177538	2.95458580	
BSND	-0.37007689	0.03178815	-2.95431686	
CLEC4D	-0.37004869	0.03180020	-2.95405604	
LCN9	-0.37002333	0.03180993	-2.95382144	
OR4C3	-0.36992901	0.03181788	-2.95294907	
IFNAR2	0.36992527	0.03181788	2.95291448	
FAM49B	0.36989764	0.03181788	2.95265897	
LOC55908	-0.36987215	0.03181788	-2.95242328	
CHST7	-0.36995665	0.03181788	-2.95320473	
MRPS14	0.36998432	0.03181788	2.95346059	
SEL1L	0.36991335	0.03181788	2.95280424	
CREB3L2	-0.36985187	0.03181788	-2.95223576	
SPIB	-0.36985281	0.03181788	-2.95224440	
BRD3	-0.36986392	0.03181788	-2.95234721	
ABHD13	0.36991395	0.03181788	2.95280986	
RNF7	0.36985748	0.03181788	2.95228762	
MED4	0.36982645	0.03182771	2.95200065	
SC65	-0.36981072	0.03182958	-2.95185521	
IVNS1ABP	0.36968836	0.03183393	2.95072387	yes
TRIM9	-0.36968123	0.03183393	-2.95065800	
C3orf45	-0.36966944	0.03183393	-2.95054899	
AGER	-0.36971687	0.03183393	-2.95098750	
OR1C1	-0.36973026	0.03183393	-2.95111128	
PKLR	-0.36963450	0.03183393	-2.95022600	
C10orf18	0.36963093	0.03183393	2.95019298	
ACSM5	-0.36973794	0.03183393	-2.95118233	
BEGAIN	-0.36977694	0.03183393	-2.95154291	
CLRN1	-0.36966982	0.03183393	-2.95055248	
RUFY1	0.36963162	0.03183393	2.95019933	
LG11	-0.36965535	0.03183393	-2.95041869	
KIAA0196	0.36979144	0.03183393	2.95167695	
LOC100128364	-0.36956907	0.03185570	-2.94962116	
PDIK1L	0.36955287	0.03185570	2.94947136	yes
C14orf100	0.36958123	0.03185570	2.94973349	

UBB	0.36955085	0.03185570	2.94945270	
HHIPL1	-0.36952572	0.03186535	-2.94922040	
TMEM167A	0.36942920	0.03191452	2.94832828	
FBXO28	0.36938567	0.03191452	2.94792604	yes
SLC35B3	0.36939065	0.03191452	2.94797204	
CCDC90B	0.36939311	0.03191452	2.94799482	
TM2D2	0.36941213	0.03191452	2.94817061	
URB2	0.36939910	0.03191452	2.94805013	
TRIM2	0.36933763	0.03193207	2.94748205	yes
ALOX15B	-0.36934203	0.03193207	-2.94752276	
C10orf11	-0.36932208	0.03193388	-2.94733835	
DPCR1	-0.36925118	0.03195135	-2.94668321	
XRN2	0.36922852	0.03195135	2.94647386	
DTWD2	0.36925410	0.03195135	2.94671020	
LOC387720	-0.36921721	0.03195135	-2.94636939	
MLH1	0.36919420	0.03195135	2.94615680	
NOX3	-0.36926111	0.03195135	-2.94677498	
DOK3	-0.36920081	0.03195135	-2.94621784	
CHST3	-0.36921360	0.03195135	-2.94633600	
USF2	-0.36914125	0.03197618	-2.94566753	
C1orf170	-0.36913741	0.03197618	-2.94563210	
PNMA5	-0.36902220	0.03200486	-2.94456776	
GDPD4	-0.36903438	0.03200486	-2.94468030	
DEFB113	-0.36900952	0.03200486	-2.94445064	
RHBDD3	-0.36904890	0.03200486	-2.94481441	
HECTD1	0.36903688	0.03200486	2.94470336	yes
GLP1R	-0.36902853	0.03200486	-2.94462626	
LOC390956	-0.36908307	0.03200486	-2.94513010	
PCDH10	-0.36899420	0.03200654	-2.94430909	
HOXC5	-0.36894922	0.03202172	-2.94389368	
NRG2	-0.36895326	0.03202172	-2.94393097	
PSG2	-0.36888470	0.03206260	-2.94329774	
SNAP91	-0.36887309	0.03206260	-2.94319049	
CBLB	0.36882380	0.03209232	2.94273530	yes
CYP26C1	-0.36872739	0.03215864	-2.94184508	
OR2B3	-0.36867723	0.03215864	-2.94138189	
YBX2	-0.36869269	0.03215864	-2.94152463	
HMGCLL1	-0.36871306	0.03215864	-2.94171274	
PRPF40A	0.36868285	0.03215864	2.94143376	
DLEU7	-0.36864409	0.03216820	-2.94107593	
EFCAB5	-0.36861502	0.03216820	-2.94080749	
OGDHL	-0.36861402	0.03216820	-2.94079827	
CCL25	-0.36861272	0.03216820	-2.94078629	
CIB3	-0.36846693	0.03219051	-2.93944040	
COL6A2	-0.36849758	0.03219051	-2.93972332	yes
EXD1	-0.36850776	0.03219051	-2.93981732	
OR4S2	-0.36846084	0.03219051	-2.93938414	
ZFR2	-0.36845462	0.03219051	-2.93932674	
KLHL20	0.36851839	0.03219051	2.93991545	
KCNA7	-0.36854107	0.03219051	-2.94012475	

LOC641515	-0.36846202	0.03219051	-2.93939508	
TPO	-0.36855464	0.03219051	-2.94025012	yes
C15orf29	0.36845365	0.03219051	2.93931781	
MUC17	-0.36842683	0.03220178	-2.93907022	
DOHH	-0.36839158	0.03222004	-2.93874486	
MCCC2	0.36824488	0.03231476	2.93739096	
SEC16B	-0.36823769	0.03231476	-2.93732461	
SEP15	0.36823819	0.03231476	2.93732929	
BAZ1A	0.36822237	0.03231654	2.93718327	yes
CDX2	-0.36820757	0.03231789	-2.93704675	
SLC25A26	0.36811149	0.03233949	2.93616018	
C5orf37	0.36801066	0.03233949	2.93522991	
PAP2D	-0.36814446	0.03233949	-2.93646441	
C11orf45	-0.36801430	0.03233949	-2.93526351	
OR4D11	-0.36802899	0.03233949	-2.93539899	
C11orf20	-0.36803627	0.03233949	-2.93546622	yes
FGF22	-0.36811244	0.03233949	-2.93616894	
TAAR6	-0.36805674	0.03233949	-2.93565506	
KAAG1	-0.36807163	0.03233949	-2.93579244	
C2orf29	0.36809852	0.03233949	2.93604047	
TCF15	-0.36804397	0.03233949	-2.93553721	
ATP6V0D1	0.36813372	0.03233949	2.93636532	
LITAF	0.36807162	0.03233949	2.93579228	
SLC2A2	-0.36798090	0.03235329	-2.93495542	
MIB1	0.36792641	0.03235500	2.93445277	
MARCKSL1	-0.36794952	0.03235500	-2.93466595	
NARG2	0.36794189	0.03235500	2.93459555	
SP6	-0.36793917	0.03235500	-2.93457043	
ANO4	-0.36786288	0.03239446	-2.93386677	
C10orf139	-0.36785268	0.03239446	-2.93377262	
SPATA19	-0.36783507	0.03239822	-2.93361020	
KIAA1024L	-0.36781196	0.03240654	-2.93339704	
PFTK2	-0.36772647	0.03246672	-2.93260869	
TMEM95	-0.36770217	0.03246970	-2.93238452	
PDLIM1	0.36769673	0.03246970	2.93233439	
CSHL1	-0.36767818	0.03247425	-2.93216335	
TEKT5	-0.36762750	0.03249468	-2.93169600	
KCNC1	-0.36763412	0.03249468	-2.93175707	
LYPD1	-0.36756035	0.03253972	-2.93107687	
ELAVL3	-0.36753465	0.03254194	-2.93083992	
ZNF804B	-0.36750546	0.03254194	-2.93057074	
TRIM58	-0.36751431	0.03254194	-2.93065239	
PF4	-0.36752684	0.03254194	-2.93076792	
TRAPPC6B	0.36749130	0.03254286	2.93044028	
TPST1	0.36747002	0.03254972	2.93024410	
TRIM40	-0.36744398	0.03256055	-2.93000404	
C18orf25	0.36739882	0.03256708	2.92958769	
AMIGO3	-0.36739705	0.03256708	-2.92957135	
KRTAP3-1	-0.36740121	0.03256708	-2.92960971	
CNDP2	0.36737904	0.03257076	2.92940537	

KCNK17	-0.36736658	0.03257076	-2.92929055	
LOC154872	-0.36733790	0.03257894	-2.92902617	
OR10A3	-0.36729171	0.03257894	-2.92860042	
IGSF22	-0.36729648	0.03257894	-2.92864439	
HOXC13	-0.36729357	0.03257894	-2.92861751	
SLC5A5	-0.36732552	0.03257894	-2.92891207	
CEP57	0.36726588	0.03258964	2.92836232	
ALDH1A2	-0.36725116	0.03259107	-2.92822669	
CLRN3	-0.36723741	0.03259170	-2.92809992	
C3orf22	-0.36721898	0.03259623	-2.92793012	
ALLC	-0.36707535	0.03270535	-2.92660649	
NFKBIL2	-0.36705128	0.03271462	-2.92638468	
EZR	0.36700818	0.03273982	2.92598757	yes
CCPG1	0.36699476	0.03274019	2.92586393	
MSL1	-0.36696968	0.03274552	-2.92563291	
ASNSD1	0.36696243	0.03274552	2.92556614	
MYOM3	-0.36691853	0.03277142	-2.92516170	
ALS2CR11	-0.36684245	0.03281962	-2.92446082	
LRFN4	-0.36683509	0.03281962	-2.92439302	
PAX3	-0.36680711	0.03283221	-2.92413527	
PRR13	-0.36678854	0.03283692	-2.92396424	
CCL26	-0.36676629	0.03284471	-2.92375933	
GPA33	-0.36670635	0.03286242	-2.92320724	
FOXR2	-0.36673131	0.03286242	-2.92343710	
C13orf39	-0.36671573	0.03286242	-2.92329361	
C7orf45	-0.36667742	0.03287584	-2.92294075	
BEND2	-0.36664671	0.03289077	-2.92265793	
RER1	0.36656588	0.03294784	2.92191359	
SLC19A3	-0.36654316	0.03295607	-2.92170435	
DPYSL5	-0.36650000	0.03295975	-2.92130696	
TBL1XR1	0.36650119	0.03295975	2.92131793	
C12orf30	0.36650737	0.03295975	2.92137481	
AGAP2	-0.36647483	0.03296730	-2.92107527	
METTL6	0.36636233	0.03296730	2.92003950	
GNAI3	0.36640608	0.03296730	2.92044229	
LOC100133407	-0.36642920	0.03296730	-2.92065509	
GRIN2B	-0.36636198	0.03296730	-2.92003624	
FAM149B1	0.36636316	0.03296730	2.92004707	yes
MYO15A	-0.36643812	0.03296730	-2.92073726	
SLC39A4	-0.36637733	0.03296730	-2.92017760	
BAI2	-0.36636965	0.03296730	-2.92010684	
RPL7A	-0.36639326	0.03296730	-2.92032424	
OR9A2	-0.36633891	0.03297587	-2.91982386	
FJX1	-0.36621560	0.03301465	-2.91868878	
HOXA11	-0.36623194	0.03301465	-2.91883924	
OR10C1	-0.36626653	0.03301465	-2.91915759	
CABP2	-0.36622222	0.03301465	-2.91874970	
TMEM111	0.36627293	0.03301465	2.91921651	
RAB11A	0.36624313	0.03301465	2.91894220	yes
PADI4	-0.36613714	0.03303358	-2.91796666	

OPTC	-0.36612885	0.03303358	-2.91789040	
FAM19A3	-0.36613915	0.03303358	-2.91798522	
DNM1P34	-0.36613172	0.03303358	-2.91791677	
TMEM62	0.36617094	0.03303358	2.91827778	
OR8D2	-0.36611243	0.03303659	-2.91773929	
MFN1	0.36607166	0.03306012	2.91736410	
RCBTB1	0.36603261	0.03308223	2.91700470	
CLDN2	-0.36601111	0.03308953	-2.91680686	
ZDHHC19	-0.36597709	0.03310741	-2.91649378	
GOPC	0.36590003	0.03316164	2.91578481	
CYB5R4	0.36588210	0.03316596	2.91561984	
RPP14	0.36586564	0.03316903	2.91546836	
C7orf66	-0.36581647	0.03317809	-2.91501604	
C8orf82	-0.36582245	0.03317809	-2.91507101	yes
PNO1	0.36584004	0.03317809	2.91523283	
VWA1	-0.36577914	0.03319882	-2.91467259	yes
NDST3	-0.36576129	0.03320309	-2.91450838	
TOR1AIP2	0.36572763	0.03322060	2.91419882	
EPB42	-0.36571498	0.03322060	-2.91408239	
ELK1	-0.36569470	0.03322473	-2.91389583	
LMAN2L	0.36568451	0.03322473	2.91380214	
OSM	-0.36565499	0.03323888	-2.91353061	
C2orf57	-0.36560042	0.03327426	-2.91302870	
IGSF9B	-0.36553919	0.03331532	-2.91246564	
DUSP11	0.36550787	0.03332020	2.91217761	
TEAD2	-0.36551705	0.03332020	-2.91226203	
PIGN	0.36545814	0.03332988	2.91172027	
WDR51B	0.36547327	0.03332988	2.91185939	yes
ZBTB41	0.36546812	0.03332988	2.91181208	
APOC3	-0.36541235	0.03334707	-2.91129925	
TFRC	0.36541318	0.03334707	2.91130683	
PSMA3	0.36532082	0.03341190	2.91045766	
CSRP3	-0.36531048	0.03341190	-2.91036260	
KRTAP6-1	-0.36527723	0.03341324	-2.91005691	
SP1	0.36529507	0.03341324	2.91022092	
LNX1	0.36525415	0.03341324	2.90984470	
TNFRSF10C	-0.36526314	0.03341324	-2.90992733	
C5orf30	0.36524517	0.03341324	2.90976220	
SMAD7	-0.36521410	0.03342882	-2.90947651	
FAM92A3	-0.36518771	0.03344043	-2.90923398	
SUSD3	-0.36513044	0.03347831	-2.90870759	
RP5-1000E10.4	0.36511101	0.03348401	2.90852898	
ATP11B	0.36508151	0.03349830	2.90825781	
ZNF140	0.36505639	0.03350885	2.90802692	
DAPK2	-0.36500593	0.03353017	-2.90756314	
NP	0.36501649	0.03353017	2.90766021	
LOC100128233	-0.36497341	0.03354367	-2.90726435	
CDKN1B	0.36493167	0.03354367	2.90688075	
SPTLC1	0.36491594	0.03354367	2.90673623	
SLC26A3	-0.36490162	0.03354367	-2.90660458	yes

GKN2	-0.36490117	0.03354367	-2.90660050	
EXOSC7	0.36494179	0.03354367	2.90697378	
KRT79	-0.36494401	0.03354367	-2.90699412	
WISP3	-0.36488151	0.03354961	-2.90641985	
KERA	-0.36484259	0.03355036	-2.90606218	
FLJ46838	-0.36486133	0.03355036	-2.90623443	yes
HEATR1	0.36485347	0.03355036	2.90616219	
CBLN4	-0.36482370	0.03355565	-2.90588867	
MARCH11	-0.36473982	0.03361638	-2.90511800	
SYNM	-0.36469928	0.03364017	-2.90474559	
MFSD2	0.36468205	0.03364408	2.90458722	
AFF3	-0.36460315	0.03365743	-2.90386251	
LECT2	-0.36460312	0.03365743	-2.90386223	
MYF5	-0.36461116	0.03365743	-2.90393603	
SPRYD5	-0.36460643	0.03365743	-2.90389265	
ZNF845	0.36460666	0.03365743	2.90389472	
DDX6	0.36455987	0.03366198	2.90346493	
SUNC1	-0.36456305	0.03366198	-2.90349416	
HSPC152	0.36456119	0.03366198	2.90347704	
PNPLA1	-0.36450231	0.03370037	-2.90293624	
JOSD2	-0.36443659	0.03374578	-2.90233273	
PODXL2	-0.36439426	0.03375526	-2.90194396	
ACP1	0.36438763	0.03375526	2.90188309	
ZNF732	-0.36441266	0.03375526	-2.90211298	
C1orf150	-0.36437250	0.03375740	-2.90174414	
COLQ	-0.36435087	0.03376511	-2.90154557	
ADAMTS20	-0.36433549	0.03376749	-2.90140429	
CRYBA2	-0.36426803	0.03378518	-2.90078486	
CPNE9	-0.36426439	0.03378518	-2.90075150	
GPR144	-0.36427619	0.03378518	-2.90085979	
COL20A1	-0.36429671	0.03378518	-2.90104821	
VPS54	0.36424169	0.03379384	2.90054304	
MAPK4	-0.36422763	0.03379509	-2.90041395	
LOC100130019	0.36420472	0.03380382	2.90020362	
SEMA4G	-0.36419225	0.03380382	-2.90008917	
HSF1	-0.36414919	0.03382994	-2.89969384	
PRKACG	-0.36411780	0.03384607	-2.89940562	
ZNF655	0.36408001	0.03386769	2.89905880	
FBXO22	0.36403606	0.03388126	2.89865530	
GPR1	-0.36403144	0.03388126	-2.89861297	
CAGE1	-0.36402648	0.03388126	-2.89856739	
AWAT1	-0.36390124	0.03396869	-2.89741793	
MARVELD1	-0.36389959	0.03396869	-2.89740281	
RPP30	0.36386505	0.03397679	2.89708585	
SSPO	-0.36386718	0.03397679	-2.89710533	
LRFN5	-0.36384960	0.03397928	-2.89694400	
C1orf105	-0.36382901	0.03398619	-2.89675511	
NR2E3	-0.36379821	0.03399021	-2.89647245	
SAMD11	-0.36377929	0.03399021	-2.89629887	
LCN15	-0.36377415	0.03399021	-2.89625165	

MAPK12	-0.36378314	0.03399021	-2.89633413
ZDHHC16	0.36374977	0.03400040	2.89602793
GJD3	-0.36371335	0.03400234	-2.89569383
TAAR9	-0.36367648	0.03400234	-2.89535550
RHOA	0.36369350	0.03400234	2.89551164
OR11L1	-0.36370170	0.03400234	-2.89558695
PIGH	0.36367235	0.03400234	2.89531764
TMEM135	0.36368157	0.03400234	2.89540223
KIAA1219	0.36365782	0.03400407	2.89518432
PDSS2	0.36362372	0.03401189	2.89487146
KLK4	-0.36363487	0.03401189	-2.89497376
SLC13A1	-0.36353757	0.03407531	-2.89408114
MRPL3	0.36349172	0.03408251	2.89366054
OPRD1	-0.36349428	0.03408251	-2.89368408
RDH8	-0.36349302	0.03408251	-2.89367245
UGP2	0.36346243	0.03409699	2.89339194
PRAGMIN	-0.36344098	0.03410472	-2.89319512
RNFT1	0.36340398	0.03411509	2.89285578
KIAA0494	0.36340913	0.03411509	2.89290303
NCRNA00086	-0.36339068	0.03411579	-2.89273382
NLRP8	-0.36336318	0.03411799	-2.89248156
KLHL12	0.36336867	0.03411799	2.89253194
ZNF267	0.36331211	0.03412977	2.89201329
KIAA0907	0.36332624	0.03412977	2.89214281
NXT1	-0.36332091	0.03412977	-2.89209392
PSMC2	0.36328700	0.03414069	2.89178300
C12orf53	-0.36323620	0.03416783	-2.89131713
KRTAP19-6	-0.36323064	0.03416783	-2.89126617
OR4C12	-0.36314750	0.03420739	-2.89050385
PAIP2	0.36315189	0.03420739	2.89054403
AKR1D1	-0.36315501	0.03420739	-2.89057269
ODF3L2	-0.36312810	0.03421340	-2.89032596
CBARA1	0.36306652	0.03423438	2.88976137
C17orf77	-0.36306997	0.03423438	-2.88979304
N6AMT2	0.36307661	0.03423438	2.88985385
ZNF644	0.36304930	0.03423852	2.88960355
C2orf78	-0.36302072	0.03425249	-2.88934147
RPL28	0.36299725	0.03426204	2.88912638
CSMD2	-0.36296151	0.03428222	-2.88879876
CCDC90A	0.36289468	0.03431759	2.88818620
SLC6A1	-0.36288342	0.03431759	-2.88808291
SNRPB	0.36290141	0.03431759	2.88824780
FGF17	-0.36284050	0.03434403	-2.88768953
SIM1	-0.36279689	0.03437108	-2.88728990
FADS6	-0.36276842	0.03437425	-2.88702896
RIOK1	0.36277815	0.03437425	2.88711815
VPS26A	0.36274179	0.03438660	2.88678495
CLTC	0.36270278	0.03438712	2.88642745
CASP14	-0.36270180	0.03438712	-2.88641843
DEFB126	-0.36269847	0.03438712	-2.88638797

CD164	0.36269161	0.03438712	2.88632513	
GABBR1	-0.36267886	0.03438744	-2.88620828	
CYBASC3	0.36264340	0.03440747	2.88588334	
UCP1	-0.36258244	0.03444965	-2.88532481	
RPL23AP12	-0.36256021	0.03445822	-2.88512112	
HES2	-0.36253362	0.03447057	-2.88487749	
MAST1	-0.36250727	0.03448272	-2.88463614	
HNRNPA0	0.36244818	0.03449110	2.88409478	
ANK3	0.36248126	0.03449110	2.88439777	yes
SUPT4H1	0.36244998	0.03449110	2.88411122	
VAMP2	-0.36245219	0.03449110	-2.88413153	
ESRRA	-0.36232933	0.03458381	-2.88300613	
GTF3A	0.36228595	0.03459590	2.88260877	
GAL3ST3	-0.36229284	0.03459590	-2.88267193	
RFT1	0.36227841	0.03459590	2.88253973	
OR4K15	-0.36226234	0.03459915	-2.88239250	
TM6SF2	-0.36212148	0.03471134	-2.88110256	
COL4A3BP	0.36208593	0.03473163	2.88077705	
GLRX3	0.36207301	0.03473213	2.88065878	
PDILT	-0.36204493	0.03474590	-2.88040161	
LOC100133075	-0.36203097	0.03474732	-2.88027380	
WDR41	0.36200570	0.03475864	2.88004244	
TBR1	-0.36182386	0.03478177	-2.87837784	
MASP2	-0.36183487	0.03478177	-2.87847858	
IL17RE	-0.36193288	0.03478177	-2.87937580	
OR8K5	-0.36190784	0.03478177	-2.87914651	
C17orf88	-0.36191193	0.03478177	-2.87918397	
ATP2C1	0.36185205	0.03478177	2.87863585	
OR51V1	-0.36183656	0.03478177	-2.87849402	
YIPF1	0.36184561	0.03478177	2.87857688	
RBP4	-0.36195731	0.03478177	-2.87959942	
CTXN3	-0.36189747	0.03478177	-2.87905161	
LOC619207	-0.36187366	0.03478177	-2.87883364	
TROVE2	0.36181924	0.03478177	2.87833550	
CUL5	0.36190277	0.03478177	2.87910013	
FLJ20464	-0.36180103	0.03478695	-2.87816880	
RBM47	0.36174299	0.03482240	2.87763760	
MRPL49	0.36173598	0.03482240	2.87757340	
COL9A2	-0.36170199	0.03484142	-2.87726239	
LGI4	-0.36166303	0.03485405	-2.87690581	
MFG8	-0.36166736	0.03485405	-2.87694540	
NCR1	-0.36163528	0.03486762	-2.87665182	
NRGN	-0.36158250	0.03489240	-2.87616879	yes
RAB5A	0.36158560	0.03489240	2.87619723	
NXP2	-0.36149344	0.03490874	-2.87535391	
PLAC8L1	-0.36149569	0.03490874	-2.87537447	
TRIM65	-0.36153481	0.03490874	-2.87573249	
ERAP1	0.36151024	0.03490874	2.87550759	
GHDC	-0.36149035	0.03490874	-2.87532561	
BAG5	0.36150338	0.03490874	2.87544489	

ACER3	0.36147658	0.03491007	2.87519967	
STK38	0.36144612	0.03491018	2.87492092	
TMEM65	0.36143976	0.03491018	2.87486272	
TCL1B	-0.36145711	0.03491018	-2.87502147	
LOC728060	-0.36141620	0.03492011	-2.87464722	
TUSC5	-0.36138994	0.03493243	-2.87440693	
CDYL2	-0.36136557	0.03494310	-2.87418398	
ITGAM	-0.36134696	0.03494870	-2.87401375	
SOCS4	0.36133422	0.03494916	2.87389719	
ZNF321	0.36131241	0.03495470	2.87369770	
KIAA0895L	-0.36130349	0.03495470	-2.87361608	
UQCC	0.36125172	0.03497519	2.87314258	
PTPN1	0.36124185	0.03497519	2.87305231	
LOC643406	-0.36123133	0.03497519	-2.87295606	
PRPF4	0.36126261	0.03497519	2.87324220	
XRCC5	0.36118691	0.03500350	2.87254981	
C2orf43	0.36117179	0.03500608	2.87241151	
VIL1	-0.36114049	0.03501217	-2.87212520	
HS3ST3A1	-0.36114651	0.03501217	-2.87218025	
CHAT	-0.36110927	0.03502890	-2.87183970	
STAT3	0.36108062	0.03504338	2.87157768	
CD300LF	-0.36105235	0.03504683	-2.87131914	
OTOR	-0.36105969	0.03504683	-2.87138628	
STAM2	0.36095530	0.03512157	2.87043166	yes
CHCHD4	-0.36090959	0.03512967	-2.87001377	
PLEKHG4	-0.36091673	0.03512967	-2.87007904	
GOLGA7	0.36092200	0.03512967	2.87012726	
BPIL3	-0.36088494	0.03512996	-2.86978838	
AK3	0.36089273	0.03512996	2.86985960	
PGRMC1	0.36084026	0.03515164	2.86937986	
SHANK3	-0.36083603	0.03515164	-2.86934124	yes
PAQR9	-0.36081870	0.03515621	-2.86918278	
OR6Q1	-0.36074985	0.03518980	-2.86855335	
C11orf41	-0.36074365	0.03518980	-2.86849671	
CAB39	0.36073204	0.03518980	2.86839056	
MED9	-0.36075135	0.03518980	-2.86856709	
RPL12P16	0.36069108	0.03521514	2.86801622	
PPP2R2A	0.36067906	0.03521514	2.86790629	
NCRNA00087	-0.36063645	0.03524206	-2.86751683	
GLOD5	-0.36057948	0.03528169	-2.86699618	
MAPK6	0.36055840	0.03528412	2.86680349	
TRHR	-0.36054036	0.03528412	-2.86663865	
BEST1	-0.36054792	0.03528412	-2.86670772	
HADHB	0.36048447	0.03531212	2.86612786	
RPL9	0.36049521	0.03531212	2.86622598	
IMPACT	0.36042760	0.03535175	2.86560818	
TANC2	0.36040959	0.03535697	2.86544362	
GALNT9	-0.36038157	0.03537106	-2.86518760	
ZNF816A	0.36033588	0.03539429	2.86477018	
SLCO1C1	-0.36033116	0.03539429	-2.86472697	

MMADHC	0.36028245	0.03542675	2.86428194	
LILRA1	-0.36023265	0.03544947	-2.86382699	
CACNB4	-0.36023595	0.03544947	-2.86385719	
ZNF271	0.36021985	0.03545009	2.86371013	
KCNJ3	-0.36016025	0.03547081	-2.86316564	
ARRDC3	0.36016422	0.03547081	2.86320195	
GADD45GIP1	-0.36016741	0.03547081	-2.86323109	
C19orf26	-0.36012209	0.03549397	-2.86281708	
LOC148003	-0.36007624	0.03551325	-2.86239828	
NFKB1	0.36008181	0.03551325	2.86244920	
SNORD81	0.36002063	0.03553050	2.86189036	
FLJ13224	-0.36003666	0.03553050	-2.86203683	
PPP1R1B	-0.36002366	0.03553050	-2.86191808	
CDH22	-0.36000612	0.03553267	-2.86175788	
CUX2	-0.35998200	0.03553267	-2.86153758	
WDR26	0.35999160	0.03553267	2.86162525	yes
SFRP5	-0.35993423	0.03556443	-2.86110130	
CEACAM4	-0.35988116	0.03556876	-2.86061671	
C20orf173	-0.35990077	0.03556876	-2.86079576	
ABCB9	-0.35991694	0.03556876	-2.86094343	
COL23A1	-0.35989162	0.03556876	-2.86071225	
LOC147645	-0.35986714	0.03557052	-2.86048870	
PSMD1	0.35983119	0.03559180	2.86016044	
TMEM105	-0.35980657	0.03559196	-2.85993564	
SMEK1	0.35979492	0.03559196	2.85982923	
TMEM59	0.35980033	0.03559196	2.85987871	
C20orf191	-0.35976578	0.03559648	-2.85956321	
NXF4	-0.35977772	0.03559648	-2.85967226	
MS4A13	-0.35969773	0.03564637	-2.85894197	
FLJ34503	-0.35966392	0.03565508	-2.85863332	
KIRREL3	-0.35966826	0.03565508	-2.85867287	
UGT3A1	-0.35958857	0.03566874	-2.85794545	
ARC	-0.35963453	0.03566874	-2.85836502	
FRRS1	0.35960041	0.03566874	2.85805350	
C2orf83	-0.35960788	0.03566874	-2.85812173	
ZNF32	0.35961369	0.03566874	2.85817471	
GAS1	-0.35956116	0.03568248	-2.85769523	
SPINT4	-0.35952295	0.03570585	-2.85734649	
FAM20A	-0.35950795	0.03570853	-2.85720961	
LOC100129492	0.35944464	0.03575087	2.85663174	
SDR16C5	0.35942993	0.03575087	2.85649750	
PPY	-0.35937664	0.03575087	-2.85601118	
S100B	-0.35941918	0.03575087	-2.85639941	
CCL17	-0.35941141	0.03575087	-2.85632846	
C10orf119	0.35938518	0.03575087	2.85608912	
C9orf100	-0.35939764	0.03575087	-2.85620280	
SAP18	0.35923025	0.03577716	2.85467536	
SOX30	-0.35923444	0.03577716	-2.85471362	
CXorf55	-0.35922172	0.03577716	-2.85459755	
SEZ6L	-0.35922153	0.03577716	-2.85459583	

TBPL2	-0.35919182	0.03577716	-2.85432479	
GLTPD2	-0.35933424	0.03577716	-2.85562424	
MOCS1	-0.35920698	0.03577716	-2.85446305	
MYT1	-0.35921170	0.03577716	-2.85450611	
NLK	0.35919808	0.03577716	2.85438185	
TRO	-0.35920739	0.03577716	-2.85446678	
AFAP1L2	-0.35919430	0.03577716	-2.85434741	
MYO18B	-0.35927911	0.03577716	-2.85512117	
SLC22A6	-0.35929798	0.03577716	-2.85529340	
CSPG5	-0.35916996	0.03578603	-2.85412531	
CSNK1A1L	-0.35906818	0.03585461	-2.85319683	
OR8S1	-0.35903361	0.03585461	-2.85288147	
AR	-0.35904083	0.03585461	-2.85294726	
NPPB	-0.35907867	0.03585461	-2.85329249	yes
C15orf44	0.35904022	0.03585461	2.85294176	
TBC1D28	-0.35896777	0.03590005	-2.85228084	
C3orf10	0.35895900	0.03590005	2.85220091	
SNORD32B	-0.35892666	0.03591835	-2.85190594	
PHACTR1	-0.35888580	0.03592296	-2.85153327	
GNRH2	-0.35889426	0.03592296	-2.85161045	
LCE3C	-0.35889805	0.03592296	-2.85164496	
CCNJL	-0.35884344	0.03593958	-2.85114697	
MED21	0.35885208	0.03593958	2.85122576	
ENPP4	0.35881693	0.03595096	2.85090514	
ZDHHC21	0.35880697	0.03595096	2.85081431	
CXADR	0.35874510	0.03599577	2.85025012	
C19orf36	-0.35853878	0.03607439	-2.84836909	
DGUOK	0.35864121	0.03607439	2.84930285	
CCT5	0.35854955	0.03607439	2.84846727	
LOC389137	0.35862922	0.03607439	2.84919355	
PIGF	0.35857880	0.03607439	2.84873387	yes
PRIM2	0.35859045	0.03607439	2.84884013	
C10orf110	-0.35854717	0.03607439	-2.84844550	
LHX5	-0.35854137	0.03607439	-2.84839271	
DAP3	0.35861570	0.03607439	2.84907027	yes
TAAR2	-0.35860645	0.03607439	-2.84898600	
DNAH8	-0.35849935	0.03607786	-2.84800965	
OR51A4	-0.35851810	0.03607786	-2.84818050	
SLC35F5	0.35850095	0.03607786	2.84802418	
CTNNA2	-0.35848583	0.03607937	-2.84788635	
SNX4	0.35847049	0.03608250	2.84774653	
APCS	-0.35843120	0.03609652	-2.84738841	
NPHS1	-0.35843892	0.03609652	-2.84745872	
CST8	-0.35835380	0.03612725	-2.84668287	
FIGNL2	-0.35835165	0.03612725	-2.84666328	
AZGP1	-0.35834968	0.03612725	-2.84664537	
C15orf17	0.35837874	0.03612725	2.84691021	
NDUFB4	0.35832147	0.03614199	2.84638822	
ATG7	0.35829836	0.03615214	2.84617767	
OR2T1	-0.35828457	0.03615392	-2.84605193	

FAM180B	-0.35817156	0.03622375	-2.84502213	
TPM2	-0.35819028	0.03622375	-2.84519270	
CAPNS1	0.35818017	0.03622375	2.84510060	
SCGB3A2	-0.35811605	0.03625250	-2.84451629	
PPP4R2	0.35811873	0.03625250	2.84454075	
PSMG2	0.35809076	0.03626465	2.84428591	
DBC1	-0.35804422	0.03629600	-2.84386185	
CDA	-0.35800516	0.03632060	-2.84350603	
NLGN3	-0.35796444	0.03634673	-2.84313504	
PDIA6	0.35786163	0.03637753	2.84219856	
C10orf32	0.35784781	0.03637753	2.84207270	
TC2N	0.35788353	0.03637753	2.84239805	yes
SBK1	-0.35788453	0.03637753	-2.84240712	
SFRS2	0.35788887	0.03637753	2.84244668	
TPD52	0.35787237	0.03637753	2.84229633	
ULK1	-0.35785293	0.03637753	-2.84211925	
METRN	-0.35781032	0.03640079	-2.84173117	
SESTD1	0.35776108	0.03643469	2.84128275	
KRT32	-0.35774824	0.03643565	-2.84116579	
GLOD4	0.35765688	0.03647057	2.84033374	
CD320	-0.35763802	0.03647057	-2.84016200	
CROT	0.35767771	0.03647057	2.84052348	
LOC643905	-0.35769021	0.03647057	-2.84063730	
TNNT1	-0.35761991	0.03647057	-2.83999710	
AKT1S1	-0.35765644	0.03647057	-2.84032977	
MCM8	0.35761557	0.03647057	2.83995757	
ZNF432	0.35761759	0.03647057	2.83997597	
FRAG1	0.35759881	0.03647511	2.83980497	
RTBDN	-0.35754233	0.03650500	-2.83929070	
BSN	-0.35754643	0.03650500	-2.83932801	
OXER1	-0.35751200	0.03652184	-2.83901458	
MRPL42	0.35749479	0.03652680	2.83885789	
CSNK1G1	0.35745167	0.03653042	2.83846527	
KCNK10	-0.35744086	0.03653042	-2.83836687	
FLJ40606	-0.35742042	0.03653042	-2.83818081	
TERT	-0.35742895	0.03653042	-2.83825848	
NKAIN1	-0.35742203	0.03653042	-2.83819542	
TRIM15	-0.35743899	0.03653042	-2.83834986	
GLT6D1	-0.35740189	0.03653659	-2.83801213	
MEP1A	-0.35735473	0.03656874	-2.83758282	
MAGEC3	-0.35730586	0.03660248	-2.83713791	
EXOSC6	-0.35728648	0.03660944	-2.83696151	
SYN3	-0.35721503	0.03666373	-2.83631122	
IPMK	0.35719459	0.03666955	2.83612517	yes
FKRP	-0.35718521	0.03666955	-2.83603982	
ZNF564	0.35710565	0.03668101	2.83531579	
HNF4A	-0.35710243	0.03668101	-2.83528644	
FAM132A	-0.35710566	0.03668101	-2.83531585	
DUSP22	0.35712359	0.03668101	2.83547899	
NAT13	0.35712282	0.03668101	2.83547201	

VPS25	0.35713910	0.03668101	2.83562015	
G6PC	-0.35705101	0.03668337	-2.83481858	
KCNJ13	-0.35704287	0.03668337	-2.83474450	
RGS16	-0.35702974	0.03668337	-2.83462501	
KAZALD1	-0.35708409	0.03668337	-2.83511953	
LHX2	-0.35704945	0.03668337	-2.83480434	
LRIG2	0.35703240	0.03668337	2.83464924	
MYCN	-0.35700427	0.03669592	-2.83439326	
SNORD4A	0.35691702	0.03676473	2.83359942	
SLCO1B1	-0.35690037	0.03676720	-2.83344789	
XKR8	-0.35687932	0.03676720	-2.83325641	
CHST8	-0.35688057	0.03676720	-2.83326778	
PRTG	-0.35682425	0.03679648	-2.83275543	
RPL35A	0.35682388	0.03679648	2.83275202	
MRPS28	0.35679498	0.03680153	2.83248913	
IFNB1	-0.35675573	0.03680153	-2.83213213	
COX16	0.35676642	0.03680153	2.83222933	
RPL3	0.35674845	0.03680153	2.83206591	
SCARNA11	-0.35675602	0.03680153	-2.83213473	
CA9	-0.35678726	0.03680153	-2.83241893	
ICT1	0.35672405	0.03681317	2.83184390	
MAK10	0.35670697	0.03681813	2.83168858	yes
NCBP1	0.35666610	0.03684480	2.83131683	
LHX9	-0.35662925	0.03686782	-2.83098172	
GMEB1	0.35661565	0.03686852	2.83085797	
ZNF189	0.35660523	0.03686852	2.83076319	
FAF1	0.35656657	0.03688546	2.83041166	
F3	0.35656344	0.03688546	2.83038316	
KRT19	0.35652915	0.03690616	2.83007137	
CAPN11	-0.35650862	0.03691430	-2.82988470	
C2orf85	-0.35645929	0.03694878	-2.82943612	
SEZ6	-0.35642597	0.03695585	-2.82913307	
COL9A3	-0.35640504	0.03695585	-2.82894284	
ALPI	-0.35642575	0.03695585	-2.82913107	
ART4	-0.35639757	0.03695585	-2.82887487	yes
PPP2CA	0.35639354	0.03695585	2.82883826	
C3orf52	0.35634839	0.03698654	2.82842770	yes
CATSPER2	0.35628254	0.03702889	2.82782907	
GTF2H1	0.35627893	0.03702889	2.82779629	
TMED2	0.35624511	0.03704142	2.82748884	
ANXA2P2	0.35623574	0.03704142	2.82740361	yes
ZNF517	-0.35623050	0.03704142	-2.82735594	
KATNA1	0.35620385	0.03704677	2.82711370	yes
MKKS	0.35620149	0.03704677	2.82709228	
ZNF585B	0.35617532	0.03706015	2.82685436	
CST1	-0.35614016	0.03707115	-2.82653480	
SLC29A2	-0.35614490	0.03707115	-2.82657788	
MED26	-0.35608881	0.03710763	-2.82606803	
LYG2	-0.35602964	0.03715131	-2.82553034	
CHMP2A	0.35601139	0.03715745	2.82536447	

DDX20	0.35598123	0.03717238	2.82509036	
C20orf160	-0.35597201	0.03717238	-2.82500657	yes
BCL9L	-0.35592443	0.03720547	-2.82457421	
KIAA1012	0.35584214	0.03727054	2.82382643	yes
BET3L	-0.35578181	0.03727522	-2.82327828	
SEP12	-0.35572163	0.03727522	-2.82273154	
ARG1	-0.35575390	0.03727522	-2.82302476	
OR5T3	-0.35578854	0.03727522	-2.82333945	
MAN2A1	0.35573006	0.03727522	2.82280816	
PNLIPRP1	-0.35575994	0.03727522	-2.82307960	
HIF1AN	0.35578508	0.03727522	2.82330805	
FAM135A	0.35580945	0.03727522	2.82352940	
SFTPFB	-0.35573559	0.03727522	-2.82285840	
C8G	-0.35577442	0.03727522	-2.82321115	
VPS29	0.35569475	0.03728935	2.82248734	
MMP21	-0.35560640	0.03729042	-2.82168479	
CNOT1	0.35560658	0.03729042	2.82168645	yes
ZCCHC16	-0.35564649	0.03729042	-2.82204894	
MPP2	-0.35565209	0.03729042	-2.82209988	yes
SNTG1	-0.35561701	0.03729042	-2.82178116	
TCEB1P3	-0.35565265	0.03729042	-2.82210494	
CCT6A	0.35560146	0.03729042	2.82163992	
S1PR2	-0.35561283	0.03729042	-2.82174320	
RNASEH1	0.35556047	0.03729639	2.82126762	
SLC13A5	-0.35556223	0.03729639	-2.82128362	
HCRTR2	-0.35557821	0.03729639	-2.82142873	
NOL9	0.35553720	0.03730724	2.82105623	
LOC552889	0.35547961	0.03733911	2.82053315	yes
WDR12	0.35548396	0.03733911	2.82057266	
ACOT9	0.35544892	0.03735680	2.82025444	
ZNF234	0.35543605	0.03735808	2.82013755	
SLC29A1	-0.35537709	0.03735833	-2.81960217	
ERCC6	0.35535995	0.03735833	2.81944654	
CHRD12	-0.35539826	0.03735833	-2.81979439	
AMHR2	-0.35536234	0.03735833	-2.81946823	
KPNA3	0.35538982	0.03735833	2.81971775	
LTF	-0.35535546	0.03735833	-2.81940574	
SFMBT1	0.35536710	0.03735833	2.81951140	yes
NBR1	0.35533232	0.03735852	2.81919565	
RBM4	0.35533494	0.03735852	2.81921940	
ASB7	0.35530224	0.03736513	2.81892251	
C17orf50	-0.35530785	0.03736513	-2.81897344	
STK35	0.35525097	0.03736967	2.81845691	
ZNF784	-0.35527834	0.03736967	-2.81870545	
RCAN1	-0.35523963	0.03736967	-2.81835394	
GCH1	0.35523957	0.03736967	2.81835344	
VAT1L	-0.35524888	0.03736967	-2.81843797	
SMURF2	0.35522865	0.03736967	2.81825431	
C14orf126	0.35519963	0.03737534	2.81799080	
LPPR2	-0.35520536	0.03737534	-2.81804287	

C19orf25	-0.35516445	0.03737617	-2.81767140	
KNCN	-0.35517583	0.03737617	-2.81777477	
CACNA1F	-0.35517030	0.03737617	-2.81772454	
SLC12A5	-0.35513791	0.03739009	-2.81743052	
TMEM71	0.35508549	0.03740685	2.81695458	
KCNB1	-0.35509213	0.03740685	-2.81701489	
TLE4	0.35510270	0.03740685	2.81711084	yes
C1orf68	-0.35505608	0.03742069	-2.81668768	
SMG1	0.35504765	0.03742069	2.81661113	
SLAMF9	-0.35502432	0.03743168	-2.81639939	
FGB	-0.35498758	0.03745506	-2.81606583	
MESP1	-0.35497450	0.03745660	-2.81594718	
E2F5	0.35493867	0.03745871	2.81562194	
FAM163B	-0.35493804	0.03745871	-2.81561620	
T	-0.35494969	0.03745871	-2.81572198	
ARPC2	0.35476297	0.03749429	2.81402744	
MTF2	0.35481990	0.03749429	2.81454408	
CSDC2	-0.35482235	0.03749429	-2.81456630	
C10orf85	-0.35484624	0.03749429	-2.81478309	
AMDHD2	-0.35478236	0.03749429	-2.81420336	
GOLT1B	0.35480025	0.03749429	2.81436575	
TMCC3	-0.35481601	0.03749429	-2.81450877	
KIAA1486	-0.35488714	0.03749429	-2.81515421	
SLC2A1	0.35478065	0.03749429	2.81418790	
SPG11	0.35482755	0.03749429	2.81461342	
LZIC	0.35476488	0.03749429	2.81404476	
HS3ST1	0.35479671	0.03749429	2.81433359	
DENR	0.35474059	0.03749722	2.81382434	
ADAMTSL1	-0.35473708	0.03749722	-2.81379254	yes
BBS5	0.35472514	0.03749776	2.81368418	
KCNA6	-0.35469690	0.03751336	-2.81342790	
GP2	-0.35466554	0.03753184	-2.81314334	
REV1	0.35461684	0.03756635	2.81270154	
PQLC2	-0.35459148	0.03757931	-2.81247144	
DMP1	-0.35455638	0.03759559	-2.81215306	
S1PR4	-0.35455119	0.03759559	-2.81210594	
RPL29P30	-0.35453653	0.03759866	-2.81197295	
HIVEP2	0.35450406	0.03760773	2.81167836	
BEX2	-0.35450576	0.03760773	-2.81169385	
SV2C	-0.35447619	0.03761255	-2.81142558	
C10orf120	-0.35448598	0.03761255	-2.81151440	
C2orf80	-0.35445678	0.03762003	-2.81124954	
SRRM1	-0.35442020	0.03762246	-2.81091770	
SLC22A12	-0.35443406	0.03762246	-2.81104345	
GPBP1L1	0.35443017	0.03762246	2.81100816	
HS6ST3	-0.35423901	0.03762293	-2.80927439	
OR4D1	-0.35434124	0.03762293	-2.81020160	
ESPNL	-0.35424369	0.03762293	-2.80931687	
IDE	0.35428049	0.03762293	2.80965061	
RPL10P13	-0.35435287	0.03762293	-2.81030704	

FLJ26245	-0.35434600	0.03762293	-2.81024474	
DPM3	-0.35428462	0.03762293	-2.80968806	
GRAMD1A	-0.35426189	0.03762293	-2.80948189	
TAF2	0.35425935	0.03762293	2.80945893	
DERL1	0.35438566	0.03762293	2.81060440	
UTP23	0.35432944	0.03762293	2.81009453	
ACBD6	0.35439004	0.03762293	2.81064418	
TMEM25	-0.35432168	0.03762293	-2.81002412	
KIAA1644	-0.35424695	0.03762293	-2.80934645	
EMILIN3	-0.35429357	0.03762293	-2.80976918	yes
BUB3	0.35432831	0.03762293	2.81008433	
GNPDA1	0.35410216	0.03762770	2.80803352	
INADL	0.35406832	0.03762770	2.80772670	yes
EDN3	-0.35410800	0.03762770	-2.80808648	
RNF160	0.35420746	0.03762770	2.80898836	
LOC388955	0.35416068	0.03762770	2.80856418	
FEZF1	-0.35417453	0.03762770	-2.80868975	
MSH2	0.35412953	0.03762770	2.80828166	
MYL2	-0.35410376	0.03762770	-2.80804804	
PAK1	0.35413505	0.03762770	2.80833176	
DPH5	0.35407428	0.03762770	2.80778078	
PBRM1	0.35416893	0.03762770	2.80863899	yes
TMEM30A	0.35407861	0.03762770	2.80781998	
INTS9	0.35412379	0.03762770	2.80822964	
ADAMTS10	-0.35406509	0.03762770	-2.80769741	yes
GCM2	-0.35418827	0.03762770	-2.80881429	
RLN1	-0.35401413	0.03765405	-2.80723541	
ABCC8	-0.35402158	0.03765405	-2.80730291	
OR7E24	-0.35398414	0.03767141	-2.80696350	
LOC728847	-0.35396269	0.03768086	-2.80676912	
GNL2	0.35395043	0.03768183	2.80665793	
ANAPC13	0.35393320	0.03768739	2.80650175	
TREML2	-0.35391670	0.03769228	-2.80635221	
FLRT1	-0.35385657	0.03773757	-2.80580713	
HTR6	-0.35380607	0.03777398	-2.80534937	
EGR3	-0.35378485	0.03778327	-2.80515703	
COL10A1	-0.35376396	0.03779224	-2.80496776	
STARD7	0.35374235	0.03780189	2.80477192	
C1orf211	-0.35369275	0.03780955	-2.80432237	
C1GALT1	0.35368930	0.03780955	2.80429107	
UBE2V2	0.35371952	0.03780955	2.80456497	
NPL	0.35370187	0.03780955	2.80440500	
ETNK1	0.35366671	0.03782012	2.80408638	
ONECUT2	-0.35364870	0.03782645	-2.80392319	
GP9	-0.35358590	0.03787437	-2.80335410	
CYP11B1	-0.35353654	0.03787866	-2.80290689	
IMP5	-0.35353894	0.03787866	-2.80292863	
ANKRD58	-0.35355882	0.03787866	-2.80310871	
MAP3K7	0.35354809	0.03787866	2.80301152	
LOC388882	-0.35351141	0.03789162	-2.80267921	

TESSP5	-0.35349855	0.03789320	-2.80256265
ACOT12	-0.35334981	0.03791734	-2.80121518
OR10H3	-0.35335097	0.03791734	-2.80122570
MYPOP	-0.35344115	0.03791734	-2.80204259
BARHL2	-0.35341422	0.03791734	-2.80179862
MAGEC2	-0.35341597	0.03791734	-2.80181451
POU3F1	-0.35340402	0.03791734	-2.80170625
ITLN1	-0.35336902	0.03791734	-2.80138922
SLC1A7	-0.35338162	0.03791734	-2.80150331
FSD1	-0.35337584	0.03791734	-2.80145092
FAM186B	-0.35344334	0.03791734	-2.80206244
DDX23	0.35340564	0.03791734	2.80172093
DRD5	-0.35332792	0.03792253	-2.80101692
TMEM31	-0.35331081	0.03792253	-2.80086189
TCERG1L	-0.35331317	0.03792253	-2.80088329
AP1S2	-0.35328635	0.03793491	-2.80064037
TNRC6C	-0.35325804	0.03794054	-2.80038386
GTF3C3	0.35326199	0.03794054	2.80041966
UNQ9368	-0.35320977	0.03797508	-2.79994667
GRIK4	-0.35317061	0.03799253	-2.79959207
TSPAN6	0.35316876	0.03799253	2.79957529
KCNH8	-0.35314748	0.03799623	-2.79938254
MEFV	-0.35312457	0.03799623	-2.79917508
PRPS1	0.35312993	0.03799623	2.79922365
PSMD12	0.35312031	0.03799623	2.79913648
CDX4	-0.35306564	0.03802578	-2.79864145
ACE	-0.35305524	0.03802578	-2.79854720
SAMM50	0.35307484	0.03802578	2.79872475
RLBP1L1	-0.35302884	0.03804002	-2.79830817
XCR1	-0.35300804	0.03804035	-2.79811983
LACRT	-0.35300628	0.03804035	-2.79810391
C21orf29	-0.35298502	0.03804981	-2.79791138
LOC400986	0.35294561	0.03807620	2.79755455
GNS	0.35291417	0.03809516	2.79726990
C12orf35	0.35289046	0.03810693	2.79705527
HAVCR1	-0.35285016	0.03811522	-2.79669038
NMI	0.35285410	0.03811522	2.79672610
CACNA2D4	-0.35284831	0.03811522	-2.79667362
GCNT7	-0.35280030	0.03813934	-2.79623898
MIOS	0.35281103	0.03813934	2.79633616
EXOC3L2	-0.35276327	0.03816356	-2.79590379
FRMD3	-0.35274734	0.03816809	-2.79575959
C2orf47	0.35273438	0.03816984	2.79564234
LOC731797	-0.35270562	0.03818637	-2.79538196
MTERFD1	0.35268980	0.03819080	2.79523882
GCLM	0.35264462	0.03819562	2.79482987
ZNF260	0.35266533	0.03819562	2.79501732
FLJ44653	-0.35265593	0.03819562	-2.79493224
C12orf4	0.35264039	0.03819562	2.79479158
PCF11	0.35259216	0.03822003	2.79435501

PGF	-0.35259839	0.03822003	-2.79441143	yes
PRSS21	-0.35249142	0.03823910	-2.79344340	
ENPEP	-0.35252388	0.03823910	-2.79373713	yes
MRGPRX1	-0.35254105	0.03823910	-2.79389249	
CHIC2	0.35250166	0.03823910	2.79353601	
SAMD7	-0.35248340	0.03823910	-2.79337082	
ANKRD34C	-0.35252421	0.03823910	-2.79374014	
MUC6	-0.35250202	0.03823910	-2.79353928	
MOBK11B	0.35253096	0.03823910	2.79380121	
STC2	-0.35245720	0.03825328	-2.79313372	
FRS3	-0.35242062	0.03827718	-2.79280273	
FAR1	0.35237402	0.03831047	2.79238107	
IRX1	-0.35235066	0.03832201	-2.79216972	
PTH2	-0.35225925	0.03838700	-2.79134272	
NUDT12	0.35225960	0.03838700	2.79134589	
DNMT3L	-0.35222747	0.03840647	-2.79105518	
IQCA1L	-0.35220260	0.03841946	-2.79083027	
HOXD8	-0.35215115	0.03845742	-2.79036480	
CCDC124	-0.35211630	0.03846632	-2.79004964	
DECR1	0.35208660	0.03846632	2.78978101	
KIAA1383	-0.35210228	0.03846632	-2.78992276	
NSMAF	0.35209905	0.03846632	2.78989361	
GALR3	-0.35209366	0.03846632	-2.78984483	
FTMT	-0.35207143	0.03847024	-2.78964373	
UTP3	0.35203777	0.03849152	2.78933935	
CCDC28B	-0.35201316	0.03850432	-2.78911671	
LAMC3	-0.35184023	0.03850902	-2.78755291	
USH1G	-0.35191322	0.03850902	-2.78821295	
ADAM3A	-0.35184666	0.03850902	-2.78761104	
UGT3A2	-0.35187637	0.03850902	-2.78787976	
GABRD	-0.35188298	0.03850902	-2.78793946	
GRM4	-0.35197148	0.03850902	-2.78873983	
CLEC4G	-0.35193609	0.03850902	-2.78841974	
LOC389895	-0.35186440	0.03850902	-2.78777144	
TRIM61	-0.35192384	0.03850902	-2.78830896	
ZNF701	0.35197765	0.03850902	2.78879562	
FOXL2	-0.35194355	0.03850902	-2.78848721	
SYP	-0.35185696	0.03850902	-2.78770416	
SNORD6	0.35196760	0.03850902	2.78870466	
TMEM87B	0.35185303	0.03850902	2.78766866	
TAF1B	0.35184562	0.03850902	2.78760162	
SFRS2IP	0.35183249	0.03850902	2.78748296	
PROKR1	-0.35182007	0.03851040	-2.78737063	
HS3ST2	-0.35180765	0.03851177	-2.78725834	
C11orf73	0.35175764	0.03854848	2.78680615	
C15orf32	-0.35161991	0.03866782	-2.78556104	
ASB17	-0.35159759	0.03867854	-2.78535923	
CLDN18	-0.35157924	0.03868423	-2.78519336	
NUP54	0.35156966	0.03868423	2.78510680	
CLUU10S	-0.35153237	0.03870907	-2.78476973	

ZNF131	0.35151673	0.03871350	2.78462837	
LRRC3	-0.35135449	0.03885647	-2.78316205	
NUP107	0.35132765	0.03887152	2.78291950	
EBF1	-0.35129614	0.03889099	-2.78263484	yes
CLN5	0.35128416	0.03889198	2.78252657	
C16orf78	-0.35122980	0.03893312	-2.78203539	
DHX36	0.35121655	0.03893532	2.78191562	
FGD1	-0.35118195	0.03894739	-2.78160302	
RBX1	0.35118344	0.03894739	2.78161649	
CHML	0.35115512	0.03895211	2.78136059	
GTF3C2	0.35116315	0.03895211	2.78143317	
DDX18	0.35112932	0.03896621	2.78112754	
RNF111	0.35110818	0.03897093	2.78093656	
IFT80	0.35110249	0.03897093	2.78088519	
OR52W1	-0.35107534	0.03897557	-2.78063991	
GNPDA2	0.35104420	0.03897557	2.78035854	
RPL10L	-0.35104266	0.03897557	-2.78034465	
GABPB1	0.35102123	0.03897557	2.78015109	
OR2G6	-0.35105560	0.03897557	-2.78046156	
NOP58	0.35106648	0.03897557	2.78055980	
UNKL	-0.35102149	0.03897557	-2.78015343	yes
BMP2K	0.35096740	0.03900596	2.77966487	
ZNF394	0.35097119	0.03900596	2.77969903	
DRD4	-0.35091235	0.03904007	-2.77916763	
DHX32	0.35090968	0.03904007	2.77914351	yes
NUBPL	0.35089433	0.03904430	2.77900484	
IL17D	-0.35085276	0.03907345	-2.77862938	
HTR2C	-0.35081627	0.03907709	-2.77829982	
FLJ42291	-0.35083230	0.03907709	-2.77844461	
TBX15	-0.35082251	0.03907709	-2.77835623	
EXOSC1	0.35077793	0.03910319	2.77795359	
GPR128	-0.35076316	0.03910689	-2.77782019	
FLJ46321	-0.35075152	0.03910761	-2.77771510	
LYSMD3	0.35073354	0.03910858	2.77755276	
NUP155	0.35072875	0.03910858	2.77750951	
GPR173	-0.35071000	0.03911607	-2.77734023	
FOLR1	-0.35069383	0.03912112	-2.77719421	
DYSFIP1	-0.35061982	0.03918120	-2.77652592	
MNT	-0.35059180	0.03919754	-2.77627291	
CIDEA	-0.35054311	0.03923358	-2.77583338	
NCOA2	0.35051425	0.03923676	2.77557283	
C12orf41	0.35049635	0.03923676	2.77541123	
SLC39A9	0.35050653	0.03923676	2.77550313	
GREB1	-0.35051667	0.03923676	-2.77559467	
RASD2	-0.35045465	0.03926617	-2.77503479	
DLX5	-0.35040113	0.03929932	-2.77455167	
NCRNA00167	-0.35039821	0.03929932	-2.77452529	
TTC9B	-0.35036789	0.03931791	-2.77425159	
EYS	-0.35034368	0.03933067	-2.77403309	
CNGB1	-0.35028041	0.03934407	-2.77346209	

CD55	0.35030286	0.03934407	2.77366469	
EPHB1	-0.35026529	0.03934407	-2.77332565	yes
ALPPL2	-0.35028277	0.03934407	-2.77348334	
PTK2	0.35025379	0.03934407	2.77322185	
GRRP1	-0.35027435	0.03934407	-2.77340734	
SPSB2	-0.35025719	0.03934407	-2.77325247	
SCO1	0.35024247	0.03934454	2.77311968	
C6orf1	-0.35018412	0.03936218	-2.77259310	
MFAP3	0.35019527	0.03936218	2.77269372	
NEUROG3	-0.35019709	0.03936218	-2.77271008	
PTPLAD1	0.35018073	0.03936218	2.77256251	
SUPT7L	0.35015464	0.03937677	2.77232708	
LOC100129196	-0.35013808	0.03938227	-2.77217759	
C6orf106	0.35011772	0.03939140	2.77199389	
ANK1	-0.35007158	0.03942518	-2.77157756	
ANKRA2	0.35002896	0.03945561	2.77119303	
ATP1A4	-0.35000150	0.03946430	-2.77094531	
KCNK12	-0.34999827	0.03946430	-2.77091616	
TARBP2	-0.34996454	0.03948626	-2.77061181	
BFAR	0.34994284	0.03949106	2.77041600	
SMS	0.34993251	0.03949106	2.77032289	
TNFSF12	-0.34991635	0.03949106	-2.77017704	
HAND2	-0.34991938	0.03949106	-2.77020436	
OSBPL11	0.34986084	0.03950812	2.76967628	
GCK	-0.34984714	0.03950812	-2.76955270	
UCHL5	0.34983383	0.03950812	2.76943269	
SNX14	0.34984884	0.03950812	2.76956804	
ZBED3	-0.34983412	0.03950812	-2.76943532	
TP53I13	-0.34988769	0.03950812	-2.76991853	
SOBP	-0.34976556	0.03954821	-2.76881689	
ISY1	0.34976597	0.03954821	2.76882056	
FAM167B	-0.34975967	0.03954821	-2.76876379	
PPP2R5A	0.34970654	0.03958884	2.76828456	
LASS2	0.34964936	0.03963338	2.76776888	
TMF1	0.34955706	0.03971174	2.76693654	
LOC100133033	-0.34952375	0.03972493	-2.76663618	
CRIPAK	0.34952182	0.03972493	2.76661874	
AGA	0.34950582	0.03972996	2.76647451	
OR2S2	-0.34949302	0.03973193	-2.76635904	
OR10H4	-0.34944711	0.03975541	-2.76594513	
NUP43	0.34945062	0.03975541	2.76597673	
ENO1	0.34942664	0.03976476	2.76576060	
TNPO3	0.34935252	0.03982580	2.76509236	
OR52R1	-0.34931394	0.03983469	-2.76474457	
OR14C36	-0.34930924	0.03983469	-2.76470216	
OR51F1	-0.34930032	0.03983469	-2.76462171	
OTOP3	-0.34930893	0.03983469	-2.76469938	
ANXA2P3	-0.34925454	0.03983741	-2.76420903	
hCG_1771830	-0.34926215	0.03983741	-2.76427771	
LOC727721	-0.34927348	0.03983741	-2.76437979	

ZNF3	0.34926597	0.03983741	2.76431206	
RP1L1	-0.34922764	0.03985300	-2.76396659	
ENSA	0.34918073	0.03988789	2.76354379	
OR6C4	-0.34912707	0.03991898	-2.76306013	
C1orf115	-0.34913203	0.03991898	-2.76310480	
LEPROTL1	0.34908946	0.03994495	2.76272116	
SNORD116-10	-0.34899533	0.03994615	-2.76187291	
OR51S1	-0.34899449	0.03994615	-2.76186528	
SLC39A12	-0.34898353	0.03994615	-2.76176657	
AP4E1	0.34903700	0.03994615	2.76224835	
DAAM2	-0.34900181	0.03994615	-2.76193128	yes
CSNK2A1P	0.34903894	0.03994615	2.76226586	
ACRV1	-0.34905828	0.03994615	-2.76244013	
LOC644538	-0.34898108	0.03994615	-2.76174446	
LOC730098	-0.34898126	0.03994615	-2.76174606	
ATOH8	-0.34905991	0.03994615	-2.76245486	
C6orf126	-0.34891901	0.03996682	-2.76118515	
NTSR1	-0.34892417	0.03996682	-2.76123169	
FGFRL1	-0.34894117	0.03996682	-2.76138480	
C3orf20	-0.34891690	0.03996682	-2.76116613	
OXSR1	0.34886860	0.04000316	2.76073099	
GRIA4	-0.34882618	0.04002854	-2.76034872	
SYN2	-0.34882099	0.04002854	-2.76030199	
CASKIN1	-0.34880704	0.04003169	-2.76017631	
GPR62	-0.34879156	0.04003633	-2.76003688	
RPS26	-0.34878062	0.04003658	-2.75993829	
ACP6	0.34871950	0.04008541	2.75938766	
NAALADL1	-0.34862878	0.04010147	-2.75857046	
CCDC155	-0.34864814	0.04010147	-2.75874490	
SERINC5	0.34860689	0.04010147	2.75837329	
FLJ40235	-0.34863867	0.04010147	-2.75865953	
FAM151A	-0.34865356	0.04010147	-2.75879370	
TXNRD1	0.34861051	0.04010147	2.75840589	
C6orf25	-0.34866945	0.04010147	-2.75893685	
KHDC1	-0.34868917	0.04010147	-2.75911451	
TAGLN2	0.34861724	0.04010147	2.75846651	
LOC100131054	-0.34859207	0.04010550	-2.75823986	
INTS2	0.34856801	0.04011848	2.75802316	
FMR1NB	-0.34852291	0.04014615	-2.75761696	
IER5L	-0.34849686	0.04014615	-2.75738230	
DACT1	-0.34849768	0.04014615	-2.75738970	
CDC16	0.34851177	0.04014615	2.75751657	
LOC100130348	-0.34840650	0.04017586	-2.75656858	
C6orf130	0.34839274	0.04017586	2.75644470	
SNORD59A	0.34840663	0.04017586	2.75656979	
APLP2	0.34839174	0.04017586	2.75643571	
ACADM	0.34842922	0.04017586	2.75677318	
FLG2	-0.34841129	0.04017586	-2.75661171	
CLDN12	0.34844209	0.04017586	2.75688907	
LOXHD1	-0.34833781	0.04020756	-2.75595006	

PPIL3	0.34834756	0.04020756	2.75603788	
TMIGD2	-0.34830960	0.04022462	-2.75569604	
ZUFSP	0.34827979	0.04024324	2.75542769	
GNAT2	-0.34823629	0.04027518	-2.75503596	
GALNT4	0.34817539	0.04032404	2.75448776	
CSNK2A1	0.34816386	0.04032493	2.75438396	yes
EMX2	-0.34815098	0.04032714	-2.75426793	
IFNA10	-0.34812974	0.04033746	-2.75407680	
RC3H2	0.34811290	0.04034352	2.75392519	
WFDC9	-0.34809485	0.04035076	-2.75376266	
EXOC5	0.34805521	0.04036868	2.75340591	
VSX2	-0.34806162	0.04036868	-2.75346353	
GRSF1	0.34803336	0.04036931	2.75320924	
GNL3L	0.34803506	0.04036931	2.75322447	
IL28B	-0.34801476	0.04037281	-2.75304175	
RLIM	0.34800857	0.04037281	2.75298610	
GNG8	-0.34796386	0.04040602	-2.75258361	
DDX10	0.34794821	0.04041095	2.75244276	
SIAE	0.34791043	0.04043743	2.75210277	
ZNF791	0.34786586	0.04046345	2.75170170	
FLJ35767	-0.34786255	0.04046345	-2.75167193	
ANKRD13B	-0.34779167	0.04052226	-2.75103409	
TMOD3	0.34773374	0.04055703	2.75051282	yes
SLC25A24	0.34773178	0.04055703	2.75049519	
MPP4	-0.34772431	0.04055703	-2.75042797	
NKX2-6	-0.34770253	0.04056092	-2.75023198	
MIER3	0.34768860	0.04056092	2.75010664	
SMC1B	-0.34768904	0.04056092	-2.75011063	
C13orf31	0.34764929	0.04058900	2.74975294	
KANK3	-0.34756987	0.04063579	-2.74903845	
SULT4A1	-0.34756930	0.04063579	-2.74903337	
KRT20	-0.34755915	0.04063579	-2.74894202	
TFAM	0.34757569	0.04063579	2.74909081	
CT47.13	-0.34747243	0.04069276	-2.74816197	
SMARCC2	-0.34748050	0.04069276	-2.74823448	
LRBA	0.34746926	0.04069276	2.74813338	yes
COG2	0.34745038	0.04070090	2.74796359	
RABGAP1L	0.34743669	0.04070397	2.74784042	
DMBT1	-0.34740343	0.04071457	-2.74754133	
PPY2	-0.34739421	0.04071457	-2.74745834	
FXVD8	-0.34739813	0.04071457	-2.74749367	
LOC100130872	-0.34736487	0.04072264	-2.74719452	
TGFBRAP1	0.34737343	0.04072264	2.74727150	
LOC391532	-0.34733730	0.04073933	-2.74694652	
SAC3D1	-0.34726981	0.04076416	-2.74633958	
C1orf183	-0.34727427	0.04076416	-2.74637966	
SLC6A3	-0.34728994	0.04076416	-2.74652056	
OR4A15	-0.34727947	0.04076416	-2.74642647	
LOC100131232	-0.34720214	0.04080220	-2.74573107	
CHCHD8	0.34719942	0.04080220	2.74570662	

FLJ33544	-0.34721209	0.04080220	-2.74582053	
NAT6	-0.34717843	0.04081246	-2.74551789	
SLITRK1	-0.34714840	0.04082765	-2.74524783	
FLJ25404	-0.34714191	0.04082765	-2.74518948	
OBP2A	-0.34712523	0.04083369	-2.74503950	
TPP2	0.34710510	0.04084312	2.74485854	
OR10G2	-0.34705496	0.04086138	-2.74440768	
NSUN3	0.34706318	0.04086138	2.74448161	
VGf	-0.34705860	0.04086138	-2.74444042	
SPINK5L2	-0.34702709	0.04087843	-2.74415718	
UBE2D1	0.34701373	0.04088123	2.74403700	
ADAMTS18	-0.34698670	0.04088169	-2.74379407	
IMPAD1	0.34697125	0.04088169	2.74365510	
PPP2R5B	-0.34697213	0.04088169	-2.74366308	
ERBB2IP	0.34698836	0.04088169	2.74380894	
HHAT	0.34693360	0.04090837	2.74331663	
SLC17A3	-0.34688327	0.04092689	-2.74286427	
OR5R1	-0.34689375	0.04092689	-2.74295843	
PDZD4	-0.34690266	0.04092689	-2.74303856	
STK32B	-0.34686305	0.04093646	-2.74268247	
ZNF766	0.34682741	0.04096119	2.74236212	
OR12D2	-0.34674659	0.04103043	-2.74163577	
CHRNA1	-0.34672470	0.04104166	-2.74143904	
CCT7	0.34662272	0.04106987	2.74052260	
HACL1	0.34664657	0.04106987	2.74073690	
ANGPT2	-0.34664686	0.04106987	-2.74073950	
PEX1	0.34665993	0.04106987	2.74085694	
SDF2	0.34665536	0.04106987	2.74081589	
BRDT	-0.34662792	0.04106987	-2.74056929	
SNORD30	0.34663895	0.04106987	2.74066847	
DYRK1A	0.34647676	0.04120361	2.73921110	yes
MAS1	-0.34642143	0.04123582	-2.73871398	
RP11-35N6.1	-0.34642433	0.04123582	-2.73874005	
CLEC3B	-0.34641278	0.04123582	-2.73863630	yes
ITGA2	0.34637409	0.04126373	2.73828875	
SDR42E1	0.34634685	0.04128034	2.73804402	
OR4K2	-0.34633347	0.04128322	-2.73792388	
DPF3	-0.34630137	0.04130465	-2.73763550	yes
TRIM59	0.34624437	0.04134040	2.73712350	
SKP2	0.34625314	0.04134040	2.73720224	yes
C3orf23	0.34621063	0.04135696	2.73682043	
PRDM8	-0.34618585	0.04135696	-2.73659788	
C21orf122	-0.34620198	0.04135696	-2.73674275	
WDR73	0.34618746	0.04135696	2.73661237	
CAP1	0.34617463	0.04135773	2.73649708	
PAQR3	0.34615291	0.04135854	2.73630208	
MFSDF7	-0.34616158	0.04135854	-2.73637996	
USP46	0.34612913	0.04136582	2.73608850	yes
RNF103	0.34612469	0.04136582	2.73604864	
MGC33407	-0.34603686	0.04144260	-2.73525990	

STAB2	-0.34601408	0.04145486	-2.73505530	
FOXG1	-0.34599265	0.04146577	-2.73486290	
CDK8	0.34591333	0.04152386	2.73415073	
NHP2L1	0.34592002	0.04152386	2.73421078	
ERCC5	0.34590158	0.04152518	2.73404521	
PRR19	-0.34588882	0.04152749	-2.73393067	
PNPLA8	0.34581637	0.04157884	2.73328016	
STARD3NL	0.34582306	0.04157884	2.73334021	
GABRP	0.34578041	0.04158366	2.73295738	
FLJ45079	-0.34578026	0.04158366	-2.73295604	
OR3A1	-0.34579884	0.04158366	-2.73312284	
AQR	0.34576585	0.04158763	2.73282667	
RHBDL3	-0.34574474	0.04159828	-2.73263715	
EGFL7	-0.34571727	0.04161527	-2.73239058	yes
GPR44	-0.34568300	0.04162867	-2.73208292	
MCTS1	0.34569313	0.04162867	2.73217385	
EP400NL	-0.34565362	0.04163720	-2.73181923	
KRT34	-0.34565838	0.04163720	-2.73186198	
FARS2	0.34562120	0.04165915	2.73152822	
CCNC	0.34558715	0.04168272	2.73122267	
C2orf70	-0.34556896	0.04169049	-2.73105939	
ZNRF4	-0.34553337	0.04169964	-2.73073998	
GGNBP2	0.34552860	0.04169964	2.73069714	
SMG7	0.34553942	0.04169964	2.73079424	yes
STK17B	0.34548627	0.04173151	2.73031729	
SNORA71B	-0.34544661	0.04176072	-2.72996142	
KLHL17	-0.34541598	0.04178094	-2.72968655	
ZBED5	0.34539761	0.04178892	2.72952172	
XKR7	-0.34538454	0.04179160	-2.72940442	
ZMYM2	0.34536436	0.04180139	2.72922339	
ZNF598	-0.34531852	0.04183684	-2.72881204	
SRP68	0.34529923	0.04184575	2.72863898	
F5	-0.34528217	0.04185243	-2.72848592	
ANGPTL6	-0.34526700	0.04185723	-2.72834980	
MAMLD1	-0.34522111	0.04187714	-2.72793810	
ADD3	0.34521910	0.04187714	2.72792013	
MMD2	-0.34519619	0.04187714	-2.72771461	
KCNJ4	-0.34519524	0.04187714	-2.72770610	
C20orf27	-0.34520797	0.04187714	-2.72782023	
NNAT	-0.34514938	0.04191268	-2.72729466	
PSMD4	0.34513311	0.04191538	2.72714875	
C1orf124	0.34512596	0.04191538	2.72708462	
CPEB4	0.34511263	0.04191835	2.72696504	
MTRR	0.34509428	0.04192636	2.72680041	
GIN1	0.34502764	0.04198276	2.72620271	
KIR3DL1	-0.34500663	0.04198307	-2.72601424	
RAPSN	-0.34501433	0.04198307	-2.72608327	
YEATS4	0.34499569	0.04198366	2.72591615	
CSF2	-0.34497690	0.04198423	-2.72574757	
DLGAP3	-0.34497443	0.04198423	-2.72572544	

SPTY2D1	0.34492204	0.04200565	2.72525563	
ETFA	0.34493392	0.04200565	2.72536211	
HEPN1	-0.34492527	0.04200565	-2.72528459	
CNDP1	-0.34490798	0.04200939	-2.72512951	
LRRC7	-0.34486513	0.04204201	-2.72474528	
C16orf61	0.34483868	0.04205818	2.72450811	
CTDSPL2	0.34478825	0.04209845	2.72405586	
SERPINA2	-0.34476890	0.04210752	-2.72388233	
LRTM1	-0.34473908	0.04212711	-2.72361495	
CA14	-0.34471325	0.04214269	-2.72338336	
IPP	0.34468876	0.04214319	2.72316388	yes
IL22	-0.34468179	0.04214319	-2.72310132	
PIGX	0.34469902	0.04214319	2.72325585	
QRFPR	-0.34464494	0.04216352	-2.72277096	
KIF2B	-0.34464092	0.04216352	-2.72273497	
HEATR3	0.34458292	0.04221151	2.72221495	
NAALAD2	-0.34456305	0.04222112	-2.72203689	
OR51I2	-0.34452784	0.04224620	-2.72172124	
FAT3	-0.34449114	0.04227279	-2.72139224	
HIST1H2BK	0.34447646	0.04227720	2.72126067	
OR10J5	-0.34443491	0.04230870	-2.72088822	
C4orf15	0.34440157	0.04233193	2.72058942	
SPATA16	-0.34436897	0.04235443	-2.72029729	
RUSC1	-0.34431687	0.04235504	-2.71983035	
IL4	-0.34432463	0.04235504	-2.71989986	
MEP1B	-0.34432922	0.04235504	-2.71994099	yes
RNF141	0.34433642	0.04235504	2.72000558	
KLHL14	-0.34434915	0.04235504	-2.72011968	
GALNT1	0.34429916	0.04236252	2.71967168	
CTNNB1	0.34426641	0.04237462	2.71937820	
OR8B12	-0.34425632	0.04237462	-2.71928775	
LXN	0.34426483	0.04237462	2.71936398	
EIF3D	0.34421050	0.04241050	2.71887717	
MGAT2	0.34419570	0.04241507	2.71874451	
RSAD1	-0.34416365	0.04243706	-2.71845740	
HOXC4	-0.34413590	0.04245472	-2.71820875	
SNORD5	0.34412377	0.04245660	2.71810003	
C9orf163	-0.34406464	0.04250602	-2.71757027	
HAPLN1	-0.34403711	0.04251308	-2.71732366	
TRAPPC4	0.34403979	0.04251308	2.71734768	
NT5DC1	0.34397850	0.04253509	2.71679864	
OR52A5	-0.34397804	0.04253509	-2.71679448	
PNMAL1	-0.34397961	0.04253509	-2.71680858	
PSPC1	0.34397430	0.04253509	2.71676098	
APOB	-0.34395682	0.04254239	-2.71660440	
ODZ3	-0.34394140	0.04254761	-2.71646631	
PKDREJ	-0.34387012	0.04257827	-2.71582775	
KCNH2	-0.34390050	0.04257827	-2.71609988	
DUSP21	-0.34388020	0.04257827	-2.71591809	
TNF	-0.34387857	0.04257827	-2.71590345	

ITLN2	-0.34383370	0.04259765	-2.71550161	
DHX8	0.34383049	0.04259765	2.71547282	
CCDC109B	0.34377656	0.04261077	2.71498986	
JPH2	-0.34378135	0.04261077	-2.71503270	yes
BGLAP	-0.34379127	0.04261077	-2.71512154	
NT5C1B	-0.34377798	0.04261077	-2.71500251	
LSM6	0.34375678	0.04262044	2.71481271	
PPP1R13L	-0.34365984	0.04265649	-2.71394452	
GRIN3A	-0.34368338	0.04265649	-2.71415538	
SLC5A10	-0.34370564	0.04265649	-2.71435465	
LYZL4	-0.34366699	0.04265649	-2.71400856	
TMTC3	0.34369650	0.04265649	2.71427280	
CCDC87	-0.34366959	0.04265649	-2.71403182	
C6orf201	-0.34362705	0.04267605	-2.71365091	
EBF4	-0.34362011	0.04267605	-2.71358876	
RPS3	0.34360907	0.04267688	2.71348991	
LOC100133397	-0.34355098	0.04270976	-2.71296983	yes
RPL8	0.34356629	0.04270976	2.71310688	
NPAS3	-0.34354481	0.04270976	-2.71291455	
FAM128A	-0.34353580	0.04270976	-2.71283390	
VPREB3	-0.34350256	0.04273315	-2.71253628	
MARCH4	-0.34346978	0.04275607	-2.71224281	
LIN28	-0.34344607	0.04276980	-2.71203050	
SCN10A	-0.34340490	0.04280128	-2.71166193	
POLR2B	0.34337959	0.04281664	2.71143535	
LOC441208	-0.34334723	0.04283918	-2.71114568	
MDM2	0.34328426	0.04287238	2.71058208	
NRIP3	-0.34328622	0.04287238	-2.71059959	
HDHD3	0.34328401	0.04287238	2.71057981	
LOC100128979	-0.34315570	0.04291082	-2.70943140	
TAC4	-0.34315456	0.04291082	-2.70942124	
ZFP41	-0.34319622	0.04291082	-2.70979406	
RILPL1	-0.34316852	0.04291082	-2.70954620	
LMX1A	-0.34323092	0.04291082	-2.71010464	
MTAP	0.34318239	0.04291082	2.70967025	
ATP5B	0.34315878	0.04291082	2.70945901	
SIGLEC12	-0.34319506	0.04291082	-2.70978370	
BTAF1	0.34316815	0.04291082	2.70954281	
CCDC138	0.34309993	0.04295612	2.70893235	yes
TNFRSF4	-0.34308551	0.04296044	-2.70880330	
SHF	-0.34305983	0.04297626	-2.70857348	
NPY	-0.34303877	0.04298736	-2.70838504	
TIPARP	0.34296852	0.04302792	2.70775642	
BCL6	0.34297285	0.04302792	2.70779517	
CXorf56	0.34298551	0.04302792	2.70790851	
MYO6	0.34293856	0.04303774	2.70748836	yes
CAND1	0.34294562	0.04303774	2.70755157	
SLC30A9	0.34291100	0.04305550	2.70724184	
RAET1G	-0.34286228	0.04309490	-2.70680592	
OR6T1	-0.34278537	0.04313379	-2.70611789	

C2orf48	-0.34278454	0.04313379	-2.70611047	
GABRQ	-0.34281090	0.04313379	-2.70634625	
CEACAM19	-0.34278361	0.04313379	-2.70610213	
LY6K	-0.34274754	0.04316031	-2.70577945	
ELMOD2	0.34267897	0.04322012	2.70516613	
COMTD1	-0.34261255	0.04322013	-2.70457201	
FLJ36070	-0.34263772	0.04322013	-2.70479721	
FAM182A	-0.34262539	0.04322013	-2.70468693	
KRTAP8-1	-0.34260794	0.04322013	-2.70453080	
PCTK3	-0.34264282	0.04322013	-2.70484283	
MSX2P1	-0.34261978	0.04322013	-2.70463671	
GEMIN7	0.34262858	0.04322013	2.70471547	
TRAF3	0.34257747	0.04324096	2.70425828	
IMPDH1	-0.34255095	0.04325775	-2.70402109	
OSBPL8	0.34251597	0.04327282	2.70370834	
LOC340602	-0.34252539	0.04327282	-2.70379255	
SERPINB11	0.34247945	0.04329989	2.70338172	
ANKRD30B	-0.34245637	0.04330279	-2.70317533	
NACA	0.34245706	0.04330279	2.70318153	
LIX1L	-0.34231917	0.04343331	-2.70194854	yes
CLDND2	-0.34229281	0.04343959	-2.70171291	
CDR2L	-0.34230097	0.04343959	-2.70178583	yes
RASL10A	-0.34224941	0.04346619	-2.70132484	
ANKRD10	0.34224671	0.04346619	2.70130071	
SNORD115-33	-0.34221959	0.04348369	-2.70105826	
KLF5	0.34219423	0.04349938	2.70083155	
FKBPL	-0.34216756	0.04351642	-2.70059320	
PRDM16	-0.34215720	0.04351667	-2.70050058	
UGT1A6	0.34211803	0.04354660	2.70015044	
CIRH1A	0.34208452	0.04357072	2.69985094	
NXPH1	-0.34204684	0.04359915	-2.69951414	
C1QTNF6	-0.34195555	0.04364906	-2.69869821	
FASTKD2	0.34196051	0.04364906	2.69874258	
RBMX	-0.34197495	0.04364906	-2.69887158	
KLRB1	0.34196353	0.04364906	2.69876950	
C2orf86	0.34192774	0.04364906	2.69844970	yes
PRKCG	-0.34193990	0.04364906	-2.69855838	
SSTR2	-0.34192916	0.04364906	-2.69846239	
ATF5	-0.34188319	0.04367341	-2.69805159	
DOK7	-0.34188124	0.04367341	-2.69803415	
ANKRD50	0.34186411	0.04367341	2.69788103	
FAM105B	0.34186379	0.04367341	2.69787816	
PAX1	-0.34183610	0.04369158	-2.69763076	
MAB21L1	-0.34181974	0.04369807	-2.69748455	
CPSF6	0.34173651	0.04374496	2.69674089	
MAGEE2	-0.34172452	0.04374496	-2.69663381	
KCNV2	-0.34171388	0.04374496	-2.69653868	
OTP	-0.34172245	0.04374496	-2.69661526	
ANXA11	0.34174490	0.04374496	2.69681584	
TARBP1	0.34173708	0.04374496	2.69674597	

AMOTL1	-0.34164707	0.04379940	-2.69594184
CFLAR	0.34164110	0.04379940	2.69588849
ANKMY2	0.34157642	0.04384551	2.69531069
DNAH17	-0.34158346	0.04384551	-2.69537353
OR2A25	-0.34153106	0.04386121	-2.69490550
LGALS8	0.34154131	0.04386121	2.69499701
NDUFB5	0.34153477	0.04386121	2.69493858
EIF3L	0.34150874	0.04387391	2.69470614
ACTL6B	-0.34145761	0.04391648	-2.69424945
SSX2IP	0.34134679	0.04399150	2.69325963
PSME4	0.34135081	0.04399150	2.69329559
IFNA6	-0.34131494	0.04399150	-2.69297519
KNG1	-0.34131509	0.04399150	-2.69297657
MYBPC1	-0.34134703	0.04399150	-2.69326178
STX8	0.34133832	0.04399150	2.69318401
CDC25B	-0.34132101	0.04399150	-2.69302940
TRIP12	0.34130100	0.04399554	2.69285069
EEF1A1	0.34126326	0.04402371	2.69251368
NBPF7	-0.34125378	0.04402371	-2.69242906
SH3YL1	0.34123839	0.04402927	2.69229162
BHLHE41	-0.34119996	0.04404833	-2.69194847
RPAP3	0.34120092	0.04404833	2.69195703
PMS1	0.34116919	0.04406989	2.69167370
TAT	-0.34115234	0.04407697	-2.69152326
CEBPA	-0.34109915	0.04412187	-2.69104840
VPS35	0.34108093	0.04413039	2.69088571
RAB3IL1	-0.34106395	0.04413762	-2.69073408
IL17RD	-0.34098168	0.04421288	-2.68999965
GRIN2A	-0.34094844	0.04423709	-2.68970292
NDP	-0.34093357	0.04424214	-2.68957016
EIF2S1	0.34090600	0.04426044	2.68932407
KRT72	-0.34086260	0.04427112	-2.68893670
HNF1A	-0.34085566	0.04427112	-2.68887478
BRCC3	0.34085909	0.04427112	2.68890540
LMBRD2	0.34086243	0.04427112	2.68893520
WDR21B	-0.34080330	0.04431533	-2.68840744
FGD5	-0.34079139	0.04431730	-2.68830117
C18orf23	-0.34074804	0.04433120	-2.68791429
GPR180	0.34075539	0.04433120	2.68797981
EIF6	0.34074930	0.04433120	2.68792553
LRPPRC	0.34073334	0.04433610	2.68778309
LOC387825	-0.34069102	0.04436987	-2.68740543
AQP8	-0.34062177	0.04441090	-2.68678743
NUP62CL	0.34063806	0.04441090	2.68693279
LIN37	-0.34062350	0.04441090	-2.68680291
SPRR4	-0.34055334	0.04447205	-2.68617689
KDSR	0.34053572	0.04448003	2.68601962
AP3B2	-0.34052133	0.04448462	-2.68589127
FLJ16165	-0.34050501	0.04449125	-2.68574562
DPY19L4	0.34047561	0.04451158	2.68548335

MUC3A	-0.34045057	0.04452251	-2.68525996	
UBA3	0.34044520	0.04452251	2.68521200	
FAM40B	-0.34043172	0.04452616	-2.68509175	
RBBP9	0.34041937	0.04452863	2.68498158	
PDGFB	-0.34035520	0.04455729	-2.68440914	yes
C14orf105	-0.34035209	0.04455729	-2.68438145	
CYP20A1	0.34037015	0.04455729	2.68454253	
AASDHPPT	0.34036176	0.04455729	2.68446767	
DEFB125	-0.34032221	0.04455905	-2.68411488	
KCNS2	-0.34031220	0.04455905	-2.68402561	
SPG21	0.34032616	0.04455905	2.68415008	
LRTM2	-0.34031051	0.04455905	-2.68401051	
GPC5	-0.34026807	0.04456189	-2.68363196	
C12orf42	-0.34029053	0.04456189	-2.68383228	
DBX2	-0.34028378	0.04456189	-2.68377205	
C11orf83	-0.34026792	0.04456189	-2.68363060	
STRBP	0.34024469	0.04457023	2.68342338	yes
NPDC1	-0.34024004	0.04457023	-2.68338192	yes
LCT	-0.34021456	0.04457607	-2.68315465	
CD7	-0.34021627	0.04457607	-2.68316997	
TIGD1	0.34019993	0.04458097	2.68302418	
XIAP	0.34015172	0.04461065	2.68259425	
TAF1A	0.34015353	0.04461065	2.68261035	
GAB4	-0.34010982	0.04462330	-2.68222053	
MMP27	-0.34012014	0.04462330	-2.68231264	
KRTAP4-2	-0.34011772	0.04462330	-2.68229104	
CRHR2	-0.34005978	0.04462341	-2.68177436	
DNAJC16	0.34006379	0.04462341	2.68181008	yes
TEPP	-0.34008989	0.04462341	-2.68204284	
PCDHGA4	-0.34003020	0.04462341	-2.68151054	
RP1-27O5.1	-0.34003387	0.04462341	-2.68154328	
ZNF696	-0.34003237	0.04462341	-2.68152993	
TBX19	-0.34003819	0.04462341	-2.68158184	
CD9	0.34007226	0.04462341	2.68188561	
CSTF3	0.33998715	0.04465020	2.68112666	
YIPF7	-0.33997126	0.04465020	-2.68098505	
ANKRD33B	-0.33997787	0.04465020	-2.68104391	
USP14	0.33996497	0.04465020	2.68092890	
SERAC1	0.33987751	0.04472287	2.68014910	
TGS1	0.33987593	0.04472287	2.68013504	
EVI1	0.33986216	0.04472692	2.68001226	yes
AWAT2	-0.33980265	0.04474862	-2.67948175	
TIPRL	0.33981100	0.04474862	2.67955616	
KLK1	-0.33980185	0.04474862	-2.67947460	
CD8B	-0.33982141	0.04474862	-2.67964901	
BIRC6	0.33978645	0.04475439	2.67933732	
MEX3D	-0.33975633	0.04477564	-2.67906879	
ELA3A	-0.33972431	0.04478848	-2.67878339	
MS4A6E	-0.33972778	0.04478848	-2.67881428	
POLR2K	0.33971045	0.04479264	2.67865986	

MGAT5	0.33964381	0.04485236	2.67806588	
TNFRSF10D	-0.33959568	0.04489264	-2.67763689	yes
C1QL2	-0.33958490	0.04489357	-2.67754079	
SLC25A36	0.33953083	0.04494014	2.67705892	
NIPSNAP3A	0.33950513	0.04495682	2.67682984	
AGFG1	0.33946221	0.04497709	2.67644744	
TET2	0.33945623	0.04497709	2.67639410	yes
OR6W1P	-0.33946864	0.04497709	-2.67650473	
E2F1	-0.33938646	0.04504033	-2.67577243	
C11orf17	0.33936774	0.04504967	2.67560557	
C10orf46	0.33931625	0.04508319	2.67514679	yes
COPS3	0.33931916	0.04508319	2.67517276	
ART5	-0.33929049	0.04509998	-2.67491728	
HSP90AB1	0.33926186	0.04511981	2.67466225	
STMN2	-0.33923602	0.04513670	-2.67443203	
B3GNT5	0.33919233	0.04517250	2.67404279	yes
CDH4	-0.33917685	0.04517843	-2.67390488	
CYLC1	-0.33912313	0.04520395	-2.67342635	
LOC284067	-0.33912553	0.04520395	-2.67344777	
UXS1	0.33913858	0.04520395	2.67356398	
SPATA21	-0.33909914	0.04521891	-2.67321266	
PCTK2	0.33907876	0.04523004	2.67303113	
PCID2	0.33903862	0.04526215	2.67267355	
DBT	0.33900396	0.04527802	2.67236489	
TENC1	-0.33900392	0.04527802	-2.67236455	
SEMA6C	-0.33896277	0.04528462	-2.67199801	
TXNL4A	0.33897316	0.04528462	2.67209061	
CCR3	-0.33893198	0.04528462	-2.67172383	
SMYD3	0.33894824	0.04528462	2.67186863	
LHX3	-0.33893498	0.04528462	-2.67175057	
FOSL1	-0.33894804	0.04528462	-2.67186688	
EIF4EBP3	-0.33892867	0.04528462	-2.67169435	
AIFM3	-0.33891110	0.04529281	-2.67153786	
CEACAM3	-0.33889069	0.04530401	-2.67135613	
OR14K1	-0.33886053	0.04531043	-2.67108749	
C3orf51	-0.33885509	0.04531043	-2.67103912	
TNFSF10	0.33886246	0.04531043	2.67110472	
RSL24D1	0.33884215	0.04531373	2.67092381	
FBXO3	0.33881716	0.04531936	2.67070130	
RPS3A	-0.33882019	0.04531936	-2.67072834	
OR52B6	-0.33878566	0.04534235	-2.67042082	
C1orf156	0.33875886	0.04536037	2.67018220	
SMEK3P	-0.33871213	0.04539957	-2.66976608	
FOXA2	-0.33869164	0.04541089	-2.66958371	
LOC113230	-0.33867134	0.04541157	-2.66940297	
KIAA1045	-0.33867279	0.04541157	-2.66941586	yes
UNQ5814	-0.33863061	0.04541334	-2.66904037	
LRRN4CL	-0.33861885	0.04541334	-2.66893568	
FBXW11	0.33861072	0.04541334	2.66886329	
LMCD1	-0.33864369	0.04541334	-2.66915678	yes

OR6X1	-0.33865088	0.04541334	-2.66922078	
NGRN	0.33862543	0.04541334	2.66899425	
ENO3	-0.33854404	0.04543207	-2.66826962	
MMP11	-0.33855267	0.04543207	-2.66834647	
BDH2	0.33858238	0.04543207	2.66861095	
COL18A1	-0.33856881	0.04543207	-2.66849012	
CASP1	0.33855554	0.04543207	2.66837206	
UNC13D	-0.33852937	0.04543723	-2.66813906	
SNX27	0.33848659	0.04546187	2.66775829	
CUL1	0.33848777	0.04546187	2.66776879	
PTPRZ1	0.33844448	0.04549625	2.66738343	
HMGXB3	0.33840711	0.04552559	2.66705084	
RPS26P54	-0.33835091	0.04555264	-2.66655061	
MRPL50	0.33833553	0.04555264	2.66641374	
ADCY10	-0.33834622	0.04555264	-2.66650887	
IQCJ	-0.33833273	0.04555264	-2.66638882	
JRK	-0.33833964	0.04555264	-2.66645038	
FTHL11	0.33832122	0.04555446	2.66628640	
VASH1	-0.33829034	0.04555607	-2.66601159	
DIRAS2	-0.33829476	0.04555607	-2.66605089	
KIAA0232	0.33829359	0.04555607	2.66604055	yes
LOC131055	-0.33826752	0.04556996	-2.66580850	
TBX2	-0.33820430	0.04562693	-2.66524592	yes
LOC389493	-0.33818305	0.04563916	-2.66505683	
RXFP2	-0.33813238	0.04566740	-2.66460601	
TDH	-0.33812725	0.04566740	-2.66456030	
C9orf50	-0.33814314	0.04566740	-2.66470174	
CYP8B1	-0.33810372	0.04568208	-2.66435096	
FLJ41484	-0.33807579	0.04570145	-2.66410251	
SLC25A32	0.33806192	0.04570583	2.66397906	
FAM69B	-0.33799335	0.04576867	-2.66336900	yes
KHDRBS1	0.33793641	0.04580866	2.66286255	
NTSR2	-0.33794578	0.04580866	-2.66294583	
RAMP3	-0.33789377	0.04581248	-2.66248323	
DOM3Z	-0.33790077	0.04581248	-2.66254550	
GLDC	-0.33789652	0.04581248	-2.66250769	
SKI	-0.33790703	0.04581248	-2.66260117	
ZNF420	0.33784456	0.04581644	2.66204549	
ZNF366	-0.33782068	0.04581644	-2.66183304	
TIGD3	-0.33780507	0.04581644	-2.66169425	
OSBP2	-0.33780759	0.04581644	-2.66171662	
TMEM52	-0.33787760	0.04581644	-2.66233932	
LY6H	-0.33785870	0.04581644	-2.66217122	
GINS2	-0.33782856	0.04581644	-2.66190319	
PDZD7	-0.33785413	0.04581644	-2.66213062	
CCDC70	-0.33780229	0.04581644	-2.66166950	
PMCHL2	-0.33775908	0.04584182	-2.66128517	
TSEN2	0.33776386	0.04584182	2.66132769	
SFT2D1	0.33774844	0.04584278	2.66119053	
GP5	-0.33769655	0.04588790	-2.66072908	

ECD	0.33766450	0.04591181	2.66044404	
ANXA4	0.33763122	0.04593703	2.66014814	yes
COL1A1	-0.33758248	0.04597886	-2.65971470	
NUDCD2	0.33755621	0.04599660	2.65948111	
LOC100133387	-0.33748470	0.04601679	-2.65884530	
LIAS	0.33748535	0.04601679	2.65885102	yes
WDR7	0.33752411	0.04601679	2.65919571	
HSD17B2	-0.33750959	0.04601679	-2.65906659	
SFT2D2	0.33747901	0.04601679	2.65879472	
VRK1	0.33750561	0.04601679	2.65903119	
KIAA0774	-0.33744390	0.04603361	-2.65848250	
INPP4B	0.33745062	0.04603361	2.65854230	yes
LPHN1	-0.33741401	0.04604483	-2.65821683	
GLTSCR1	-0.33742240	0.04604483	-2.65829136	
ITCH	0.33740066	0.04604873	2.65809812	
DCD	-0.33735214	0.04606955	-2.65766675	
TAS2R42	-0.33736628	0.04606955	-2.65779249	
SERPINF2	-0.33735787	0.04606955	-2.65771772	
OR52B2	-0.33732373	0.04608963	-2.65741425	
LILRB3	-0.33729424	0.04609355	-2.65715207	
DCP2	0.33730536	0.04609355	2.65725091	
LOC400940	-0.33729097	0.04609355	-2.65712298	
PI4K2B	0.33726102	0.04611530	2.65685680	
SFRS1	0.33724276	0.04612451	2.65669446	
OR10J3	-0.33721285	0.04613580	-2.65642865	
WNT10A	-0.33721371	0.04613580	-2.65643629	
SLC2A13	0.33713821	0.04617438	2.65576520	
C17orf64	-0.33714171	0.04617438	-2.65579636	
COL16A1	-0.33714069	0.04617438	-2.65578727	
C6orf120	0.33714435	0.04617438	2.65581976	
LOC283392	-0.33708915	0.04621460	-2.65532922	
MYL10	-0.33708145	0.04621460	-2.65526079	
TMEM5	0.33702543	0.04621630	2.65476294	
TUBB2C	0.33702373	0.04621630	2.65474788	
APOBEC3A	-0.33706731	0.04621630	-2.65513511	
C17orf66	-0.33704978	0.04621630	-2.65497936	
LOC389634	-0.33704387	0.04621630	-2.65492683	
C9orf6	0.33701211	0.04621630	2.65464454	yes
SIGLEC6	-0.33701420	0.04621630	-2.65466312	
HESX1	-0.33699331	0.04622612	-2.65447751	
FGF1	-0.33696605	0.04624505	-2.65423529	
SELI	0.33689407	0.04630651	2.65359569	
MRFAP1	0.33688967	0.04630651	2.65355661	
KCNG2	-0.33681276	0.04632199	-2.65287329	
C3orf38	0.33682457	0.04632199	2.65297822	
MPG	-0.33679801	0.04632199	-2.65274224	
HCG4	-0.33683144	0.04632199	-2.65303922	
POGK	0.33681955	0.04632199	2.65293360	
NR2F2	-0.33679993	0.04632199	-2.65275931	
CARD14	-0.33683599	0.04632199	-2.65307970	

LTV1	0.33681545	0.04632199	2.65289718	
PLAC1	-0.33678717	0.04632327	-2.65264594	
BCAT1	-0.33676527	0.04633647	-2.65245140	
KRTAP5-11	-0.33671699	0.04637814	-2.65202252	
CSN3	-0.33667839	0.04638856	-2.65167957	
MFRP	-0.33668667	0.04638856	-2.65175314	
ZMYM5	0.33667982	0.04638856	2.65169228	
C22orf24	-0.33666180	0.04639605	-2.65153229	
LOC100128830	-0.33664591	0.04639747	-2.65139109	
METTL13	0.33664120	0.04639747	2.65134927	
MFSD8	0.33658319	0.04644970	2.65083403	
ZFYVE16	0.33652576	0.04650136	2.65032396	
NSFL1C	0.33650392	0.04650451	2.65012998	
PSMA7	0.33650357	0.04650451	2.65012683	
PLA2G2A	-0.33647255	0.04652763	-2.64985140	
PRDM6	-0.33643517	0.04655766	-2.64951938	
OXGR1	-0.33640291	0.04658216	-2.64923293	
C17orf71	0.33639033	0.04658535	2.64912119	
BCL2L10	-0.33631592	0.04663592	-2.64846051	
RAD50	0.33631724	0.04663592	2.64847219	
PAPOLA	0.33631476	0.04663592	2.64845018	yes
MMP26	-0.33628719	0.04665537	-2.64820540	
GPR6	-0.33627475	0.04665842	-2.64809492	
RASGEF1A	-0.33624147	0.04667189	-2.64779950	
ZNF35	0.33624375	0.04667189	2.64781971	
REPS1	0.33623347	0.04667189	2.64772843	
LOC100133366	-0.33617968	0.04669968	-2.64725090	
CXCR6	0.33615977	0.04669968	2.64707409	
TMEM35	-0.33618475	0.04669968	-2.64729591	
DSN1	0.33616728	0.04669968	2.64714075	
ITFG1	0.33616736	0.04669968	2.64714150	
CPT2	0.33613491	0.04671622	2.64685345	
LOC100130507	-0.33610074	0.04672203	-2.64655009	
TIMM8A	0.33611299	0.04672203	2.64665880	
ELP3	0.33610703	0.04672203	2.64660590	
LYPD4	-0.33606778	0.04674738	-2.64625754	
UTS2	-0.33600973	0.04676752	-2.64574226	
FRK	0.33600481	0.04676752	2.64569855	yes
TCTN3	0.33602248	0.04676752	2.64585540	
UFM1	0.33602158	0.04676752	2.64584740	
MEGF11	-0.33600124	0.04676752	-2.64566689	
WNT7A	-0.33597512	0.04678547	-2.64543500	
ITGAV	0.33596467	0.04678640	2.64534232	
FGFR1OP	0.33594957	0.04679238	2.64520828	
OTUD4	0.33593765	0.04679491	2.64510250	yes
E2F6	0.33584923	0.04682559	2.64431771	
KIAA0831	0.33587537	0.04682559	2.64454970	
MAPRE1	0.33585761	0.04682559	2.64439214	
ALG6	0.33584192	0.04682559	2.64425289	
SHQ1	0.33583278	0.04682559	2.64417177	

VNN3	0.33584461	0.04682559	2.64427676	
KRTAP3-3	-0.33585382	0.04682559	-2.64435848	
RAB28	0.33585571	0.04682559	2.64437524	yes
CEP78	0.33581555	0.04683256	2.64401884	
ATPBD4	0.33580722	0.04683256	2.64394491	
SAAL1	0.33577587	0.04685623	2.64366676	
KLHL10	-0.33566712	0.04696415	-2.64270179	
SETBP1	-0.33562974	0.04699445	-2.64237013	
C2orf46	-0.33559909	0.04701743	-2.64209816	
MED7	0.33556935	0.04703943	2.64183430	
HIST1H2AA	-0.33552672	0.04707550	-2.64145615	
LMAN1L	-0.33549462	0.04710010	-2.64117134	
RHBG	-0.33547690	0.04710900	-2.64101415	
CNOT7	0.33544726	0.04713093	2.64075127	yes
RPS10	-0.33542993	0.04713941	-2.64059756	
EXOC2	0.33541919	0.04714071	2.64050225	
DHRS3	0.33540595	0.04714473	2.64038480	
SLC11A2	0.33538119	0.04716134	2.64016524	
SCARNA6	-0.33533555	0.04720079	-2.63976042	
TMEM77	0.33530192	0.04722712	2.63946213	
ADAM11	-0.33520064	0.04732756	-2.63856393	
OR2A12	-0.33511092	0.04741549	-2.63776833	
NKX3-2	-0.33506258	0.04745808	-2.63733974	
C2orf42	0.33504457	0.04746737	2.63718005	
OR51Q1	-0.33503488	0.04746753	-2.63709409	
SGMS1	0.33499824	0.04749730	2.63676927	
TPM3	0.33496667	0.04751101	2.63648938	
USP3	0.33497472	0.04751101	2.63656071	
ITIH1	-0.33494255	0.04751847	-2.63627554	
POPDC3	-0.33493228	0.04751847	-2.63618450	
PAPOLG	0.33493126	0.04751847	2.63617540	
BZW2	0.33487718	0.04755139	2.63569605	
ANKFY1	0.33487271	0.04755139	2.63565637	
PSMB7	0.33487961	0.04755139	2.63571757	
RNF115	0.33485912	0.04755585	2.63553588	
ANKRD30A	-0.33484063	0.04756570	-2.63537202	
WDR47	0.33478802	0.04761311	2.63490569	yes
NCR3	-0.33475336	0.04763029	-2.63459848	
OR5AP2	-0.33476194	0.04763029	-2.63467450	
NCBP2	0.33473709	0.04763772	2.63445423	
PSMB2	0.33469720	0.04767106	2.63410069	
NEUROD4	-0.33468778	0.04767106	-2.63401718	
C12orf64	-0.33465137	0.04769104	-2.63369453	
HYI	-0.33465060	0.04769104	-2.63368773	
NUP50	0.33459123	0.04769356	2.63316151	
CTSE	-0.33462560	0.04769356	-2.63346618	
TTC14	0.33461035	0.04769356	2.63333103	
EGF	-0.33461250	0.04769356	-2.63335003	
EPS8	0.33460357	0.04769356	2.63327094	yes
KRTAP11-1	-0.33459802	0.04769356	-2.63322169	

PLA2G2D	-0.33457378	0.04770230	-2.63300694
MPO	-0.33453865	0.04772471	-2.63269564
CBX2	-0.33453444	0.04772471	-2.63265833
HMCN2	-0.33447878	0.04777564	-2.63216510
RFX6	-0.33445917	0.04778680	-2.63199132
TREML1	-0.33442939	0.04780919	-2.63172746
ARFGEF1	0.33436240	0.04784899	2.63113394
OR4S1	-0.33434586	0.04784899	-2.63098744
STARD9	-0.33437161	0.04784899	-2.63121552
USP26	-0.33434653	0.04784899	-2.63099331
ACVR2A	0.33435810	0.04784899	2.63109585
GNG4	-0.33430748	0.04788092	-2.63064739
HOXC6	-0.33422527	0.04796139	-2.62991908
FLJ44054	-0.33417438	0.04799672	-2.62946834
SPTLC2	0.33418280	0.04799672	2.62954292
TSPAN32	-0.33411408	0.04800046	-2.62893425
NXNL2	-0.33411975	0.04800046	-2.62898449
C3orf17	0.33412647	0.04800046	2.62904396
GGNBP1	-0.33411686	0.04800046	-2.62895886
RALA	0.33414421	0.04800046	2.62920114
HIST1H2AG	-0.33412325	0.04800046	-2.62901542
SNORD115-3	-0.33407082	0.04803790	-2.62855106
EMID1	-0.33393571	0.04812628	-2.62735457
PXDNL	-0.33394209	0.04812628	-2.62741110
ASGR1	-0.33393478	0.04812628	-2.62734629
PDGFR1	-0.33396936	0.04812628	-2.62765254
POF1B	0.33393428	0.04812628	2.62734190
FAM20B	0.33394621	0.04812628	2.62744757
LOC100132793	0.33392086	0.04812760	2.62722307
GALNTL5	-0.33390787	0.04812760	-2.62710799
KIF13B	0.33390468	0.04812760	2.62707977
C18orf12	-0.33388516	0.04813876	-2.62690694
DMRT1	-0.33381840	0.04815329	-2.62631585
OR2H1	-0.33384420	0.04815329	-2.62654429
LEP	-0.33381532	0.04815329	-2.62628850
BECN1	0.33382674	0.04815329	2.62638965
SAP30	-0.33383299	0.04815329	-2.62644498
USP15	0.33384635	0.04815329	2.62656327
CYP11B2	-0.33376567	0.04815594	-2.62584898
FAM174A	0.33378904	0.04815594	2.62605583
AQP2	-0.33377072	0.04815594	-2.62589367
MS4A12	-0.33378092	0.04815594	-2.62598397
DPEP2	-0.33379380	0.04815594	-2.62609800
KRTAP23-1	-0.33374557	0.04816777	-2.62567098
FADS2	-0.33371687	0.04818915	-2.62541690
TMEM90A	-0.33368989	0.04820864	-2.62517800
C5orf38	-0.33366075	0.04821054	-2.62492006
SLC7A10	-0.33365986	0.04821054	-2.62491216
ZCRB1	0.33367848	0.04821054	2.62507703
SNCB	-0.33362786	0.04823561	-2.62462891

PIF1	-0.33360148	0.04825445	-2.62439535	
IL11RA	-0.33350162	0.04834358	-2.62351149	
MANBA	0.33348365	0.04834358	2.62335241	
SS18L2	0.33348666	0.04834358	2.62337911	
PPP1R7	0.33348779	0.04834358	2.62338910	
MCART2	-0.33346780	0.04835073	-2.62321212	
EEF1A2	-0.33344502	0.04835509	-2.62301056	
SETD1A	-0.33344840	0.04835509	-2.62304044	
METRNL	-0.33342298	0.04836606	-2.62281544	
SNAI3	-0.33341144	0.04836606	-2.62271337	
PPP1R3C	-0.33339749	0.04836606	-2.62258986	
KIAA1853	-0.33340689	0.04836606	-2.62267304	
FLJ44674	-0.33336233	0.04839473	-2.62227875	
ELFN1	-0.33331970	0.04843027	-2.62190145	
OR13G1	-0.33331161	0.04843027	-2.62182992	
PTPRQ	-0.33329807	0.04843487	-2.62171007	
MARCH7	0.33328835	0.04843521	2.62162407	
GCLC	0.33326882	0.04844649	2.62145127	yes
LOC100133439	0.33322218	0.04848803	2.62103856	
CLIP4	0.33320178	0.04850030	2.62085803	
INTS7	0.33316993	0.04852534	2.62057628	
SEBOX	-0.33315692	0.04852937	-2.62046117	
CCDC9	-0.33313645	0.04853785	-2.62028002	yes
NAT8B	-0.33313052	0.04853785	-2.62022760	
LOC283711	-0.33307221	0.04855049	-2.61971173	
C21orf123	-0.33309523	0.04855049	-2.61991531	
RND3	0.33307765	0.04855049	2.61975981	
PITPNM2	-0.33309091	0.04855049	-2.61987709	yes
RPL37	0.33309818	0.04855049	2.61994149	
SHROOM1	-0.33304517	0.04857021	-2.61947246	
PNMA3	-0.33301826	0.04858978	-2.61923445	
SPACA3	-0.33297894	0.04862324	-2.61888661	
DUSP14	0.33295685	0.04863744	2.61869122	
C14orf33	-0.33288765	0.04867567	-2.61807910	
EPOR	-0.33288491	0.04867567	-2.61805492	
HOXB9	-0.33285699	0.04867567	-2.61780796	
SLC6A19	-0.33287099	0.04867567	-2.61793173	
C1orf149	0.33290298	0.04867567	2.61821469	
CHMP4C	0.33286088	0.04867567	2.61784232	
CABP1	-0.33290836	0.04867567	-2.61826228	
MED28	0.33283115	0.04869410	2.61757939	
HSPB6	-0.33280073	0.04870008	-2.61731036	
GAD2	-0.33279768	0.04870008	-2.61728341	
PTCD2	0.33280048	0.04870008	2.61730812	
ZNF668	-0.33278668	0.04870191	-2.61718607	
SLC22A9	-0.33275254	0.04872965	-2.61688413	
FBN2	-0.33271425	0.04874528	-2.61654552	
LALBA	-0.33272207	0.04874528	-2.61661470	
HPS3	0.33271048	0.04874528	2.61651223	
C14orf104	0.33268836	0.04875957	2.61631657	

ZNF681	0.33265590	0.04878020	2.61602957	
ELOVL3	-0.33265123	0.04878020	-2.61598824	
DGKQ	-0.33262421	0.04879999	-2.61574936	
LYAR	0.33260458	0.04881150	2.61557578	
DCLRE1A	0.33258512	0.04882283	2.61540373	
FOXL1	-0.33254353	0.04885899	-2.61503597	
MMP25	-0.33253268	0.04886067	-2.61494006	
NUMBL	-0.33251614	0.04886874	-2.61479381	
RAB42	-0.33247450	0.04890498	-2.61442567	
HMGXB4	0.33244443	0.04890784	2.61415984	
WSCD1	-0.33245693	0.04890784	-2.61427040	
COG6	0.33242522	0.04890784	2.61399002	
SQRDL	0.33243080	0.04890784	2.61403938	
CAPZA1	0.33243656	0.04890784	2.61409024	
CNR2	-0.33237371	0.04891570	-2.61353467	
FERD3L	-0.33234354	0.04891570	-2.61326800	
GALC	0.33234898	0.04891570	2.61331605	
SIGLECP3	-0.33236436	0.04891570	-2.61345199	
ASIP	-0.33240852	0.04891570	-2.61384237	
ZNF484	0.33239601	0.04891570	2.61373182	
EED	0.33236790	0.04891570	2.61348334	
CP110	0.33235993	0.04891570	2.61341287	
LOC100131510	-0.33231924	0.04893251	-2.61305319	
CLCF1	-0.33227658	0.04896234	-2.61267609	
SH3GLB1	0.33227403	0.04896234	2.61265356	
OR4B1	-0.33225747	0.04896512	-2.61250721	
SYT3	-0.33225291	0.04896512	-2.61246688	
GLUD1	0.33221179	0.04899038	2.61210346	
LOC93432	-0.33221775	0.04899038	-2.61215613	
LOC100129476	-0.33217360	0.04899821	-2.61176592	
MMEL1	-0.33215826	0.04899821	-2.61163034	
ECHDC3	-0.33216594	0.04899821	-2.61169821	
SPACA1	-0.33218241	0.04899821	-2.61184381	
CMAH	0.33219117	0.04899821	2.61192118	
HOXD10	-0.33213589	0.04900242	-2.61143270	
TRIM54	-0.33214070	0.04900242	-2.61147515	yes
OR8B3	-0.33209493	0.04903801	-2.61107068	
ATP4B	-0.33203066	0.04909985	-2.61050278	
F10	-0.33200160	0.04912209	-2.61024597	
YTHDC2	0.33188734	0.04924041	2.60923640	
MRGPRF	-0.33186790	0.04925184	-2.60906472	yes
RTP2	-0.33184719	0.04926472	-2.60888170	
hCG_2018279	-0.33173648	0.04934160	-2.60790371	
FAM159B	-0.33169523	0.04934160	-2.60753934	
CSTF1	0.33166414	0.04934160	2.60726472	
SLC7A13	-0.33172826	0.04934160	-2.60783114	
ZNF100	0.33163975	0.04934160	2.60704927	
RDM1	-0.33164911	0.04934160	-2.60713194	
OR4E2	-0.33176981	0.04934160	-2.60819809	
C2orf64	0.33164013	0.04934160	2.60705268	

C20orf111	0.33171577	0.04934160	2.60772081
C8orf58	-0.33169228	0.04934160	-2.60751329
POLR2D	0.33169860	0.04934160	2.60756909
SNORA24	-0.33165130	0.04934160	-2.60715130
TPM1	-0.33173995	0.04934160	-2.60793438
ZSCAN16	0.33167153	0.04934160	2.60732999
TLL2	-0.33174868	0.04934160	-2.60801151
ALG11	0.33162025	0.04935315	2.60687702
TRA2B	0.33159000	0.04937686	2.60660985
RYR1	-0.33157861	0.04937924	-2.60650932
IDI2	-0.33156253	0.04938693	-2.60636731
KRT28	-0.33154614	0.04939498	-2.60622252
MRAS	-0.33152191	0.04939604	-2.60600856
ZC3H15	0.33150813	0.04939604	2.60588685
NYX	-0.33151685	0.04939604	-2.60596387
PRRG4	0.33152672	0.04939604	2.60605099
TMEM66	0.33143129	0.04946201	2.60520826
GLIS2	-0.33143469	0.04946201	-2.60523826
ASB1	0.33140191	0.04948478	2.60494881
MAP7D2	-0.33138885	0.04948908	-2.60483355
KRTAP6-3	-0.33136518	0.04949673	-2.60462449
TCTB	-0.33136358	0.04949673	-2.60461035
CHP	0.33128947	0.04954567	2.60395603
BRUNOL4	-0.33130409	0.04954567	-2.60408514
AIFM1	0.33128336	0.04954567	2.60390208
KIAA0020	0.33129174	0.04954567	2.60397612
IRF7	-0.33126796	0.04954659	-2.60376611
C20orf74	0.33125479	0.04954659	2.60364986
SLC33A1	0.33125938	0.04954659	2.60369033
ZNF460	0.33123236	0.04955106	2.60345178
FREM3	-0.33123574	0.04955106	-2.60348167
AVP	-0.33121902	0.04955569	-2.60333409
CLCN2	-0.33119061	0.04955648	-2.60308324
SEP2	0.33119795	0.04955648	2.60314804
PRTN3	-0.33120370	0.04955648	-2.60319880
FCRLB	-0.33113212	0.04958091	-2.60256690
ADRA1B	-0.33115793	0.04958091	-2.60279476
LGALS14	-0.33113862	0.04958091	-2.60262426
GTPBP10	0.33114121	0.04958091	2.60264716
C13orf34	0.33111167	0.04959363	2.60238634
MRPS9	0.33109029	0.04960740	2.60219767
LMAN2	0.33105488	0.04962663	2.60188511
EBNA1BP2	0.33105614	0.04962663	2.60189623
CCDC36	-0.33103735	0.04963421	-2.60173036
PSKH2	-0.33102975	0.04963421	-2.60166327
CENPL	0.33100295	0.04965416	2.60142673
HSPA14	0.33094796	0.04970612	2.60094137
ALOXE3	-0.33089573	0.04973403	-2.60048045
SNAI1	-0.33090245	0.04973403	-2.60053977
RBM39	0.33091110	0.04973403	2.60061608

ALOX12B	-0.33087641	0.04974551	-2.60030994	
C18orf19	0.33086318	0.04975007	2.60019320	
IRS4	-0.33084604	0.04975908	-2.60004191	
GARNL4	-0.33081584	0.04976395	-2.59977538	
DPY19L1	0.33081412	0.04976395	2.59976027	
SCARNA17	-0.33081866	0.04976395	-2.59980029	
RPL29P31	-0.33078780	0.04976454	-2.59952799	
LOC285453	0.33080247	0.04976454	2.59965745	
MTMR3	0.33078599	0.04976454	2.59951198	
GBA3	-0.33073555	0.04981143	-2.59906690	
OR5D18	-0.33069538	0.04981504	-2.59871254	
TSPAN15	0.33068638	0.04981504	2.59863309	
YIPF6	0.33069040	0.04981504	2.59866855	
MYH7	-0.33070826	0.04981504	-2.59882615	
WBSCR16	-0.33069614	0.04981504	-2.59871920	
CYP2R1	0.33065448	0.04983653	2.59835160	
BTNL9	-0.33064511	0.04983653	-2.59826898	
PHKB	0.33063791	0.04983653	2.59820545	
SNORA71D	-0.33063072	0.04983653	-2.59814206	
KLHL30	-0.33056598	0.04989774	-2.59757087	
AVPR2	-0.33055857	0.04989774	-2.59750548	
PRM2	-0.33054395	0.04990393	-2.59737650	
RLF	0.33053174	0.04990738	2.59726879	
EIF1	0.33050347	0.04992689	2.59701940	
EIF4G2	0.33048075	0.04992689	2.59681899	yes
C19orf54	-0.33045063	0.04992689	-2.59655332	
HNF4G	0.33045036	0.04992689	2.59655096	
APOH	-0.33047601	0.04992689	-2.59677721	
LOC392364	-0.33047990	0.04992689	-2.59681146	
NIPA2	0.33045523	0.04992689	2.59659391	
CSH2	-0.33043209	0.04993249	-2.59638979	
G3BP2	0.33042710	0.04993249	2.59634578	
RAB2A	0.33041697	0.04993359	2.59625645	
C10orf49	-0.33038609	0.04993744	-2.59598406	
C14orf138	0.33039907	0.04993744	2.59609855	
COL25A1	-0.33039463	0.04993744	-2.59605936	
VCP	0.33037434	0.04994040	2.59588041	
TTY14	-0.33035478	0.04995224	-2.59570792	
GPR137B	0.33034172	0.04995669	2.59559267	
HELQ	0.33029948	0.04999439	2.59522017	
LOC100131373	-0.33014890	0.05006178	-2.59389222	
PIBF1	0.33018596	0.05006178	2.59421902	
ZPLD1	-0.33017388	0.05006178	-2.59411257	
ADK	0.33015750	0.05006178	2.59396813	
C11orf84	-0.33018157	0.05006178	-2.59418032	
FAM71B	-0.33021844	0.05006178	-2.59450550	
WDR5B	0.33019334	0.05006178	2.59428414	
TMEM181	0.33020341	0.05006178	2.59437291	
CCDC154	-0.33016682	0.05006178	-2.59405024	
FZD9	-0.33016356	0.05006178	-2.59402151	

CBLN2	-0.33012458	0.05007910	-2.59367779
TMPRSS4	0.33009269	0.05010507	2.59339659
ABT1	0.33005060	0.05014270	2.59302548
CCDC129	-0.33003265	0.05015276	-2.59286725
SLC38A8	-0.33001727	0.05015990	-2.59273162
DHDH	-0.33000775	0.05016034	-2.59264771
UNC84A	0.32999066	0.05016943	2.59249706
GALP	-0.32997938	0.05017188	-2.59239758
CHRNA1	-0.32991971	0.05018919	-2.59187155
KIAA0146	0.32991210	0.05018919	2.59180446
GRK4	-0.32990643	0.05018919	-2.59175451
MALAT1	0.32992306	0.05018919	2.59190110
SDHA	0.32992948	0.05018919	2.59195764
SLC6A5	-0.32995301	0.05018919	-2.59216514
ACYP2	0.32990035	0.05018919	2.59170084
POU2F3	-0.32987494	0.05020781	-2.59147689
SERPINA11	-0.32980983	0.05026065	-2.59090294
CTRB2	-0.32981116	0.05026065	-2.59091470
HIST2H2BF	0.32980140	0.05026065	2.59082860
KRTAP10-9	-0.32979061	0.05026255	-2.59073354
WDR42B	-0.32977789	0.05026274	-2.59062137
HGFAC	-0.32977222	0.05026274	-2.59057146
CFHR3	-0.32971662	0.05028099	-2.59008140
CYLD	0.32970359	0.05028099	2.58996655
OR8U1	-0.32972096	0.05028099	-2.59011967
GFOD1	-0.32971013	0.05028099	-2.59002420
MRRF	0.32972995	0.05028099	2.59019886
SLC22A8	-0.32970164	0.05028099	-2.58994931
ZNF396	0.32969198	0.05028143	2.58986426
PAX4	-0.32967395	0.05028143	-2.58970532
SERPIN3	0.32968044	0.05028143	2.58976249
STIL	0.32965783	0.05028290	2.58956324
UTF1	-0.32964625	0.05028290	-2.58946116
SNX21	-0.32964538	0.05028290	-2.58945353
FSHB	-0.32960722	0.05031617	-2.58911722
KCTD3	0.32959713	0.05031731	2.58902830
LTA4H	0.32958174	0.05032452	2.58889270
ZNF488	-0.32953109	0.05037213	-2.58844638
HTR7	-0.32946996	0.05043179	-2.58790773
LOC221442	0.32945467	0.05043891	2.58777294
KCNJ14	-0.32943557	0.05045039	-2.58760468
PSMC4	0.32940137	0.05047921	2.58730340
AMELY	-0.32937909	0.05049436	-2.58710709
GPR112	-0.32923292	0.05055800	-2.58581940
DR1	0.32923601	0.05055800	2.58584658
MED19	-0.32923418	0.05055800	-2.58583048
FAM181B	-0.32923491	0.05055800	-2.58583689
FOXO1	-0.32926830	0.05055800	-2.58613107
LACE1	0.32928625	0.05055800	2.58628917
TAS2R39	-0.32923920	0.05055800	-2.58587473

CD248	-0.32929328	0.05055800	-2.58635113	
STXBP3	0.32928353	0.05055800	2.58626521	
UCN2	-0.32931366	0.05055800	-2.58653065	
MED6	0.32921363	0.05056974	2.58564947	yes
LARP4	0.32918724	0.05057623	2.58541703	
FCER2	-0.32919882	0.05057623	-2.58551899	
NTN3	-0.32918079	0.05057623	-2.58536020	
CLDN24	-0.32915138	0.05059963	-2.58510109	
DPP8	0.32913555	0.05060740	2.58496168	
COL5A3	-0.32912343	0.05061093	-2.58485490	
R3HDML	-0.32911235	0.05061167	-2.58475738	
S100A7A	-0.32908656	0.05061167	-2.58453018	
LOC348926	-0.32910330	0.05061167	-2.58467763	
CEP97	0.32909384	0.05061167	2.58459433	
SNAPC3	0.32902496	0.05067211	2.58398771	
SFRS12IP1	0.32898647	0.05069336	2.58364875	
PACS1	-0.32898319	0.05069336	-2.58361979	
PP8961	-0.32897934	0.05069336	-2.58358596	
KCNN3	-0.32896994	0.05069377	-2.58350317	
LPCAT3	0.32892478	0.05070400	2.58310543	
MYL12A	0.32891339	0.05070400	2.58300514	
KLB	-0.32894005	0.05070400	-2.58323992	
GRIN2D	-0.32889023	0.05070400	-2.58280117	
OR4K17	-0.32890804	0.05070400	-2.58295802	
CYTL1	-0.32895136	0.05070400	-2.58333950	
PTCD3	0.32888189	0.05070400	2.58272780	
HIRA	0.32888298	0.05070400	2.58273740	
EIF3H	0.32887970	0.05070400	2.58270848	
GBE1	0.32882324	0.05075861	2.58221138	
DKKL1	-0.32881228	0.05076083	-2.58211489	
FLJ40142	-0.32878766	0.05077880	-2.58189811	
NDUFA3	-0.32877841	0.05077906	-2.58181664	
SLC35F1	-0.32873159	0.05079649	-2.58140439	
AOF2	0.32872078	0.05079649	2.58130927	
BRP44	0.32871816	0.05079649	2.58128619	yes
SLC27A6	-0.32873646	0.05079649	-2.58144730	
KRTAP19-1	-0.32872380	0.05079649	-2.58133588	
HBII-52-24	-0.32864560	0.05080739	-2.58064742	
LOC388199	-0.32866774	0.05080739	-2.58084230	
PCDH8	-0.32865192	0.05080739	-2.58070302	
DCTN4	0.32869042	0.05080739	2.58104200	
KLHL9	0.32864790	0.05080739	2.58066767	
SLC3A2	0.32866173	0.05080739	2.58078937	
SGK493	-0.32867972	0.05080739	-2.58094781	yes
MDN1	0.32861956	0.05081664	2.58041817	
F2RL3	-0.32861978	0.05081664	-2.58042009	yes
BATF3	-0.32858503	0.05084607	-2.58011419	
PION	0.32857066	0.05085226	2.57998770	
MED23	0.32855292	0.05086233	2.57983158	
SEP3	-0.32854052	0.05086625	-2.57972241	

RIT1	0.32851007	0.05088061	2.57945438	
TSPYL2	-0.32851360	0.05088061	-2.57948547	
LOC100128576	0.32846577	0.05091357	2.57906448	
FLJ41170	-0.32846351	0.05091357	-2.57904462	
RASGEF1B	0.32843883	0.05093168	2.57882739	
C15orf43	-0.32839014	0.05096713	-2.57839888	
KLHL5	0.32839605	0.05096713	2.57845086	
PAX2	-0.32837897	0.05096966	-2.57830054	
GPRASP2	-0.32835787	0.05098364	-2.57811488	
RXFP4	-0.32832548	0.05101069	-2.57782983	
SNORD113-4	-0.32830801	0.05102049	-2.57767608	
MTMR1	0.32829286	0.05102762	2.57754275	
MYOF	0.32827195	0.05104140	2.57735880	
CYP3A43	-0.32826147	0.05104314	-2.57726652	
OPRL1	-0.32824939	0.05104672	-2.57716026	
ASF1A	0.32821465	0.05107651	2.57685461	
CCR9	-0.32820317	0.05107941	-2.57675357	
C21orf129	-0.32817059	0.05109633	-2.57646686	
NDUFC2	0.32817223	0.05109633	2.57648137	
CCT6B	0.32811350	0.05113124	2.57596464	
PLS1	0.32811735	0.05113124	2.57599846	
RNF112	-0.32811572	0.05113124	-2.57598414	
C7orf47	-0.32806391	0.05116348	-2.57552830	
POU4F2	-0.32804082	0.05116348	-2.57532515	
C7orf43	-0.32804450	0.05116348	-2.57535755	
MRPL11	-0.32805682	0.05116348	-2.57546596	
KCNH7	-0.32804334	0.05116348	-2.57534736	
IMPG1	-0.32798251	0.05122066	-2.57481227	
C10orf125	-0.32795853	0.05123808	-2.57460126	
HPRT1	0.32793401	0.05125612	2.57438564	
TESSP1	-0.32791968	0.05126097	-2.57425953	
C14orf142	0.32791190	0.05126097	2.57419114	
ZIC3	-0.32788355	0.05128347	-2.57394179	
DPM1	0.32786634	0.05129305	2.57379038	
S100A7	-0.32785699	0.05129351	-2.57370811	
OR5AS1	-0.32783736	0.05130590	-2.57353545	
YWHAQ	0.32777311	0.05134888	2.57297037	
COX15	0.32776453	0.05134888	2.57289498	
C10orf25	-0.32777076	0.05134888	-2.57294970	
REG1A	-0.32778563	0.05134888	-2.57308054	yes
LOC100133424	0.32774672	0.05134990	2.57273834	
C9orf3	0.32774576	0.05134990	2.57272985	
NTNG2	-0.32773246	0.05135495	-2.57261288	
LOC646316	0.32772243	0.05135622	2.57252466	
RPL3L	-0.32770660	0.05136367	-2.57238551	
SLC18A3	-0.32769812	0.05136367	-2.57231091	
ZIM2	-0.32766523	0.05137073	-2.57202165	
KCNIP1	-0.32767245	0.05137073	-2.57208522	
SRP14	0.32767035	0.05137073	2.57206673	
OPA1	0.32764370	0.05137245	2.57183238	

POLR2C	0.32762801	0.05137245	2.57169438	
TMEM50B	0.32763668	0.05137245	2.57177065	
WISP1	-0.32764062	0.05137245	-2.57180531	
TMEM192	0.32759453	0.05140098	2.57139999	
AMBN	-0.32755335	0.05142476	-2.57103796	
WIPI2	0.32754728	0.05142476	2.57098455	
EXOSC3	0.32755000	0.05142476	2.57100850	
SNORA29	0.32753070	0.05143366	2.57083881	
HNRNPH1	0.32751369	0.05144306	2.57068922	
WDR64	-0.32749098	0.05145150	-2.57048951	
ABCC13	-0.32744379	0.05145150	-2.57007470	
MBL2	-0.32745207	0.05145150	-2.57014750	
PRH1	-0.32748368	0.05145150	-2.57042533	
USP35	-0.32746132	0.05145150	-2.57022882	
NCOA4	0.32743510	0.05145150	2.56999823	
ADAMTS4	-0.32744574	0.05145150	-2.57009179	
MORF4L2	0.32746800	0.05145150	2.57028754	yes
CP	0.32741890	0.05145997	2.56985588	
ADAM28	0.32740187	0.05146388	2.56970612	
BRWD2	0.32739772	0.05146388	2.56966964	
TTY11	-0.32738561	0.05146761	-2.56956317	
RCBTB2	0.32735340	0.05149471	2.56928006	
COPG2	0.32730829	0.05150577	2.56888348	
RECQL	0.32731775	0.05150577	2.56896662	
CCL7	-0.32730876	0.05150577	-2.56888759	
PTER	0.32731734	0.05150577	2.56896307	
LOC100131507	-0.32724928	0.05155080	-2.56836479	
DLEU1	0.32722512	0.05155080	2.56815245	
KLHL4	-0.32723619	0.05155080	-2.56824974	yes
NPAL3	0.32722865	0.05155080	2.56818351	
FLJ22184	-0.32725968	0.05155080	-2.56845622	
ZDHHC20	0.32721597	0.05155111	2.56807202	
PTH1R	-0.32719885	0.05156069	-2.56792154	
LOC100128510	0.32714976	0.05157775	2.56749012	
PELI3	-0.32714865	0.05157775	-2.56748035	
SCGB2A2	-0.32715559	0.05157775	-2.56754135	
UBE2Q2	0.32716326	0.05157775	2.56760875	
GFRA2	-0.32713633	0.05158176	-2.56737203	
KRBA1	-0.32708329	0.05163320	-2.56690592	
TPD52L3	-0.32706695	0.05164189	-2.56676235	
ESR1	-0.32702899	0.05167580	-2.56642877	
CD300C	-0.32700615	0.05167597	-2.56622810	
ESM1	-0.32698884	0.05167597	-2.56607597	
HABP4	-0.32701402	0.05167597	-2.56629720	
DSCR9	-0.32699723	0.05167597	-2.56614967	
ODF2L	0.32697725	0.05167597	2.56597414	
ALX4	-0.32697559	0.05167597	-2.56595956	
RAB18	0.32694228	0.05170448	2.56566681	
RP11-49G10.8	-0.32691906	0.05172122	-2.56546285	
KISS1	-0.32688031	0.05175610	-2.56512235	

FXYD1	-0.32685212	0.05177866	-2.56487467	
HOPX	-0.32683885	0.05178381	-2.56475806	
C1GALT1C1	0.32681206	0.05179439	2.56452271	
NOL7	0.32681679	0.05179439	2.56456425	
LRRC4B	-0.32676594	0.05183793	-2.56411753	yes
COPS8	0.32674798	0.05184856	2.56395979	
RPL29P12	-0.32673887	0.05184886	-2.56387972	
WDSUB1	0.32670796	0.05186327	2.56360817	
C15orf51	-0.32670787	0.05186327	-2.56360745	
FAM73A	0.32669111	0.05186327	2.56346021	
HORMAD1	0.32669551	0.05186327	2.56349886	
C20orf197	-0.32667162	0.05186537	-2.56328898	
KIR2DL4	-0.32667456	0.05186537	-2.56331481	
DKFZp434E1119	-0.32665987	0.05186875	-2.56318581	
TSPYL3	-0.32664149	0.05187176	-2.56302432	
ZBTB1	0.32661982	0.05187176	2.56283396	
C3orf27	-0.32661307	0.05187176	-2.56277470	
GYG1	0.32661882	0.05187176	2.56282516	
IPO11	0.32663530	0.05187176	2.56296994	
AOF1	0.32658501	0.05188390	2.56252823	
OLR1	-0.32658503	0.05188390	-2.56252845	
ORC4L	0.32655702	0.05190629	2.56228243	
CTRC	-0.32648915	0.05194339	-2.56168634	
SMAD2	0.32643309	0.05194339	2.56119399	
PLOD1	-0.32650462	0.05194339	-2.56182222	
PPP1CB	0.32641936	0.05194339	2.56107341	
PPP1CC	0.32642809	0.05194339	2.56115007	
KTELC1	0.32646891	0.05194339	2.56150856	
RPL5	0.32646332	0.05194339	2.56145947	
SCN5A	-0.32647195	0.05194339	-2.56153524	
ARAP3	-0.32648250	0.05194339	-2.56162792	
TAF4	-0.32644640	0.05194339	-2.56131091	
TSG101	0.32646973	0.05194339	2.56151579	
UBE2G1	0.32643200	0.05194339	2.56118439	
PIGL	0.32637459	0.05198547	2.56068026	
KRR1	0.32634358	0.05200482	2.56040795	
OR4C11	-0.32634042	0.05200482	-2.56038027	
MOBK13	0.32627159	0.05202351	2.55977588	
PLA2G5	-0.32631056	0.05202351	-2.56011808	
TRPV5	-0.32627233	0.05202351	-2.55978236	
LOC645769	-0.32629084	0.05202351	-2.55994488	
SLC14A1	-0.32628080	0.05202351	-2.55985673	
SLC16A6	0.32628393	0.05202351	2.55988421	
C3orf46	-0.32625024	0.05203820	-2.55958843	
RP13-102H20.1	-0.32621686	0.05205667	-2.55929533	
RP2	0.32622068	0.05205667	2.55932890	yes
CHMP1B	0.32617109	0.05208968	2.55889349	
LOC729898	-0.32617958	0.05208968	-2.55896807	
JUND	-0.32614982	0.05210430	-2.55870678	
C6orf208	-0.32610077	0.05215152	-2.55827616	

MOG	-0.32609040	0.05215335	-2.55818517	
CCDC102A	-0.32606996	0.05216702	-2.55800571	
CCDC59	0.32601549	0.05222065	2.55752755	
PSPN	-0.32595135	0.05227536	-2.55696456	
ACVRL1	-0.32595664	0.05227536	-2.55701097	yes
STXBP1	-0.32594022	0.05227809	-2.55686693	
MC2R	-0.32592530	0.05228530	-2.55673593	
LCN1	-0.32590455	0.05229936	-2.55655382	
ZNF622	0.32585971	0.05234176	2.55616032	
FCAMR	-0.32581207	0.05238750	-2.55574223	
EIF4A1	0.32578059	0.05239352	2.55546596	
LOC100133412	-0.32578470	0.05239352	-2.55550201	
SAR1B	0.32579735	0.05239352	2.55561300	
NEU4	-0.32576170	0.05239507	-2.55530020	
HCN3	-0.32576979	0.05239507	-2.55537120	
C17orf74	-0.32575143	0.05239682	-2.55521006	
LIN28B	-0.32574179	0.05239784	-2.55512545	
KCNMB1	-0.32570990	0.05242506	-2.55484560	
PRLHR	-0.32568630	0.05244252	-2.55463852	
ZFP30	0.32566913	0.05244477	2.55448788	
IL1RAPL2	-0.32564928	0.05244477	-2.55431370	
LOC388282	-0.32565188	0.05244477	-2.55433648	
ECSIT	-0.32565057	0.05244477	-2.55432502	
GPR172B	-0.32563258	0.05245411	-2.55416719	
BRWD3	0.32561036	0.05246997	2.55397218	
AQP6	-0.32558400	0.05249070	-2.55374097	
PRAME	-0.32556600	0.05250158	-2.55358306	
TSGA10IP	-0.32555416	0.05250521	-2.55347911	
COLEC10	-0.32551825	0.05253723	-2.55316412	
THADA	0.32548441	0.05256682	2.55286726	
SLC26A1	-0.32547174	0.05256712	-2.55275604	
FASTKD1	0.32546662	0.05256712	2.55271121	
UBE2K	0.32540759	0.05262650	2.55219334	
ANKRD18A	0.32539369	0.05263257	2.55207139	
OR4D5	-0.32537591	0.05264323	-2.55191543	
TTC17	0.32535781	0.05265426	2.55175673	
FAM65C	-0.32534035	0.05266456	-2.55160350	
OMA1	0.32531915	0.05267120	2.55141755	yes
FLJ42957	-0.32531721	0.05267120	-2.55140061	yes
RPS6KL1	-0.32524349	0.05274670	-2.55075400	
JRKL	0.32523588	0.05274670	2.55068727	
C9orf72	0.32522280	0.05275182	2.55057257	
TEF	-0.32520082	0.05276748	-2.55037978	
SH3RF3	-0.32517809	0.05278404	-2.55018040	
SWAP70	0.32516300	0.05279155	2.55004808	
ACTN2	-0.32515068	0.05279577	-2.54994005	
TRIML2	-0.32513587	0.05280295	-2.54981020	
TMEM139	-0.32511520	0.05281708	-2.54962892	
GPR25	-0.32507901	0.05283923	-2.54931160	
MOS	-0.32508055	0.05283923	-2.54932512	

RAB1A	0.32506306	0.05284778	2.54917173	
LCE3B	-0.32501767	0.05289124	-2.54877368	
MTF1	0.32499971	0.05290217	2.54861624	yes
PSMD5	0.32489909	0.05301126	2.54773405	
ZNF75D	0.32484821	0.05306135	2.54728804	
C2orf21	-0.32483634	0.05306508	-2.54718392	
VAX2	-0.32481581	0.05307910	-2.54700398	
HARS2	0.32478751	0.05310238	2.54675587	
OR10G7	-0.32473516	0.05315430	-2.54629697	
DEFB112	-0.32468724	0.05318092	-2.54587694	
CATSPER4	-0.32468660	0.05318092	-2.54587134	
IQSEC3	-0.32470281	0.05318092	-2.54601341	
IL17F	-0.32465134	0.05319834	-2.54556229	
C6orf170	0.32465206	0.05319834	2.54556861	
MSX2	-0.32464508	0.05319834	-2.54550741	
TMEM49	0.32463705	0.05319834	2.54543709	
NOLC1	0.32461138	0.05321854	2.54521204	
MBD6	-0.32455477	0.05324441	-2.54471599	
ZNF611	0.32457295	0.05324441	2.54487528	
TP53INP1	0.32455895	0.05324441	2.54475262	
USP34	0.32456247	0.05324441	2.54478340	
LCE3D	-0.32454194	0.05324931	-2.54460354	
RFC2	0.32450426	0.05327345	2.54427334	
PRPF4B	0.32450459	0.05327345	2.54427615	
NDST4	-0.32448249	0.05328902	-2.54408255	
GOLT1A	-0.32445261	0.05331428	-2.54382066	
OR56A4	-0.32437949	0.05335219	-2.54317996	
PCBD1	0.32440275	0.05335219	2.54338375	
LOC647086	-0.32437728	0.05335219	-2.54316062	
NPHS2	-0.32438275	0.05335219	-2.54320858	
SLC28A2	-0.32438529	0.05335219	-2.54323077	
SIGLEC5	-0.32436172	0.05336038	-2.54302427	
PTS	0.32435071	0.05336312	2.54292784	
ST13	0.32433456	0.05337201	2.54278632	
C1QTNF2	-0.32432143	0.05337419	-2.54267128	
PHF1	-0.32431533	0.05337419	-2.54261783	
PAK4	-0.32430069	0.05337449	-2.54248952	
MAGED2	0.32429767	0.05337449	2.54246314	
ADRA1D	-0.32427746	0.05338824	-2.54228600	
KARS	0.32422480	0.05344078	2.54182464	
ENOPH1	0.32420903	0.05344922	2.54168656	
USP16	0.32412513	0.05351036	2.54095159	
SEP8	-0.32411444	0.05351036	-2.54085794	
DNMBP	0.32411742	0.05351036	2.54088404	
LOC643997	-0.32411978	0.05351036	-2.54090470	
IKBKAP	0.32413977	0.05351036	2.54107977	
BHLHA15	-0.32407253	0.05353646	-2.54049084	
GK5	0.32406657	0.05353646	2.54043858	
PILRA	-0.32406701	0.05353646	-2.54044249	
APOC4	-0.32405520	0.05353967	-2.54033899	

TOR2A	-0.32403439	0.05355418	-2.54015670	
FNTA	0.32396648	0.05361472	2.53956193	
SLC16A12	-0.32396921	0.05361472	-2.53958583	
OR10Q1	-0.32395195	0.05362172	-2.53943472	
RXFP3	-0.32393224	0.05363494	-2.53926210	
LHCGR	-0.32391945	0.05363986	-2.53915007	
ANKRD9	-0.32387520	0.05368252	-2.53876253	
NUDT5	0.32384700	0.05370594	2.53851558	
CDC26	0.32379335	0.05375284	2.53804581	
SOAT1	0.32378189	0.05375284	2.53794545	
GCM1	-0.32378694	0.05375284	-2.53798970	
DOK1	-0.32375113	0.05375854	-2.53767606	yes
ARL1	0.32375763	0.05375854	2.53773305	
CEP70	0.32376790	0.05375854	2.53782297	
TBX6	-0.32372745	0.05376614	-2.53746876	
LCMT2	0.32373349	0.05376614	2.53752167	
LOC100133322	-0.32364175	0.05378763	-2.53671843	
GPR45	-0.32366251	0.05378763	-2.53690021	
SRFBP1	0.32369319	0.05378763	2.53716878	
OR1Q1	-0.32367737	0.05378763	-2.53703030	
RBM28	0.32365271	0.05378763	2.53681438	
PSMD10	0.32369031	0.05378763	2.53714360	
C15orf45	-0.32362501	0.05378763	-2.53657186	
APOL5	-0.32362294	0.05378763	-2.53655376	
EOMES	-0.32365844	0.05378763	-2.53686451	
CAMK1	-0.32363798	0.05378763	-2.53668541	
KIAA1841	0.32361025	0.05379248	2.53644263	
REG1B	-0.32358354	0.05381417	-2.53620878	
TIMM22	0.32355185	0.05384184	2.53593140	
P2RY5	0.32352301	0.05384532	2.53567893	
PGLYRP2	-0.32352813	0.05384532	-2.53572371	
NFIC	-0.32353687	0.05384532	-2.53580027	
TROAP	-0.32351160	0.05384864	-2.53557905	
F11	-0.32348833	0.05386622	-2.53537529	
DUSP26	-0.32345290	0.05389843	-2.53506517	
TMSB15A	-0.32341888	0.05392895	-2.53476742	
FAM3A	-0.32339635	0.05394567	-2.53457020	
CHRND	-0.32338419	0.05394990	-2.53446376	
FOXI1	-0.32337482	0.05395077	-2.53438179	
OXT	-0.32332027	0.05400605	-2.53390435	
CMTM1	-0.32327134	0.05404093	-2.53347607	
PCDHGC5	-0.32326542	0.05404093	-2.53342425	
RABGGTB	0.32328011	0.05404093	2.53355286	
PRKCDBP	-0.32322238	0.05406035	-2.53304763	
PDXP	-0.32322368	0.05406035	-2.53305902	
XYLT1	-0.32321477	0.05406035	-2.53298100	
CADPS	-0.32323550	0.05406035	-2.53316241	
PRMT5	0.32319214	0.05407599	2.53278302	
SGCZ	-0.32314366	0.05407599	-2.53235877	
C1orf177	-0.32316953	0.05407599	-2.53258513	

ZCCHC24	-0.32313776	0.05407599	-2.53230711	
C1orf104	-0.32313518	0.05407599	-2.53228455	
ZNF821	-0.32314928	0.05407599	-2.53240799	
ZNF26	0.32313279	0.05407599	2.53226361	
SHOC2	0.32316812	0.05407599	2.53257279	
CHRM3	-0.32311382	0.05407807	-2.53209768	
CLCN1	-0.32311924	0.05407807	-2.53214510	
C6orf167	0.32309409	0.05408245	2.53192503	
KIAA1712	0.32309296	0.05408245	2.53191516	
TMEM56	0.32306139	0.05408369	2.53163895	
CCDC116	-0.32304027	0.05408369	-2.53145410	
TSPAN16	-0.32305232	0.05408369	-2.53155951	
FLJ41423	-0.32305519	0.05408369	-2.53158470	
LRRN3	-0.32304794	0.05408369	-2.53152125	yes
NARS2	0.32307344	0.05408369	2.53174430	
NKX2-8	-0.32300323	0.05409913	-2.53113009	
AIRE	-0.32300165	0.05409913	-2.53111624	
RPL30	0.32301452	0.05409913	2.53122878	
FBXO38	0.32294541	0.05415658	2.53062415	
DCST1	-0.32290493	0.05419506	-2.53027003	
C8orf38	0.32288741	0.05419543	2.53011683	
HNRPLL	0.32288848	0.05419543	2.53012617	
LOC100133410	-0.32284479	0.05422094	-2.52974397	
ZNF529	0.32285666	0.05422094	2.52984783	
CCL22	-0.32284050	0.05422094	-2.52970643	
SPDYE7P	-0.32282182	0.05423312	-2.52954305	
BXDC5	0.32279518	0.05425492	2.52931000	
TSNARE1	-0.32277798	0.05425494	-2.52915953	
ZP2	-0.32278505	0.05425494	-2.52922139	
HSD17B12	0.32276449	0.05426086	2.52904156	
POP4	0.32272667	0.05429347	2.52871073	
NKAIN4	-0.32272033	0.05429347	-2.52865534	
C2orf56	0.32268642	0.05432409	2.52835872	
C12orf74	0.32266615	0.05433821	2.52818148	
NOC3L	0.32263270	0.05436830	2.52788892	
CST5	-0.32260141	0.05438639	-2.52761531	
HECW1	-0.32259321	0.05438639	-2.52754358	
IZUMO1	-0.32258673	0.05438639	-2.52748690	
DERL2	0.32258342	0.05438639	2.52745796	
NLRP7	-0.32253898	0.05441942	-2.52706932	
HTR3E	-0.32254538	0.05441942	-2.52712527	
NUDT21	0.32252562	0.05442521	2.52695250	
SMC3	0.32249840	0.05444780	2.52671447	
PRSS33	-0.32247539	0.05445629	-2.52651329	
NUDT18	-0.32247424	0.05445629	-2.52650325	
ASB11	-0.32241922	0.05451258	-2.52602214	
GNB3	-0.32240299	0.05452187	-2.52588022	
MLL4	-0.32238404	0.05453446	-2.52571452	
COL27A1	-0.32235091	0.05456425	-2.52542491	
ZFP161	0.32228743	0.05463091	2.52486988	

GAF2	-0.32221187	0.05466247	-2.52420940	
DEFB128	-0.32223492	0.05466247	-2.52441088	
METTL14	0.32223143	0.05466247	2.52438039	
PEX19	0.32221362	0.05466247	2.52422468	
RFWD2	0.32223263	0.05466247	2.52439081	
TMTC4	0.32221006	0.05466247	2.52419355	
VPS36	0.32213474	0.05474362	2.52353518	
NOL11	0.32208484	0.05479394	2.52309899	
OBFC1	0.32205299	0.05482229	2.52282061	
FAM70A	-0.32202026	0.05485173	-2.52253461	
SLC31A1	0.32198448	0.05488491	2.52222187	
MRPS30	0.32196688	0.05488545	2.52206808	
NXPH3	-0.32192255	0.05488545	-2.52168070	
FAM148A	-0.32189165	0.05488545	-2.52141066	
GTF2H3	0.32193046	0.05488545	2.52174976	
RBPJ	0.32190599	0.05488545	2.52153592	
IL8RA	-0.32192512	0.05488545	-2.52170315	
NPR1	-0.32194014	0.05488545	-2.52183435	
TRIT1	0.32188996	0.05488545	2.52139591	
LIN7C	0.32189409	0.05488545	2.52143193	
LOC645195	-0.32195980	0.05488545	-2.52200621	
GJA10	-0.32191580	0.05488545	-2.52162169	
PP14571	-0.32183865	0.05489714	-2.52094746	
FCHO2	0.32185889	0.05489714	2.52112438	
GPR135	-0.32183767	0.05489714	-2.52093897	
SLC20A1	0.32184270	0.05489714	2.52098290	
BRSK2	-0.32186868	0.05489714	-2.52120992	
OR6N1	-0.32182573	0.05490128	-2.52083464	
CCDC126	0.32181304	0.05490635	2.52072372	
ZNF192	0.32176363	0.05495619	2.52029204	
ACAP2	0.32171953	0.05499958	2.51990674	
TMEM210	-0.32168754	0.05501780	-2.51962724	
DAB1	-0.32169300	0.05501780	-2.51967491	
C9orf45	0.32165107	0.05505193	2.51930855	
LEPRE1	-0.32162960	0.05506773	-2.51912102	yes
OR111	-0.32155976	0.05508014	-2.51851093	
FLJ43860	-0.32157706	0.05508014	-2.51866208	
OR6C75	-0.32158337	0.05508014	-2.51871714	
NFIX	-0.32156389	0.05508014	-2.51854701	
TEX14	-0.32158655	0.05508014	-2.51874496	
ENTPD7	0.32159058	0.05508014	2.51878011	
SNX22	-0.32156291	0.05508014	-2.51853843	
KIAA1279	0.32154879	0.05508314	2.51841510	yes
CDRT15	-0.32152022	0.05510764	-2.51816552	
COMMD8	0.32149897	0.05512321	2.51797989	
TCTE3	-0.32148436	0.05513065	-2.51785230	
LOC100133426	-0.32146706	0.05514140	-2.51770115	
SIGLEC7	-0.32142850	0.05516773	-2.51736438	
OR12D3	-0.32143108	0.05516773	-2.51738692	
RSPO3	-0.32141295	0.05517634	-2.51722854	

OR10A6	-0.32138906	0.05519515	-2.51701992	
ADSS	0.32130969	0.05524023	2.51632674	
COG4	0.32131137	0.05524023	2.51634143	
SNORD44	0.32132002	0.05524023	2.51641698	
TMEM106B	0.32133181	0.05524023	2.51651992	
ZWILCH	0.32132201	0.05524023	2.51643431	
SLC17A4	-0.32126916	0.05526903	-2.51597281	
KIAA0368	0.32127184	0.05526903	2.51599625	
POLR3F	0.32119995	0.05527190	2.51536846	
STAG2	0.32115884	0.05527190	2.51500943	
ATXN7L2	-0.32115639	0.05527190	-2.51498812	
ZNF714	-0.32119247	0.05527190	-2.51530313	
CITED4	-0.32116407	0.05527190	-2.51505512	
OR4D10	-0.32120362	0.05527190	-2.51540044	
PAX7	-0.32118610	0.05527190	-2.51524749	
PTPRO	-0.32120831	0.05527190	-2.51544144	
ATP13A3	0.32118600	0.05527190	2.51524665	
MAP7D3	-0.32122253	0.05527190	-2.51556557	
ARL14	-0.32117542	0.05527190	-2.51515425	
PKMYT1	-0.32119027	0.05527190	-2.51528394	
ZBTB24	0.32125689	0.05527190	2.51586569	
C11orf53	-0.32113809	0.05527623	-2.51482827	
WNT1	-0.32113589	0.05527623	-2.51480912	
SNX13	0.32108325	0.05527905	2.51434943	
FBXO24	-0.32107435	0.05527905	-2.51427173	
NEFH	-0.32107424	0.05527905	-2.51427080	
DDX4	-0.32108334	0.05527905	-2.51435026	
RAB42P	-0.32111558	0.05527905	-2.51463178	
TSSC1	0.32107537	0.05527905	2.51428070	
U2AF1	0.32109376	0.05527905	2.51444122	
CLEC1B	-0.32105891	0.05528745	-2.51413696	
DNTTIP2	0.32102596	0.05531742	2.51384933	
PRSSL1	-0.32101647	0.05531868	-2.51376640	
IL21	-0.32094268	0.05539874	-2.51312225	
LOC100132323	-0.32092471	0.05540000	-2.51296539	
STK3	0.32093015	0.05540000	2.51301288	
PHOSPHO1	-0.32083615	0.05548790	-2.51219235	
HSPB2	-0.32083760	0.05548790	-2.51220498	
MAPK14	0.32081124	0.05549520	2.51197494	
C14orf106	0.32082107	0.05549520	2.51206074	
MGC4294	-0.32080481	0.05549520	-2.51191879	
TTF1	0.32078431	0.05550999	2.51173985	
hCG_2045089	-0.32075489	0.05551494	-2.51148312	
CLIP1	0.32075988	0.05551494	2.51152663	yes
HEATR6	0.32075929	0.05551494	2.51152146	
ITM2B	0.32071777	0.05555017	2.51115907	
COL9A1	-0.32070556	0.05555477	-2.51105258	
RPP40	0.32066179	0.05557740	2.51067055	yes
ADAMTS19	-0.32066426	0.05557740	-2.51069207	
N4BP2	0.32066782	0.05557740	2.51072322	

IPO7	0.32063810	0.05559075	2.51046380	
NCKAP1	0.32063403	0.05559075	2.51042830	
DNAJB8	-0.32051722	0.05564093	-2.50940899	
GABRA6	-0.32055427	0.05564093	-2.50973227	
HMGCR	0.32051951	0.05564093	2.50942901	
IL8	0.32053351	0.05564093	2.50955117	
GBP7	-0.32056991	0.05564093	-2.50986880	
LCNL1	-0.32054956	0.05564093	-2.50969117	
SMOX	-0.32057626	0.05564093	-2.50992419	
VPS13C	0.32053173	0.05564093	2.50953564	
EIF4A3	0.32052972	0.05564093	2.50951805	
PSMD2	0.32050208	0.05564918	2.50927686	
LOC100130633	0.32045785	0.05566203	2.50889099	
CLEC3A	-0.32045159	0.05566203	-2.50883634	
SLC30A7	0.32046041	0.05566203	2.50891330	
LCE5A	-0.32045586	0.05566203	-2.50887362	
OCLN	0.32044946	0.05566203	2.50881775	
DLX1	-0.32042990	0.05566535	-2.50864712	
PHOX2B	-0.32043536	0.05566535	-2.50869474	
FLJ35776	0.32035574	0.05574627	2.50800009	
SBK2	-0.32034266	0.05575200	-2.50788597	
MAL2	0.32032050	0.05576592	2.50769268	yes
CACNA1A	-0.32031451	0.05576592	-2.50764040	
FAM178B	-0.32029558	0.05577887	-2.50747523	
GPR160	0.32026912	0.05578034	2.50724441	
C12orf5	0.32027853	0.05578034	2.50732651	
SEMG1	-0.32027379	0.05578034	-2.50728519	
PELI1	0.32023900	0.05580707	2.50698172	
SAMD4A	-0.32023036	0.05580735	-2.50690632	
H2BFWT	-0.32020755	0.05582509	-2.50670736	
IARS	0.32019826	0.05582616	2.50662638	
NEBL	0.32016679	0.05584116	2.50635182	yes
GADD45A	0.32016086	0.05584116	2.50630011	
GH1	-0.32017272	0.05584116	-2.50640359	
MED1	0.32015096	0.05584300	2.50621373	
ZNF223	0.32014205	0.05584361	2.50613602	
FGF21	-0.32013100	0.05584686	-2.50603970	
PEX12	0.32012195	0.05584765	2.50596075	
SNORD116-11	-0.32009051	0.05586570	-2.50568653	
TMBIM4	0.32009156	0.05586570	2.50569565	
PDHB	0.32007000	0.05588063	2.50550762	
SLC6A14	0.32005474	0.05588908	2.50537459	
EI24	0.32003750	0.05590000	2.50522417	
RHBDL1	-0.32002598	0.05590383	-2.50512378	
SCFD2	0.31998622	0.05593218	2.50477697	
TRMT61B	0.31999183	0.05593218	2.50482591	
INO80E	-0.31993321	0.05598728	-2.50431470	
SIGLEC1	-0.31988534	0.05602750	-2.50389731	
C5orf44	0.31988387	0.05602750	2.50388444	
ORC2L	0.31986902	0.05603547	2.50375502	

C6orf122	-0.31985500	0.05604243	-2.50363276	
NEURL2	-0.31979786	0.05608726	-2.50313454	
CSTF2	0.31979358	0.05608726	2.50309717	
TMEFF2	-0.31980006	0.05608726	-2.50315367	
FBLN7	-0.31974162	0.05612040	-2.50264423	
RPS6KA6	0.31975341	0.05612040	2.50274702	
COPS2	0.31974677	0.05612040	2.50268908	
AGRP	-0.31971944	0.05612182	-2.50245078	
IL18	0.31969855	0.05612182	2.50226870	
MUDENG	0.31971299	0.05612182	2.50239455	yes
PSG4	-0.31970142	0.05612182	-2.50229372	
ZMYM6	0.31971469	0.05612182	2.50240943	
CRLF1	-0.31964700	0.05617526	-2.50181933	
ZNF175	0.31962652	0.05619025	2.50164075	
AKAP10	0.31961549	0.05619087	2.50154458	
COPB2	0.31960927	0.05619087	2.50149036	
NVL	0.31950485	0.05629954	2.50058018	
MED13	0.31950735	0.05629954	2.50060200	
TUSC1	-0.31946965	0.05633282	-2.50027342	
LOC100133419	-0.31944158	0.05635727	-2.50002874	
ZSCAN10	-0.31941936	0.05637446	-2.49983510	
C11orf1	0.31933296	0.05647144	2.49908213	
C1orf49	-0.31931589	0.05648226	-2.49893337	
ATP2A2	0.31927316	0.05652501	2.49856095	
COMMD9	0.31925758	0.05653397	2.49842526	
PCBP4	-0.31922791	0.05656050	-2.49816668	yes
PLEKHA2	0.31921943	0.05656063	2.49809279	
RPL31P4	-0.31919571	0.05657974	-2.49788615	
CAMSAP1	0.31918617	0.05658120	2.49780302	
ERAS	-0.31916813	0.05659325	-2.49764582	
ACER1	-0.31911481	0.05664929	-2.49718121	
UQCRC2	0.31903494	0.05673849	2.49648537	
EMR1	-0.31896588	0.05679349	-2.49588376	
LYZ	-0.31896580	0.05679349	-2.49588310	
GNPAT	0.31897275	0.05679349	2.49594365	
TMEM108	-0.31895407	0.05679770	-2.49578088	
NRXN2	-0.31893192	0.05681493	-2.49558796	
SLC25A13	0.31891447	0.05682629	2.49543593	
ELP2	0.31889974	0.05683425	2.49530763	
GFPT2	-0.31888125	0.05684691	-2.49514660	
LILRA5	-0.31885479	0.05685909	-2.49491613	
MRPL51	0.31885559	0.05685909	2.49492311	
HMGNA4	0.31884540	0.05686038	2.49483436	
TRA2A	0.31882161	0.05687968	2.49462713	
LOC100131170	-0.31871886	0.05690377	-2.49373225	
SLC24A4	-0.31872388	0.05690377	-2.49377591	
MSI2	0.31872546	0.05690377	2.49378966	
DDX3X	0.31873480	0.05690377	2.49387104	yes
PRPS1L1	-0.31876923	0.05690377	-2.49417094	
LOC440733	-0.31873598	0.05690377	-2.49388129	

IL17RB	-0.31875946	0.05690377	-2.49408585
PSMB8	0.31873822	0.05690377	2.49390085
LOC644717	-0.31876396	0.05690377	-2.49412497
OR10W1	-0.31873012	0.05690377	-2.49383024
GSDMC	0.31869628	0.05692159	2.49353557
RTP1	-0.31862913	0.05693742	-2.49295085
LMOD1	-0.31865032	0.05693742	-2.49313532
IL9	-0.31866443	0.05693742	-2.49325818
C14orf181	-0.31862527	0.05693742	-2.49291716
ZNF219	-0.31866508	0.05693742	-2.49326388
DYNLT1	0.31863408	0.05693742	2.49299391
TMEM169	-0.31864947	0.05693742	-2.49312796
SPANXD	-0.31855421	0.05701595	-2.49229839
OCIAD2	0.31851074	0.05703909	2.49191991
LEMD3	0.31851699	0.05703909	2.49197436
FAM175A	0.31851648	0.05703909	2.49196992
UNC5D	-0.31848423	0.05704642	-2.49168907
EN2	-0.31842166	0.05704642	-2.49114432
KANK1	-0.31842281	0.05704642	-2.49115438
IL17C	-0.31843387	0.05704642	-2.49125068
SPDYE4	-0.31849078	0.05704642	-2.49174609
C16orf38	-0.31846992	0.05704642	-2.49156452
NUP133	0.31842405	0.05704642	2.49116512
SNORA28	0.31843374	0.05704642	2.49124953
VEPH1	-0.31843214	0.05704642	-2.49123559
COX4I2	-0.31846791	0.05704642	-2.49154700
TAS1R1	-0.31834988	0.05712597	-2.49051945
LCE3A	-0.31833467	0.05713462	-2.49038703
ANKRD29	-0.31828065	0.05718154	-2.48991674
ZNF114	-0.31828504	0.05718154	-2.48995497
VSIG4	-0.31825374	0.05720488	-2.48968256
KHK	-0.31819257	0.05727128	-2.48915009
GPC6	-0.31814768	0.05731003	-2.48875939
LOC404266	-0.31814512	0.05731003	-2.48873711
LOC400446	0.31808855	0.05733252	2.48824477
FLJ45256	-0.31808294	0.05733252	-2.48819592
MEOX2	-0.31810685	0.05733252	-2.48840399
HNRNPM	0.31809975	0.05733252	2.48834222
OLAH	-0.31811808	0.05733252	-2.48850178
MAPK8	0.31807739	0.05733252	2.48814758
OR9G1	-0.31806542	0.05733712	-2.48804346
AMY2B	0.31805648	0.05733792	2.48796569
TIE1	-0.31803390	0.05734544	-2.48776916
ZBTB16	-0.31803791	0.05734544	-2.48780405
SHBG	-0.31800388	0.05737277	-2.48750791
ATP6V1B1	-0.31797479	0.05739894	-2.48725473
CCDC27	-0.31791598	0.05746254	-2.48674303
C1orf86	-0.31789850	0.05747412	-2.48659088
C12orf34	-0.31787710	0.05749063	-2.48640472
CLDN7	0.31784625	0.05751906	2.48613625

SCARNA22	-0.31781299	0.05755054	-2.48584691	
BHLHA9	-0.31779760	0.05755950	-2.48571297	
SLC22A25	-0.31774333	0.05761664	-2.48524084	
P2RX7	-0.31773272	0.05761664	-2.48514853	
MRPL1	0.31772744	0.05761664	2.48510259	
C4orf3	0.31769417	0.05763771	2.48481318	
LOC729173	-0.31769938	0.05763771	-2.48485850	
SCGB1C1	-0.31765215	0.05764404	-2.48444763	
SEN5	0.31768044	0.05764404	2.48469368	
RPL13P12	-0.31766092	0.05764404	-2.48452393	
RIT2	-0.31765968	0.05764404	-2.48451309	
MANEA	0.31764774	0.05764404	2.48440922	
CTTN	0.31761983	0.05766883	2.48416643	
LRDD	-0.31759983	0.05768363	-2.48399249	
ANKRD5	0.31757057	0.05771014	2.48373794	
OR2B11	-0.31753428	0.05771705	-2.48342234	yes
KIFC3	-0.31752895	0.05771705	-2.48337595	
LIG4	0.31752372	0.05771705	2.48333042	
TBC1D7	0.31752970	0.05771705	2.48338249	
RNASEL	0.31752731	0.05771705	2.48336168	
SOST	-0.31751518	0.05771738	-2.48325617	
ASCL2	-0.31749870	0.05772775	-2.48311287	
DYNC2L11	0.31747680	0.05774498	2.48292239	
LIPM	-0.31744015	0.05778087	-2.48260365	
C7orf52	-0.31742112	0.05778402	-2.48243812	
SLC14A2	-0.31742177	0.05778402	-2.48244380	
PIK3CA	0.31738648	0.05780867	2.48213685	
ARMC5	-0.31738510	0.05780867	-2.48212490	
TWIST1	-0.31737070	0.05781644	-2.48199963	
TSC22D1	0.31736109	0.05781815	2.48191602	
PHIP	0.31725124	0.05794682	2.48096081	
COL4A2	-0.31719665	0.05796344	-2.48048614	yes
KCNS1	-0.31720495	0.05796344	-2.48055835	
TACSTD2	0.31719558	0.05796344	2.48047681	
MSH3	0.31721797	0.05796344	2.48067153	
ARID4B	0.31719764	0.05796344	2.48049475	
C14orf132	-0.31718856	0.05796344	-2.48041583	
UPK1A	-0.31716346	0.05796650	-2.48019760	
AK2	0.31717576	0.05796650	2.48030452	
RASA1	0.31716138	0.05796650	2.48017950	
ZNF792	-0.31712802	0.05796990	-2.47988941	
OTOP1	-0.31713994	0.05796990	-2.47999304	
ALDH1A1	0.31710976	0.05796990	2.47973073	
ATP1A1	0.31712009	0.05796990	2.47982048	
KCNAB1	-0.31710920	0.05796990	-2.47972581	
SLC10A3	-0.31713823	0.05796990	-2.47997823	
C20orf79	-0.31705558	0.05801699	-2.47925963	
SLC25A3	0.31705631	0.05801699	2.47926600	
TFB1M	0.31700046	0.05807648	2.47878051	
FAM160B1	0.31696295	0.05811365	2.47845439	

METT10D	0.31695121	0.05811809	2.47835234	
BIN1	-0.31694164	0.05811977	-2.47826920	
MLANA	-0.31692410	0.05812085	-2.47811669	
KIAA0947	0.31691930	0.05812085	2.47807501	
PYY	-0.31691608	0.05812085	-2.47804698	
C7orf38	0.31688315	0.05813153	2.47776072	
PRR18	-0.31686089	0.05813153	-2.47756724	
ACACA	0.31685003	0.05813153	2.47747287	
IL8RB	-0.31689483	0.05813153	-2.47786227	
A2BP1	-0.31686089	0.05813153	-2.47756726	
TTC19	0.31685771	0.05813153	2.47753967	
SRP19	-0.31685372	0.05813153	-2.47750494	
SCYL2	0.31683648	0.05813829	2.47735511	
UMOD	-0.31680171	0.05817201	-2.47705296	
USP1	0.31673387	0.05824783	2.47646331	
GNAQ	0.31668818	0.05829551	2.47606623	
SLC17A6	-0.31665239	0.05833061	-2.47575522	
PDCL	0.31663695	0.05833979	2.47562107	
AGK	0.31661779	0.05835372	2.47545462	
LYPLAL1	0.31660808	0.05835562	2.47537019	
KPNA6	0.31659411	0.05836293	2.47524886	
RPS6KA2	-0.31658094	0.05836924	-2.47513439	
RPS8P7	-0.31655791	0.05838811	-2.47493431	
PTPRA	0.31654565	0.05839327	2.47482777	
LOC100128225	-0.31649863	0.05839683	-2.47441918	
EME2	-0.31650315	0.05839683	-2.47445852	
KRT27	-0.31649356	0.05839683	-2.47437519	
MRGPRG	-0.31652311	0.05839683	-2.47463192	
C4orf14	0.31651571	0.05839683	2.47456762	
CHURC1	0.31651815	0.05839683	2.47458884	
KPTN	-0.31644753	0.05844505	-2.47397527	
PHPT1	-0.31638681	0.05849237	-2.47344775	
CNIH4	0.31639928	0.05849237	2.47355604	
OR8J3	-0.31638581	0.05849237	-2.47343906	
C21orf99	-0.31636645	0.05850661	-2.47327084	
USP9X	0.31633096	0.05854144	2.47296252	
FBXW2	0.31631269	0.05854467	2.47280383	
OR14A16	-0.31630381	0.05854467	-2.47272675	
DEFB132	-0.31631020	0.05854467	-2.47278225	
IDS	0.31628607	0.05855063	2.47257265	
WDR82	0.31628274	0.05855063	2.47254370	
SOX14	-0.31626716	0.05856005	-2.47240836	
CLC	-0.31619957	0.05863038	-2.47182129	
TMX1	0.31619573	0.05863038	2.47178787	
UAP1	0.31618442	0.05863435	2.47168969	
SLC46A3	0.31616375	0.05865030	2.47151018	
MARK3	0.31615514	0.05865084	2.47143532	
RCL1	0.31614183	0.05865738	2.47131972	
MS4A15	-0.31611892	0.05866362	-2.47112075	
TDRD7	0.31611081	0.05866362	2.47105035	yes

MPL	-0.31612468	0.05866362	-2.47117083	
C6orf226	-0.31610417	0.05866362	-2.47099271	
SHROOM4	-0.31607476	0.05869077	-2.47073725	yes
NPAS4	-0.31603987	0.05870815	-2.47043431	
LOXL2	-0.31604777	0.05870815	-2.47050284	
C6orf153	0.31603661	0.05870815	2.47040597	
SPATA2L	-0.31601300	0.05872789	-2.47020092	
MIB2	-0.31598249	0.05875647	-2.46993595	
RCSD1	-0.31596296	0.05877100	-2.46976640	
CCDC47	0.31593775	0.05879280	2.46954752	
TMLHE	0.31587650	0.05886082	2.46901561	
CIC	-0.31586659	0.05886303	-2.46892961	
DNAJB5	-0.31585730	0.05886446	-2.46884893	
PHTF1	0.31578872	0.05888359	2.46825349	
ODF4	-0.31579743	0.05888359	-2.46832910	
KCNA4	-0.31577726	0.05888359	-2.46815398	
LHFPL3	-0.31579844	0.05888359	-2.46833793	
FLJ41327	-0.31582242	0.05888359	-2.46854613	
LOC728613	-0.31578865	0.05888359	-2.46825294	
ZNF134	0.31579083	0.05888359	2.46827181	
CGGBP1	0.31577698	0.05888359	2.46815155	
APOO	0.31575693	0.05889881	2.46797755	
MACC1	0.31573295	0.05891910	2.46776932	
ANKRD19	-0.31570882	0.05893958	-2.46755985	
WDR72	0.31568835	0.05895537	2.46738212	
GSTA1	0.31567618	0.05896050	2.46727650	
KCNIP2	-0.31564393	0.05898094	-2.46699657	
ZDHHC4	0.31564767	0.05898094	2.46702903	
RFWD3	0.31558843	0.05904174	2.46651480	
EIF3M	0.31555677	0.05907194	2.46623999	
TNFSF11	-0.31553919	0.05908404	-2.46608738	
SERPINA13	-0.31552637	0.05909004	-2.46597610	
ZNF738	0.31549421	0.05911040	2.46569698	
SEC1	-0.31550081	0.05911040	-2.46575430	
ASPRV1	-0.31546140	0.05914212	-2.46541219	
FOXI2	-0.31544871	0.05914794	-2.46530209	
CAMK1D	0.31540893	0.05917814	2.46495690	
RPL29P15	-0.31541475	0.05917814	-2.46500733	
OR2L3	-0.31539879	0.05918069	-2.46486890	
IL12B	-0.31536619	0.05921217	-2.46458598	
C3orf49	-0.31531466	0.05924222	-2.46413880	
CHODL	-0.31532058	0.05924222	-2.46419016	
SERPINB13	0.31530849	0.05924222	2.46408527	
RNF25	0.31531023	0.05924222	2.46410033	
PLEKHG2	-0.31530210	0.05924222	-2.46402979	
SMCR7	-0.31523463	0.05930818	-2.46344433	
C1orf14	-0.31523965	0.05930818	-2.46348791	
C17orf42	0.31521886	0.05931800	2.46330751	
MBNL3	0.31520320	0.05932770	2.46317158	
CRYAA	-0.31519151	0.05933094	-2.46307021	

FAM109A	-0.31515826	0.05933094	-2.46278171	
CALHM1	-0.31518178	0.05933094	-2.46298575	
GPD2	0.31514528	0.05933094	2.46266913	
SCGB1D4	-0.31514387	0.05933094	-2.46265689	
MAGEA12	-0.31514370	0.05933094	-2.46265538	
TGFA	0.31515944	0.05933094	2.46279198	yes
KIAA1468	0.31513550	0.05933101	2.46258428	yes
GGT5	-0.31506377	0.05940257	-2.46196192	yes
FLJ10357	-0.31506999	0.05940257	-2.46201593	
ALCAM	0.31503641	0.05941688	2.46172459	
PLA2G1B	-0.31503903	0.05941688	-2.46174727	
SATB2	-0.31500357	0.05942704	-2.46143974	
GAST	-0.31499333	0.05942704	-2.46135083	
ZDHHC8	-0.31501000	0.05942704	-2.46149547	
OR6C68	-0.31498317	0.05942704	-2.46126271	
OR51B4	-0.31497977	0.05942704	-2.46123325	
DAZAP2	0.31499348	0.05942704	2.46135213	yes
PAPD5	0.31497160	0.05942710	2.46116236	
TXNRD2	-0.31495255	0.05943072	-2.46099709	
MAT2B	0.31495279	0.05943072	2.46099916	
C1orf61	-0.31493244	0.05943187	-2.46082264	
KLHDC7B	-0.31492922	0.05943187	-2.46079476	
CYB5A	0.31491918	0.05943187	2.46070770	
ZNF593	-0.31491958	0.05943187	-2.46071110	
DEFB137	-0.31488208	0.05946929	-2.46038587	
FBXW12	-0.31486272	0.05948381	-2.46021797	
TLX1	-0.31483806	0.05949904	-2.46000403	
MYL3	-0.31483470	0.05949904	-2.45997495	
MATN4	-0.31478295	0.05955543	-2.45952612	
FLVCR1	0.31472955	0.05960352	2.45906295	
LARP7	0.31473490	0.05960352	2.45910939	
KLKBL4	-0.31471918	0.05960644	-2.45897303	
TBC1D26	-0.31465752	0.05966525	-2.45843830	
POU5F1P1	-0.31465980	0.05966525	-2.45845815	
LOC100129503	-0.31460830	0.05967587	-2.45801157	
RNF41	0.31462908	0.05967587	2.45819176	
ATP5H	0.31462119	0.05967587	2.45812329	
LARS2	0.31459865	0.05967587	2.45792789	
G2E3	0.31461891	0.05967587	2.45810354	
EIF3I	0.31459258	0.05967587	2.45787520	
MYOM2	-0.31459371	0.05967587	-2.45788500	
WNT10B	-0.31457277	0.05969103	-2.45770343	
HEY1	0.31451141	0.05974128	2.45717141	
PPP3R1	0.31450688	0.05974128	2.45713214	
CXCR5	-0.31452027	0.05974128	-2.45724828	
GRAMD3	0.31450158	0.05974128	2.45708623	
SNORD36A	0.31448955	0.05974638	2.45698189	
GART	0.31446691	0.05976393	2.45678558	
TMPO	0.31445982	0.05976393	2.45672412	
PYROXD1	0.31444578	0.05977164	2.45660241	

GPR137C	-0.31442278	0.05979097	-2.45640299	
RNF166	-0.31438959	0.05980657	-2.45611529	
HEPHL1	-0.31440260	0.05980657	-2.45622806	
MTRF1	0.31438648	0.05980657	2.45608828	
GPR119	-0.31436646	0.05982204	-2.45591476	
NMUR1	-0.31434961	0.05982677	-2.45576872	
SLC9A5	-0.31434665	0.05982677	-2.45574299	
OLIG2	-0.31430210	0.05984261	-2.45535686	
GSPT1	0.31431799	0.05984261	2.45549455	
IKKBK	0.31430296	0.05984261	2.45536426	
CEP76	0.31431952	0.05984261	2.45550786	
TRIM75	-0.31428863	0.05984960	-2.45524011	
IFI16	0.31425573	0.05988181	2.45495489	
ZIC4	-0.31418216	0.05996685	-2.45431720	
OR1S2	-0.31415813	0.05997235	-2.45410890	
GRM2	-0.31415494	0.05997235	-2.45408131	
SNORA4	0.31415369	0.05997235	2.45407047	
NUP37	0.31413492	0.05998625	2.45390778	
DLL4	-0.31407987	0.06004733	-2.45343065	
PCNP	0.31406498	0.06005619	2.45330162	
LENEP	-0.31405251	0.06006191	-2.45319356	
PCSK6	-0.31403885	0.06006918	-2.45307521	
ATP6V0B	0.31402634	0.06007495	2.45296679	
ZNF689	-0.31397948	0.06012544	-2.45256070	
ZNF596	0.31396663	0.06012632	2.45244932	
F12	-0.31396266	0.06012632	-2.45241497	
C10orf108	-0.31394141	0.06014349	-2.45223077	
IPO5	0.31390909	0.06016457	2.45195079	
SNORA31	-0.31390958	0.06016457	-2.45195501	
DCX	-0.31388788	0.06018169	-2.45176702	
MTPAP	0.31384920	0.06021923	2.45143183	
SNORA45	-0.31384295	0.06021923	-2.45137768	
KCNN2	-0.31381449	0.06024581	-2.45113112	
MRPS25	0.31380566	0.06024681	2.45105465	
BRAP	0.31379365	0.06025197	2.45095052	
NDUFA6	0.31374368	0.06030663	2.45051767	
ETS2	0.31372709	0.06030792	2.45037395	
KRTAP5-2	-0.31372468	0.06030792	-2.45035304	
TIMD4	-0.31371852	0.06030792	-2.45029969	
SERINC4	-0.31369579	0.06032707	-2.45010273	
C4orf33	0.31368140	0.06033534	2.44997810	
C16orf79	-0.31364791	0.06036854	-2.44968803	
SLC6A6	0.31361175	0.06039784	2.44937480	
ZNF607	0.31360938	0.06039784	2.44935421	yes
NRM	-0.31355722	0.06041517	-2.44890241	
SNRNP200	0.31356837	0.06041517	2.44899899	
GLB1	0.31354521	0.06041517	2.44879836	
PITX2	-0.31353978	0.06041517	-2.44875133	
PCBP3	-0.31358115	0.06041517	-2.44910971	
INO80	0.31354107	0.06041517	2.44876251	

TMEM168	0.31355302	0.06041517	2.44886602	
KPRP	-0.31350838	0.06043518	-2.44847940	
SLC10A1	-0.31351025	0.06043518	-2.44849562	
RBM34	0.31348211	0.06045900	2.44825187	
MRPL46	0.31347320	0.06046014	2.44817470	
TIMM23	0.31345120	0.06047839	2.44798415	
SEMA6B	-0.31337265	0.06056829	-2.44730394	yes
CKAP4	-0.31335836	0.06056829	-2.44718013	
SUCLA2	0.31336184	0.06056829	2.44721024	
ASB8	0.31329430	0.06064164	2.44662545	
PRKAR1A	0.31326879	0.06066455	2.44640450	
TCHH	-0.31325170	0.06067641	-2.44625655	
GALR2	-0.31323183	0.06069192	-2.44608452	
PEX11G	-0.31319291	0.06073243	-2.44574750	
NCR2	-0.31317452	0.06074601	-2.44558831	
KCNG3	-0.31315292	0.06076382	-2.44540121	
hCG_1994895	-0.31312762	0.06076540	-2.44518220	
PLEKHN1	-0.31313401	0.06076540	-2.44523757	
KIAA1804	-0.31313913	0.06076540	-2.44528187	
ZNF320	0.31309180	0.06079879	2.44487211	
PHYHIP1L	-0.31308612	0.06079879	-2.44482292	
C22orf40	-0.31304257	0.06084544	-2.44444590	
ZNF280A	-0.31301105	0.06086032	-2.44417306	
ANKRD33	-0.31299914	0.06086032	-2.44406993	
OGG1	-0.31300294	0.06086032	-2.44410284	
RPS8P4	-0.31302070	0.06086032	-2.44425660	
PHKG1	-0.31293763	0.06093062	-2.44353747	
CTNND1	0.31291062	0.06095408	2.44330371	
S100A10	0.31290375	0.06095408	2.44324420	
OR8K1	-0.31288437	0.06096902	-2.44307648	
ABHD2	0.31286306	0.06098650	2.44289205	
MAPK10	0.31282544	0.06102547	2.44256642	
LOC100130264	-0.31280118	0.06103630	-2.44235645	
OR2M3	-0.31280373	0.06103630	-2.44237851	
C8orf37	0.31277237	0.06106368	2.44210713	
GTPBP3	-0.31276306	0.06106539	-2.44202651	
RPRD1A	0.31274845	0.06107408	2.44190007	
ALK	-0.31271522	0.06110729	-2.44161254	
ELP2P	-0.31266856	0.06115824	-2.44120873	
TLR9	-0.31264695	0.06117618	-2.44102170	
CPAMD8	-0.31263666	0.06117919	-2.44093264	
ALDH1L2	-0.31262357	0.06118588	-2.44081939	
CLEC5A	-0.31261481	0.06118688	-2.44074357	
FRG1	0.31259116	0.06120751	2.44053896	
EFHD1	-0.31255182	0.06124886	-2.44019853	
RASGRP2	-0.31253803	0.06125650	-2.44007922	yes
ADORA1	-0.31251455	0.06126324	-2.43987609	
MAPKSP1	0.31251787	0.06126324	2.43990480	
EIF4E2	0.31250891	0.06126324	2.43982727	
SECISBP2	0.31247256	0.06130067	2.43951279	yes

CHAD	-0.31244769	0.06130529	-2.43929764	
DKC1	0.31245995	0.06130529	2.43940369	
NLGN2	-0.31244506	0.06130529	-2.43927487	
GCC2	0.31240571	0.06134672	2.43893439	
C10orf55	-0.31237850	0.06137212	-2.43869898	
C5orf32	0.31233965	0.06141291	2.43836296	
C11orf58	0.31232843	0.06141549	2.43826590	
ITPR1PL1	-0.31231371	0.06141549	-2.43813854	
CHDH	-0.31231915	0.06141549	-2.43818559	
A4GNT	-0.31228441	0.06143497	-2.43788509	
HPDL	-0.31228300	0.06143497	-2.43787287	
GPR124	-0.31226702	0.06143886	-2.43773464	yes
KIAA1310	0.31226408	0.06143886	2.43770922	
CSAG1	-0.31224003	0.06144953	-2.43750122	
C5orf36	0.31224639	0.06144953	2.43755624	
CYorf15B	0.31221147	0.06147677	2.43725414	
SULT2A1	-0.31216712	0.06150706	-2.43687057	
PROK1	-0.31216463	0.06150706	-2.43684898	
DLK1	-0.31217250	0.06150706	-2.43691709	
DENND4A	0.31211192	0.06154637	2.43639314	
DSC1	-0.31211100	0.06154637	-2.43638514	
VBP1	0.31211653	0.06154637	2.43643303	
NUP160	0.31209195	0.06156103	2.43622047	
EIF2S3	0.31205485	0.06159320	2.43589956	
MAF	-0.31205171	0.06159320	-2.43587245	
MAGEA3	0.31203009	0.06161130	2.43568542	
LOC100129899	-0.31199738	0.06164409	-2.43540255	
PNMT	-0.31196666	0.06167426	-2.43513694	
LOC100129581	-0.31195686	0.06167668	-2.43505215	
APEX1	0.31190807	0.06172026	2.43463029	
TEX101	-0.31191491	0.06172026	-2.43468944	
OR5M10	-0.31189906	0.06172164	-2.43455240	
OR9K2	-0.31189059	0.06172229	-2.43447919	
FBXL3	0.31183569	0.06178463	2.43400445	
FUCA1	0.31182618	0.06178667	2.43392222	
STRADB	-0.31178966	0.06182462	-2.43360645	
GTPBP4	0.31175721	0.06183270	2.43332594	
LOC340900	-0.31173665	0.06183270	-2.43314817	
ACOX1	0.31176762	0.06183270	2.43341597	
NMD3	0.31173692	0.06183270	2.43315055	
PRKRIP1	-0.31173577	0.06183270	-2.43314060	
FAHD1	0.31176689	0.06183270	2.43340966	
P2RX1	-0.31172195	0.06184048	-2.43302112	
SRXN1	0.31168622	0.06186580	2.43271221	
PRL	-0.31167902	0.06186580	-2.43265002	
PIGO	0.31168689	0.06186580	2.43271802	
HNRNP3	0.31165406	0.06188842	2.43243417	
RNGTT	0.31163528	0.06190281	2.43227188	
PTGR2	0.31161947	0.06191326	2.43213519	
LOC388387	-0.31156202	0.06193678	-2.43163860	

TRNP1	-0.31156243	0.06193678	-2.43164216	
FAM29A	0.31158254	0.06193678	2.43181601	
PTGER1	-0.31156405	0.06193678	-2.43165614	yes
RYR2	-0.31158993	0.06193678	-2.43187987	
NRSN1	-0.31154037	0.06195502	-2.43145145	
KIAA1614	-0.31153202	0.06195555	-2.43137927	
TSKS	-0.31151998	0.06196099	-2.43127522	
RPS4X	0.31150682	0.06196792	2.43116152	
GUCA1A	-0.31146176	0.06201734	-2.43077207	yes
UIMC1	0.31145201	0.06201976	2.43068772	
TMEM151B	-0.31144304	0.06202111	-2.43061024	
LOC100132014	-0.31142996	0.06202796	-2.43049718	
PHF10	0.31141986	0.06203083	2.43040990	
OR6K6	-0.31139718	0.06203988	-2.43021388	
EIF4A2	0.31139917	0.06203988	2.43023106	
MYEOV2	-0.31134164	0.06208215	-2.42973395	
COX7B2	-0.31134713	0.06208215	-2.42978137	
FLJ10213	0.31134255	0.06208215	2.42974182	
GLMN	0.31126693	0.06217121	2.42908830	
LOC100129484	-0.31119366	0.06220545	-2.42845519	
RGS19	-0.31120494	0.06220545	-2.42855271	
MRVI1	-0.31119503	0.06220545	-2.42846706	
WWP1	0.31121574	0.06220545	2.42864601	
ORC5L	0.31120370	0.06220545	2.42854194	
INHBE	-0.31121312	0.06220545	-2.42862331	
RPS13	0.31115773	0.06224284	2.42814477	
SRrp35	-0.31114177	0.06225355	-2.42800690	
RPL30P8	-0.31112113	0.06227053	-2.42782857	
GNA13	0.31110047	0.06228755	2.42765001	
SPATA8	-0.31105109	0.06234296	-2.42722343	
OTOG	-0.31102568	0.06235905	-2.42700388	
GEN1	0.31102320	0.06235905	2.42698249	
GFM1	0.31096110	0.06243154	2.42644604	
PDZD3	-0.31093807	0.06245177	-2.42624707	
MAG	-0.31092267	0.06246178	-2.42611406	
PFN3	-0.31089062	0.06249410	-2.42583718	
DDI1	-0.31087207	0.06249772	-2.42567696	
KRTAP1-5	-0.31087581	0.06249772	-2.42570926	
SF3B3	0.31085453	0.06251060	2.42552546	
LOC100128655	-0.31083220	0.06251191	-2.42533265	
PRIMA1	-0.31080604	0.06251191	-2.42510664	
DSG4	-0.31080619	0.06251191	-2.42510799	
GLRA1	-0.31082750	0.06251191	-2.42529200	
IL29	-0.31081859	0.06251191	-2.42521508	
INSC	-0.31082430	0.06251191	-2.42526436	
TRAFD1	0.31073908	0.06255923	2.42452832	
FAM71C	-0.31075416	0.06255923	-2.42465857	
AK2P2	-0.31075302	0.06255923	-2.42464871	
GPR101	-0.31073931	0.06255923	-2.42453034	
S100PBP	0.31071710	0.06257808	2.42433857	

RPL37P23	-0.31070472	0.06258408	-2.42423159	
IGHE	-0.31069551	0.06258582	-2.42415206	
DGCR5	-0.31068526	0.06258896	-2.42406358	
MSGN1	-0.31067063	0.06259142	-2.42393723	
SPRR2C	-0.31066761	0.06259142	-2.42391115	
DRG1	0.31064965	0.06260392	2.42375607	
ZKSCAN1	0.31064248	0.06260392	2.42369412	
TIMM9	0.31058352	0.06267243	2.42318499	
UROD	0.31053755	0.06272355	2.42278803	
SH2D4A	0.31049675	0.06276775	2.42243576	
ADAMTSL5	-0.31048179	0.06277722	-2.42230664	
GPX8	0.31044903	0.06280295	2.42202376	
NBPF3	0.31044685	0.06280295	2.42200495	
UNQ1870	-0.31041467	0.06282860	-2.42172707	
LSM1	0.31040600	0.06282860	2.42165226	
ZNF195	0.31040408	0.06282860	2.42163571	
ASB18	-0.31038065	0.06284950	-2.42143341	
TNN	-0.31036309	0.06285554	-2.42128183	
hCG_1776018	-0.31036037	0.06285554	-2.42125828	
NUDT10	-0.31031485	0.06289555	-2.42086531	
BEST2	-0.31032002	0.06289555	-2.42090994	
LOC389936	-0.31028922	0.06291943	-2.42064407	
RAB3GAP2	0.31028034	0.06292075	2.42056745	
CDC40	0.31022260	0.06298745	2.42006903	
WNT9B	-0.31021504	0.06298745	-2.42000377	
HTR3D	-0.31018990	0.06300006	-2.41978682	
ETV3L	-0.31019747	0.06300006	-2.41985211	
DCTN3	0.31015023	0.06304290	2.41944441	
TSPAN1	0.31013445	0.06304512	2.41930817	
LOC124220	-0.31013138	0.06304512	-2.41928168	yes
ORM1	-0.31012493	0.06304512	-2.41922604	
UCHL3	0.31011211	0.06305177	2.41911538	
METTL3	0.31009298	0.06305632	2.41895024	
SSX1	-0.31009575	0.06305632	-2.41897417	
FGF6	-0.31007807	0.06306579	-2.41882160	
CNIH	0.31000198	0.06313656	2.41816491	
SHISA5	0.31000980	0.06313656	2.41823235	
FXVD6	-0.31000845	0.06313656	-2.41822074	
MGC42105	-0.30994472	0.06320306	-2.41767077	
C10orf97	0.30993698	0.06320306	2.41760397	
TMEM155	-0.30989936	0.06321132	-2.41727937	
OR7A5	-0.30990301	0.06321132	-2.41731086	
CYB5R1	0.30990451	0.06321132	2.41732382	
ZNF280C	0.30990895	0.06321132	2.41736208	
IL13RA1	0.30987208	0.06323755	2.41704395	
BET1	0.30983664	0.06327480	2.41673821	
CA10	-0.30979249	0.06332388	-2.41635720	
PRDM11	-0.30975197	0.06336806	-2.41600761	
METAP1	0.30970745	0.06339637	2.41562351	
PDS5A	0.30971954	0.06339637	2.41572785	

SNORA13	-0.30971197	0.06339637	-2.41566253	
RNF113B	-0.30967940	0.06342370	-2.41538155	
ITGA7	-0.30963276	0.06347623	-2.41497920	yes
C13orf16	-0.30962109	0.06348139	-2.41487852	
RAB1F	0.30959831	0.06350160	2.41468207	
PLD4	-0.30957078	0.06352827	-2.41444456	
BMP3	0.30955632	0.06353722	2.41431979	
TRIM42	-0.30953284	0.06354773	-2.41411729	
RYR3	-0.30953313	0.06354773	-2.41411975	
GDAP2	0.30950717	0.06357189	2.41389588	
AGXT2	-0.30949288	0.06358062	-2.41377260	
MPST	-0.30939724	0.06369609	-2.41294772	
MAP1LC3C	-0.30939213	0.06369609	-2.41290367	
KIAA2026	0.30935170	0.06373673	2.41255494	
SRPK1	0.30934651	0.06373673	2.41251026	
FAM179B	0.30931946	0.06375215	2.41227691	
C6orf100	-0.30932467	0.06375215	-2.41232189	
ACTC1	-0.30927327	0.06380430	-2.41187863	
OR5111	-0.30922365	0.06385770	-2.41145078	
MCCC1	0.30921047	0.06385770	2.41133710	
SET	0.30921157	0.06385770	2.41134654	
C19orf40	-0.30920215	0.06385834	-2.41126533	
DNAJB3	-0.30918280	0.06386330	-2.41109851	
SLC8A3	-0.30918895	0.06386330	-2.41115152	
LSM5	0.30916722	0.06387382	2.41096419	
PP2672	-0.30914593	0.06388829	-2.41078057	
IL1F10	-0.30914090	0.06388829	-2.41073727	
GNMT	-0.30912747	0.06389589	-2.41062143	
ZNF837	-0.30910685	0.06391330	-2.41044365	
TMEM224	-0.30908044	0.06391721	-2.41021596	
LMO7	0.30909605	0.06391721	2.41035052	
ACR	-0.30908740	0.06391721	-2.41027598	
C1orf25	0.30903850	0.06396368	2.40985435	yes
C3orf44	-0.30900763	0.06399507	-2.40958825	
SORL1	0.30897686	0.06402635	2.40932298	
AP1GBP1	0.30894734	0.06404063	2.40906850	
CPNE8	0.30894588	0.06404063	2.40905586	
CENPO	0.30894287	0.06404063	2.40902997	
HMP19	-0.30891517	0.06406774	-2.40879113	
NOS1AP	-0.30890567	0.06407001	-2.40870925	
TNFRSF13C	-0.30887908	0.06407427	-2.40848007	
NME2	-0.30888272	0.06407427	-2.40851147	
SOLH	-0.30887904	0.06407427	-2.40847970	
DUS2L	0.30882703	0.06413459	2.40803139	
EPHA8	-0.30878798	0.06413795	-2.40769487	
RS1	-0.30878541	0.06413795	-2.40767267	
GRINL1A	-0.30879400	0.06413795	-2.40774675	
TMEM14B	0.30879587	0.06413795	2.40776285	yes
RECQL4	-0.30880191	0.06413795	-2.40781490	
RNMT	0.30876942	0.06414910	2.40753483	

DMPK	-0.30875350	0.06414946	-2.40739765	
SDC2	-0.30875708	0.06414946	-2.40742855	
RBM18	0.30873769	0.06416036	2.40726143	
KIAA1429	0.30872285	0.06416766	2.40713353	
AFTPH	0.30870888	0.06416766	2.40701311	yes
CCL16	-0.30871451	0.06416766	-2.40706162	
RB1CC1	0.30869921	0.06417019	2.40692978	
KCNMA1	-0.30868344	0.06418105	-2.40679384	
SLC6A12	-0.30867090	0.06418750	-2.40668576	
NDUFA10	0.30864195	0.06421639	2.40643625	
PLEKHG7	0.30862399	0.06423025	2.40628147	
ERLIN2	0.30858435	0.06423102	2.40593992	
C15orf40	0.30859025	0.06423102	2.40599079	
FLJ32756	-0.30858757	0.06423102	-2.40596770	
C9orf82	0.30859485	0.06423102	2.40603042	
CENPT	-0.30861306	0.06423102	-2.40618731	
RNF151	-0.30853576	0.06426542	-2.40552121	
TMEM64	0.30854348	0.06426542	2.40558771	
SMARCA5	0.30855009	0.06426542	2.40564468	
FHOD1	-0.30848939	0.06430748	-2.40512170	
C5orf22	0.30849260	0.06430748	2.40514931	
C12orf11	0.30843372	0.06437299	2.40464204	
ACBD4	-0.30842292	0.06437710	-2.40454891	
RP11-191L9.1	-0.30838563	0.06439821	-2.40422763	
hCG_18290	0.30839394	0.06439821	2.40429929	
STYX	0.30838408	0.06439821	2.40421434	
TNP2	-0.30835640	0.06442545	-2.40397582	
PACS2	-0.30831126	0.06444307	-2.40358694	
RGS21	-0.30830453	0.06444307	-2.40352901	
KLHL28	0.30831929	0.06444307	2.40365612	
NUDT11	-0.30833057	0.06444307	-2.40375331	
THPO	-0.30830523	0.06444307	-2.40353499	
CHUK	0.30827946	0.06445199	2.40331303	
FAM187B	-0.30827463	0.06445199	-2.40327143	
TECPR1	-0.30828456	0.06445199	-2.40335693	
ATP1A3	-0.30824706	0.06447910	-2.40303392	
RPS2P35	-0.30821228	0.06451609	-2.40273433	
SMAD4	0.30819937	0.06452311	2.40262313	
RCN2	0.30818589	0.06453092	2.40250699	
ACMSD	-0.30813069	0.06457458	-2.40203150	
ZCCHC17	0.30813512	0.06457458	2.40206968	
HAT1	0.30813222	0.06457458	2.40204473	
LEMD2	-0.30812005	0.06457757	-2.40193987	
ANO2	-0.30811293	0.06457757	-2.40187857	
C21orf87	-0.30808407	0.06460651	-2.40162993	
C10orf140	-0.30803804	0.06465902	-2.40123349	
REM1	-0.30801089	0.06468563	-2.40099966	
SLC5A11	-0.30799370	0.06469854	-2.40085167	
HOXB13	-0.30796855	0.06472241	-2.40063510	
SLC36A4	0.30794965	0.06472299	2.40047234	

ZNF579	-0.30795568	0.06472299	-2.40052421	
SDCCAG1	0.30794478	0.06472299	2.40043040	
CLDN23	-0.30790844	0.06473632	-2.40011746	
DOK6	-0.30787924	0.06473632	-2.39986598	
FNTB	0.30790193	0.06473632	2.40006133	
WFDC10B	-0.30787287	0.06473632	-2.39981113	
CCNL1	0.30789467	0.06473632	2.39999886	
ZNF702P	0.30788279	0.06473632	2.39989658	
TSSK3	-0.30789865	0.06473632	-2.40003312	
WNT3A	-0.30788152	0.06473632	-2.39988558	
LOC100133207	-0.30781919	0.06476738	-2.39934890	
HERC4	0.30781923	0.06476738	2.39934927	
MAGEA1	-0.30782442	0.06476738	-2.39939390	
MTIF2	0.30782234	0.06476738	2.39937606	
RANBP9	0.30780079	0.06478200	2.39919046	
TM9SF1	0.30774849	0.06483257	2.39874019	
YES1	0.30775079	0.06483257	2.39875993	
ADAM30	-0.30773993	0.06483367	-2.39866647	
POU2F2	-0.30770938	0.06486503	-2.39840345	
LAMC2	0.30767664	0.06488873	2.39812153	
MAP3K5	0.30768410	0.06488873	2.39818580	
TTYH2	-0.30766859	0.06488912	-2.39805222	
RIMKLA	-0.30764227	0.06491468	-2.39782567	
DBH	-0.30760904	0.06494226	-2.39753961	
NARS	0.30760673	0.06494226	2.39751969	
HNRNPA2B1	0.30758871	0.06495639	2.39736459	
ALPK3	-0.30757235	0.06496825	-2.39722371	
RAB13	-0.30755157	0.06498620	-2.39704483	
ROBO4	-0.30752184	0.06501648	-2.39678898	yes
PPFIA2	-0.30745033	0.06510444	-2.39617344	
CCT3	0.30741610	0.06514100	2.39587883	
KCNQ2	-0.30735874	0.06520954	-2.39538514	
PDE6A	-0.30734574	0.06521678	-2.39527324	
FLJ11235	-0.30732250	0.06523820	-2.39507322	
TRIM60	-0.30727536	0.06527122	-2.39466751	
C15orf59	-0.30728983	0.06527122	-2.39479205	
KCNK16	-0.30728105	0.06527122	-2.39471648	
POM121L9P	-0.30720676	0.06533573	-2.39407719	
HOXA5	-0.30720548	0.06533573	-2.39406622	
hCG_2015956	-0.30721648	0.06533573	-2.39416084	
DPYD	0.30717965	0.06536077	2.39384392	
CEPT1	0.30715454	0.06538482	2.39362781	
GRB2	0.30714341	0.06538950	2.39353205	
LOC347411	-0.30711320	0.06542062	-2.39327212	
HERPUD2	0.30705283	0.06548282	2.39275270	
RNF170	0.30705766	0.06548282	2.39279427	
PRPF39	0.30704385	0.06548453	2.39267545	
C8orf85	-0.30699782	0.06553764	-2.39227943	
ETV1	-0.30696610	0.06557091	-2.39200656	
PGK2	-0.30693454	0.06559322	-2.39173504	

ZNF85	-0.30693605	0.06559322	-2.39174797	
GALNT3	0.30692586	0.06559453	2.39166034	
TSPYL6	-0.30690424	0.06560380	-2.39147437	
ARMC1	0.30689996	0.06560380	2.39143756	
MIA	-0.30689596	0.06560380	-2.39140310	
KIAA1370	0.30687890	0.06561675	2.39125635	
LOC100131928	-0.30678508	0.06567375	-2.39044936	
C12orf66	0.30672845	0.06567375	2.38996224	
TICAM1	-0.30673946	0.06567375	-2.39005692	
PAN3	0.30672189	0.06567375	2.38990587	
IFNA7	-0.30677444	0.06567375	-2.39035779	
KEL	-0.30674027	0.06567375	-2.39006394	
ZNF44	0.30681150	0.06567375	2.39067663	
TRMT12	0.30672401	0.06567375	2.38992402	
HAMP	-0.30676517	0.06567375	-2.39027811	
CNBP	0.30681019	0.06567375	2.39066532	
AGMAT	-0.30682233	0.06567375	-2.39076974	
OR5AC2	-0.30672602	0.06567375	-2.38994139	
USP32	0.30680646	0.06567375	2.39063323	
CLDN9	-0.30679495	0.06567375	-2.39053422	
ZBTB22	-0.30678196	0.06567375	-2.39042252	
LOC134505	-0.30668391	0.06570050	-2.38957919	
TMC5	0.30667947	0.06570050	2.38954101	
WDR22	0.30669446	0.06570050	2.38966987	
tcag7.893	-0.30665688	0.06572117	-2.38934671	
LOC100129924	-0.30661080	0.06575304	-2.38895039	
TRIML1	-0.30661136	0.06575304	-2.38895525	
SLC6A11	-0.30661877	0.06575304	-2.38901894	
NDUFA2	0.30660049	0.06575665	2.38886175	
UBAP2	0.30658147	0.06576163	2.38869821	
LOC645225	-0.30658778	0.06576163	-2.38875247	
TFAP2D	-0.30654905	0.06578526	-2.38841941	
MAGI1	-0.30654912	0.06578526	-2.38842000	
MYBPC2	-0.30648746	0.06586024	-2.38788979	
SSTR4	-0.30646370	0.06588258	-2.38768548	
AKAP13	0.30643769	0.06589734	2.38746176	
PIK3C3	0.30644507	0.06589734	2.38752522	
SPAG7	-0.30642109	0.06590971	-2.38731907	
C14orf182	-0.30640760	0.06591176	-2.38720306	
MFSD6	0.30640420	0.06591176	2.38717385	
SNX15	-0.30636365	0.06595753	-2.38682516	yes
CPA1	-0.30634658	0.06595871	-2.38667847	
APAF1	0.30634168	0.06595871	2.38663628	
MRP63	0.30633969	0.06595871	2.38661917	yes
KLHDC7A	-0.30629404	0.06599190	-2.38622672	
LPAR4	-0.30629527	0.06599190	-2.38623730	yes
VIT	-0.30629276	0.06599190	-2.38621576	
ADAD1	-0.30627224	0.06600671	-2.38603933	
TMEM14C	0.30625904	0.06600671	2.38592581	
KRTAP1-1	-0.30626479	0.06600671	-2.38597529	

ANKRD32	0.30624516	0.06601533	2.38580647	
KIAA0090	0.30622774	0.06602889	2.38565675	
NEDD1	0.30620262	0.06605048	2.38544082	
SYT16	-0.30619686	0.06605048	-2.38539133	
MST075	-0.30616098	0.06608982	-2.38508283	
MAMDC4	-0.30608395	0.06617589	-2.38442073	
ATG16L1	0.30608585	0.06617589	2.38443711	
CHM	0.30604810	0.06620448	2.38411263	
LOC729085	-0.30605122	0.06620448	-2.38413939	
FRAT1	-0.30602732	0.06622277	-2.38393402	yes
C8orf40	0.30601077	0.06623516	2.38379175	
C1orf111	-0.30599362	0.06623763	-2.38364435	
KIF5B	0.30600127	0.06623763	2.38371011	
HIST3H2A	0.30596839	0.06626216	2.38342750	
CLEC4F	-0.30595271	0.06627334	-2.38329273	
FMR1	0.30590132	0.06633448	2.38285108	
APOA1	-0.30586958	0.06636815	-2.38257834	
C16orf70	0.30584750	0.06638831	2.38238860	
NBAS	0.30583714	0.06639205	2.38229956	
SYT2	-0.30581383	0.06641393	-2.38209929	
GNG7	-0.30579882	0.06642000	-2.38197033	
EVI5	0.30579413	0.06642000	2.38193001	
HOXC10	-0.30570691	0.06653151	-2.38118058	
PCDH15	-0.30566023	0.06658624	-2.38077949	
PMS2L1	0.30563244	0.06661448	2.38054069	
EMB	0.30561435	0.06662909	2.38038531	
POLA2	0.30557009	0.06668048	2.38000508	
MSTN	-0.30552891	0.06670290	-2.37965132	
C10orf118	0.30552643	0.06670290	2.37963004	
TBX3	-0.30552342	0.06670290	-2.37960414	
HS3ST4	-0.30552344	0.06670290	-2.37960427	
TMEM194B	0.30548801	0.06672022	2.37929993	
DIS3L	0.30546504	0.06672022	2.37910265	
ETV2	-0.30549480	0.06672022	-2.37935826	
ZC3H12D	-0.30547528	0.06672022	-2.37919061	
KCNK9	-0.30547351	0.06672022	-2.37917543	
MADCAM1	-0.30546677	0.06672022	-2.37911753	
SRD5A2L2	-0.30544736	0.06673430	-2.37895074	
BAK1	0.30542517	0.06675471	2.37876016	
C17orf63	-0.30538336	0.06680274	-2.37840100	
GABRB1	-0.30533043	0.06686645	-2.37794643	
ACOT1	-0.30532050	0.06686963	-2.37786115	
KLF9	-0.30530343	0.06688287	-2.37771455	
CHCHD9	-0.30529322	0.06688645	-2.37762684	
NELF	-0.30527746	0.06689394	-2.37749146	
AMPH	-0.30527257	0.06689394	-2.37744947	
MGC52282	-0.30523750	0.06693255	-2.37714828	
ACADSB	0.30521216	0.06695746	2.37693070	
RHOBTB2	-0.30518571	0.06697314	-2.37670356	
TRPM2	-0.30519095	0.06697314	-2.37674851	

SYNPO2L	-0.30517376	0.06697918	-2.37660096	
RAD1	0.30512160	0.06704195	2.37615298	
RPL7AP53	-0.30508061	0.06707817	-2.37580107	
SFXN1	0.30508720	0.06707817	2.37585760	
RP11-544M22.4	0.30502911	0.06709682	2.37535885	
LANCL1	0.30503009	0.06709682	2.37536721	
TRIM33	0.30505037	0.06709682	2.37554139	
LPAR5	-0.30503204	0.06709682	-2.37538403	
SPRR2G	-0.30503005	0.06709682	-2.37536691	
OR8B8	-0.30500762	0.06710555	-2.37517429	
GRIK1	-0.30500809	0.06710555	-2.37517840	
SUCLG1	0.30497726	0.06713761	2.37491365	
FAM184B	-0.30493001	0.06715084	-2.37450799	
OR5D16	-0.30493197	0.06715084	-2.37452479	
PLVAP	-0.30495819	0.06715084	-2.37474994	yes
NROB2	-0.30492964	0.06715084	-2.37450478	
HAP1	-0.30495257	0.06715084	-2.37470171	
ZSCAN21	-0.30491637	0.06715878	-2.37439084	
ZNF468	0.30489797	0.06717397	2.37423291	
NPSR1	-0.30482430	0.06726730	-2.37360044	
ANKLE1	-0.30475158	0.06733845	-2.37297626	
CBFA2T3	-0.30475613	0.06733845	-2.37301530	
ACCN3	-0.30475107	0.06733845	-2.37297190	
SNN	-0.30471698	0.06737590	-2.37267927	
ATP7A	0.30462906	0.06747883	2.37192460	
TAX1BP1	0.30462991	0.06747883	2.37193191	yes
RBPJL	-0.30461849	0.06748298	-2.37183387	
ZSCAN4	-0.30459101	0.06750268	-2.37159803	
CNOT10	0.30457403	0.06750268	2.37145229	
OSTN	-0.30457684	0.06750268	-2.37147647	
RHOJ	-0.30458123	0.06750268	-2.37151413	
PTPN6	0.30454997	0.06751656	2.37124584	
NPFF	-0.30454896	0.06751656	-2.37123715	
CHD8	0.30454125	0.06751666	2.37117102	
PLEKHA5	0.30452995	0.06752187	2.37107398	
SPRY4	-0.30451599	0.06753083	-2.37095422	
ZFAND1	0.30450161	0.06754041	2.37083078	
FAM55B	-0.30442355	0.06764037	-2.37016098	
STRA8	-0.30439164	0.06767487	-2.36988711	
TRPC3	-0.30431644	0.06777093	-2.36924190	
ANKRD46	0.30426342	0.06782828	2.36878698	
ZNF224	0.30426087	0.06782828	2.36876513	
C3orf63	0.30424242	0.06784368	2.36860683	
SMPD2	0.30419972	0.06789363	2.36824048	
SLC16A9	0.30415888	0.06793006	2.36789016	
C19orf34	-0.30416258	0.06793006	-2.36792189	
PTPN14	-0.30414147	0.06794400	-2.36774082	
ZNF793	0.30410325	0.06798762	2.36741291	
NNT	0.30408393	0.06800420	2.36724715	
DCLRE1B	0.30407637	0.06800420	2.36718230	

HN1	0.30405558	0.06801374	2.36700399	
MOSC1	-0.30405443	0.06801374	-2.36699411	
ABHD7	-0.30403330	0.06802212	-2.36681290	
FSTL5	-0.30403330	0.06802212	-2.36681292	
CST9L	-0.30401851	0.06803234	-2.36668605	
CRYBA1	-0.30397794	0.06807935	-2.36633809	
FGFR1	-0.30391889	0.06815281	-2.36583156	
HSF5	-0.30388607	0.06817793	-2.36555007	
THOC5	0.30389252	0.06817793	2.36560544	
RUSC2	-0.30384212	0.06822986	-2.36517319	yes
ARL5B	0.30378200	0.06828315	2.36465764	
ZNF462	-0.30379499	0.06828315	-2.36476902	
TUBB6	-0.30378891	0.06828315	-2.36471685	yes
PRO1768	-0.30376776	0.06829263	-2.36453550	
POLR2F	0.30372606	0.06833398	2.36417789	
UTX	0.30372363	0.06833398	2.36415710	yes
MBOAT1	0.30367645	0.06839064	2.36375255	
DUPD1	-0.30365151	0.06839914	-2.36353872	
SLC45A1	-0.30364767	0.06839914	-2.36350580	yes
PRPF38B	0.30365813	0.06839914	2.36359544	
ICAM4	-0.30362221	0.06841991	-2.36328749	
XPNPEP2	-0.30361795	0.06841991	-2.36325091	
DRAP1	-0.30358336	0.06845857	-2.36295437	
SPO11	-0.30356812	0.06845859	-2.36282372	
YARS2	0.30356971	0.06845859	2.36283736	
CPXM1	-0.30353776	0.06848030	-2.36256342	
ROBO3	-0.30354460	0.06848030	-2.36262203	
MTMR6	0.30352540	0.06848712	2.36245743	
ZNF384	-0.30347350	0.06855065	-2.36201255	
C22orf26	-0.30346397	0.06855341	-2.36193083	
PACRGL	0.30342806	0.06859405	2.36162296	
C19orf24	-0.30340550	0.06861552	-2.36142957	
LOC152667	-0.30339043	0.06862038	-2.36130041	
ARL8B	0.30338690	0.06862038	2.36127014	
OR2AT4	-0.30334465	0.06864931	-2.36090796	
RAN	0.30334817	0.06864931	2.36093819	
HRCT1	-0.30334395	0.06864931	-2.36090201	
NPEPPS	0.30332491	0.06866575	2.36073875	
DGKH	0.30329814	0.06867634	2.36050931	
LOC649445	-0.30329090	0.06867634	-2.36044723	
TMEM38A	-0.30329031	0.06867634	-2.36044222	yes
PIK3R3	0.30328714	0.06867634	2.36041503	
ACTR3	0.30327353	0.06868499	2.36029834	
LOC100133363	-0.30324365	0.06871364	-2.36004226	
ASB3	0.30323840	0.06871364	2.35999731	
LOC442461	-0.30322711	0.06871895	-2.35990052	
AMPD3	0.30317111	0.06878710	2.35942055	yes
SOX7	-0.30316454	0.06878710	-2.35936424	
CPN1	-0.30315041	0.06879650	-2.35924320	
TMEM88	-0.30313312	0.06881045	-2.35909502	

DMC1	-0.30310518	0.06881996	-2.35885560	
BIRC7	-0.30310374	0.06881996	-2.35884327	
LOXL3	-0.30311375	0.06881996	-2.35892902	
C1QTNF8	-0.30308751	0.06883240	-2.35870418	
ATP6V0E1	0.30306219	0.06885792	2.35848719	
OLFM4	-0.30305266	0.06886073	-2.35840551	
ANKRD20A5	-0.30302399	0.06889108	-2.35815986	
PRG4	-0.30299333	0.06892432	-2.35789711	
APOA4	-0.30297536	0.06893929	-2.35774310	
SAMHD1	0.30293303	0.06898937	2.35738043	
TNKS1BP1	-0.30291373	0.06900626	-2.35721509	
MLLT3	0.30287729	0.06904789	2.35690286	
BMP15	-0.30285836	0.06906427	-2.35674064	
HYAL1	-0.30284467	0.06907308	-2.35662338	
OR2A5	-0.30283382	0.06907778	-2.35653047	
CPSF2	0.30277413	0.06915303	2.35601909	
TLL1	-0.30274765	0.06918034	-2.35579219	
STAC2	-0.30272889	0.06919648	-2.35563155	
RPH3A	-0.30271444	0.06920641	-2.35550776	
ZHX1	0.30267734	0.06924910	2.35518992	
OR5AU1	-0.30266277	0.06925921	-2.35506513	
CALCR	-0.30263987	0.06928137	-2.35486899	
CCDC28A	0.30261764	0.06929161	2.35467855	
FXD4	-0.30262193	0.06929161	-2.35471529	
POLG2	0.30257414	0.06934121	2.35430597	
RTTN	0.30256822	0.06934121	2.35425524	
ZNF286A	0.30255865	0.06934409	2.35417329	
TREH	-0.30253005	0.06937453	-2.35392834	
COX6A1	0.30250152	0.06939444	2.35368395	
TMEM14A	0.30249359	0.06939444	2.35361605	
ACVR1B	0.30249650	0.06939444	2.35364099	
ZNRD1	0.30247535	0.06940989	2.35345988	
UBR1	0.30244069	0.06944915	2.35316301	
DEFA4	-0.30237495	0.06948123	-2.35260002	
NSL1	0.30236559	0.06948123	2.35251993	
OR6S1	-0.30238359	0.06948123	-2.35267407	
PMCH	-0.30237761	0.06948123	-2.35262287	
PRKDC	0.30236915	0.06948123	2.35255041	
PSAPL1	-0.30239654	0.06948123	-2.35278497	
LRRCC1	0.30236798	0.06948123	2.35254040	
C15orf55	-0.30235759	0.06948186	-2.35245143	
LY6G6D	-0.30233889	0.06949802	-2.35229123	
FLT4	-0.30232264	0.06950104	-2.35215210	yes
RHBDD2	0.30232122	0.06950104	2.35213998	
hCG_1993592	-0.30231413	0.06950104	-2.35207922	
COL4A1	-0.30227478	0.06954540	-2.35174232	yes
LYPD6	-0.30224653	0.06954540	-2.35150041	
EIF4EBP1	-0.30226456	0.06954540	-2.35165480	
GPR111	-0.30224757	0.06954540	-2.35150934	
POTEA	-0.30223065	0.06954540	-2.35136444	

PDCD5	-0.30223426	0.06954540	-2.35139539
MRPL33	0.30223906	0.06954540	2.35143647
DNM3	-0.30219301	0.06958905	-2.35104219
OR13A1	-0.30216200	0.06962309	-2.35077669
DENND2C	0.30214059	0.06964322	2.35059334
POM121L3P	-0.30205895	0.06975084	-2.34989447
OR6M1	-0.30203235	0.06976918	-2.34966674
PGAP1	0.30203123	0.06976918	2.34965719
LONP2	0.30193882	0.06989265	2.34886617
PEX7	0.30191777	0.06991232	2.34868593
CARD17	-0.30188687	0.06994632	-2.34842148
TCP11L2	0.30183537	0.07000556	2.34798069
SNORD45C	0.30183113	0.07000556	2.34794438
KCNC2	-0.30178303	0.07006469	-2.34753276
UBXN2B	0.30165962	0.07022285	2.34647666
RBM4B	0.30166599	0.07022285	2.34653116
LOC791120	-0.30164654	0.07023095	-2.34636465
SH2D3C	-0.30162181	0.07025607	-2.34615307
DDX47	0.30160604	0.07026808	2.34601816
GUCY2C	-0.30159211	0.07027614	-2.34589895
HMX2	-0.30158544	0.07027614	-2.34584187
ENTPD5	0.30157362	0.07028239	2.34574075
ZBPB2	-0.30155890	0.07029289	-2.34561477
PHACTR3	-0.30153290	0.07031990	-2.34539228
RPS11P5	0.30151455	0.07033332	2.34523532
PCBD2	0.30150864	0.07033332	2.34518476
MAPK7	-0.30147072	0.07037778	-2.34486030
ZNF805	0.30145128	0.07039520	2.34469402
TRMT5	0.30141336	0.07043970	2.34436956
FLJ42258	-0.30134094	0.07052375	-2.34374999
LOC651503	-0.30134762	0.07052375	-2.34380713
LOC440786	-0.30133332	0.07052386	-2.34368484
OR10G3	-0.30132152	0.07053012	-2.34358388
ACADL	-0.30128169	0.07057748	-2.34324319
WRB	0.30124374	0.07062212	2.34291853
SNX16	0.30121259	0.07065679	2.34265209
SYT10	-0.30120336	0.07065927	-2.34257318
DIRAS1	-0.30117937	0.07067238	-2.34236794
PRLH	-0.30118087	0.07067238	-2.34238080
SFTPC	-0.30117182	0.07067241	-2.34230338
BAAT	-0.30116332	0.07067383	-2.34223070
SLC1A6	-0.30114516	0.07068944	-2.34207536
ASGR2	-0.30112684	0.07069697	-2.34191872
C8A	-0.30112498	0.07069697	-2.34190275
C1orf213	-0.30110762	0.07070234	-2.34175433
PRNT	-0.30110626	0.07070234	-2.34174271
SLC35A3	0.30108399	0.07072328	2.34155220
ZNF101	0.30107696	0.07072328	2.34149205
C9orf41	0.30106253	0.07072610	2.34136872
FAM26D	-0.30105999	0.07072610	-2.34134695

C20orf11	0.30104490	0.07073722	2.34121792
PAGE3	-0.30099773	0.07079550	-2.34081451
DUSP9	-0.30098843	0.07079811	-2.34073501
CAPN7	0.30097896	0.07080098	2.34065400
SMEK2	0.30096670	0.07080795	2.34054917
FBXL17	0.30092441	0.07085909	2.34018754
MARCH6	0.30090227	0.07086954	2.33999824
CA13	0.30090419	0.07086954	2.34001466
PIGK	0.30086661	0.07089140	2.33969333
THSD1P	0.30086487	0.07089140	2.33967843
MYO1D	0.30086643	0.07089140	2.33969179
HOXC8	-0.30085322	0.07089748	-2.33957883
PPFIA3	-0.30081097	0.07094863	-2.33921754
ANXA1	0.30079411	0.07095695	2.33907338
SMAD3	0.30078278	0.07095695	2.33897653
WDR55	0.30078886	0.07095695	2.33902852
DCC	-0.30076888	0.07096636	-2.33885774
CCDC54	-0.30071182	0.07103937	-2.33836988
SLC38A6	0.30070350	0.07104057	2.33829874
SLC25A37	-0.30067942	0.07105393	-2.33809288
SLC35B4	0.30068485	0.07105393	2.33813934
KIR3DL3	-0.30065063	0.07107710	-2.33784676
RPL13AP5	0.30064119	0.07107710	2.33776602
ARNT2	-0.30064126	0.07107710	-2.33776670
ADRB1	-0.30061216	0.07110883	-2.33751791
SAMD9	0.30056209	0.07117164	2.33708992
SNORD46	-0.30054133	0.07119122	-2.33691242
SRPK3	-0.30052519	0.07119994	-2.33677450
LOC441795	-0.30052042	0.07119994	-2.33673367
MRPL30	0.30048859	0.07123585	2.33646168
LOC100128653	-0.30042465	0.07124826	-2.33591517
CHD1	0.30043766	0.07124826	2.33602637
CALHM3	-0.30046490	0.07124826	-2.33625918
CNN1	-0.30043748	0.07124826	-2.33602479
PIK3CB	0.30043018	0.07124826	2.33596237
SCP2	0.30042947	0.07124826	2.33595638
UNC119	-0.30045776	0.07124826	-2.33619809
LRP5L	-0.30042021	0.07124826	-2.33587722
NEUROG2	-0.30040255	0.07126328	-2.33572626
OR10Z1	-0.30039230	0.07126735	-2.33563870
WASF2	-0.30033897	0.07130995	-2.33518286
DHX15	0.30034839	0.07130995	2.33526342
ACSL3	0.30033351	0.07130995	2.33513620
CD5L	-0.30035482	0.07130995	-2.33531833
CSNK2A2	0.30031343	0.07132657	2.33496461
CPNE3	0.30030729	0.07132657	2.33491213
RNF113A	-0.30025165	0.07139777	-2.33443664
KIAA1128	0.30023287	0.07140976	2.33427625
UBE2H	0.30022651	0.07140976	2.33422185
WDR20	0.30022108	0.07140976	2.33417548

SH2B2	-0.30019350	0.07143179	-2.33393976	
MID1	0.30019123	0.07143179	2.33392038	
SLC4A4	0.30017527	0.07144433	2.33378399	
MGC57346	0.30013408	0.07149423	2.33343206	
CDC42EP1	-0.30011020	0.07149734	-2.33322804	
RRM2B	0.30011291	0.07149734	2.33325120	
RPL13AP3	-0.30010953	0.07149734	-2.33322233	
ZNF323	0.30008550	0.07152186	2.33301699	
KLC3	-0.30004373	0.07155049	-2.33266016	
WDR67	0.30004790	0.07155049	2.33269578	
THRAP3	0.30004696	0.07155049	2.33268770	yes
RAB9A	0.30002065	0.07157362	2.33246296	
C10orf90	-0.29998138	0.07162075	-2.33212746	
MPHOSPH9	0.29992590	0.07168589	2.33165348	
ADNP2	0.29992251	0.07168589	2.33162453	
MAP6D1	-0.29988443	0.07173131	-2.33129924	
ERP44	0.29985891	0.07175810	2.33108126	
LOC391764	-0.29982497	0.07179741	-2.33079133	
SLU7	0.29977324	0.07186317	2.33034950	
AIPL1	-0.29971736	0.07193516	-2.32987224	
LOC100130370	-0.29964300	0.07202638	-2.32923715	
TSR1	0.29964114	0.07202638	2.32922124	
DDIT4L	-0.29963074	0.07203075	-2.32913241	
NEK7	0.29956084	0.07211263	2.32853554	
CACNB1	-0.29956286	0.07211263	-2.32855276	
HES6	-0.29950831	0.07217983	-2.32808693	
KLRC1	0.29950010	0.07218092	2.32801689	
FAM12B	-0.29946120	0.07222391	-2.32768469	
FAM50A	-0.29945636	0.07222391	-2.32764334	
FOLR2	-0.29944235	0.07223367	-2.32752370	
ST6GALNAC3	-0.29940069	0.07228472	-2.32716800	
RPL13AP17	-0.29935619	0.07234005	-2.32678806	
C17orf80	0.29931274	0.07239383	2.32641714	
FBXO27	-0.29929786	0.07240493	-2.32629006	
RGS8	-0.29928795	0.07240858	-2.32620547	
PUSL1	-0.29922893	0.07247224	-2.32570162	
FBXO47	-0.29922627	0.07247224	-2.32567895	
RBM27	0.29920807	0.07247224	2.32552357	
FER1L6	0.29921227	0.07247224	2.32555940	
PGBD5	-0.29921837	0.07247224	-2.32561149	
SGPP2	0.29919135	0.07247493	2.32538082	
SLC46A2	-0.29919731	0.07247493	-2.32543172	
LOC100133317	-0.29915142	0.07250300	-2.32503997	
LOC100133333	0.29915705	0.07250300	2.32508804	yes
APOL6	0.29915021	0.07250300	2.32502969	
PSMD7	0.29913615	0.07251289	2.32490961	
CALCA	-0.29912224	0.07252255	-2.32479088	
LOC100130289	-0.29908332	0.07255849	-2.32445871	
NEUROG1	-0.29908748	0.07255849	-2.32449420	
CD34	-0.29906606	0.07257317	-2.32431141	

ANKRD34A	-0.29901777	0.07262319	-2.32389925	
LOC100133418	-0.29902017	0.07262319	-2.32391971	
OR1N2	-0.29894685	0.07271836	-2.32329398	
RNF126P1	-0.29888402	0.07279663	-2.32275773	
RNF150	-0.29887979	0.07279663	-2.32272170	
C9orf46	0.29885838	0.07281759	2.32253899	
ABHD10	0.29881203	0.07287604	2.32214345	
DLC1	-0.29879672	0.07288785	-2.32201279	
F13B	-0.29877708	0.07290617	-2.32184522	
NEXN	-0.29876851	0.07290786	-2.32177205	
NDRG2	-0.29873365	0.07293786	-2.32147463	
USP29	-0.29873366	0.07293786	-2.32147475	
RAB11FIP3	-0.29869319	0.07298525	-2.32112943	
FIG4	0.29868725	0.07298525	2.32107875	
MBTPS2	0.29866506	0.07299891	2.32088937	
KIR3DX1	-0.29866328	0.07299891	-2.32087420	
SGMS2	0.29855846	0.07314459	2.31997992	yes
ANKRD13C	0.29855164	0.07314459	2.31992182	
ATP6V1D	0.29852432	0.07317456	2.31968869	
FECH	0.29850741	0.07318883	2.31954444	
DLG2	-0.29844721	0.07322349	-2.31903094	
C6orf223	-0.29845625	0.07322349	-2.31910807	
FRG2C	-0.29845626	0.07322349	-2.31910810	
PPP6C	0.29846885	0.07322349	2.31921556	
ZNF226	0.29845191	0.07322349	2.31907100	
ALX3	-0.29843309	0.07323357	-2.31891045	
GPR113	-0.29839288	0.07327311	-2.31856749	
RAC1	0.29839200	0.07327311	2.31855998	
DDX17	0.29837460	0.07328490	2.31841159	
NPVF	-0.29836931	0.07328490	-2.31836646	
DLX3	-0.29834085	0.07329418	-2.31812375	
SIX6	-0.29835477	0.07329418	-2.31824247	
C1orf27	0.29834158	0.07329418	2.31812996	
hCG_1645727	-0.29832460	0.07329627	-2.31798513	
PCDH24	-0.29832914	0.07329627	-2.31802382	
ACRBP	-0.29830935	0.07330808	-2.31785501	
SCARNA4	-0.29830117	0.07330920	-2.31778526	yes
TNFRSF21	0.29827117	0.07331877	2.31752941	
C11orf54	0.29826744	0.07331877	2.31749764	
MAP2K4	0.29828196	0.07331877	2.31762143	
CARTPT	-0.29826511	0.07331877	-2.31747777	
KDELR2	0.29821907	0.07335464	2.31708511	
C1orf55	0.29821948	0.07335464	2.31708860	
CES7	-0.29822183	0.07335464	-2.31710861	
SRPX2	0.29820986	0.07335515	2.31700656	
RPS25	0.29820389	0.07335515	2.31695559	
CRYBB3	-0.29819369	0.07335933	-2.31686868	
SNORD116-12	-0.29818070	0.07336570	-2.31675788	
TNFRSF18	-0.29817463	0.07336570	-2.31670613	yes
OR52N5	-0.29816517	0.07336878	-2.31662547	

ILF2	0.29814382	0.07337862	2.31644337
EMILIN2	-0.29814894	0.07337862	-2.31648703
LOC201229	0.29812101	0.07340186	2.31624888
DCHS1	-0.29809314	0.07343275	-2.31601123
POM121L2	-0.29806489	0.07346424	-2.31577034
TMEM45B	0.29802278	0.07348306	2.31541128
RRS1	0.29804070	0.07348306	2.31556401
HDAC8	0.29803034	0.07348306	2.31547569
SNORA62	-0.29802799	0.07348306	-2.31545566
PCYT1A	0.29796836	0.07355415	2.31494723
C9orf75	-0.29794895	0.07357230	-2.31478173
FGR	-0.29793044	0.07358908	-2.31462397
OR5M8	-0.29790769	0.07361230	-2.31443002
POLQ	0.29788296	0.07363284	2.31421913
NOSTRIN	-0.29787244	0.07363284	-2.31412946
CCDC110	-0.29787189	0.07363284	-2.31412479
ITGB8	0.29786205	0.07363652	2.31404090
GRPEL1	0.29783460	0.07366688	2.31380685
ZNF662	-0.29782082	0.07367653	-2.31368941
SNORD115-8	-0.29779529	0.07370395	-2.31347176
M6PRBP1	0.29778791	0.07370395	2.31340883
PRR12	-0.29777437	0.07371324	-2.31329343
HTR4	-0.29775863	0.07372587	-2.31315923
ANKRD36B	0.29773968	0.07373572	2.31299769
TADA2L	0.29773732	0.07373572	2.31297761
DUS4L	0.29769895	0.07377145	2.31265052
SCARB1	-0.29770073	0.07377145	-2.31266569
AGT	-0.29767115	0.07380238	-2.31241355
RP3-377H14.5	-0.29766152	0.07380576	-2.31233149
OR10V1	-0.29762937	0.07383207	-2.31205751
NME3	-0.29763349	0.07383207	-2.31209259
TCERG1	0.29755114	0.07393103	2.31139075
PPEF1	-0.29754557	0.07393103	-2.31134323
EIF3A	0.29754198	0.07393103	2.31131264
LOC100133411	-0.29751979	0.07395349	-2.31112358
OR8D1	-0.29748683	0.07399233	-2.31084265
GCKR	-0.29747794	0.07399459	-2.31076692
RRP8	0.29746211	0.07400168	2.31063195
ATXN7	0.29745849	0.07400168	2.31060113
ASXL3	-0.29745021	0.07400303	-2.31053058
TBC1D29	-0.29743321	0.07401122	-2.31038569
EFTUD1	0.29742667	0.07401122	2.31032998
TCEAL3	-0.29742265	0.07401122	-2.31029575
ZMYND8	0.29740208	0.07403125	2.31012043
FAM107A	-0.29734537	0.07403572	-2.30963717
C3orf48	-0.29735826	0.07403572	-2.30974700
ANKRD24	-0.29738080	0.07403572	-2.30993907
HLA-C	0.29737832	0.07403572	2.30991793
RP11-35F15.2	-0.29734741	0.07403572	-2.30965454
OR56B1	-0.29736515	0.07403572	-2.30980571

KLK14	-0.29735949	0.07403572	-2.30975748	
VPRBP	0.29734006	0.07403572	2.30959197	
PAX6	-0.29733062	0.07403885	-2.30951154	
TMEM123	0.29731741	0.07404772	2.30939893	
DIO3	-0.29729000	0.07407682	-2.30916544	
GPR141	-0.29728350	0.07407682	-2.30911005	
SYT4	-0.29726331	0.07409631	-2.30893798	
C15orf41	0.29723896	0.07412211	2.30873058	
OR1L6	-0.29722003	0.07413968	-2.30856928	
RPL17	0.29721159	0.07414130	2.30849736	
AICDA	-0.29719349	0.07415762	-2.30834317	
CHI3L2	-0.29717920	0.07416805	-2.30822142	
C1orf212	0.29717030	0.07416805	2.30814561	
SIGLEC9	-0.29716451	0.07416805	-2.30809628	
BAT2D1	0.29714070	0.07419308	2.30789340	
PROCA1	-0.29713099	0.07419663	-2.30781071	
FLJ32810	0.29708424	0.07425659	2.30741238	
PPP1R14D	-0.29706096	0.07428081	-2.30721413	
LOC642776	-0.29699796	0.07436560	-2.30667744	
EFCAB2	0.29698948	0.07436729	2.30660522	
FLJ11506	0.29696658	0.07439096	2.30641020	yes
NOB1	0.29695828	0.07439239	2.30633947	
ENTPD8	-0.29694167	0.07440649	-2.30619798	
BCL2L12	-0.29692286	0.07442394	-2.30603776	
GJB1	-0.29689060	0.07446112	-2.30576306	
C8orf73	-0.29688376	0.07446112	-2.30570480	
MAGEA11	-0.29686843	0.07447327	-2.30557423	
CLCA1	-0.29684948	0.07447763	-2.30541282	
EXOSC9	0.29684349	0.07447763	2.30536179	
ERI1	0.29685200	0.07447763	2.30543429	
BTBD8	0.29683251	0.07448315	2.30526828	
ANKRD17	0.29678712	0.07452998	2.30488171	
P4HTM	0.29679168	0.07452998	2.30492050	
NBEAL1	0.29675903	0.07456163	2.30464252	yes
ZNF277	0.29674462	0.07457147	2.30451978	
LTC4S	-0.29673788	0.07457147	-2.30446235	
DHX9	0.29670616	0.07457740	2.30419222	
C12orf70	-0.29670457	0.07457740	-2.30417871	
KLHL1	-0.29670730	0.07457740	-2.30420199	
CA5A	-0.29672132	0.07457740	-2.30432134	
CCDC85B	-0.29669080	0.07458720	-2.30406147	
CEP63	0.29666351	0.07461767	2.30382908	
RANGRF	-0.29665035	0.07462654	-2.30371705	
MCM9	0.29664067	0.07463011	2.30363456	
ETV6	0.29662137	0.07464836	2.30347029	
OR8K3	-0.29660518	0.07466188	-2.30333242	
OR4K1	-0.29658932	0.07467488	-2.30319740	
HAX1	0.29653540	0.07474612	2.30273830	
C9orf68	0.29652803	0.07474616	2.30267548	
LZTFL1	0.29648305	0.07480376	2.30229255	yes

B3GNT1	-0.29645037	0.07484255	-2.30201437	
HTATIP2	0.29640013	0.07490827	2.30158667	
GLO1	0.29639060	0.07491161	2.30150554	
KIAA1543	-0.29637549	0.07492352	-2.30137690	
FLJ35024	-0.29634335	0.07496154	-2.30110325	
UNQ5836	-0.29633368	0.07496511	-2.30102093	
COL13A1	-0.29631092	0.07497748	-2.30082724	
CLDN4	0.29631688	0.07497748	2.30087795	
FAM90A1	-0.29629469	0.07498745	-2.30068910	
KIAA1539	-0.29628974	0.07498745	-2.30064693	
LAT2	-0.29627528	0.07499837	-2.30052384	
MTMR14	0.29625038	0.07502531	2.30031187	
CCDC76	0.29624270	0.07502583	2.30024651	
PRDX1	0.29622499	0.07504174	2.30009583	
CABP4	-0.29621323	0.07504853	-2.29999569	
CHEK2	0.29618234	0.07508469	2.29973274	
HTRA4	-0.29612535	0.07513840	-2.29924777	
OR56A5	-0.29613231	0.07513840	-2.29930698	
PLA2G2C	-0.29613492	0.07513840	-2.29932921	
SLC9A6	0.29608296	0.07518099	2.29888699	
IL18RAP	0.29608604	0.07518099	2.29891322	
POTEC	-0.29605761	0.07518615	-2.29867121	
NECAP2	0.29605815	0.07518615	2.29867584	
HOMER1	0.29607180	0.07518615	2.29879202	
TTC6	0.29602705	0.07522186	2.29841114	
OR8D4	-0.29601479	0.07522943	-2.29830681	
WDR36	0.29594747	0.07532171	2.29773397	
EPHB6	-0.29592366	0.07533579	-2.29753139	
MYH13	-0.29592507	0.07533579	-2.29754338	
MICALL1	-0.29591420	0.07533907	-2.29745089	
AFM	-0.29590217	0.07534631	-2.29734851	
GFRAL	-0.29588538	0.07534959	-2.29720568	
MED14	0.29588559	0.07534959	2.29720746	
DDX1	0.29586282	0.07537305	2.29701366	
TREM1	-0.29584185	0.07539406	-2.29683527	
SNORD116-25	-0.29578428	0.07545047	-2.29634546	yes
OR4N2	-0.29578326	0.07545047	-2.29633676	
MAGOHB	0.29578436	0.07545047	2.29634617	
TSP50	-0.29577400	0.07545345	-2.29625800	
HS3ST6	-0.29575370	0.07547345	-2.29608532	
COMMD4	-0.29571032	0.07552904	-2.29571624	
ZNF512B	-0.29568085	0.07556320	-2.29546552	
NCOA5	0.29567288	0.07556421	2.29539771	
CFP	-0.29564259	0.07559964	-2.29514005	
ADAMTS5	-0.29562442	0.07561417	-2.29498548	
MLH3	0.29561854	0.07561417	2.29493547	
RASGRP4	-0.29560723	0.07562033	-2.29483925	
ZNF610	0.29558185	0.07562965	2.29462333	
TMEM17	0.29557924	0.07562965	2.29460120	
C21orf70	-0.29558973	0.07562965	-2.29469041	

IL12RB1	-0.29549489	0.07572603	-2.29388370	
RMND1	0.29550293	0.07572603	2.29395206	
CXCL12	-0.29549904	0.07572603	-2.29391895	
MSH6	0.29546224	0.07576519	2.29360596	
DACH2	-0.29545280	0.07576847	-2.29352569	
AP1G1	0.29541456	0.07581629	2.29320047	
ATL3	0.29539810	0.07583044	2.29306048	
C1orf191	-0.29538410	0.07584079	-2.29294139	
MARCH3	0.29537571	0.07584245	2.29287008	
ZBTB33	0.29533560	0.07584334	2.29252899	
LOC100131112	-0.29535329	0.07584334	-2.29267937	
SIRPB1	-0.29533130	0.07584334	-2.29249236	
IFNE	0.29533658	0.07584334	2.29253729	
PRG2-2	-0.29534534	0.07584334	-2.29261177	
ARL6	0.29535234	0.07584334	2.29267134	
CPA5	-0.29527934	0.07591242	-2.29205056	
LILRB5	-0.29526233	0.07591614	-2.29190590	
TMEM144	0.29526526	0.07591614	2.29193075	
FLJ43950	-0.29520023	0.07600100	-2.29137777	
KIF18B	-0.29518468	0.07601377	-2.29124562	
C6orf72	0.29514935	0.07601428	2.29094520	
OLFM3	-0.29513326	0.07601428	-2.29080836	
C11orf86	-0.29513921	0.07601428	-2.29085894	
HELLS	0.29514140	0.07601428	2.29087760	
OAT	0.29514318	0.07601428	2.29089276	
RRP15	0.29514805	0.07601428	2.29093409	
CBR4	0.29517555	0.07601428	2.29116799	
SEC23IP	0.29510082	0.07604755	2.29053258	yes
FBXO9	0.29509720	0.07604755	2.29050174	
GRHL2	0.29508614	0.07605338	2.29040772	
RIPPLY2	-0.29506312	0.07607776	-2.29021199	
RNF44	-0.29500826	0.07615150	-2.28974566	
PAICS	0.29500050	0.07615223	2.28967969	
AKAP11	0.29497940	0.07615384	2.28950026	
ZFP62	0.29499137	0.07615384	2.28960207	
RSHL1	-0.29497759	0.07615384	-2.28948492	
TEAD4	-0.29496176	0.07616709	-2.28935031	
TDRD9	-0.29494519	0.07618072	-2.28920949	
SNRPN	-0.29493840	0.07618072	-2.28915172	
PIWIL4	-0.29491305	0.07620476	-2.28893622	
NR2C2	0.29490833	0.07620476	2.28889614	
CLDND1	0.29489739	0.07621043	2.28880315	
LOC100128977	-0.29484741	0.07626540	-2.28837829	
GSG2	-0.29485133	0.07626540	-2.28841158	
TRIM10	-0.29483909	0.07626701	-2.28830754	
PSMF1	0.29482964	0.07627037	2.28822725	
FAM186A	-0.29480079	0.07628680	-2.28798198	
FLJ40125	-0.29479757	0.07628680	-2.28795462	
SLC25A12	0.29479722	0.07628680	2.28795164	
C7orf13	0.29478286	0.07628847	2.28782962	

TCEANC	0.29478159	0.07628847	2.28781880	
ATP5D	-0.29472454	0.07630928	-2.28733387	
TRMT6	0.29473005	0.07630928	2.28738072	
PRKAA1	0.29473008	0.07630928	2.28738098	
KLHL7	0.29473607	0.07630928	2.28743187	
RASGRF1	-0.29473237	0.07630928	-2.28740043	
PLCH2	-0.29473006	0.07630928	-2.28738079	
RBBP4	0.29471548	0.07631205	2.28725687	
KLF1	-0.29468635	0.07634144	-2.28700929	
CEP290	0.29468202	0.07634144	2.28697249	
EIF2AK1	0.29463655	0.07640079	2.28658611	
RHOXF1	-0.29460287	0.07644186	-2.28629985	
ZNF469	-0.29455554	0.07650417	-2.28589769	
FAM169A	0.29453920	0.07651829	2.28575879	
OR8G5	-0.29452751	0.07652516	-2.28565949	
ZNF653	-0.29448480	0.07657278	-2.28529653	
PLD6	-0.29448239	0.07657278	-2.28527605	
CTNS	0.29439923	0.07662310	2.28456943	
FAM53A	-0.29442940	0.07662310	-2.28482581	
FLJ46481	-0.29442691	0.07662310	-2.28480462	
NAP1L1	0.29440446	0.07662310	2.28461388	
P2RY4	-0.29441883	0.07662310	-2.28473599	
YPEL3	-0.29441972	0.07662310	-2.28474355	
TJP2	0.29439957	0.07662310	2.28457234	
AP3M1	0.29437910	0.07664314	2.28439842	
PLCG1	-0.29437156	0.07664358	-2.28433434	
ASB12	-0.29436317	0.07664527	-2.28426310	
TEX28	-0.29433418	0.07664527	-2.28401675	
OR1L4	-0.29434165	0.07664527	-2.28408021	
PTTG3	-0.29433809	0.07664527	-2.28405000	
MYF6	-0.29435168	0.07664527	-2.28416546	
MYO3B	-0.29426449	0.07674258	-2.28342472	
CCNH	0.29425438	0.07674703	2.28333882	
SOCS6	0.29423539	0.07676533	2.28317750	
NOXA1	-0.29420743	0.07679764	-2.28293997	
REM2	-0.29412529	0.07684907	-2.28224222	
ATOH7	-0.29414867	0.07684907	-2.28244084	
AHDC1	-0.29412000	0.07684907	-2.28219730	
GNRH1	-0.29413346	0.07684907	-2.28231160	
INCENP	-0.29411645	0.07684907	-2.28216718	
MDM4	0.29411705	0.07684907	2.28217222	
C20orf46	-0.29415732	0.07684907	-2.28251432	
CACNA1I	-0.29415776	0.07684907	-2.28251805	
A1BG	-0.29405572	0.07685622	-2.28165133	yes
FGF2	-0.29405392	0.07685622	-2.28163599	
CCNDBP1	0.29406627	0.07685622	2.28174094	
NELL1	-0.29405932	0.07685622	-2.28168190	
SCOC	0.29406472	0.07685622	2.28172773	
OBFC2A	0.29406510	0.07685622	2.28173096	
RIN3	-0.29408953	0.07685622	-2.28193845	

CDC14B	0.29405815	0.07685622	2.28167194	
C3orf37	0.29404437	0.07685981	2.28155495	
ZNF768	-0.29403533	0.07686261	-2.28147817	
SMARCAD1	0.29402229	0.07687168	2.28136734	
RNF14	0.29397495	0.07693429	2.28096528	
RRAGC	0.29395079	0.07696073	2.28076009	
FLJ40448	-0.29393956	0.07696695	-2.28066478	
GLIS1	-0.29391390	0.07699575	-2.28044679	
OR10R2	-0.29390573	0.07699721	-2.28037742	
ACTR10	0.29389575	0.07700149	2.28029271	
XRCC4	0.29386214	0.07703141	2.28000725	
SCYE1	0.29386459	0.07703141	2.28002809	
POU3F4	-0.29385465	0.07703181	-2.27994367	
CALB2	-0.29383804	0.07704648	-2.27980257	
OR5B17	-0.29377276	0.07713727	-2.27924828	
SERPINA4	-0.29376539	0.07713749	-2.27918567	
C20orf7	0.29375554	0.07714158	2.27910207	
MYO1A	-0.29372892	0.07717192	-2.27887606	
NPPA	-0.29370239	0.07720215	-2.27865076	
EMILIN1	-0.29368935	0.07721125	-2.27854000	
GPR78	-0.29366198	0.07724279	-2.27830768	
STAM	0.29364185	0.07726130	2.27813673	
BXDC1	0.29363571	0.07726130	2.27808461	
SLC16A7	0.29358339	0.07733198	2.27764039	
FARSB	0.29355042	0.07736101	2.27736052	
A1CF	-0.29355465	0.07736101	-2.27739638	
TIAM2	-0.29353186	0.07737879	-2.27720296	
ZNF737	0.29352073	0.07738492	2.27710846	
BPIL1	-0.29349944	0.07740698	-2.27692774	
SLC22A11	-0.29344754	0.07747711	-2.27648715	
PRKRA	0.29343532	0.07748496	2.27638339	
WDR48	0.29342504	0.07748975	2.27629617	
C9orf97	0.29340133	0.07751565	2.27609486	
PGR	-0.29336032	0.07754914	-2.27574675	
SETD4	0.29336707	0.07754914	2.27580407	
ZNHIT6	0.29335835	0.07754914	2.27573004	
MIPOL1	0.29326367	0.07767529	2.27492647	
PF4V1	-0.29326677	0.07767529	-2.27495278	
KCNV1	-0.29325450	0.07767836	-2.27484862	
TPH2	-0.29323957	0.07767913	-2.27472193	
FAM159A	-0.29324070	0.07767913	-2.27473151	
WDR62	-0.29322439	0.07768030	-2.27459313	
SPHK1	-0.29322966	0.07768030	-2.27463784	yes
UTS2R	-0.29317349	0.07774905	-2.27416111	
PAPD4	0.29311921	0.07776315	2.27370050	
IFIT5	0.29311267	0.07776315	2.27364499	
KBTBD2	0.29311609	0.07776315	2.27367399	
TMX2	0.29311814	0.07776315	2.27369143	
PUS7	0.29310836	0.07776315	2.27360838	
TSNAX	0.29315225	0.07776315	2.27398087	

PARP10	-0.29313573	0.07776315	-2.27384069	
NAT1	0.29310683	0.07776315	2.27359543	
TSHB	-0.29306766	0.07781347	-2.27326308	
CHRNA6	-0.29305006	0.07782984	-2.27311374	
DOC2BL	-0.29302935	0.07785111	-2.27293798	
PEX26	-0.29301612	0.07786061	-2.27282568	
C20orf185	-0.29296944	0.07791146	-2.27242964	
HILS1	-0.29297193	0.07791146	-2.27245075	
C1orf89	-0.29295749	0.07791894	-2.27232824	
TAS1R2	-0.29294999	0.07791941	-2.27226457	
LMOD2	-0.29292002	0.07795530	-2.27201035	
ICHTHYIN	-0.29288628	0.07798581	-2.27172402	
AQP7	-0.29288662	0.07798581	-2.27172696	
C10orf57	0.29285096	0.07803017	2.27142438	yes
MNDA	-0.29282842	0.07805439	-2.27123315	
HCRTR1	-0.29282090	0.07805489	-2.27116937	
TKTL1	-0.29280910	0.07806215	-2.27106925	
KCNJ10	-0.29280126	0.07806315	-2.27100277	
RBBP5	0.29275010	0.07813258	2.27056878	
TMEM217	-0.29270096	0.07819886	-2.27015195	
BCLAF1	0.29269023	0.07820444	2.27006093	
HSD3B2	-0.29267477	0.07821751	-2.26992978	
EID1	0.29264311	0.07822204	2.26966125	
GARNL1	0.29264574	0.07822204	2.26968356	
POR	0.29266004	0.07822204	2.26980480	
TCL1A	-0.29264600	0.07822204	-2.26968574	
LOC57228	0.29260722	0.07826743	2.26935680	
GS85	-0.29259272	0.07827143	-2.26923379	
C9orf85	0.29259030	0.07827143	2.26921331	
RCHY1	0.29255431	0.07831346	2.26890804	
TRIM37	0.29254935	0.07831346	2.26886600	yes
LOC645139	0.29253724	0.07832125	2.26876325	
ERP29	-0.29250675	0.07834111	-2.26850470	
GLCC1	0.29249891	0.07834111	2.26843816	
OR4K5	-0.29249594	0.07834111	-2.26841294	
SAP30L	0.29250725	0.07834111	2.26850890	
KRT75	-0.29248773	0.07834271	-2.26834338	
AFF4	0.29245362	0.07837395	2.26805411	
KRTAP13-3	-0.29245820	0.07837395	-2.26809291	
IFT52	0.29242707	0.07840463	2.26782890	yes
DMWD	-0.29238100	0.07844351	-2.26743825	
SRL	-0.29238097	0.07844351	-2.26743795	
OR4C15	-0.29238405	0.07844351	-2.26746408	
MYOZ2	-0.29236643	0.07845516	-2.26731468	
DDX21	0.29234389	0.07847949	2.26712358	
TRIP11	0.29231338	0.07851647	2.26686486	
CDKN2D	-0.29229610	0.07853084	-2.26671830	
C20orf106	-0.29228299	0.07853084	-2.26660716	
TP53BP2	0.29228277	0.07853084	2.26660532	
DBX1	-0.29223529	0.07859033	-2.26620269	

SNORD33	-0.29220483	0.07859033	-2.26594444	
GNAL	0.29222989	0.07859033	2.26615693	
IL3	-0.29221069	0.07859033	-2.26599411	
OR2M7	-0.29220220	0.07859033	-2.26592216	
TSPAN18	-0.29220920	0.07859033	-2.26598146	
DNAJA4	0.29219081	0.07859701	2.26582560	yes
FN3KRP	0.29212156	0.07868415	2.26523847	
RASSF5	0.29212442	0.07868415	2.26526273	
BCAS2	0.29208038	0.07871932	2.26488938	
FAM26F	-0.29207789	0.07871932	-2.26486827	
MICAL2	0.29208956	0.07871932	2.26496716	
SSTR3	-0.29206354	0.07873073	-2.26474657	
C10orf76	0.29197797	0.07885534	2.26402123	
RAD52	0.29196554	0.07886371	2.26391585	
SCN3B	-0.29191988	0.07892495	-2.26352884	
C6orf26	-0.29191140	0.07892555	-2.26345692	
CSDE1	0.29190516	0.07892555	2.26340406	
GPR139	-0.29182393	0.07904351	-2.26271551	
DNTT	-0.29179571	0.07907705	-2.26247635	
POU1F1	-0.29175518	0.07912997	-2.26213290	
PTTG1IP	0.29174818	0.07912997	2.26207356	
C18orf20	-0.29172934	0.07914178	-2.26191388	
ASTN2	-0.29171953	0.07914178	-2.26183073	
TNKS2	0.29171927	0.07914178	2.26182856	
IL25	-0.29170794	0.07914843	-2.26173249	
CIDECP	-0.29168571	0.07914959	-2.26154415	
LIX1	-0.29169066	0.07914959	-2.26158612	
TAF9	0.29169634	0.07914959	2.26163419	
PRMT6	0.29167771	0.07915093	2.26147636	
PRKAG1	0.29166040	0.07916711	2.26132967	
ATP2B1	0.29164548	0.07917949	2.26120324	
DENND2A	-0.29160774	0.07919549	-2.26088343	
LRMP	0.29160681	0.07919549	2.26087555	
LINGO3	-0.29162424	0.07919549	-2.26102325	
DBF4B	-0.29160873	0.07919549	-2.26089179	
UNQ1887	0.29158833	0.07920214	2.26071894	
LRRC38	-0.29159062	0.07920214	-2.26073832	
CLEC17A	-0.29149341	0.07934228	-2.25991463	
ZP4	-0.29145720	0.07938870	-2.25960790	
NAF1	0.29132928	0.07958195	2.25852412	
ZNF454	-0.29131254	0.07959731	-2.25838229	
RPL6	0.29126639	0.07965978	2.25799142	
FNDC5	-0.29125542	0.07966589	-2.25789849	
HNRPDL	0.29124686	0.07966815	2.25782592	
HRSP12	0.29123178	0.07968084	2.25769824	
MPPE1	0.29118207	0.07973761	2.25727713	
YIPF4	0.29118571	0.07973761	2.25730793	
FBXL5	0.29116795	0.07973802	2.25715757	
GGT1	-0.29116751	0.07973802	-2.25715378	
LOC375337	-0.29115530	0.07974612	-2.25705043	

TOP1	0.29113103	0.07977359	2.25684481
SNORD27	0.29112002	0.07977977	2.25675160
STIP1	0.29106284	0.07980270	2.25626727
LETMD1	0.29107480	0.07980270	2.25636854
ZNF283	0.29109571	0.07980270	2.25654568
PCOLCE	-0.29106816	0.07980270	-2.25631238
TOP2B	0.29108732	0.07980270	2.25647465
KCNK5	-0.29107121	0.07980270	-2.25633818
NECAP1	0.29102815	0.07982504	2.25597347
HSD17B11	0.29102748	0.07982504	2.25596783
OR4P4	-0.29103276	0.07982504	-2.25601251
PDE8A	0.29100652	0.07983575	2.25579029
EIF1AY	0.29101164	0.07983575	2.25583369
USP7	0.29097892	0.07986859	2.25555658
OR13F1	-0.29096512	0.07987928	-2.25543973
FTL	0.29089550	0.07997967	2.25485013
LOC119358	-0.29086820	0.08001208	-2.25461896
ANKRD34B	-0.29082312	0.08005626	-2.25423729
NR2C1	0.29083082	0.08005626	2.25430241
THAP3	-0.29081931	0.08005626	-2.25420496
LAMP2	0.29079744	0.08007995	2.25401982
MAP7D1	-0.29078598	0.08008690	-2.25392278
TTC8	0.29076231	0.08010577	2.25372239
ALB	-0.29073857	0.08010577	-2.25352134
EXT1	0.29074257	0.08010577	2.25355521
GTDC1	0.29075063	0.08010577	2.25362351
SLC22A13	-0.29075737	0.08010577	-2.25368057
BTG3	0.29067823	0.08019142	2.25301051
ANKS3	-0.29064957	0.08019162	-2.25276790
PFKP	0.29066333	0.08019162	2.25288435
XRN1	0.29065316	0.08019162	2.25279821
C20orf72	0.29066296	0.08019162	2.25288120
CHGA	-0.29058832	0.08023405	-2.25224931
TMEM136	0.29058758	0.08023405	2.25224309
HBP1	0.29059654	0.08023405	2.25231891
TBC1D19	0.29058942	0.08023405	2.25225865
OTOF	-0.29060600	0.08023405	-2.25239898
C12orf28	-0.29053887	0.08026857	-2.25183074
EHD2	-0.29052811	0.08026857	-2.25173960
ZNF705A	-0.29051628	0.08026857	-2.25163947
RPL11	0.29051930	0.08026857	2.25166505
IKZF5	0.29052781	0.08026857	2.25173710
FGF23	-0.29055340	0.08026857	-2.25195373
CBX4	-0.29051645	0.08026857	-2.25164090
JMJD3	-0.29049084	0.08029809	-2.25142412
HIBCH	0.29047557	0.08030279	2.25129490
OR2W3	-0.29046676	0.08030279	-2.25122036
AQP9	-0.29046656	0.08030279	-2.25121860
FOXRED2	-0.29045319	0.08031286	-2.25110542
FAM185A	0.29043045	0.08033775	2.25091301

OR2W5	-0.29042351	0.08033775	-2.25085424	
MEPE	-0.29039662	0.08036963	-2.25062665	
AEBP2	0.29037497	0.08039307	2.25044343	
TCF23	-0.29029985	0.08042194	-2.24980766	
OR10G8	-0.29031638	0.08042194	-2.24994750	
LOC390940	0.29033310	0.08042194	2.25008903	
LMO1	-0.29028382	0.08042194	-2.24967195	
PTPN2	0.29028649	0.08042194	2.24969458	
C5orf54	0.29031896	0.08042194	2.24996933	
WASF4	-0.29029538	0.08042194	-2.24976978	
SEH1L	0.29030631	0.08042194	2.24986230	
FBXL10	0.29027883	0.08042194	2.24962974	
COG7	0.29031342	0.08042194	2.24992246	
ZMYM4	0.29029045	0.08042194	2.24972804	
LMAN1	0.29026166	0.08043818	2.24948438	
NID2	-0.29021588	0.08050059	-2.24909701	
HSD17B3	0.29020737	0.08050286	2.24902499	
RBM44	-0.29013058	0.08061173	-2.24837515	
THNSL1	0.29012575	0.08061173	2.24833434	
COL4A4	-0.29005312	0.08071770	-2.24771973	
PDE2A	-0.29004091	0.08072596	-2.24761641	
ARPC5	0.29001021	0.08076414	2.24735670	
SCN4B	-0.28995293	0.08084539	-2.24687206	
LOC729862	-0.28993919	0.08085613	-2.24675585	
C21orf63	0.28989377	0.08091823	2.24637155	
MRPL43	0.28985348	0.08097204	2.24603068	
TRUB1	0.28978074	0.08107021	2.24541537	
CTAG2	-0.28977877	0.08107021	-2.24539872	
USP39	0.28972064	0.08115309	2.24490698	
BBS7	0.28969280	0.08118678	2.24467157	
KLRG2	-0.28968441	0.08118888	-2.24460055	
ADCY4	-0.28963346	0.08122983	-2.24416965	
SLC10A4	-0.28963747	0.08122983	-2.24420356	
SLC25A4	0.28964694	0.08122983	2.24428366	
LCE2A	-0.28962370	0.08122983	-2.24408708	
VHLL	-0.28962704	0.08122983	-2.24411534	
PNPLA3	-0.28959734	0.08126115	-2.24386412	
SNORD58A	0.28958752	0.08126557	2.24378111	
SPINK9	-0.28956992	0.08128264	-2.24363227	
MS4A10	-0.28953780	0.08132335	-2.24336063	
LEPREL2	-0.28945703	0.08143046	-2.24267753	
TBC1D23	0.28945424	0.08143046	2.24265392	
BARX2	-0.28945073	0.08143046	-2.24262426	
ST3GAL2	-0.28944317	0.08143120	-2.24256035	yes
IFITM5	-0.28943172	0.08143830	-2.24246351	
RNF11	0.28937637	0.08151693	2.24199551	
PCNT	-0.28934748	0.08155247	-2.24175122	
GHRL	-0.28932295	0.08158092	-2.24154377	
NXPH4	-0.28924522	0.08161526	-2.24088662	
OR2M5	-0.28924714	0.08161526	-2.24090284	

OR8G2	-0.28924515	0.08161526	-2.24088602	
PRMT2	0.28927820	0.08161526	2.24116545	
C11orf87	-0.28928250	0.08161526	-2.24120176	
LGR4	0.28925113	0.08161526	2.24093659	
PCDHA2	-0.28924966	0.08161526	-2.24092414	
RGL3	-0.28925739	0.08161526	-2.24098945	
KIAA1033	0.28920104	0.08167569	2.24051305	
STK16	0.28919037	0.08168153	2.24042286	
BOC	-0.28918181	0.08168394	-2.24035046	
DSCR3	0.28911663	0.08172588	2.23979946	
CRYGN	-0.28912206	0.08172588	-2.23984534	
SETX	0.28911361	0.08172588	2.23977391	
C19orf30	-0.28911540	0.08172588	-2.23978902	
PSG3	-0.28914505	0.08172588	-2.24003969	
OR1E2	-0.28912812	0.08172588	-2.23989658	
GYS2	-0.28907354	0.08177227	-2.23943517	
NTF4	-0.28906400	0.08177227	-2.23935452	
PLA2G6	-0.28906396	0.08177227	-2.23935420	
LIME1	-0.28905459	0.08177601	-2.23927498	
FLJ43826	-0.28901475	0.08182564	-2.23893820	
MRC2	-0.28901006	0.08182564	-2.23889857	yes
C14orf133	0.28896706	0.08188437	2.23853511	
AASDH	0.28895802	0.08188757	2.23845873	
OR10K2	-0.28889034	0.08198291	-2.23788671	
MDM1	0.28888560	0.08198291	2.23784658	
POT1	0.28884908	0.08202026	2.23753796	
IER5	-0.28884863	0.08202026	-2.23753413	
LOC100130285	-0.28882603	0.08202250	-2.23734317	
ZIM3	-0.28883127	0.08202250	-2.23738741	
LTB	-0.28882762	0.08202250	-2.23735660	
OR7G3	-0.28878272	0.08204709	-2.23697713	
JPH3	-0.28880206	0.08204709	-2.23714058	
IFT88	0.28879614	0.08204709	2.23709054	
SERTAD2	0.28878575	0.08204709	2.23700270	
MLF1	0.28874590	0.08209582	2.23666597	
NDUFA12	0.28873042	0.08210959	2.23653519	
PRPF8	0.28870934	0.08213256	2.23635700	
ATP8B1	0.28868589	0.08214782	2.23615883	
LRRC59	0.28869064	0.08214782	2.23619903	
SYCP1	-0.28863627	0.08221759	-2.23573959	
IPO8	0.28861214	0.08224558	2.23553568	
CDH10	-0.28858972	0.08227077	-2.23534625	
ESCO1	0.28855812	0.08230765	2.23507922	
ATAD2B	0.28855312	0.08230765	2.23503696	
DSP	0.28849883	0.08237359	2.23457829	
P4HA3	-0.28850426	0.08237359	-2.23462422	
BHMT	-0.28846014	0.08242556	-2.23425141	
IGF2BP3	0.28844759	0.08243457	2.23414536	
CYP4X1	-0.28842442	0.08244942	-2.23394967	
FLJ44881	-0.28843139	0.08244942	-2.23400852	

SPCS3	0.28839568	0.08247345	2.23370682	
DSCR8	-0.28840076	0.08247345	-2.23374973	
SGK196	0.28838827	0.08247402	2.23364427	
RPS2P11	-0.28835923	0.08249854	-2.23339898	
PRR7	-0.28836029	0.08249854	-2.23340788	
SSBP4	-0.28832138	0.08254919	-2.23307920	
HMGB3L1	-0.28831244	0.08255228	-2.23300370	
ALG5	0.28827443	0.08260322	2.23268262	
PTPLAD2	0.28821491	0.08268962	2.23217982	
LOC136242	-0.28819617	0.08270381	-2.23202154	
TAGLN	-0.28819217	0.08270381	-2.23198782	
PDCD6IP	0.28815675	0.08275055	2.23168866	yes
PPA1	0.28812842	0.08278562	2.23144937	
CYP1A2	-0.28811053	0.08280200	-2.23129826	
VANGL1	0.28810438	0.08280200	2.23124629	
TOR1A	0.28807024	0.08284667	2.23095800	
SNX26	-0.28797568	0.08295617	-2.23015945	
WDR43	0.28797713	0.08295617	2.23017166	
GCAT	-0.28798151	0.08295617	-2.23020864	
PPP1R15B	0.28798090	0.08295617	2.23020353	
RNF187	-0.28795668	0.08297591	-2.22999897	
SMPDL3B	-0.28792100	0.08301287	-2.22969771	
TM9SF3	0.28792019	0.08301287	2.22969088	
ERI2	0.28783548	0.08305521	2.22897555	
MRGPRE	-0.28785864	0.08305521	-2.22917110	
FBXO21	0.28785844	0.08305521	2.22916943	
FSCN2	-0.28782407	0.08305521	-2.22887927	
P4HA1	0.28788272	0.08305521	2.22937445	
NOSIP	-0.28784695	0.08305521	-2.22907245	
PKN2	0.28783341	0.08305521	2.22895813	
PRMT8	-0.28783728	0.08305521	-2.22899082	
FAM108A1	-0.28782862	0.08305521	-2.22891765	
CD59	0.28782562	0.08305521	2.22889235	
TTC33	0.28780424	0.08306471	2.22871181	
GAPVD1	0.28780608	0.08306471	2.22872734	
C21orf89	-0.28778305	0.08306481	-2.22853288	
GADD45B	-0.28778508	0.08306481	-2.22855007	
NEDD8	0.28779029	0.08306481	2.22859405	
ST7L	0.28777553	0.08306560	2.22846940	
C20orf135	-0.28774891	0.08309796	-2.22824468	
ZZZ3	0.28772657	0.08312325	2.22805609	
KIAA1210	-0.28771909	0.08312398	-2.22799291	
ZNF616	0.28770252	0.08313974	2.22785302	
COQ7	0.28766412	0.08316833	2.22752884	
KCNH4	-0.28767722	0.08316833	-2.22763943	
TP53TG5	-0.28766592	0.08316833	-2.22754404	
GJA3	-0.28765585	0.08317038	-2.22745898	
CNPY1	-0.28764142	0.08317789	-2.22733716	
ZNF799	0.28763724	0.08317789	2.22730189	
HRH2	-0.28761792	0.08319820	-2.22713885	

FCGR2B	0.28757500	0.08325469	2.22677653	
SLC11A1	-0.28756972	0.08325469	-2.22673196	
MRPL54	-0.28755394	0.08326918	-2.22659869	
KANK2	-0.28752238	0.08330979	-2.22633234	
TRAPPC3	0.28747366	0.08335554	2.22592113	
ACAT2	0.28747833	0.08335554	2.22596051	
ATP2A1	-0.28747490	0.08335554	-2.22593154	
CPZ	-0.28743879	0.08339004	-2.22562675	
LHX4	-0.28744084	0.08339004	-2.22564407	
PAAF1	0.28741508	0.08341768	2.22542667	
FAM173A	-0.28740654	0.08342019	-2.22535459	
LOC100133372	-0.28738596	0.08342534	-2.22518090	
WDR77	0.28739386	0.08342534	2.22524757	
FCRL4	-0.28738236	0.08342534	-2.22515046	
MYH2	-0.28734190	0.08348077	-2.22480904	
EXTL2	0.28728179	0.08356886	2.22430172	
LRRC20	-0.28725381	0.08360365	-2.22406558	
NCK1	0.28722080	0.08364680	2.22378709	
CPLP	-0.28720418	0.08366275	-2.22364679	
PLEK2	0.28717397	0.08370127	2.22339189	
TMEM179	-0.28716222	0.08370913	-2.22329273	
C7orf34	-0.28714092	0.08373285	-2.22311304	
BLZF1	0.28710870	0.08377476	2.22284115	
CIB1	0.28709182	0.08377634	2.22269870	
RNASE11	-0.28709438	0.08377634	-2.22272031	
OR4L1	-0.28706562	0.08377634	-2.22247769	
OR2J2	-0.28708610	0.08377634	-2.22265049	
TFR2	-0.28707026	0.08377634	-2.22251683	
HSDL1	0.28707349	0.08377634	2.22254405	
ZNF638	0.28705356	0.08378472	2.22237594	
BTNL8	-0.28704416	0.08378869	-2.22229660	
RAVER1	-0.28696060	0.08389270	-2.22159163	
RHAG	-0.28696179	0.08389270	-2.22160162	
SNORA20	-0.28696389	0.08389270	-2.22161934	yes
CLEC4E	-0.28694927	0.08389556	-2.22149603	
LCE1A	-0.28694485	0.08389556	-2.22145877	
SALL1	-0.28693725	0.08389655	-2.22139459	
YPEL5	0.28688877	0.08395655	2.22098568	
BMX	-0.28688719	0.08395655	-2.22097228	
ZCCHC10	0.28687549	0.08396435	2.22087362	
USP44	-0.28686223	0.08397475	-2.22076179	
CDH9	-0.28681565	0.08404070	-2.22036882	
ILK	-0.28679065	0.08405899	-2.22015796	
CIAO1	0.28679107	0.08405899	2.22016146	
STK38L	0.28673146	0.08414602	2.21965869	
FSTL3	-0.28667664	0.08422582	-2.21919633	yes
RP3-474I12.5	-0.28665952	0.08424271	-2.21905191	
NAPEPLD	0.28659167	0.08434435	2.21847970	
LOC728285	-0.28655938	0.08438662	-2.21820737	
CA12	0.28654611	0.08439709	2.21809547	

OSBPL9	0.28652521	0.08441091	2.21791916
N-PAC	0.28652383	0.08441091	2.21790757
CD46	0.28646307	0.08449128	2.21739517
MTFR1	0.28646179	0.08449128	2.21738434
FBXO11	0.28644965	0.08449986	2.21728204
LOC389203	0.28642578	0.08452809	2.21708072
RBM46	-0.28640640	0.08453707	-2.21691735
LOC388796	0.28640709	0.08453707	2.21692315
SNORD15B	-0.28637242	0.08457053	-2.21663079
PTCHD3	-0.28637771	0.08457053	-2.21667540
LACTB2	0.28635977	0.08457998	2.21652413
EPC2	0.28635217	0.08458099	2.21646003
OTOL1	-0.28633205	0.08459123	-2.21629042
KIAA1147	0.28633763	0.08459123	2.21633744
NEUROD6	-0.28631512	0.08460786	-2.21614770
OR13C4	-0.28630447	0.08461398	-2.21605785
SERPINB8	0.28629008	0.08462184	2.21593657
INO80B	-0.28628578	0.08462184	-2.21590030
LOC100129488	-0.28627796	0.08462322	-2.21583435
C1QBP	0.28626320	0.08463623	2.21570991
LBR	0.28612451	0.08484538	2.21454071
TPH1	0.28612658	0.08484538	2.21455813
ELL3	0.28611622	0.08484756	2.21447076
ALKBH3	0.28610516	0.08484784	2.21437758
GSR	0.28610206	0.08484784	2.21435141
PLA2G12B	-0.28608214	0.08485779	-2.21418354
CYTH1	0.28608839	0.08485779	2.21423619
TFEB	-0.28605024	0.08489961	-2.21391465
LOX	0.28598748	0.08496982	2.21338559
LRRC52	-0.28599447	0.08496982	-2.21344454
P2RY12	-0.28598952	0.08496982	-2.21340283
TREML3	-0.28596684	0.08497766	-2.21321160
TAF3	-0.28596605	0.08497766	-2.21320498
SYVN1	-0.28596184	0.08497766	-2.21316949
SH2D5	-0.28592657	0.08502519	-2.21287226
GATA4	-0.28589092	0.08507341	-2.21257173
MYH8	-0.28586549	0.08510443	-2.21235744
RP11-90M2.3	-0.28582808	0.08512146	-2.21204214
ZCCHC12	-0.28584648	0.08512146	-2.21219725
SMAD5	0.28582742	0.08512146	2.21203659
TBC1D14	0.28584003	0.08512146	2.21214288
ARPC3	0.28581240	0.08512978	2.21190997
OSTM1	0.28580851	0.08512978	2.21187719
TMEM167B	0.28578813	0.08515232	2.21170544
CNTNAP2	-0.28573559	0.08518821	-2.21126274
ACOXL	-0.28573528	0.08518821	-2.21126009
LANCL2	0.28573283	0.08518821	2.21123949
RSRC2	0.28574009	0.08518821	2.21130066
KRT37	-0.28573189	0.08518821	-2.21123155
RBM41	0.28571554	0.08520398	2.21109380

C6orf155	-0.28568927	0.08523649	-2.21087236	
FBXO18	0.28567669	0.08524591	2.21076640	
PTCHD1	-0.28566031	0.08526174	-2.21062840	
RMND5A	0.28564991	0.08526751	2.21054074	yes
ZNF45	0.28562195	0.08530286	2.21030516	
FAM9C	-0.28555692	0.08540075	-2.20975719	yes
ISX	-0.28551504	0.08545964	-2.20940435	
LOC440419	-0.28544300	0.08555772	-2.20879744	
TRIM11	-0.28544426	0.08555772	-2.20880808	
LRP2	-0.28542400	0.08557456	-2.20863737	
ZW10	0.28541908	0.08557456	2.20859593	
C14orf166B	-0.28539067	0.08557764	-2.20835656	
LTA	-0.28540299	0.08557764	-2.20846035	
NACAP1	-0.28539405	0.08557764	-2.20838509	
MYOCD	-0.28538936	0.08557764	-2.20834552	
PRELID1	0.28535970	0.08560702	2.20809570	
FBXL15	-0.28535802	0.08560702	-2.20808157	
GDE1	0.28533022	0.08564222	2.20784738	
FMO3	0.28531758	0.08564317	2.20774093	
EDEM1	0.28531572	0.08564317	2.20772520	
LSM14A	0.28529373	0.08566342	2.20753997	
NETO1	-0.28528980	0.08566342	-2.20750689	
SIX3	-0.28526867	0.08568736	-2.20732891	
SLITRK2	-0.28516985	0.08584280	-2.20649655	
TXNDC3	-0.28510444	0.08594181	-2.20594566	
MAGEA8	-0.28509718	0.08594229	-2.20588458	
IK	0.28504136	0.08602514	2.20541441	
TRMT11	0.28501183	0.08606342	2.20516572	
UQCRB	0.28496437	0.08613214	2.20476610	
LRRC58	0.28491471	0.08620466	2.20434792	
KCNC4	-0.28489940	0.08620698	-2.20421905	
PAGE2B	-0.28490347	0.08620698	-2.20425330	
DSCAM	-0.28486954	0.08623671	-2.20396756	
C1orf97	0.28486798	0.08623671	2.20395441	
ALDH1L1	-0.28480649	0.08631173	-2.20343674	
NLGN1	-0.28478529	0.08631173	-2.20325825	
KRTAP19-2	-0.28479659	0.08631173	-2.20335334	
RDH14	0.28479598	0.08631173	2.20334821	
C14orf139	-0.28480489	0.08631173	-2.20342323	
ECE2	-0.28478205	0.08631173	-2.20323098	
NHLRC2	0.28476048	0.08633658	2.20304935	
DNAJB12	-0.28474540	0.08633947	-2.20292238	
ACTR3B	0.28474486	0.08633947	2.20291780	
STARD8	-0.28472818	0.08635601	-2.20277737	
C7orf33	-0.28467733	0.08643069	-2.20234930	
TNRC4	-0.28463864	0.08648472	-2.20202359	
IRAK1BP1	0.28460784	0.08652532	2.20176435	
CYP11A1	-0.28459442	0.08652803	-2.20165140	
C12orf40	-0.28459233	0.08652803	-2.20163380	
OR8A1	-0.28456750	0.08655848	-2.20142476	

RG9MTD1	0.28447339	0.08670711	2.20063259	
PTAR1	0.28440569	0.08681082	2.20006278	
SNORA5C	-0.28438124	0.08684070	-2.19985704	
NUP210L	-0.28435640	0.08687127	-2.19964792	yes
OR11A1	-0.28431656	0.08692747	-2.19931268	
ENTPD4	0.28429808	0.08693578	2.19915713	
KIAA0100	0.28429778	0.08693578	2.19915465	
PFN2	0.28428099	0.08695260	2.19901334	
ZNF197	0.28425633	0.08698289	2.19880578	
TSSC4	-0.28424340	0.08699311	-2.19869699	
PCBP1	0.28423451	0.08699641	2.19862220	
OR1M1	-0.28422313	0.08700399	-2.19852638	
HINT3	0.28420179	0.08701670	2.19834683	
REST	0.28420496	0.08701670	2.19837352	
KIFC2	-0.28419405	0.08701805	-2.19828170	
CD3EAP	-0.28413436	0.08707672	-2.19777947	
SLC35A4	0.28414042	0.08707672	2.19783043	
HMGB4	-0.28413484	0.08707672	-2.19778348	
FAM170B	-0.28413196	0.08707672	-2.19775926	
LUZP2	-0.28412072	0.08708407	-2.19766466	
PEG3	-0.28409574	0.08711493	-2.19745453	
FGF13	0.28408760	0.08711698	2.19738603	
ZC4H2	-0.28406805	0.08713856	-2.19722155	
SLC25A46	0.28405944	0.08714142	2.19714904	
C10orf78	0.28403346	0.08717402	2.19693048	
ZYG11B	0.28402093	0.08718359	2.19682503	
ADH7	0.28400557	0.08719664	2.19669586	
ROM1	-0.28399942	0.08719664	-2.19664409	
N6AMT1	0.28398757	0.08719867	2.19654439	
IRS2	-0.28398434	0.08719867	-2.19651725	
LOC100133383	-0.28395748	0.08723282	-2.19629122	
PARK7	0.28392007	0.08728504	2.19597655	
FAM164A	0.28389663	0.08731334	2.19577936	
LOC100133373	0.28386212	0.08736064	2.19548902	
TBCKL	0.28384291	0.08738170	2.19532739	
UBQLN1	0.28382374	0.08739078	2.19516614	
ZCCHC8	0.28382551	0.08739078	2.19518109	
COL6A1	-0.28378271	0.08744930	-2.19482104	yes
C5orf48	-0.28375474	0.08748542	-2.19458577	
MITD1	0.28368654	0.08754300	2.19401210	
FUCA2	0.28369260	0.08754300	2.19406314	
MRPS21	0.28369288	0.08754300	2.19406542	yes
RBKS	0.28369460	0.08754300	2.19407992	
SNRPE	0.28370259	0.08754300	2.19414717	
PVALB	-0.28367161	0.08755673	-2.19388657	
VASP	-0.28363953	0.08759996	-2.19361675	
C19orf67	-0.28361025	0.08763838	-2.19337052	
VPS45	0.28358997	0.08764940	2.19319997	
PCM1	0.28359364	0.08764940	2.19323083	
RB1	0.28357045	0.08767107	2.19303574	

C6orf64	0.28353800	0.08771497	2.19276289
B4GALNT2	-0.28351803	0.08772547	-2.19259494
KPNA5	0.28351903	0.08772547	2.19260338
FCF1	0.28350130	0.08774234	2.19245427
C17orf60	-0.28345991	0.08778174	-2.19210619
HTR1E	-0.28346138	0.08778174	-2.19211852
RXRB	-0.28345762	0.08778174	-2.19208698
LOC51233	-0.28343484	0.08779711	-2.19189541
YTHDF1	0.28343745	0.08779711	2.19191733
RLN3	-0.28341781	0.08781451	-2.19175218
IL28A	-0.28338366	0.08785431	-2.19146499
ZNFX1	0.28338085	0.08785431	2.19144142
UTP20	0.28336375	0.08787184	2.19129764
ATP5L	0.28327212	0.08795664	2.19052720
C9orf62	-0.28326908	0.08795664	-2.19050167
AADAT	0.28325916	0.08795664	2.19041827
CACNA1C	-0.28330613	0.08795664	-2.19081312
RPAP2	0.28328814	0.08795664	2.19066190
TM2D3	0.28328950	0.08795664	2.19067329
RNASE7	-0.28326595	0.08795664	-2.19047531
MS4A3	-0.28326816	0.08795664	-2.19049393
DNAJC14	0.28325144	0.08795804	2.19035330
KLF16	-0.28323750	0.08797014	-2.19023610
KIF7	-0.28317737	0.08806193	-2.18973061
LIN7B	-0.28313767	0.08811605	-2.18939688
LAPTM4A	0.28313218	0.08811605	2.18935073
MREG	0.28312403	0.08811817	2.18928224
FAM162A	0.28311695	0.08811846	2.18922269
EIF2B2	0.28310492	0.08812729	2.18912155
C17orf85	0.28307178	0.08817258	2.18884298
XRR1	0.28305291	0.08819323	2.18868434
ZNF33A	0.28302175	0.08823512	2.18842244
CXorf38	0.28300912	0.08824500	2.18831626
CBX7	-0.28299272	0.08824944	-2.18817845
PCDHGA2	-0.28299499	0.08824944	-2.18819749
LOC100130356	-0.28294352	0.08832256	-2.18776488
GALK1	-0.28293164	0.08833116	-2.18766501
CNKSR3	0.28288950	0.08839211	2.18731083
RASSF3	-0.28284803	0.08845193	-2.18696231
KIAA0841	-0.28278186	0.08854261	-2.18640619
UBR5	0.28278353	0.08854261	2.18642022
SST	-0.28274758	0.08859004	-2.18611816
PKIG	-0.28273155	0.08860585	-2.18598346
BCAP31	0.28271978	0.08861428	2.18588450
C9orf84	0.28268294	0.08864222	2.18557492
OR5B12	-0.28269489	0.08864222	-2.18567536
MUC4	0.28268454	0.08864222	2.18558841
LMTK2	0.28266024	0.08864989	2.18538422
RAP1B	0.28265779	0.08864989	2.18536360
BFSP1	-0.28266691	0.08864989	-2.18544025

LOC100129648	-0.28262408	0.08869639	-2.18508035	
KRTAP13-1	-0.28260531	0.08870498	-2.18492268	
KIAA1949	-0.28260844	0.08870498	-2.18494893	
KCNE3	0.28258442	0.08871727	2.18474714	
KIAA1881	-0.28258856	0.08871727	-2.18478191	
C2orf69	0.28252989	0.08879996	2.18428893	
SCTR	-0.28251783	0.08880252	-2.18418767	
JMJD5	-0.28251460	0.08880252	-2.18416049	
BBS12	0.28250012	0.08881235	2.18403881	
C1orf175	-0.28249513	0.08881235	-2.18399695	
JAKMIP1	-0.28242801	0.08891699	-2.18343301	
SC5DL	0.28241992	0.08891905	2.18336509	
NFASC	-0.28240510	0.08893282	-2.18324055	
PPPDE1	0.28239819	0.08893285	2.18318247	
ZNF273	0.28232123	0.08904850	2.18253601	
HMGCL	0.28231789	0.08904850	2.18250798	
APC	0.28230744	0.08905020	2.18242015	
KIF1A	-0.28230312	0.08905020	-2.18238386	
LOC100133388	-0.28228392	0.08907147	-2.18222259	yes
CYP19A1	-0.28227710	0.08907147	-2.18216530	
PIGS	0.28226247	0.08908494	2.18204239	
RRAGB	0.28222778	0.08908531	2.18175100	
MAGI3	0.28223372	0.08908531	2.18180093	
SFTPD	-0.28224831	0.08908531	-2.18192346	
UGT2B7	-0.28223807	0.08908531	-2.18183750	
FZD7	-0.28224706	0.08908531	-2.18191294	
LRRC28	0.28221378	0.08909768	2.18163340	
DRD1	-0.28219656	0.08911565	-2.18148884	
ZCCHC13	-0.28217693	0.08912584	-2.18132391	
TAS2R1	-0.28218134	0.08912584	-2.18136098	
FAM71E1	-0.28216601	0.08913285	-2.18123221	
C1orf122	-0.28213272	0.08917882	-2.18095262	
ACSL6	-0.28209771	0.08920773	-2.18065859	
C6orf15	-0.28208857	0.08920773	-2.18058185	
SNORA42	-0.28209595	0.08920773	-2.18064379	
SNORD113-3	-0.28209249	0.08920773	-2.18061472	
SQLE	0.28205795	0.08924909	2.18032468	
MYCBP	0.28198604	0.08936247	2.17972075	
FABP1	-0.28197769	0.08936502	-2.17965063	
CALY	-0.28194736	0.08940593	-2.17939594	
NR2C2AP	0.28185771	0.08951437	2.17864312	
CREG2	-0.28186335	0.08951437	-2.17869051	
TIA1	0.28187118	0.08951437	2.17875628	
BTBD6	-0.28186953	0.08951437	-2.17874244	
FASTKD3	0.28184721	0.08952068	2.17855500	
CDK6	0.28180630	0.08956811	2.17821148	
CASP2	0.28180862	0.08956811	2.17823094	
MGST1	0.28175578	0.08964438	2.17778735	
CNBD1	-0.28171264	0.08968373	-2.17742513	
LOC728545	-0.28172243	0.08968373	-2.17750730	

LOC80054	-0.28171680	0.08968373	-2.17746008	
SPN	-0.28166851	0.08974891	-2.17705463	
LOC257039	-0.28165280	0.08976163	-2.17692280	
COPS4	0.28164748	0.08976163	2.17687808	
C9orf61	-0.28163843	0.08976542	-2.17680217	
SPATA5L1	0.28161753	0.08978996	2.17662672	
ZNF385A	-0.28160788	0.08979481	-2.17654570	
CDC2L5	0.28152147	0.08993415	2.17582034	
EXOC3L	-0.28150477	0.08995137	-2.17568016	
LRRTM3	-0.28148983	0.08996027	-2.17555476	
PAK1IP1	0.28148121	0.08996027	2.17548235	
OR52N1	-0.28147906	0.08996027	-2.17546432	
RPS27AP17	-0.28146832	0.08996704	-2.17537418	
PDSS1	0.28141763	0.08997156	2.17494871	
ATXN10	0.28145135	0.08997156	2.17523173	
IL1F7	-0.28141789	0.08997156	-2.17495091	
C6orf66	0.28144996	0.08997156	2.17522010	
LOC440934	-0.28143035	0.08997156	-2.17505548	
PPP3CC	0.28144416	0.08997156	2.17517137	
GLT8D1	0.28143567	0.08997156	2.17510013	
VSX1	-0.28138909	0.08999750	-2.17470919	
PGM2	0.28139442	0.08999750	2.17475394	
OR5T2	-0.28136066	0.09003532	-2.17447056	
C12orf67	-0.28134432	0.09005194	-2.17433340	
BSPH1	-0.28125961	0.09018858	-2.17362251	
ZFP64	0.28123223	0.09022461	2.17339276	
LOC440015	-0.28121945	0.09023500	-2.17328546	
BBS4	0.28120986	0.09023978	2.17320502	
MRPL15	0.28118067	0.09026158	2.17296003	
C1orf110	0.28117685	0.09026158	2.17292801	yes
HIRIP3	-0.28117993	0.09026158	-2.17295388	
WIT1	-0.28116443	0.09027135	-2.17282375	
TAF5L	0.28108480	0.09039931	2.17215558	yes
NR1I3	-0.28106497	0.09042212	-2.17198921	
SNORD73A	0.28104452	0.09044604	2.17181760	
CPT1A	0.28102250	0.09044854	2.17163287	
PMPCA	0.28102677	0.09044854	2.17166870	
GRIA3	-0.28103585	0.09044854	-2.17174492	
HBXIP	0.28101489	0.09044986	2.17156901	
TWSG1	0.28094549	0.09055999	2.17098677	
SLC7A9	-0.28089938	0.09062915	-2.17059995	
DPRX	-0.28087210	0.09066515	-2.17037110	
MGAT4A	0.28084551	0.09068785	2.17014800	
ELF3	0.28084960	0.09068785	2.17018232	
TRAPPC5	-0.28081363	0.09071988	-2.16988057	
PIN1L	-0.28081591	0.09071988	-2.16989967	
SNORD36B	0.28074583	0.09081533	2.16931184	
SERPINB12	-0.28074801	0.09081533	-2.16933015	
PTRH2	0.28073136	0.09082263	2.16919050	
BPHL	0.28072797	0.09082263	2.16916208	

ZKSCAN2	-0.28069906	0.09086158	-2.16891957
FAM9B	-0.28068947	0.09086640	-2.16883912
CYP2C18	0.28067852	0.09087364	2.16874725
COQ6	0.28065377	0.09090525	2.16853968
ABCA5	0.28063776	0.09092143	2.16840536
CCDC91	0.28061178	0.09094310	2.16818752
XRCC3	-0.28061700	0.09094310	-2.16823125
TMEM188	0.28058239	0.09098294	2.16794100
NAALADL2	0.28055378	0.09102141	2.16770106
TIMM8B	0.28054618	0.09102273	2.16763734
THUMPD1	0.28051910	0.09105850	2.16741026
CHMP7	0.28050978	0.09106287	2.16733203
CHST4	0.28047335	0.09109146	2.16702653
GLA	0.28047589	0.09109146	2.16704783
MAGEB2	-0.28047307	0.09109146	-2.16702419
FAM40A	0.28043696	0.09114323	2.16672143
ELAVL4	-0.28042060	0.09114795	-2.16658418
NRL	-0.28042303	0.09114795	-2.16660454
QRICH1	0.28037054	0.09122447	2.16616442
FAM83B	0.28034426	0.09125421	2.16594410
LHX8	-0.28033320	0.09125421	-2.16585137
ZNF444	-0.28033664	0.09125421	-2.16588021
EPN1	-0.28030742	0.09128777	-2.16563515
TMEM178	-0.28027613	0.09132226	-2.16537280
DEFB134	-0.28027427	0.09132226	-2.16535720
NHLH2	-0.28025151	0.09135048	-2.16516638
LOC100132178	0.28022810	0.09137985	2.16497010
ONECUT1	-0.28016511	0.09146733	-2.16444198
C16orf13	-0.28016571	0.09146733	-2.16444702
LOC642864	-0.28014513	0.09149065	-2.16427447
UBE2W	0.28012396	0.09151608	2.16409702
C1orf182	-0.28009738	0.09152683	-2.16387417
AURKC	-0.28010038	0.09152683	-2.16389932
ARHGAP12	0.28010775	0.09152683	2.16396114
EPHA5	-0.28007753	0.09153053	-2.16370779
DSTYK	0.28007477	0.09153053	2.16368462
SENP6	0.28007767	0.09153053	2.16370899
PLAC1L	-0.28001538	0.09161719	-2.16318679
BBS10	0.28001230	0.09161719	2.16316101
PPP1R2	0.28000385	0.09162006	2.16309013
ADIPOQ	-0.27998063	0.09164917	-2.16289550
TAAR8	-0.27996773	0.09165995	-2.16278736
FBXL4	0.27990696	0.09174370	2.16227800
PNLIPRP2	-0.27990999	0.09174370	-2.16230340
SNORA71C	-0.27987194	0.09179384	-2.16198448
TMEM209	0.27985497	0.09181187	2.16184228
EMID2	-0.27984192	0.09182292	-2.16173294
CFHR5	-0.27983464	0.09182372	-2.16167188
IP6K2	0.27981598	0.09184476	2.16151552
GPR68	-0.27980162	0.09185816	-2.16139518

CLPX	0.27978571	0.09186733	2.16126182	
DMXL1	0.27978281	0.09186733	2.16123747	
CEMP1	-0.27976645	0.09188429	-2.16110036	
APLNR	-0.27973820	0.09190782	-2.16086363	
SEPP1	0.27973858	0.09190782	2.16086687	
FKSG83	-0.27972591	0.09190782	-2.16076067	
KBTBD7	0.27973122	0.09190782	2.16080516	
GABRA1	-0.27971405	0.09191660	-2.16066128	
ZNF436	0.27970732	0.09191660	2.16060488	
ISG20L2	0.27968971	0.09193027	2.16045730	
NUAK1	-0.27968600	0.09193027	-2.16042616	
CAPN12	-0.27966069	0.09196318	-2.16021414	
TPCN2	-0.27964281	0.09198289	-2.16006424	
CLDN14	-0.27960621	0.09203595	-2.15975756	
C14orf179	0.27958332	0.09206458	2.15956581	
LRP3	-0.27952146	0.09216277	-2.15904744	
GPR4	-0.27951356	0.09216468	-2.15898129	
RAI2	-0.27947824	0.09219461	-2.15868535	
PCDHA12	-0.27947826	0.09219461	-2.15868552	
LOC644083	-0.27947632	0.09219461	-2.15866927	
CRTC1	-0.27944164	0.09224434	-2.15837873	yes
WHSC1L1	0.27932194	0.09244610	2.15737590	
BEND3	-0.27931046	0.09245444	-2.15727969	
GSK3B	0.27929791	0.09246467	2.15717459	yes
MICAL3	-0.27922209	0.09257939	-2.15653943	
C2orf7	-0.27922018	0.09257939	-2.15652344	
DUSP10	0.27920310	0.09259777	2.15638037	
MOSPD2	0.27910850	0.09275509	2.15558806	
PCDH9	-0.27909392	0.09276900	-2.15546595	
GJA8	-0.27904768	0.09283974	-2.15507867	
FAM171A2	-0.27903831	0.09284431	-2.15500018	
OR3A2	-0.27902556	0.09285496	-2.15489336	
LPA	-0.27897637	0.09293103	-2.15448143	
CNNM1	-0.27891387	0.09301882	-2.15395807	
CTR9	0.27891693	0.09301882	2.15398364	
TNKS	0.27885725	0.09310838	2.15348388	
OR52I2	-0.27882308	0.09313304	-2.15319776	
GPR142	-0.27882954	0.09313304	-2.15325187	
LRP11	0.27882724	0.09313304	2.15323259	
SPTBN5	-0.27880616	0.09315121	-2.15305609	
AK5	-0.27877781	0.09318997	-2.15281869	
C8orf74	-0.27874928	0.09320901	-2.15257986	
RSPO1	-0.27874870	0.09320901	-2.15257502	
TMEM48	0.27874677	0.09320901	2.15255881	
P11	-0.27869523	0.09328955	-2.15212732	
OR2B6	-0.27865717	0.09334585	-2.15180864	
BCL9	-0.27858602	0.09346186	-2.15121301	
FGF16	-0.27857178	0.09347526	-2.15109375	
C18orf26	-0.27855171	0.09349917	-2.15092575	
MYADML2	-0.27853072	0.09352475	-2.15075002	

CCT8L1	-0.27848749	0.09357819	-2.15038815	
C7orf46	0.27848895	0.09357819	2.15040037	
LCAT	-0.27846587	0.09360491	-2.15020723	
SPINK2	-0.27844505	0.09363023	-2.15003289	
C9orf142	-0.27842463	0.09365480	-2.14986200	yes
NUDT2	0.27841513	0.09365965	2.14978246	
NEK1	0.27840259	0.09367000	2.14967752	
PDC	-0.27833909	0.09377248	-2.14914605	
RFX4	-0.27833090	0.09377497	-2.14907747	
FCN1	-0.27831356	0.09379401	-2.14893236	
VPS8	0.27821663	0.09395715	2.14812114	
C3orf34	0.27820203	0.09397126	2.14799895	
RFNG	-0.27816576	0.09402463	-2.14769544	
RPL36	-0.27809133	0.09414727	-2.14707257	
TAAR1	-0.27804533	0.09418129	-2.14668763	
APOF	-0.27804847	0.09418129	-2.14671390	
PSAP	0.27806110	0.09418129	2.14681956	
SHARPIN	-0.27805498	0.09418129	-2.14676842	
ARFGEF2	0.27803756	0.09418302	2.14662264	
ATP10B	0.27797822	0.09427839	2.14612615	
STXBP5	0.27795776	0.09430320	2.14595489	
UNC50	0.27794488	0.09431256	2.14584718	
RDH16	-0.27793898	0.09431256	-2.14579779	
PRKD1	-0.27789586	0.09437656	-2.14543701	
PHLDA2	-0.27789014	0.09437656	-2.14538918	
ZCCHC7	0.27785772	0.09442312	2.14511798	
MAST3	-0.27784289	0.09442533	-2.14499389	
SPI1	-0.27784291	0.09442533	-2.14499403	
DOC2A	-0.27783170	0.09443331	-2.14490023	
LOC120364	-0.27778916	0.09449829	-2.14454441	
COPS5	0.27777801	0.09450621	2.14445109	
DBP	-0.27772285	0.09455951	-2.14398970	
TTPAL	0.27772986	0.09455951	2.14404829	
NOL4	-0.27772150	0.09455951	-2.14397834	
RPL14	0.27773822	0.09455951	2.14411827	
ANGPTL3	-0.27771007	0.09456490	-2.14388273	
UPK2	-0.27770493	0.09456490	-2.14383975	
UBE2E1	0.27769338	0.09457353	2.14374315	
DDHD1	0.27767841	0.09457603	2.14361790	
SLC10A7	0.27767866	0.09457603	2.14362005	
ST8SIA3	-0.27766548	0.09458717	-2.14350982	
UNQ9419	-0.27764771	0.09460715	-2.14336115	
OR52N2	-0.27759042	0.09469911	-2.14288197	
EYA1	0.27755328	0.09475442	2.14257128	
SLC16A10	-0.27752531	0.09477276	-2.14233740	
DVL1	-0.27752415	0.09477276	-2.14232767	
C18orf8	0.27752282	0.09477276	2.14231655	
EIF2C3	0.27748624	0.09478584	2.14201065	
DEFB121	-0.27748517	0.09478584	-2.14200170	
ASTL	-0.27748681	0.09478584	-2.14201536	

MYL7	-0.27748166	0.09478584	-2.14197231	
RUVBL1	0.27749857	0.09478584	2.14211371	
ATCD1	-0.27744286	0.09484045	-2.14164781	
RLTPR	-0.27743812	0.09484045	-2.14160822	
LRRFIP2	0.27742653	0.09484921	2.14151124	
ZNF683	-0.27740908	0.09486864	-2.14136537	
SNX32	-0.27734625	0.09497093	-2.14083989	
TUBB3	-0.27731907	0.09497094	-2.14061265	
MRPL35	0.27732966	0.09497094	2.14070119	
C15orf23	0.27733245	0.09497094	2.14072448	
LOC90826	0.27732187	0.09497094	2.14063604	
RTN4RL1	-0.27729104	0.09500517	-2.14037828	
MKLN1	0.27728285	0.09500517	2.14030980	
GAB2	-0.27727996	0.09500517	-2.14028557	
WSCD2	-0.27725660	0.09503542	-2.14009029	
LHX6	-0.27723890	0.09503942	-2.13994231	
CWC22	0.27724215	0.09503942	2.13996944	
CAMK2B	-0.27722727	0.09503942	-2.13984500	
MAPKAPK5	0.27723253	0.09503942	2.13988904	
SEC24B	0.27716442	0.09511706	2.13931953	
CLCN3	0.27716513	0.09511706	2.13932543	
TMEM150	-0.27716823	0.09511706	-2.13935136	yes
ASPHD1	-0.27714231	0.09514507	-2.13913465	
TMEM131	0.27712344	0.09515476	2.13897691	yes
C14orf169	-0.27712580	0.09515476	-2.13899665	
IGF1R	0.27708862	0.09520604	2.13868578	
DSCAML1	-0.27705991	0.09523593	-2.13844580	
RPS16	0.27705871	0.09523593	2.13843574	
SSTR1	-0.27701359	0.09530608	-2.13805855	
CCT4	0.27697509	0.09535174	2.13773670	
KIAA1797	0.27697859	0.09535174	2.13776596	
TRIM72	-0.27696653	0.09535499	-2.13766518	
FRYL	0.27694654	0.09537918	2.13749807	
CCDC144NL	-0.27693660	0.09538498	-2.13741494	
GIP	-0.27691484	0.09541242	-2.13723305	
MPZL3	0.27690360	0.09541369	2.13713914	
WAPAL	0.27690059	0.09541369	2.13711392	
SLC30A10	-0.27688607	0.09542787	-2.13699258	
ELF2	0.27686947	0.09544586	2.13685384	
MARK4	-0.27684515	0.09547801	-2.13665055	
GPR120	-0.27681779	0.09549091	-2.13642187	
LMBRD1	0.27681874	0.09549091	2.13642976	
GPBP1	0.27682648	0.09549091	2.13649445	
C14orf102	0.27677922	0.09554921	2.13609946	
MT1IP	-0.27676039	0.09555888	-2.13594213	
PCDH20	0.27676242	0.09555888	2.13595904	
SYNE2	0.27674396	0.09556614	2.13580481	
LOC389199	-0.27674289	0.09556614	-2.13579586	
ARID3C	-0.27671887	0.09559777	-2.13559512	
UPB1	-0.27668844	0.09560344	-2.13534075	

GOLPH3L	0.27669416	0.09560344	2.13538857	yes
YWHAH	0.27669090	0.09560344	2.13536132	
PRAC	-0.27668194	0.09560344	-2.13528647	
CTSF	-0.27670067	0.09560344	-2.13544296	
SELM	-0.27667448	0.09560471	-2.13522410	yes
TRUB2	0.27665915	0.09562042	2.13509597	
ZNF383	0.27661926	0.09563785	2.13476264	
NSMCE2	0.27662789	0.09563785	2.13483474	
HABP2	-0.27662963	0.09563785	-2.13484928	
RPS6KB1	0.27660906	0.09563785	2.13467744	
C16orf57	-0.27660908	0.09563785	-2.13467759	
SNAP23	0.27661927	0.09563785	2.13476273	
CSTB	0.27655558	0.09571117	2.13423053	yes
PTRF	-0.27656165	0.09571117	-2.13428124	yes
KCNH5	-0.27643845	0.09591393	-2.13325173	
TUBB4	-0.27639279	0.09598546	-2.13287026	
GPATCH2	0.27637766	0.09600084	2.13274387	
ZNF227	0.27636216	0.09601693	2.13261434	
ARHGAP5	0.27633748	0.09603745	2.13240819	
SGK1	0.27634418	0.09603745	2.13246413	
CRTAC1	-0.27631775	0.09604888	-2.13224335	
ATCAY	-0.27631877	0.09604888	-2.13225182	
HDGF2	-0.27629801	0.09607278	-2.13207839	
C1orf147	-0.27623918	0.09616678	-2.13158693	
DLGAP1	-0.27623345	0.09616678	-2.13153903	
ATP5C1	0.27618530	0.09624305	2.13113681	
LOC399744	-0.27617174	0.09625558	-2.13102358	
TLE2	-0.27611949	0.09633947	-2.13058714	
MAP3K14	-0.27611082	0.09634300	-2.13051468	
SMNDC1	0.27608311	0.09638166	2.13028320	
RNF19B	0.27601638	0.09649238	2.12972586	
SPG20	0.27599824	0.09651341	2.12957433	
SPRR2F	-0.27598804	0.09651976	-2.12948919	
TRDN	-0.27595937	0.09654013	-2.12924971	
UBLCP1	0.27596714	0.09654013	2.12931462	
HSPA5	0.27595675	0.09654013	2.12922783	
SPHK2	-0.27594931	0.09654139	-2.12916571	
PRMT3	0.27590154	0.09660470	2.12876677	
BOP1	-0.27590539	0.09660470	-2.12879890	
PPIF	0.27588787	0.09661750	2.12865256	
RSBN1L	0.27586655	0.09664442	2.12847457	
TCTEX1D1	0.27585604	0.09665137	2.12838680	
ALOX15	0.27583865	0.09666885	2.12824156	
HOXA7	-0.27582634	0.09666885	-2.12813871	
ZNF502	0.27583254	0.09666885	2.12819054	
IL17A	-0.27578448	0.09673379	-2.12778917	
MYCL1	-0.27576631	0.09675493	-2.12763742	
ASB5	-0.27573712	0.09679645	-2.12739370	
CSMD3	-0.27569161	0.09679850	-2.12701368	
SAMD8	0.27569005	0.09679850	2.12700066	

IFT81	0.27569548	0.09679850	2.12704604	
C16orf80	0.27569212	0.09679850	2.12701795	
CD300E	-0.27570099	0.09679850	-2.12709202	
SPEM1	-0.27568878	0.09679850	-2.12699010	
OR6K3	-0.27568977	0.09679850	-2.12699835	
C7orf63	0.27568182	0.09679891	2.12693194	
LOC100129737	-0.27567048	0.09680741	-2.12683728	
SFTA2	-0.27564697	0.09683845	-2.12664100	
FUT5	-0.27563413	0.09684975	-2.12653376	
USP30	0.27561926	0.09686480	2.12640957	
SPACA4	-0.27556193	0.09695733	-2.12593094	
NBL1	-0.27555582	0.09695733	-2.12587995	
SPIN3	-0.27553807	0.09696525	-2.12573174	
HS3ST5	-0.27554146	0.09696525	-2.12576007	
PREP	0.27550610	0.09701202	2.12546483	
TDRKH	-0.27542902	0.09713094	-2.12482136	
ERMAP	-0.27542850	0.09713094	-2.12481703	
ANKS4B	-0.27540052	0.09717035	-2.12458350	
ZNF706	0.27537788	0.09719988	2.12439448	
FAM178A	0.27534505	0.09724231	2.12412041	
ADIPOR2	0.27534155	0.09724231	2.12409124	
C20orf186	-0.27529600	0.09727686	-2.12371102	
VPS53	0.27529803	0.09727686	2.12372793	
PSME1	0.27531469	0.09727686	2.12386705	
TMOD1	-0.27530658	0.09727686	-2.12379935	
MVP	0.27521977	0.09740602	2.12307477	
FAM46B	-0.27521129	0.09740927	-2.12300397	
OR1L8	-0.27518251	0.09743775	-2.12276375	
LOC387745	-0.27518820	0.09743775	-2.12281128	
POLB	0.27516303	0.09746146	2.12260116	
GPR31	-0.27514754	0.09747456	-2.12247192	
OAZ3	-0.27513578	0.09747456	-2.12237379	
AMAC1L3	-0.27513952	0.09747456	-2.12240495	
MYLK	-0.27510358	0.09752196	-2.12210502	
TAF1C	-0.27508999	0.09753472	-2.12199162	
DBN1	-0.27507497	0.09755015	-2.12186628	yes
C4orf36	0.27505762	0.09756992	2.12172145	
WDR5	-0.27502451	0.09760441	-2.12144515	
HPN	-0.27502700	0.09760441	-2.12146596	
MDC1	-0.27501891	0.09760441	-2.12139842	
MIA2	-0.27498578	0.09762850	-2.12112203	
ABC5	-0.27499459	0.09762850	-2.12119555	
C9	-0.27498589	0.09762850	-2.12112294	
BYSL	0.27494433	0.09769320	2.12077612	
FAM171B	-0.27491859	0.09772863	-2.12056134	
KCNRG	0.27489416	0.09776163	2.12035752	
LOC645805	0.27487187	0.09779064	2.12017155	
DLK2	-0.27484281	0.09783231	-2.11992903	yes
SOX12	-0.27483015	0.09784337	-2.11982347	
CCDC80	0.27470467	0.09805256	2.11877654	

ZNF695	-0.27470697	0.09805256	-2.11879571
CSF3R	-0.27466971	0.09810532	-2.11848492
KCTD16	-0.27461722	0.09818216	-2.11804703
SNAP29	0.27461517	0.09818216	2.11802996
EFCAB7	0.27459456	0.09820814	2.11785799
C1orf151	0.27457909	0.09822451	2.11772895
POFUT1	0.27455780	0.09825176	2.11755140
PIWIL3	-0.27448782	0.09836734	-2.11696766
ESAM	-0.27448263	0.09836734	-2.11692435
CLIC6	0.27446291	0.09839169	2.11675986
RRP7B	-0.27443215	0.09843673	-2.11650335
CECR2	-0.27441333	0.09845699	-2.11634637
LIN7A	-0.27440789	0.09845699	-2.11630103
KIF4B	-0.27433487	0.09858135	-2.11569201
LYNX1	-0.27431804	0.09860031	-2.11555167
SCLT1	0.27430425	0.09861359	2.11543662
LOC145757	-0.27427587	0.09865423	-2.11520003
LOC646891	-0.27426020	0.09865841	-2.11506933
ZNF623	0.27426368	0.09865841	2.11509832
LOC146429	-0.27425054	0.09866393	-2.11498879
CHRNA2	-0.27423703	0.09867669	-2.11487606
NBPF10	0.27422125	0.09869369	2.11474453
STAG1	0.27418903	0.09872619	2.11447586
SHANK2	-0.27419201	0.09872619	-2.11450068
ADAM21	-0.27418380	0.09872619	-2.11443218
RAB38	0.27416848	0.09872972	2.11430448
SMYD2	0.27417045	0.09872972	2.11432088
IDUA	-0.27414982	0.09875216	-2.11414889
CECR4	-0.27412054	0.09879455	-2.11390477
RBM12	0.27410234	0.09881614	2.11375301
ROR2	-0.27408656	0.09883319	-2.11362139
PTPN13	0.27407290	0.09884624	2.11350752
SLC38A9	0.27406369	0.09885094	2.11343071
C7orf23	0.27403367	0.09889476	2.11318043
TNPO1	0.27396091	0.09901903	2.11257384
TMEM219	-0.27394180	0.09903608	-2.11241448
FAM20C	-0.27393843	0.09903608	-2.11238637
NLRP5	-0.27392193	0.09905450	-2.11224886
OR52A4	-0.27390175	0.09907987	-2.11208061
GPR126	-0.27388254	0.09910341	-2.11192046
DYDC1	0.27385174	0.09914880	2.11166370
MRGPRX2	-0.27382234	0.09919138	-2.11141859
LSM3	0.27381443	0.09919138	2.11135269
RPL35P1	-0.27380901	0.09919138	-2.11130751
TDRD5	-0.27377794	0.09923730	-2.11104855
SEMA3C	0.27376041	0.09924507	2.11090238
C1orf83	0.27376241	0.09924507	2.11091908
RPL18AP6	-0.27374541	0.09926069	-2.11077739
MTM1	0.27373791	0.09926220	2.11071483
SPINK4	-0.27372150	0.09926704	-2.11057809

C9orf156	0.27372673	0.09926704	2.11062164
CREBZF	0.27371522	0.09926704	2.11052573
IFT74	0.27369344	0.09929547	2.11034419
STX18	0.27366748	0.09933179	2.11012784
MOBKL2C	-0.27365323	0.09934604	-2.11000901
ADAM20	0.27355955	0.09951026	2.10922826
LOC100133337	0.27350444	0.09958474	2.10876898
C21orf84	-0.27350733	0.09958474	-2.10879307
ICOSLG	-0.27349250	0.09958474	-2.10866950
LOC348840	-0.27347992	0.09958474	-2.10856467
EIF3E	0.27349427	0.09958474	2.10868427
LPXN	0.27348527	0.09958474	2.10860926
CLNS1A	0.27344905	0.09961776	2.10830741
WIZ	-0.27345341	0.09961776	-2.10834378
THEM5	-0.27331274	0.09986306	-2.10717162
SCARA3	-0.27328366	0.09987526	-2.10692927
EXOSC4	-0.27327950	0.09987526	-2.10689462
ZNF143	0.27329354	0.09987526	2.10701161
ALG2	0.27328626	0.09987526	2.10695098
C10orf31	-0.27327086	0.09987893	-2.10682266
LEAP2	-0.27319296	0.10000998	-2.10617364
BMP2	-0.27318832	0.10000998	-2.10613501
SLC35D2	0.27315229	0.10001481	2.10583480
OR4N5	-0.27317383	0.10001481	-2.10601427
MRE11A	0.27315416	0.10001481	2.10585037
PRPH	-0.27315489	0.10001481	-2.10585643
NR1I2	-0.27316035	0.10001481	-2.10590196
PALM	-0.27312032	0.10006275	-2.10556846
DNAJA1	0.27305854	0.10016728	2.10505385
CRY1	0.27303414	0.10020090	2.10485059
C11orf85	-0.27294842	0.10035108	-2.10413655
HADH	0.27288103	0.10045380	2.10357520
MLLT10	0.27288378	0.10045380	2.10359811
FCHSD2	0.27280290	0.10058982	2.10292446
CYP4V2	0.27276959	0.10064052	2.10264709
SLC22A14	-0.27276213	0.10064197	-2.10258497
DDB1	0.27275457	0.10064361	2.10252201
HSP90AA1	0.27274007	0.10065849	2.10240122
CHCHD2	0.27270821	0.10070645	2.10213594
NUDT17	-0.27269820	0.10071279	-2.10205252
FOXO4	-0.27268361	0.10072489	-2.10193103
DMRTA2	-0.27267846	0.10072489	-2.10188815
SLC37A2	-0.27267008	0.10072811	-2.10181838
ACTRT1	-0.27266222	0.10073034	-2.10175289
PLAGL2	0.27263620	0.10074441	2.10153626
BTD	0.27263476	0.10074441	2.10152429
CBLN1	-0.27264634	0.10074441	-2.10162066
NKIRAS1	0.27261092	0.10077713	2.10132571
CDK5R1	-0.27259229	0.10079989	-2.10117064
NET1	0.27251347	0.10090555	2.10051430

OR5D13	-0.27251018	0.10090555	-2.10048690
NOL8	0.27252665	0.10090555	2.10062409
ACTG2	-0.27251729	0.10090555	-2.10054613
PIM2	0.27245989	0.10094683	2.10006820
OR5M9	-0.27245512	0.10094683	-2.10002853
KLHL8	0.27247378	0.10094683	2.10018382
SNX6	0.27247982	0.10094683	2.10023412
RFX1	-0.27245724	0.10094683	-2.10004611
ZNF621	0.27244811	0.10094746	2.09997009
TNFSF13	-0.27243809	0.10095382	-2.09988672
SPANXN1	-0.27242176	0.10095948	-2.09975076
hCG_1983896	-0.27242546	0.10095948	-2.09978158
KRTAP5-10	-0.27239526	0.10099732	-2.09953016
CLDN10	0.27237277	0.10102753	2.09934289
CLN8	0.27233030	0.10109593	2.09898931
PCDHB9	-0.27231783	0.10110700	-2.09888548
FFAR1	-0.27230541	0.10111797	-2.09878212
LEFTY1	-0.27227121	0.10116594	-2.09849744
SERPINF1	0.27226697	0.10116594	2.09846208
CCBL2	0.27225273	0.10117118	2.09834361
RNASE2	-0.27225087	0.10117118	-2.09832806
TTC27	0.27219214	0.10127076	2.09783922
MAGEB4	-0.27218303	0.10127541	-2.09776339
KCNQ3	-0.27217355	0.10128078	-2.09768448
hCG_2019139	-0.27215493	0.10130364	-2.09752950
C2orf30	0.27211167	0.10137369	2.09716945
NUP93	0.27208879	0.10140474	2.09697894
CCDC132	0.27206786	0.10140646	2.09680480
CARD18	-0.27206822	0.10140646	-2.09680779
TAF1D	0.27207008	0.10140646	2.09682328
OPN1LW	-0.27202898	0.10146818	-2.09648118
C1orf131	0.27198823	0.10150630	2.09614203
NEU2	-0.27197508	0.10150630	-2.09603264
SCYL3	0.27196905	0.10150630	2.09598243
SNORA9	-0.27200084	0.10150630	-2.09624695
CSRNP3	-0.27198431	0.10150630	-2.09610939
SETDB2	0.27197591	0.10150630	2.09603953
DNA2	0.27195106	0.10152800	2.09583271
PIK3R4	0.27189571	0.10161503	2.09537206
PPBP	-0.27189235	0.10161503	-2.09534409
PDF	-0.27186835	0.10164827	-2.09514441
PNLIPRP3	-0.27184673	0.10167698	-2.09496446
SIRT5	0.27182421	0.10170665	2.09477708
PIP5K1A	0.27181158	0.10170665	2.09467204
C9orf64	0.27181126	0.10170665	2.09466936
C3orf58	0.27176297	0.10178658	2.09426755
SNORD26	0.27169817	0.10189831	2.09372838
HS1BP3	-0.27165371	0.10197101	-2.09335842
WDFY2	0.27163077	0.10199419	2.09316755
MYH6	-0.27162832	0.10199419	-2.09314721

CXorf61	-0.27161955	0.10199823	-2.09307427	
UBXN2A	0.27159845	0.10202296	2.09289873	
PPP2R2D	0.27159337	0.10202296	2.09285642	
OR56A3	-0.27156009	0.10207418	-2.09257959	
UCN	-0.27153612	0.10209466	-2.09238017	
KIAA0317	0.27153943	0.10209466	2.09240770	yes
DYNC1I2	0.27152100	0.10211094	2.09225439	
STYK1	0.27149633	0.10214562	2.09204917	
CRYGC	-0.27144662	0.10220289	-2.09163558	
IRF2BP2	-0.27145328	0.10220289	-2.09169102	
SDK2	-0.27144760	0.10220289	-2.09164377	
GRID1	-0.27139518	0.10228919	-2.09120774	
VAV3	0.27138642	0.10229324	2.09113484	
RPLP1P3	-0.27137685	0.10229885	-2.09105523	
NUDCD1	0.27135124	0.10233539	2.09084221	
SKIV2L2	0.27131855	0.10237275	2.09057033	
MYOG	-0.27131920	0.10237275	-2.09057573	
KRT8	0.27130115	0.10239346	2.09042563	
ARL10	-0.27125999	0.10246005	-2.09008329	yes
ISM2	-0.27124068	0.10248448	-2.08992268	
TACR1	-0.27122653	0.10249895	-2.08980497	
PARP14	0.27120784	0.10252217	2.08964956	
HEATR7B2	-0.27119591	0.10253236	-2.08955033	
TRIM4	0.27118205	0.10254628	2.08943503	
RRAGD	0.27115505	0.10257271	2.08921051	
GGCT	0.27115940	0.10257271	2.08924667	
KLHL2	0.27112272	0.10258618	2.08894168	
ARSH	-0.27114005	0.10258618	-2.08908579	
KLRC3	0.27109908	0.10258618	2.08874503	
FLJ43692	0.27108819	0.10258618	2.08865451	
HPCAL4	-0.27111743	0.10258618	-2.08889766	
FAM110A	-0.27110368	0.10258618	-2.08878335	
BRMS1L	0.27112304	0.10258618	2.08894435	
SGCE	-0.27109297	0.10258618	-2.08869429	
RG9MTD2	0.27108998	0.10258618	2.08866937	
MKRN1	0.27107038	0.10260774	2.08850638	
ADA	-0.27105756	0.10260834	-2.08839979	
NIPBL	0.27103682	0.10260834	2.08822736	
ANAPC4	0.27104961	0.10260834	2.08833366	
WDR59	0.27103889	0.10260834	2.08824458	
KRTAP4-12	-0.27103800	0.10260834	-2.08823714	
STX6	0.27100363	0.10264680	2.08795132	
SFRS6	0.27100661	0.10264680	2.08797610	
SUV420H2	-0.27096245	0.10271354	-2.08760895	
PNLIP	-0.27094842	0.10271848	-2.08749227	
TMEM126A	0.27094661	0.10271848	2.08747719	
SUGT1	0.27091507	0.10276186	2.08721501	
C6orf195	-0.27090091	0.10276186	-2.08709723	
OTUD1	0.27089760	0.10276186	2.08706973	
SOD1	0.27089788	0.10276186	2.08707208	yes

KIF16B	0.27087583	0.10277828	2.08688869	
FIGNL1	0.27088189	0.10277828	2.08693915	
BOK	-0.27086739	0.10278174	-2.08681858	
GPR179	-0.27085657	0.10278983	-2.08672861	
ALPP	-0.27083688	0.10281507	-2.08656492	
LOC440957	0.27082260	0.10281701	2.08644618	
SOX13	-0.27082626	0.10281701	-2.08647660	
RP11-345P4.4	0.27079805	0.10285166	2.08624209	
PXT1	-0.27077420	0.10288498	-2.08604377	
ZNF576	-0.27076437	0.10289115	-2.08596208	
NT5C3L	-0.27074162	0.10292235	-2.08577292	
NLRP3	-0.27072734	0.10293715	-2.08565419	
ANKAR	0.27071437	0.10294940	2.08554642	
UTP11L	0.27068990	0.10297635	2.08534295	
TBX4	-0.27068719	0.10297635	-2.08532043	
SMUG1	0.27066995	0.10297881	2.08517710	
AKIRIN2	0.27066601	0.10297881	2.08514440	
UCK2	0.27067435	0.10297881	2.08521372	
BIRC2	0.27065477	0.10298774	2.08505093	
IFNA5	-0.27061888	0.10304442	-2.08475260	
MPP7	0.27056564	0.10309619	2.08431006	
MYH3	-0.27056887	0.10309619	-2.08433690	
ADIPOR1	0.27057793	0.10309619	2.08441225	yes
VTCN1	0.27058257	0.10309619	2.08445077	
SNORA58	-0.27055335	0.10310715	-2.08420791	
SLFN12	0.27053661	0.10312675	2.08406877	
RFC5	0.27048925	0.10319787	2.08367512	
TFDP2	0.27048668	0.10319787	2.08365374	
TEX15	-0.27047593	0.10320586	-2.08356441	
ITIH5L	-0.27046782	0.10320872	-2.08349705	
PTX3	-0.27042618	0.10327665	-2.08315096	
DDX60	0.27035118	0.10340399	2.08252761	
LOC729974	-0.27034734	0.10340399	-2.08249574	
RAB21	0.27033856	0.10340818	2.08242274	
C8orf12	-0.27032715	0.10341747	-2.08232795	
ATP6V1E1	0.27031862	0.10341787	2.08225703	
DGAT2	-0.27031369	0.10341787	-2.08221608	
IL10RB	0.27029608	0.10342634	2.08206975	
TRPM7	0.27029805	0.10342634	2.08208610	
GNG12	0.27026586	0.10347218	2.08181865	
THEM2	0.27025909	0.10347248	2.08176232	
KIAA1467	0.27024945	0.10347834	2.08168224	
MS4A8B	0.27020711	0.10354777	2.08133041	
DPPA2	-0.27019666	0.10355521	-2.08124360	
PRKAA2	0.27018950	0.10355625	2.08118411	
AGTPBP1	0.27014449	0.10363093	2.08081007	
LOC441242	0.27012113	0.10366348	2.08061605	
PHF6	0.27010989	0.10367248	2.08052261	
CLEC12B	-0.27009713	0.10368441	-2.08041664	
FBXW7	0.27006341	0.10373717	2.08013645	

ZNF510	0.26998184	0.10388318	2.07945876
OR5T1	-0.26996139	0.10391014	-2.07928885
C6orf146	-0.26993109	0.10395631	-2.07903712
FLJ45455	-0.26991653	0.10397179	-2.07891618
MRPL14	0.26985766	0.10407375	2.07842711
TRAIP	-0.26984376	0.10408795	-2.07831167
BMPR1B	0.26982951	0.10410285	2.07819330
OSTC	0.26980474	0.10413828	2.07798756
ARHGEF3	0.26979565	0.10414311	2.07791207
SNORD74	0.26974524	0.10422095	2.07749330
PIGB	0.26974256	0.10422095	2.07747112
ECM1	-0.26972734	0.10422484	-2.07734465
GSTM5	-0.26972932	0.10422484	-2.07736110
CBX5	0.26970322	0.10424157	2.07714434
LOC390424	-0.26969447	0.10424157	-2.07707163
ATP1A2	-0.26969231	0.10424157	-2.07705375
SKIL	0.26969489	0.10424157	2.07707515
BCO2	0.26968545	0.10424206	2.07699676
KIF2A	0.26967579	0.10424801	2.07691651
ERBB4	-0.26964207	0.10426223	-2.07663642
OR5A2	-0.26965402	0.10426223	-2.07673567
LOC338797	-0.26966136	0.10426223	-2.07679663
TNFSF8	-0.26964530	0.10426223	-2.07666330
THYN1	0.26960157	0.10430262	2.07630012
SCARNA8	-0.26961001	0.10430262	-2.07637016
OGT	0.26960421	0.10430262	2.07632200
SLC7A14	-0.26959492	0.10430271	-2.07624486
OR4C16	-0.26958283	0.10430664	-2.07614441
TMEM145	-0.26957969	0.10430664	-2.07611839
TOPBP1	0.26951857	0.10437544	2.07561075
REEP3	0.26951808	0.10437544	2.07560670
PCDHB8	0.26952106	0.10437544	2.07563145
PLA2G10	0.26952418	0.10437544	2.07565739
RASA2	0.26950676	0.10438466	2.07551269
MCM10	-0.26948696	0.10441046	-2.07534828
INTS8	0.26943908	0.10449121	2.07495073
USP4	0.26942988	0.10449630	2.07487428
LOC100129345	-0.26939099	0.10453422	-2.07455134
C1orf223	-0.26939070	0.10453422	-2.07454893
GPR153	-0.26940329	0.10453422	-2.07465350
TUBGCP4	0.26937729	0.10453461	2.07443763
COPS7A	0.26938309	0.10453461	2.07448578
C7orf59	-0.26929056	0.10469156	-2.07371750
ZNF785	-0.26927739	0.10470443	-2.07360813
ACTN1	-0.26924854	0.10474805	-2.07336860
ZNF280B	-0.26921989	0.10474863	-2.07313077
CCRL1	-0.26922127	0.10474863	-2.07314221
C4orf43	0.26922932	0.10474863	2.07320907
LRRC40	0.26923898	0.10474863	2.07328921
LATS1	0.26921524	0.10474863	2.07309218

RMI1	0.26918313	0.10479866	2.07282556	
SH3BP1	-0.26913861	0.10487306	-2.07245594	
ZC3H4	-0.26912573	0.10487607	-2.07234905	
HYAL3	-0.26912388	0.10487607	-2.07233367	
GSDMB	0.26907672	0.10495568	2.07194218	
KREMEN2	-0.26905238	0.10499052	-2.07174017	
KRTAP10-3	-0.26904405	0.10499393	-2.07167099	
RTP4	0.26901198	0.10504397	2.07140477	
LOC100127980	0.26897880	0.10509621	2.07112935	
LOC100131554	-0.26894526	0.10511028	-2.07085098	
ZP1	-0.26895010	0.10511028	-2.07089116	
HIST1H1T	-0.26895039	0.10511028	-2.07089356	
OR51B2	-0.26896258	0.10511028	-2.07099470	
RASGEF1C	-0.26892153	0.10512572	-2.07065401	
ZNF398	0.26890534	0.10512572	2.07051965	yes
ACTN4	0.26890757	0.10512572	2.07053814	
PPIL4	0.26892830	0.10512572	2.07071017	
TELO2	-0.26890445	0.10512572	-2.07051222	
ANTXRL	-0.26886185	0.10517736	-2.07015866	
FBXO46	-0.26886258	0.10517736	-2.07016473	
CLRN2	-0.26885841	0.10517736	-2.07013013	
RAD51L1	0.26884058	0.10519946	2.06998214	
LOC284379	-0.26880011	0.10526610	-2.06964628	
BEAN	-0.26877488	0.10528983	-2.06943686	
PPIA	0.26877879	0.10528983	2.06946931	
MFI2	-0.26875488	0.10530326	-2.06927090	
UBE2L3	0.26875588	0.10530326	2.06927920	
FH	0.26873637	0.10532671	2.06911732	
ZNF154	-0.26869200	0.10540110	-2.06874910	
OR2D3	-0.26867176	0.10540987	-2.06858108	
USP36	-0.26866779	0.10540987	-2.06854819	
TBC1D15	0.26867175	0.10540987	2.06858105	
B4GALNT1	-0.26865962	0.10541299	-2.06848042	
CARS	0.26863718	0.10544423	2.06829415	
PCDHB12	-0.26861607	0.10547284	-2.06811902	
LOC100129876	-0.26858610	0.10551892	-2.06787035	
C9orf131	-0.26854941	0.10557828	-2.06756584	
LILRA4	-0.26853061	0.10560237	-2.06740985	
FTSJD1	0.26848852	0.10566352	2.06706065	
USP48	0.26848644	0.10566352	2.06704337	
SERBP1	0.26847278	0.10567748	2.06693007	
HMG20A	0.26843539	0.10573813	2.06661989	
GABRG1	-0.26842889	0.10573813	-2.06656590	
L1TD1	-0.26838888	0.10580412	-2.06623397	
BRWD1	0.26830727	0.10595237	2.06555691	
KYNU	0.26828296	0.10598740	2.06535532	
C14orf143	0.26827498	0.10599017	2.06528913	
C18orf55	0.26824090	0.10604457	2.06500634	
GK2	-0.26821703	0.10607876	-2.06480842	
OR13C2	-0.26820646	0.10608442	-2.06472073	

C10orf88	0.26820101	0.10608442	2.06467554	
COG3	0.26819151	0.10609021	2.06459671	
SLC35A1	0.26817206	0.10611089	2.06443534	
FHL3	-0.26816509	0.10611089	-2.06437752	
PCSK5	0.26816133	0.10611089	2.06434637	yes
STX3	0.26811224	0.10619504	2.06393921	
FTH1	0.26807015	0.10623750	2.06359008	
PGBD2	0.26806450	0.10623750	2.06354323	
NFKBID	-0.26807826	0.10623750	-2.06365739	
MBD3L1	-0.26806786	0.10623750	-2.06357109	
CDH17	-0.26802913	0.10628960	-2.06324986	
MAGI2	-0.26802506	0.10628960	-2.06321609	
RBMS1	-0.26800513	0.10630324	-2.06305079	
SSR1	0.26800503	0.10630324	2.06304997	
LOC100131401	-0.26794875	0.10639155	-2.06258325	
LOC284900	-0.26794732	0.10639155	-2.06257142	
PTPN3	0.26792394	0.10642489	2.06237750	
GABRA2	-0.26791019	0.10643913	-2.06226347	
CRISP3	-0.26788912	0.10644183	-2.06208872	
C6orf191	-0.26789883	0.10644183	-2.06216923	
GDF1	-0.26788934	0.10644183	-2.06209053	
ACSM1	-0.26784525	0.10648568	-2.06172498	
OR51L1	-0.26782959	0.10648568	-2.06159508	
SH2D1A	0.26782940	0.10648568	2.06159348	
MBTD1	0.26782212	0.10648568	2.06153317	
PRSS27	-0.26784235	0.10648568	-2.06170089	
MAGT1	0.26782104	0.10648568	2.06152419	
C1orf94	-0.26785414	0.10648568	-2.06179870	
ZNF618	-0.26777511	0.10656379	-2.06114333	
GPR20	-0.26774213	0.10661622	-2.06086989	
GLRA3	-0.26772383	0.10663014	-2.06071811	
CAT	0.26771833	0.10663014	2.06067257	
RICS	0.26771543	0.10663014	2.06064849	yes
TMEM220	0.26769816	0.10664166	2.06050531	yes
PROK2	-0.26769650	0.10664166	-2.06049156	
RRN3	0.26766558	0.10667701	2.06023515	
CAPZB	0.26767033	0.10667701	2.06027459	
DCAKD	0.26763728	0.10672018	2.06000056	
RAB8A	0.26761388	0.10675364	2.05980657	
ISM1	-0.26759752	0.10675879	-2.05967089	
ALOX12P2	0.26758867	0.10675879	2.05959751	
C9orf47	-0.26759063	0.10675879	-2.05961380	
CD1B	-0.26758505	0.10675879	-2.05956757	
ATP1B4	-0.26755241	0.10678134	-2.05929693	
HPGD	0.26756491	0.10678134	2.05940059	
CCDC73	-0.26755995	0.10678134	-2.05935947	
HOMER2	-0.26754748	0.10678134	-2.05925605	
IWS1	0.26752241	0.10681813	2.05904825	
ENPP6	-0.26746644	0.10691640	-2.05858424	
USP53	0.26744633	0.10693032	2.05841755	

CAPZA3	-0.26745027	0.10693032	-2.05845018	
ZFR	0.26739563	0.10700513	2.05799724	
NAPB	0.26739746	0.10700513	2.05801248	
VPS13A	0.26736711	0.10701358	2.05776088	
SBNO1	0.26736517	0.10701358	2.05774478	
COQ9	0.26737583	0.10701358	2.05783319	
ZFP14	0.26736691	0.10701358	2.05775919	
NDUFS4	0.26735726	0.10701629	2.05767920	
VN1R5	-0.26733404	0.10703657	-2.05748676	
USO1	0.26733396	0.10703657	2.05748614	
RARRES2	-0.26730132	0.10708852	-2.05721558	
LOC147727	0.26728339	0.10709816	2.05706692	
POLN	-0.26728816	0.10709816	-2.05710652	
SIAH1	0.26727057	0.10711063	2.05696071	
GOLGA5	0.26726099	0.10711668	2.05688128	
UGT2B10	-0.26725439	0.10711679	-2.05682655	
ENTPD2	-0.26722243	0.10716741	-2.05656169	
POLA1	0.26719104	0.10721692	2.05630152	
CSF1	-0.26715186	0.10726814	-2.05597682	
RNASE9	-0.26714570	0.10726814	-2.05592579	
NEK4	0.26715522	0.10726814	2.05600466	yes
C11orf72	-0.26713892	0.10726860	-2.05586965	
TMEM61	-0.26711736	0.10729856	-2.05569090	
GPIHBP1	-0.26704994	0.10741999	-2.05513226	
C2orf60	0.26702219	0.10746232	2.05490229	
SPAG1	0.26700022	0.10749312	2.05472024	yes
ABCG5	-0.26695043	0.10757951	-2.05430763	
C2orf61	-0.26694046	0.10758636	-2.05422502	
TMEM218	0.26692707	0.10758695	2.05411413	
PRDX6	0.26693172	0.10758695	2.05415265	
NUDT16	-0.26691471	0.10759858	-2.05401168	
AP4B1	0.26689994	0.10760348	2.05388933	
UGT2A1	0.26689917	0.10760348	2.05388297	
MSL3	0.26688169	0.10762535	2.05373811	yes
PLEKHA3	0.26686916	0.10763733	2.05363426	
GABARAPL2	0.26685646	0.10764963	2.05352906	
ESPN	-0.26684101	0.10766744	-2.05340107	
FANCI	0.26676131	0.10781378	2.05274074	
CCR5	-0.26671574	0.10789190	-2.05236327	
EGFLAM	-0.26666008	0.10799030	-2.05190214	
MUTED	0.26664554	0.10800632	2.05178171	
LGI2	-0.26658076	0.10812310	-2.05124506	
PSD	-0.26652693	0.10821798	-2.05079918	
SMAP1	0.26649000	0.10827899	2.05049331	
AADA4L4	-0.26647068	0.10830464	-2.05033334	
HDAC7	-0.26644253	0.10834806	-2.05010015	
C10orf62	-0.26641892	0.10838235	-2.04990464	
CR1	-0.26639086	0.10841246	-2.04967222	
JARID1A	0.26639292	0.10841246	2.04968927	
KPNB1	0.26634726	0.10848697	2.04931111	

ADAMTS6	-0.26630601	0.10855679	-2.04896948	
KCNN4	-0.26626228	0.10863162	-2.04860741	
LRFN2	-0.26622977	0.10868393	-2.04833813	
DTX3L	0.26621679	0.10869689	2.04823069	
PDHX	0.26620304	0.10871141	2.04811682	
CETN3	0.26617595	0.10871330	2.04789251	
CLK1	0.26618216	0.10871330	2.04794397	
DPPA5	-0.26618175	0.10871330	-2.04794052	
ARHGAP18	0.26619278	0.10871330	2.04803183	
PIGM	0.26616260	0.10872702	2.04778200	
LOC100133325	-0.26613122	0.10877707	-2.04752216	
GPR149	-0.26611020	0.10879309	-2.04734809	
MGAT3	-0.26611468	0.10879309	-2.04738515	
CCBE1	-0.26609078	0.10881510	-2.04718726	
DNAJC13	0.26608621	0.10881510	2.04714946	
F2RL1	0.26607547	0.10882358	2.04706054	
FKBP6	-0.26604163	0.10887863	-2.04678031	
BNIP3L	0.26602952	0.10888987	2.04668007	
PGA5	-0.26599766	0.10894094	-2.04641631	
PHYH	0.26597481	0.10897386	2.04622716	
CALM1	0.26594881	0.10901314	2.04601189	
CLDN11	-0.26593756	0.10902268	-2.04591870	yes
RGAG1	-0.26591820	0.10904856	-2.04575845	
MAD2L1	-0.26590084	0.10907042	-2.04561474	
FAM71F2	-0.26582197	0.10921594	-2.04496185	
C5orf39	0.26581573	0.10921594	2.04491023	
ZDHHC17	0.26579618	0.10922148	2.04474836	
OR6C6	-0.26579340	0.10922148	-2.04472536	
TRNT1	0.26579515	0.10922148	2.04473987	
EXOC8	0.26576693	0.10926178	2.04450626	
SEC14L4	-0.26574233	0.10929831	-2.04430265	
MYO7A	-0.26572685	0.10931641	-2.04417452	
FREQ	-0.26571063	0.10933265	-2.04404022	
IL19	-0.26569610	0.10933265	-2.04391997	
NPAT	0.26568893	0.10933265	2.04386065	
HSPB11	0.26568619	0.10933265	2.04383794	
SLCO1A2	-0.26570083	0.10933265	-2.04395911	
OR2T11	-0.26566191	0.10934871	-2.04363694	
MYL4	-0.26565868	0.10934871	-2.04361021	
CPA6	-0.26566642	0.10934871	-2.04367430	
BTBD9	0.26563648	0.10936723	2.04342647	yes
PPCDC	-0.26564204	0.10936723	-2.04347254	
JAK1	0.26560564	0.10941640	2.04317128	
OR6C1	-0.26559374	0.10942728	-2.04307281	
AOC3	-0.26557905	0.10944381	-2.04295123	
DLG4	-0.26554976	0.10948991	-2.04270876	
TMEM67	0.26553718	0.10950217	2.04260467	
OR4A16	-0.26553015	0.10950319	-2.04254653	
CCDC125	0.26551616	0.10951832	2.04243072	
LOC100129278	-0.26550748	0.10952269	-2.04235889	

RCVRN	-0.26545498	0.10961582	-2.04192441	
INTS5	-0.26544778	0.10961720	-2.04186482	
SNRNP40	0.26542770	0.10964467	2.04169869	
CLIC1	0.26541284	0.10966157	2.04157572	
ERCC8	0.26537172	0.10973171	2.04123543	
VPS37A	0.26534903	0.10975317	2.04104770	
LOC728606	-0.26534810	0.10975317	-2.04104001	
UNC93A	-0.26533784	0.10976076	-2.04095509	
ATF7IP	0.26522538	0.10997575	2.04002462	
ARHGEF12	0.26519728	0.11000721	2.03979213	
VPS37C	-0.26519686	0.11000721	-2.03978863	
TNFRSF11B	-0.26518444	0.11001892	-2.03968589	
TIMP3	-0.26517806	0.11001892	-2.03963312	
EVI5L	-0.26515577	0.11005097	-2.03944869	
OR2AG1	-0.26514619	0.11005720	-2.03936941	
ARHGAP10	-0.26513239	0.11006213	-2.03925526	
ORMDL1	0.26513074	0.11006213	2.03924157	
IQSEC2	-0.26510004	0.11010085	-2.03898767	
LOC388965	-0.26509865	0.11010085	-2.03897617	
USP37	0.26505661	0.11017309	2.03862833	
GMEB2	-0.26502112	0.11023202	-2.03833477	
PARP9	0.26499284	0.11027631	2.03810083	
MBTPS1	0.26497902	0.11028629	2.03798654	
CRIPT	0.26497491	0.11028629	2.03795249	
PDP2	0.26494688	0.11033008	2.03772066	
HAO2	-0.26493199	0.11033627	-2.03759748	
YWHAE	0.26493082	0.11033627	2.03758781	yes
CLEC4M	-0.26492425	0.11033639	-2.03753346	
HIPK1	0.26489696	0.11037869	2.03730778	
RPS24	0.26488234	0.11039521	2.03718684	
UBE2B	0.26486786	0.11041144	2.03706709	
ANKRD12	0.26485107	0.11041913	2.03692820	
PAFAH1B2	0.26485700	0.11041913	2.03697720	
BBOX1	0.26481081	0.11047790	2.03659516	
LENG9	-0.26480921	0.11047790	-2.03658192	
ZBTB7A	-0.26476443	0.11055266	-2.03621161	
ZFAND5	0.26475951	0.11055266	2.03617088	
CACNG2	-0.26472411	0.11057697	-2.03587810	
TMEM68	0.26473261	0.11057697	2.03594840	
PABPC5	-0.26471506	0.11057697	-2.03580329	
CDC37L1	0.26473103	0.11057697	2.03593540	
CHPF	-0.26471699	0.11057697	-2.03581926	
PLEKHO1	-0.26466163	0.11067266	-2.03536146	
C4orf42	0.26465252	0.11067798	2.03528611	
TYSND1	-0.26462940	0.11071188	-2.03509492	
HBM	-0.26460906	0.11072685	-2.03492672	
TM7SF3	0.26461420	0.11072685	2.03496922	
FAM89A	-0.26460069	0.11073067	-2.03485750	
RNASE1	-0.26457914	0.11074812	-2.03467927	yes
STAC	-0.26458210	0.11074812	-2.03470380	

HNRNPA3P1	-0.26455430	0.11078555	-2.03447388
LEPROT	0.26453018	0.11080825	2.03427446
PRPF38A	0.26453202	0.11080825	2.03428970
ZNF670	0.26449425	0.11086834	2.03397740
LSM14B	-0.26445252	0.11094032	-2.03363236
TSSK6	-0.26442055	0.11099238	-2.03336802
SAMD10	-0.26437702	0.11106811	-2.03300808
NF1	0.26433097	0.11114901	2.03262740
SNORA51	-0.26428412	0.11123162	-2.03224007
AZI1	-0.26424018	0.11129500	-2.03187680
VWA5B2	-0.26424497	0.11129500	-2.03191640
DAOA	-0.26413566	0.11148260	-2.03101281
RGS9	-0.26414135	0.11148260	-2.03105980
ARR3	-0.26412799	0.11148501	-2.03094941
WBSCR22	0.26410522	0.11148907	2.03076119
OR52A1	-0.26410002	0.11148907	-2.03071820
OR6C74	-0.26410727	0.11148907	-2.03077812
C14orf162	-0.26410718	0.11148907	-2.03077742
SUPT16H	0.26407056	0.11153618	2.03047470
TRAF3IP2	0.26404221	0.11158102	2.03024038
ARMC8	0.26401349	0.11161462	2.03000300
ATP9B	0.26401285	0.11161462	2.02999774
IGHV7-81	-0.26399695	0.11162060	-2.02986631
TYR	-0.26400256	0.11162060	-2.02991269
OR2K2	-0.26395319	0.11169711	-2.02950467
KIF5C	-0.26391661	0.11175892	-2.02920235
VAMP3	0.26388527	0.11179707	2.02894331
KNTC1	0.26388507	0.11179707	2.02894162
SEC31B	-0.26380342	0.11195161	-2.02826693
CASQ1	-0.26378971	0.11196646	-2.02815362
MDGA2	-0.26376853	0.11196997	-2.02797857
HSPA12A	-0.26377037	0.11196997	-2.02799378
MAP1LC3A	-0.26377026	0.11196997	-2.02799287
PRRG2	-0.26373342	0.11202885	-2.02768851
GARNL3	-0.26372517	0.11203247	-2.02762033
OTUD6B	0.26370727	0.11205596	2.02747242
MTO1	0.26368462	0.11208520	2.02728521
NSUN2	0.26368009	0.11208520	2.02724784
CDR1	-0.26364727	0.11213943	-2.02697665
SH3D19	0.26363460	0.11214004	2.02687194
PATE2	-0.26363400	0.11214004	-2.02686697
ST6GAL2	-0.26356371	0.11227153	-2.02628621
TPRKB	0.26355591	0.11227421	2.02622183
DCUN1D1	0.26352065	0.11232017	2.02593050
OR5H2	-0.26352455	0.11232017	-2.02596270
CTSL3	-0.26349935	0.11233735	-2.02575449
PANK2	0.26350098	0.11233735	2.02576797
CCR10	-0.26342072	0.11247283	-2.02510493
AMIGO1	-0.26342203	0.11247283	-2.02511578
MST150	-0.26339960	0.11250303	-2.02493049

CKAP2L	-0.26338192	0.11252615	-2.02478443	
SNORD102	0.26336438	0.11254899	2.02463951	
CA7	-0.26331353	0.11264065	-2.02421948	
KIAA1826	0.26330254	0.11264996	2.02412869	
SSX9	-0.26328552	0.11267174	-2.02398810	
PRAMEF2	-0.26327247	0.11268531	-2.02388030	
ZNF268	0.26323650	0.11269069	2.02358323	
ADAMTS17	-0.26325556	0.11269069	-2.02374063	
NAP5	-0.26325789	0.11269069	-2.02375987	
ILF3	0.26323397	0.11269069	2.02356233	
LRRN1	0.26323872	0.11269069	2.02360152	
NUP85	0.26323097	0.11269069	2.02353753	
OR51A2	-0.26322362	0.11269249	-2.02347682	
SNX3	0.26321633	0.11269416	2.02341663	
LDOC1	-0.26318915	0.11273696	-2.02319212	
LOC388946	-0.26318101	0.11274038	-2.02312493	
PRIM1	0.26312822	0.11283618	2.02268890	
EBI3	-0.26305006	0.11297537	-2.02204342	
tAKR	-0.26304803	0.11297537	-2.02202660	
ELK3	0.26299796	0.11301639	2.02161312	
LOC222699	-0.26299583	0.11301639	-2.02159556	
RICTOR	0.26300839	0.11301639	2.02169926	
PDE4B	-0.26301729	0.11301639	-2.02177279	
ACYP1	0.26299636	0.11301639	2.02159998	
ACOT6	-0.26298603	0.11302327	-2.02151465	
MAS1L	-0.26292022	0.11314624	-2.02097121	
ZNF548	0.26290858	0.11315695	2.02087510	
SNAPC2	-0.26287148	0.11322045	-2.02056877	yes
SLC8A2	-0.26279422	0.11336738	-2.01993079	
LOC100129624	-0.26275449	0.11343643	-2.01960282	
HEBP2	0.26274271	0.11344746	2.01950553	yes
CRTAM	-0.26273145	0.11345739	-2.01941257	
DHX33	0.26266318	0.11358584	2.01884894	
SSBP3	-0.26260327	0.11364984	-2.01835437	
C1orf53	-0.26260003	0.11364984	-2.01832765	
SNORA6	-0.26261933	0.11364984	-2.01848695	
TP11	0.26260442	0.11364984	2.01836389	
CDC5L	0.26260583	0.11364984	2.01837551	
PPP2R1A	0.26258988	0.11365748	2.01824385	
RBM45	0.26258076	0.11365875	2.01816854	
PCDHGA3	-0.26257261	0.11365875	-2.01810125	
RTN4	0.26256985	0.11365875	2.01807849	
RHOG	-0.26254449	0.11369805	-2.01786916	
C19orf46	-0.26249342	0.11377742	-2.01744754	
MAT2A	0.26249744	0.11377742	2.01748073	
FMN2	-0.26248587	0.11377967	-2.01738521	
CTSO	0.26247010	0.11378555	2.01725507	
NECAB2	-0.26247508	0.11378555	-2.01729614	
RPL22L1	0.26243902	0.11383679	2.01699856	
IDH3B	0.26242164	0.11385951	2.01685511	

NRBP2	-0.26240110	0.11388883	-2.01668555	
HEATR4	-0.26237098	0.11392487	-2.01643698	
GPR123	-0.26237087	0.11392487	-2.01643601	
F2	-0.26232657	0.11400371	-2.01607043	
CCDC25	0.26231830	0.11400747	2.01600218	
GNRHR	-0.26229605	0.11402948	-2.01581851	
FEZ1	-0.26229481	0.11402948	-2.01580831	yes
CXorf23	0.26227503	0.11405724	2.01564507	
C6orf123	-0.26216486	0.11427370	-2.01473581	
TH	-0.26214772	0.11429598	-2.01459443	
GRAMD1B	0.26212876	0.11432209	2.01443793	
MCRS1	0.26208978	0.11438228	2.01411627	
PPP2CB	0.26208702	0.11438228	2.01409354	
RAB3GAP1	0.26204303	0.11446072	2.01373057	
LOC100133316	-0.26198990	0.11455836	-2.01329214	
RALY	0.26194501	0.11463879	2.01292175	
TNS1	-0.26190901	0.11470063	-2.01262478	
TBC1D9	0.26187977	0.11474835	2.01238351	
SIRT6	-0.26184928	0.11479870	-2.01213194	
KLHL33	-0.26183690	0.11481108	-2.01202987	
DARS	0.26178643	0.11490335	2.01161350	
ATF7IP2	0.26177206	0.11491994	2.01149491	
MAP2K5	0.26175010	0.11495244	2.01131377	
LOC257358	-0.26170416	0.11503530	-2.01093477	
TNRC6B	0.26168357	0.11505136	2.01076500	
HAGH	-0.26168371	0.11505136	-2.01076609	
NCOR2	-0.26167559	0.11505455	-2.01069913	
MIER1	0.26163327	0.11512985	2.01035003	
IFI27L2	-0.26160203	0.11518190	-2.01009236	
FBXO7	0.26159333	0.11518660	2.01002060	
DYNC1LI2	0.26156481	0.11519334	2.00978540	
GANC	0.26157800	0.11519334	2.00989422	
ZNF790	0.26156290	0.11519334	2.00976966	
NBN	0.26156262	0.11519334	2.00976731	
RPL15	0.26155780	0.11519334	2.00972761	
C7orf29	-0.26152640	0.11521859	-2.00946862	
C6orf70	0.26152800	0.11521859	2.00948182	
PABPN1	-0.26153149	0.11521859	-2.00951060	
SLC31A2	-0.26151132	0.11523672	-2.00934423	
TMEM86A	-0.26147084	0.11527053	-2.00901034	
C3orf54	-0.26148375	0.11527053	-2.00911684	
C14orf45	0.26147421	0.11527053	2.00903814	
RTN4IP1	0.26146294	0.11527053	2.00894523	
MTMR2	0.26146570	0.11527053	2.00896795	
C6orf108	0.26142032	0.11532412	2.00859370	
C17orf68	-0.26142697	0.11532412	-2.00864858	
FNDC1	-0.26141808	0.11532412	-2.00857527	
BCMO1	-0.26139198	0.11536544	-2.00836001	
C6orf48	0.26136825	0.11538820	2.00816430	
SYK	0.26137354	0.11538820	2.00820791	

GAPDHS	-0.26134198	0.11542988	-2.00794768
SHISA3	-0.26133113	0.11543914	-2.00785819
SLC20A2	0.26131813	0.11545292	2.00775097
C14orf135	0.26130943	0.11545764	2.00767923
CEACAM6	0.26129733	0.11546953	2.00757944
C5orf24	0.26124435	0.11556748	2.00714258
OR4F15	-0.26123263	0.11557143	-2.00704593
CTPS2	0.26122957	0.11557143	2.00702070
MRPL55	-0.26120574	0.11560802	-2.00682426
C10orf65	-0.26117550	0.11564456	-2.00657485
LOC645106	-0.26117781	0.11564456	-2.00659391
PARD3	0.26115713	0.11566966	2.00642345
HEY2	0.26114605	0.11567942	2.00633210
INPP4A	0.26108739	0.11578948	2.00584845
GDA	0.26104989	0.11585497	2.00553929
PCDHB17	-0.26103248	0.11587811	-2.00539570
NAGS	-0.26100519	0.11592209	-2.00517074
JAK2	0.26099097	0.11593849	2.00505350
PASD1	-0.26097320	0.11595276	-2.00490697
BIVM	0.26097131	0.11595276	2.00489145
RSL1D1	0.26094765	0.11598911	2.00469636
CNR1	-0.26091234	0.11605007	-2.00440526
CXorf26	0.26088365	0.11608713	2.00416879
PRKY	0.26088190	0.11608713	2.00415435
NAB2	-0.26081550	0.11618659	-2.00360702
STIM2	0.26082007	0.11618659	2.00364466
PVR	-0.26082283	0.11618659	-2.00366747
CLEC12A	-0.26078034	0.11621288	-2.00331719
PTPN23	-0.26077728	0.11621288	-2.00329203
TDRD1	-0.26079071	0.11621288	-2.00340267
SLK	0.26078873	0.11621288	2.00338634
PDZRN3	-0.26070391	0.11634082	-2.00268730
FOXP2	0.26070433	0.11634082	2.00269075
SDC4	0.26069080	0.11635493	2.00257921
IL1B	-0.26066658	0.11639256	-2.00237958
HOOK1	0.26065123	0.11641142	2.00225305
TFCP2	0.26059949	0.11650734	2.00182667
SLC17A8	-0.26056444	0.11654665	-2.00153778
PHF11	0.26056716	0.11654665	2.00156022
ERMP1	0.26056161	0.11654665	2.00151451
CTSH	0.26053251	0.11659467	2.00127468
TRIM47	-0.26050695	0.11663520	-2.00106404
OR10AD1	-0.26047449	0.11669037	-2.00079656
LOR	-0.26046776	0.11669099	-2.00074108
FCHO1	-0.26045447	0.11669185	-2.00063159
C9orf5	0.26045859	0.11669185	2.00066556
NTAN1	-0.26042147	0.11674819	-2.00035965
ANP32E	0.26038939	0.11680260	2.00009532
KRT71	-0.26036748	0.11683544	-1.99991476
NROB1	-0.26031608	0.11693091	-1.99949127

IL7	0.26028685	0.11697933	1.99925042	
HSPE1	0.26023443	0.11707705	1.99881858	
ZSCAN2	-0.26022548	0.11708239	-1.99874482	
NFATC1	-0.26020879	0.11710420	-1.99860728	
SF3A3	0.26019716	0.11711524	1.99851146	
FAM176A	-0.26018399	0.11711585	-1.99840303	
FAM131B	-0.26018931	0.11711585	-1.99844686	
EDN2	-0.26016301	0.11712348	-1.99823020	
RPL41	0.26017244	0.11712348	1.99830786	
ZDHHC6	0.26016110	0.11712348	1.99821439	
KCNAB3	-0.26007571	0.11729147	-1.99751097	
GPR85	-0.26004479	0.11734360	-1.99725626	
MRPL13	0.26002543	0.11737112	1.99709683	
GOLSYN	0.25993550	0.11754908	1.99635602	
TM9SF4	0.25992330	0.11756137	1.99625552	
KLHDC6	-0.25989058	0.11760202	-1.99598603	
STT3A	0.25987850	0.11760202	1.99588652	
PCDHAC2	-0.25989021	0.11760202	-1.99598301	
BEND5	0.25988147	0.11760202	1.99591101	
PPIE	0.25985045	0.11763587	1.99565553	
HIVEP1	0.25984976	0.11763587	1.99564987	
FKBP1B	-0.25979493	0.11772578	-1.99519828	
SCCPDH	0.25979476	0.11772578	1.99519690	
DNAJC7	0.25978723	0.11772813	1.99513487	
CEP120	0.25976818	0.11773387	1.99497795	
MR1	0.25977618	0.11773387	1.99504385	
PRICKLE3	-0.25976525	0.11773387	-1.99495380	
BTBD16	-0.25966534	0.11791261	-1.99413108	
TMEM59L	-0.25967179	0.11791261	-1.99418414	
RAP1A	0.25966227	0.11791261	1.99410580	
CWC15	0.25964667	0.11793221	1.99397734	
GEFT	-0.25962687	0.11796079	-1.99381429	yes
HIST1H4J	-0.25960735	0.11798877	-1.99365356	
LIN54	0.25958832	0.11801279	1.99349680	
AP3B1	0.25958326	0.11801279	1.99345517	
TMEM161B	0.25957376	0.11801936	1.99337694	
IFT57	0.25954402	0.11806078	1.99313202	
PLCZ1	-0.25954154	0.11806078	-1.99311165	
GEMIN5	0.25953262	0.11806611	1.99303818	
FUNDC2	0.25949016	0.11814156	1.99268855	
FAM103A1	0.25948450	0.11814156	1.99264201	
ZNF556	-0.25946825	0.11816259	-1.99250818	
HEMGN	-0.25944177	0.11820553	-1.99229013	
BCAP29	0.25935754	0.11837219	1.99159667	
MFSD11	0.25932290	0.11843268	1.99131148	
C19orf60	-0.25927409	0.11852358	-1.99090968	
FAM33A	0.25925627	0.11854802	1.99076300	
LOC100133346	0.25923915	0.11857096	1.99062208	
MINA	0.25922381	0.11859009	1.99049582	
RNASEN	0.25918943	0.11865010	1.99021280	

OR1K1	-0.25914296	0.11873610	-1.98983030	
C21orf56	-0.25911895	0.11877388	-1.98963267	
MARK1	0.25909258	0.11881675	1.98941559	
UBE2N	0.25908083	0.11882820	1.98931885	
CDAN1	-0.25905742	0.11883708	-1.98912622	
LOC25845	-0.25906441	0.11883708	-1.98918369	
LOC729808	-0.25906007	0.11883708	-1.98914798	
MRPL22	0.25903167	0.11885357	1.98891429	
C15orf62	-0.25903182	0.11885357	-1.98891549	
BTF3	0.25902919	0.11885357	1.98889388	
TRPC5	-0.25902406	0.11885357	-1.98885161	
MCM4	0.25894651	0.11899274	1.98821335	
TGM5	-0.25895160	0.11899274	-1.98825523	
KRT85	-0.25893890	0.11899529	-1.98815073	
TNFRSF11A	-0.25891863	0.11902509	-1.98798390	
SEPHS1	0.25889060	0.11903471	1.98775325	
WDR27	0.25888323	0.11903471	1.98769261	
CPNE7	-0.25889207	0.11903471	-1.98776530	
MRPS33	0.25890403	0.11903471	1.98786378	
SLC25A31	-0.25888206	0.11903471	-1.98768299	
TRIM62	-0.25887137	0.11904391	-1.98759497	
SNORD50B	0.25886191	0.11905045	1.98751715	
MTERFD2	0.25880008	0.11916976	1.98700832	
FAM48A	0.25878044	0.11919824	1.98684668	
C6orf10	-0.25876069	0.11921642	-1.98668416	
RAB22A	0.25875916	0.11921642	1.98667165	
TLR3	0.25873298	0.11925902	1.98645615	
VAT1	-0.25868278	0.11934518	-1.98604313	
GABRR1	-0.25866734	0.11934518	-1.98591610	
LYPD5	-0.25867438	0.11934518	-1.98597397	
BTN2A3	-0.25867058	0.11934518	-1.98594273	yes
RFC3	0.25864867	0.11937160	1.98576250	
REV3L	0.25862519	0.11940842	1.98556925	
CCDC106	-0.25857835	0.11949563	-1.98518390	
MTFMT	0.25856135	0.11950464	1.98504401	
FAM102B	0.25856730	0.11950464	1.98509298	
EIF2B5	0.25853591	0.11951802	1.98483473	
CD1E	-0.25854725	0.11951802	-1.98492807	
CLCA2	0.25854046	0.11951802	1.98487213	
IARS2	0.25849579	0.11959078	1.98450467	
PKD1L3	0.25845612	0.11966261	1.98417831	
TRAK1	0.25844675	0.11966900	1.98410123	
ACCN1	-0.25841774	0.11970398	-1.98386258	
RBL2	0.25841797	0.11970398	1.98386445	
CCDC53	0.25836830	0.11979698	1.98345586	
C16orf86	-0.25834851	0.11982590	-1.98329310	
LOC100132005	-0.25830403	0.11990123	-1.98292723	
GYLTL1B	-0.25830086	0.11990123	-1.98290116	
TUBA8	-0.25823017	0.12004036	-1.98231968	
PPP2R5E	0.25821937	0.12004986	1.98223088	

GBAS	0.25818483	0.12010010	1.98194678	
MCCD1	-0.25816929	0.12010010	-1.98181898	
LOC441239	-0.25817434	0.12010010	-1.98186049	
PTGFRN	0.25816413	0.12010010	1.98177649	
COLEC12	-0.25816818	0.12010010	-1.98180981	
TEX11	-0.25814154	0.12013515	-1.98159071	
SCUBE3	-0.25813162	0.12014275	-1.98150918	
NUP62	0.25807349	0.12022423	1.98103108	
ZBTB8OS	0.25806840	0.12022423	1.98098920	
C6orf222	-0.25807971	0.12022423	-1.98108222	
LRP1B	-0.25807794	0.12022423	-1.98106769	
VAMP4	0.25801985	0.12031561	1.98058992	
YY1AP1	-0.25801121	0.12032044	-1.98051893	
NCRNA00095	-0.25798615	0.12036092	-1.98031281	
ANKRD42	0.25796313	0.12039696	1.98012354	
ABCA4	-0.25792856	0.12039829	-1.97983929	
CNOT6L	0.25792001	0.12039829	1.97976896	
SYF2	0.25791130	0.12039829	1.97969734	
C22orf28	0.25791729	0.12039829	1.97974659	
ZNF287	0.25792430	0.12039829	1.97980420	
MRPS24	-0.25791613	0.12039829	-1.97973701	
CCDC61	-0.25793891	0.12039829	-1.97992439	
GGPS1	0.25793480	0.12039829	1.97989054	
CIB4	-0.25785392	0.12050893	-1.97922549	
PANX3	-0.25784090	0.12050942	-1.97911842	
SMAD1	0.25784647	0.12050942	1.97916429	
NUP35	0.25780268	0.12057850	1.97880421	
AGL	0.25775563	0.12066682	1.97841734	
LOC340096	-0.25773945	0.12068807	-1.97828432	
DNAJB14	0.25767566	0.12081285	1.97775989	
ITPA	0.25765167	0.12083810	1.97756269	
HSP90B1	0.25764486	0.12083810	1.97750666	
ZNF300	0.25764796	0.12083810	1.97753214	
FAM119B	-0.25761634	0.12088623	-1.97727219	
THY1	-0.25758417	0.12094232	-1.97700773	yes
BCS1L	0.25754353	0.12101688	1.97667367	
HSPH1	0.25749962	0.12107794	1.97631269	
CSE1L	0.25750147	0.12107794	1.97632789	
MTX3	0.25749630	0.12107794	1.97628545	
CDH18	-0.25744920	0.12116666	-1.97589825	
SFRS16	-0.25735475	0.12134474	-1.97512198	
RAB6C	-0.25735668	0.12134474	-1.97513780	
LOC494141	-0.25733511	0.12136669	-1.97496050	
PADI3	-0.25732551	0.12136669	-1.97488162	
DTNBP1	0.25732589	0.12136669	1.97488474	
HNRNPR	0.25730826	0.12137660	1.97473984	
SPINK6	-0.25730818	0.12137660	-1.97473917	
RPGR	0.25721622	0.12156346	1.97398342	
CRYBB2	-0.25717266	0.12163071	-1.97362545	
FBLN2	-0.25717364	0.12163071	-1.97363349	

C1orf217	0.25716349	0.12163677	1.97355012	
ADAMTS13	-0.25713659	0.12166763	-1.97332901	
PUS7L	0.25713715	0.12166763	1.97333361	
C9orf170	-0.25710815	0.12171585	-1.97309530	
FKBP2	-0.25707601	0.12174418	-1.97283126	
SALL4	-0.25708077	0.12174418	-1.97287036	
FAM5B	-0.25708256	0.12174418	-1.97288508	
FZD10	-0.25706493	0.12175280	-1.97274016	
FTSJ3	0.25705003	0.12175280	1.97261776	
GAS6	-0.25705264	0.12175280	-1.97263917	
ASCC2	0.25704041	0.12175280	1.97253870	
TJAP1	-0.25704012	0.12175280	-1.97253629	
AMELX	-0.25698081	0.12186860	-1.97204896	
HEXDC	-0.25696223	0.12188960	-1.97189630	yes
TH1L	0.25695843	0.12188960	1.97186514	
SNORA19	0.25689264	0.12201970	1.97132458	
CLEC2D	0.25687766	0.12202860	1.97120150	
IFNA21	-0.25687580	0.12202860	-1.97118620	
POU6F2	-0.25684183	0.12208904	-1.97090713	
PSMB6	0.25682697	0.12210762	1.97078501	
KCNJ12	-0.25680198	0.12214840	-1.97057972	
FAM126B	0.25679503	0.12214962	1.97052267	
ZNF443	0.25677000	0.12219052	1.97031697	
GCNT4	0.25675756	0.12220378	1.97021485	
LZTS1	-0.25674148	0.12221105	-1.97008270	
APOA2	-0.25674471	0.12221105	-1.97010922	
PLG	-0.25663417	0.12243257	-1.96920121	
LOC100133403	-0.25660596	0.12243841	-1.96896953	
SLC39A5	-0.25661123	0.12243841	-1.96901277	
ABHD6	0.25660900	0.12243841	1.96899443	yes
POLR1E	0.25661649	0.12243841	1.96905598	
C11orf44	-0.25653738	0.12256445	-1.96840621	
ARHGAP22	-0.25653583	0.12256445	-1.96839350	
CCL23	-0.25652791	0.12256784	-1.96832839	
AUH	0.25651556	0.12258094	1.96822701	
SLC47A2	-0.25649212	0.12260440	-1.96803450	
FAM64A	-0.25649427	0.12260440	-1.96805208	
NPBWR1	-0.25646588	0.12263403	-1.96781897	
C19orf68	-0.25647017	0.12263403	-1.96785418	
FFAR2	-0.25643828	0.12268071	-1.96759224	
C1orf138	-0.25642551	0.12269476	-1.96748738	
SH2B3	-0.25640883	0.12271742	-1.96735037	
MRO	-0.25639433	0.12273527	-1.96723131	
FES	-0.25637461	0.12275596	-1.96706934	
DDX56	0.25637217	0.12275596	1.96704931	
RIMS1	0.25636234	0.12276355	1.96696858	
REG3G	-0.25633543	0.12280873	-1.96674761	
ORC3L	0.25632658	0.12281416	1.96667494	
PIGU	0.25631116	0.12281756	1.96654831	yes
SIGLEC16	-0.25630494	0.12281756	-1.96649720	

C9orf78	0.25631631	0.12281756	1.96659062
NHP2	-0.25629952	0.12281756	-1.96645276
TAX1BP3	0.25629240	0.12281921	1.96639426
GHRH	-0.25626619	0.12286288	-1.96617900
TSGA10	0.25625233	0.12287934	1.96606525
SLC39A6	0.25620580	0.12296778	1.96568315
ADIG	-0.25613072	0.12311921	-1.96506666
COPA	0.25609635	0.12318095	1.96478448
TMEM39A	0.25607637	0.12321096	1.96462041
OR10X1	-0.25605045	0.12324001	-1.96440763
CRYL1	-0.25605409	0.12324001	-1.96443745
SERPIND1	-0.25597698	0.12338816	-1.96380437
CA3	-0.25596844	0.12339293	-1.96373429
RAB31	0.25595597	0.12340640	1.96363190
PTGIR	-0.25588594	0.12354707	-1.96305701
EFHC1	0.25582780	0.12366156	1.96257975
SERINC3	0.25580229	0.12367567	1.96237038
ALDH9A1	0.25580287	0.12367567	1.96237514
EHMT1	0.25580437	0.12367567	1.96238742
TIRAP	0.25579425	0.12367937	1.96230434
C1orf100	-0.25578347	0.12368912	-1.96221586
MUT	0.25573580	0.12378052	1.96182456
OPTN	0.25572128	0.12379856	1.96170540
GDAP1	0.25568593	0.12386272	1.96141527
SIGLEC11	-0.25563009	0.12397233	-1.96095697
NSUN4	0.25557445	0.12408158	1.96050031
TRAV12-2	-0.25554949	0.12412281	-1.96029545
ENC1	0.25553230	0.12414682	1.96015434
VN1R2	-0.25551504	0.12417096	-1.96001275
C4orf39	-0.25550184	0.12418613	-1.95990436
CLCNKB	-0.25549013	0.12419148	-1.95980827
VPS41	0.25548362	0.12419148	1.95975487
PDE1C	-0.25546757	0.12419148	-1.95962313
DOCK5	0.25547283	0.12419148	1.95966631
TMEM187	-0.25547408	0.12419148	-1.95967660
TCTA	0.25545707	0.12420065	1.95953696
C8orf31	-0.25543945	0.12422560	-1.95939243
SYTL2	0.25541353	0.12426901	1.95917970
ZFAND6	0.25539564	0.12429459	1.95903290
C3orf26	0.25535375	0.12436178	1.95868919
MAML1	-0.25535265	0.12436178	-1.95868015
C19orf59	-0.25529389	0.12444992	-1.95819796
ALDOB	-0.25530012	0.12444992	-1.95824912
DDX54	-0.25529982	0.12444992	-1.95824668
GNAI1	0.25525534	0.12452145	1.95788172
CYP27B1	-0.25522575	0.12457311	-1.95763888
MGC87042	-0.25519158	0.12463496	-1.95735854
INSL4	-0.25517482	0.12463691	-1.95722103
TEX13B	-0.25517160	0.12463691	-1.95719464
CPEB1	-0.25518071	0.12463691	-1.95726935

C9orf93	0.25515545	0.12465867	1.95706217	
ADAMTS8	-0.25511710	0.12469176	-1.95674751	
MAST4	-0.25512417	0.12469176	-1.95680551	
LOC388931	-0.25512464	0.12469176	-1.95680937	
CD47	0.25511513	0.12469176	1.95673132	
ATAD3C	-0.25510815	0.12469314	-1.95667404	
CREM	0.25508821	0.12472335	1.95651051	
FAHD2B	-0.25507599	0.12473149	-1.95641027	
OGDH	0.25507183	0.12473149	1.95637611	
TSPAN5	0.25506251	0.12473808	1.95629966	
DGKK	-0.25500873	0.12482950	-1.95585849	
RERGL	-0.25501077	0.12482950	-1.95587520	
LRRC32	-0.25498676	0.12484457	-1.95567826	
RIC8A	0.25499281	0.12484457	1.95572791	
BTRC	0.25498288	0.12484457	1.95564646	
GSTK1	0.25496411	0.12487221	1.95549250	
WFDC11	-0.25495361	0.12488111	-1.95540631	
FAM170A	-0.25494741	0.12488111	-1.95535544	
MCL1	0.25489062	0.12499350	1.95488961	
THRB	0.25485848	0.12505097	1.95462603	
CHAC1	-0.25483902	0.12508019	-1.95446642	
C1orf159	-0.25481987	0.12510872	-1.95430938	
TP53I11	-0.25478324	0.12517627	-1.95400894	
MRPS18B	0.25474467	0.12524817	1.95369260	
C20orf134	-0.25472578	0.12526196	-1.95353768	
C1orf123	0.25472998	0.12526196	1.95357208	
COMMD7	0.25468828	0.12530314	1.95323008	
ING4	-0.25468882	0.12530314	-1.95323457	
SOHLH2	-0.25469350	0.12530314	-1.95327289	
CTHRC1	-0.25465278	0.12533985	-1.95293894	
CNIH3	-0.25465834	0.12533985	-1.95298453	
RPL26P19	-0.25466403	0.12533985	-1.95303121	
DEFA6	-0.25462747	0.12538219	-1.95273141	
PHTF2	0.25461538	0.12539500	1.95263229	
LRRC8D	0.25459935	0.12541662	1.95250083	
FBP2	-0.25457983	0.12544605	-1.95234076	
IHH	-0.25449624	0.12561878	-1.95165528	
GNGT1	-0.25442354	0.12574893	-1.95105922	
C4orf41	0.25442166	0.12574893	1.95104375	
PPP1R9B	-0.25441903	0.12574893	-1.95102225	
HEXA	0.25437768	0.12582731	1.95068320	
AGGF1	0.25433694	0.12590438	1.95034914	
hCG_1776980	0.25432504	0.12591680	1.95025161	
MFF	0.25430625	0.12593045	1.95009754	
EBF2	-0.25430960	0.12593045	-1.95012499	
ZNF562	0.25426420	0.12600966	1.94975282	
MYH16	-0.25425821	0.12600966	-1.94970372	
ACD	-0.25419128	0.12614560	-1.94915496	
SLC44A4	0.25416421	0.12619210	1.94893307	
NQO1	0.25409613	0.12633075	1.94837498	yes

EEF1B2	-0.25404779	0.12642512	-1.94797877
LRRC66	-0.25402234	0.12646806	-1.94777017
CPNE1	0.25401096	0.12647079	1.94767692
RAB3D	-0.25400842	0.12647079	-1.94765609
PPM1J	-0.25393135	0.12662991	-1.94702440
MT1H	-0.25390946	0.12664498	-1.94684495
PEF1	0.25391692	0.12664498	1.94690611
SOX6	-0.25390560	0.12664498	-1.94681333
ELOVL1	0.25385378	0.12674737	1.94638864
UBA5	0.25380513	0.12684268	1.94598995
KIF21A	0.25373403	0.12698870	1.94540727
STAT4	0.25371123	0.12701680	1.94522045
RTP3	-0.25370887	0.12701680	-1.94520107
LCE1E	-0.25368043	0.12706665	-1.94496803
NGFR	-0.25367351	0.12706792	-1.94491137
UFC1	0.25366116	0.12708146	1.94481017
CCDC136	-0.25362987	0.12713776	-1.94455377
RAET1E	0.25360546	0.12717855	1.94435370
DYM	0.25359565	0.12718636	1.94427336
TTLL4	0.25357321	0.12722271	1.94408947
SVIP	0.25353847	0.12728684	1.94380486
OPN5	-0.25351380	0.12732826	-1.94360270
HPR	-0.25349423	0.12735814	-1.94344236
SCARNA5	-0.25347419	0.12738910	-1.94327816
SCRN2	-0.25344743	0.12743525	-1.94305894
CSH1	-0.25342406	0.12747376	-1.94286747
GIMAP1	-0.25340107	0.12751141	-1.94267913
KCNE2	-0.25339203	0.12751749	-1.94260509
DMXL2	0.25337381	0.12754437	1.94245578
MED8	0.25336226	0.12755614	1.94236116
TSGA14	0.25331531	0.12764805	1.94197657
OTUB2	-0.25330176	0.12766437	-1.94186556
FLJ90680	-0.25324673	0.12777465	-1.94141482
PBLD	0.25323229	0.12779300	1.94129650
LAPTM4B	0.25320197	0.12784734	1.94104815
HTR7P	-0.25318162	0.12787908	-1.94088150
TMEM198	-0.25316869	0.12789401	-1.94077557
ATP5F1	0.25314864	0.12792509	1.94061136
C22orf36	-0.25313540	0.12794072	-1.94050292
OLFML2A	-0.25308757	0.12802706	-1.94011110
MPPED2	-0.25308003	0.12802706	-1.94004934
A2LD1	-0.25307831	0.12802706	-1.94003532
MYSM1	0.25306828	0.12803543	1.93995314
SNPH	-0.25305492	0.12805136	-1.93984370
ZNF500	-0.25304567	0.12805796	-1.93976793
CSRP2BP	0.25297773	0.12815840	1.93921150
RAD51C	0.25297606	0.12815840	1.93919782
CCDC86	-0.25298577	0.12815840	-1.93927738
CALM2	0.25298918	0.12815840	1.93930534
COX7A2L	0.25294778	0.12820822	1.93896627

MYO5B	0.25293816	0.12821567	1.93888747	
EPHB4	-0.25292902	0.12822203	-1.93881262	
TMEM22	-0.25286917	0.12834362	-1.93832252	
SNX24	0.25284183	0.12839139	1.93809858	yes
GALNT7	0.25280784	0.12845427	1.93782026	
FAM123A	-0.25279354	0.12847236	-1.93770321	
MYH11	-0.25275943	0.12853556	-1.93742390	
ZNF7	0.25271332	0.12862610	1.93704631	
GRIA2	-0.25268631	0.12867316	-1.93682521	
BAMBI	0.25267710	0.12867624	1.93674974	
KTN1	0.25267228	0.12867624	1.93671033	
MAP3K7IP3	0.25265942	0.12867666	1.93660501	yes
IL13	-0.25266053	0.12867666	-1.93661410	
RNY5	-0.25265165	0.12867992	-1.93654136	
CASD1	0.25262852	0.12870372	1.93635205	
CST7	-0.25263100	0.12870372	-1.93637232	
SCN1A	-0.25253452	0.12890354	-1.93558245	
STS	0.25252036	0.12892137	1.93546656	
NUP205	0.25245599	0.12903990	1.93493954	
TRPM5	-0.25245574	0.12903990	-1.93493751	
RAB40A	-0.25243744	0.12906495	-1.93478767	
SNORD31	0.25243209	0.12906495	1.93474393	
ZBTB34	0.25241863	0.12908122	1.93463372	
GP6	-0.25240945	0.12908771	-1.93455855	
GUCA1C	-0.25239623	0.12910343	-1.93445034	
FAH	-0.25237940	0.12912739	-1.93431257	
RNF121	0.25234089	0.12920086	1.93399741	
EXOC4	0.25233224	0.12920616	1.93392656	
HOXB8	-0.25227373	0.12932539	-1.93344767	
MPP5	0.25224613	0.12937402	1.93322174	
PABPC1	0.25219112	0.12948535	1.93277154	
USP24	0.25217733	0.12950242	1.93265866	
THOC2	0.25213347	0.12958832	1.93229967	
CLEC2B	0.25211487	0.12961641	1.93214744	
B2M	0.25208632	0.12966728	1.93191382	
JAM3	-0.25207272	0.12968392	-1.93180255	
PSENNEN	0.25204638	0.12972304	1.93158698	
IP6K1	0.25204298	0.12972304	1.93155914	
OR10T2	-0.25201644	0.12976933	-1.93134199	
TULP4	0.25196012	0.12988395	1.93088109	
FAM96B	0.25191942	0.12996279	1.93054804	
LOC728675	-0.25191155	0.12996630	-1.93048369	
CCDC107	-0.25189067	0.12998516	-1.93031279	
SUV420H1	0.25189372	0.12998516	1.93033777	
RAB32	-0.25186316	0.13001922	-1.93008771	
PCDH17	-0.25186433	0.13001922	-1.93009725	
LOC728196	0.25185354	0.13002677	1.93000897	
FXC1	0.25183925	0.13004504	1.92989203	
PIGG	0.25183215	0.13004679	1.92983399	
POLR3D	-0.25180396	0.13009698	-1.92960334	

IGDCC3	-0.25178784	0.13011946	-1.92947144	
JAKMIP3	-0.25171110	0.13026667	-1.92884360	
MYL5	-0.25171175	0.13026667	-1.92884888	
WARS2	0.25169995	0.13027776	1.92875235	
NR5A2	-0.25168022	0.13030855	-1.92859098	
PIK3AP1	-0.25165375	0.13035487	-1.92837435	
GMCL1L	-0.25164408	0.13036255	-1.92829526	
CIB2	-0.25163300	0.13037346	-1.92820466	
PSMA8	-0.25160911	0.13041385	-1.92800924	
SDCCAG10	0.25160195	0.13041577	1.92795064	
MAPK1IP1L	0.25159139	0.13042551	1.92786423	
PEX16	-0.25158272	0.13043090	-1.92779330	
UNC13B	0.25155128	0.13045106	1.92753609	
SNAP47	0.25153859	0.13045106	1.92743229	
C2orf65	-0.25153973	0.13045106	-1.92744162	
SLC24A3	-0.25156044	0.13045106	-1.92761102	
LOC728637	-0.25155754	0.13045106	-1.92758732	
NOL10	0.25153600	0.13045106	1.92741110	
MDH1	0.25152536	0.13046099	1.92732407	
CRYBA4	-0.25147634	0.13055923	-1.92692313	
SH2D2A	-0.25143443	0.13064116	-1.92658031	
ZNF302	0.25141273	0.13066200	1.92640285	
ATRN	0.25141640	0.13066200	1.92643286	
TMEM69	0.25139816	0.13068100	1.92628364	
EPHX2	0.25133157	0.13081833	1.92573904	
FLJ37543	-0.25131959	0.13081833	-1.92564105	
GGTLC2	-0.25132489	0.13081833	-1.92568441	
PDXDC1	0.25127994	0.13088060	1.92531674	
C9orf70	-0.25128428	0.13088060	-1.92535225	
SLC35E3	0.25127058	0.13088761	1.92524018	
EIF1B	0.25123006	0.13093932	1.92490878	
CEP110	0.25123266	0.13093932	1.92493009	
MOBK1A	0.25122919	0.13093932	1.92490173	
MAEA	0.25120320	0.13095555	1.92468915	
C8orf42	-0.25121455	0.13095555	-1.92478201	
TXNL1	0.25120771	0.13095555	1.92472607	
THSD7B	-0.25118424	0.13098470	-1.92453410	
PEX11B	0.25117616	0.13098877	1.92446803	
ZFP91	0.25115719	0.13101796	1.92431290	
ARSE	-0.25114586	0.13102954	-1.92422021	
LOC129293	-0.25113382	0.13104273	-1.92412180	
C2orf63	0.25111448	0.13106337	1.92396362	
HSD17B1	-0.25109435	0.13106337	-1.92379904	
KRTAP6-2	-0.25110466	0.13106337	-1.92388335	
NFATC4	-0.25108699	0.13106337	-1.92373882	yes
BACH1	0.25109167	0.13106337	1.92377709	
WISP2	-0.25110545	0.13106337	-1.92388983	
CNP	-0.25107642	0.13107318	-1.92365243	
MAP9	0.25103487	0.13115452	1.92331264	
GRM6	-0.25101603	0.13118344	-1.92315860	

LOC100128884	-0.25096668	0.13127777	-1.92275510
ABCA3	-0.25095625	0.13127777	-1.92266984
TUBD1	0.25095915	0.13127777	1.92269351
VGLL2	-0.25089535	0.13138936	-1.92217186
MRPS5	0.25089956	0.13138936	1.92220627
NT5DC4	-0.25082565	0.13153595	-1.92160205
LOC100133434	-0.25080547	0.13156803	-1.92143710
MTMR12	0.25079681	0.13157347	1.92136630
ABHD14A	-0.25072503	0.13172505	-1.92077950
CLK4	0.25071753	0.13172782	1.92071812
RNF219	0.25064580	0.13187940	1.92013182
MAP4K5	0.25057885	0.13198834	1.91958451
SAMD13	-0.25058896	0.13198834	-1.91966722
ZDHHC5	0.25056727	0.13198834	1.91948985
GM2A	0.25057054	0.13198834	1.91951662
GPR84	-0.25057989	0.13198834	-1.91959305
RAB25	0.25052569	0.13207016	1.91915005
C12orf50	-0.25046378	0.13219925	-1.91864403
TLR1	0.25045371	0.13220799	1.91856169
F9	-0.25040381	0.13230926	-1.91815390
CDC42EP5	-0.25036980	0.13237365	-1.91787593
LCA5	0.25034248	0.13242249	1.91765268
RBM12B	0.25031693	0.13246724	1.91744385
PMS2L4	0.25027387	0.13255274	1.91709201
SESN1	0.25026410	0.13256078	1.91701218
LOC728361	-0.25024340	0.13259427	-1.91684303
OR5K3	-0.25023140	0.13260753	-1.91674492
SYT6	-0.25019725	0.13267234	-1.91646590
MURC	-0.25017420	0.13271133	-1.91627754
C2orf79	0.25013162	0.13279583	1.91592965
SPOPL	0.25011189	0.13282711	1.91576843
SNORA52	-0.25009989	0.13284038	-1.91567036
LOC150197	-0.25007905	0.13285953	-1.91550011
C22orf37	-0.25008061	0.13285953	-1.91551280
TMPRSS12	-0.25002015	0.13290368	-1.91501886
LCE1B	-0.25002358	0.13290368	-1.91504689
MDFI	-0.25001596	0.13290368	-1.91498463
PAFAH1B1	0.25001742	0.13290368	1.91499651
USP28	0.25003287	0.13290368	1.91512277
DRGX	-0.25001957	0.13290368	-1.91501414
CD3G	0.25004783	0.13290368	1.91524497
IRX6	-0.24999436	0.13293936	-1.91480810
C10orf84	0.24996713	0.13298816	1.91458563
GBP6	0.24992552	0.13299698	1.91424577
C2CD3	0.24995575	0.13299698	1.91449270
NME7	0.24993694	0.13299698	1.91433900
KCNJ2	0.24994156	0.13299698	1.91437676
MSL2	0.24994623	0.13299698	1.91441495
LOC646799	-0.24993103	0.13299698	-1.91429072
SNORD7	0.24984735	0.13316469	1.91360715

SON	0.24983884	0.13316985	1.91353760
RAD21	0.24983022	0.13317525	1.91346722
LOC65998	-0.24980584	0.13321746	-1.91326807
LOC100128064	-0.24976991	0.13323209	-1.91297452
ICA1L	0.24976689	0.13323209	1.91294984
C7orf27	-0.24976148	0.13323209	-1.91290569
LOC440337	-0.24976838	0.13323209	-1.91296203
STYXL1	0.24975548	0.13323209	1.91285666
TEX10	0.24977621	0.13323209	1.91302597
TCEAL7	-0.24978250	0.13323209	-1.91307738
ST8SIA5	-0.24972539	0.13325166	-1.91261090
GRAMD1C	0.24972365	0.13325166	1.91259666
SSX5	-0.24972641	0.13325166	-1.91261918
TNFAIP3	0.24972191	0.13325166	1.91258245
LIM2	-0.24966856	0.13336158	-1.91214669
LOC644334	-0.24963520	0.13342483	-1.91187420
C21orf30	-0.24960276	0.13348019	-1.91160929
ST6GALNAC5	-0.24959893	0.13348019	-1.91157795
DDX42	0.24958647	0.13349459	1.91147625
ATG2B	0.24957200	0.13351371	1.91135807
C10orf59	-0.24951411	0.13363441	-1.91088528
UBE3B	0.24946771	0.13372830	1.91050631
GALNT13	-0.24945265	0.13374119	-1.91038330
KCNJ15	0.24944961	0.13374119	1.91035853
FAM120C	0.24939990	0.13384291	1.90995251
SMARCC1	0.24936836	0.13390205	1.90969499
PECR	0.24933615	0.13396281	1.90943195
PSORS1C1	-0.24932388	0.13397681	-1.90933180
ZNF124	0.24931410	0.13398498	1.90925193
FLJ44313	-0.24929982	0.13400370	-1.90913535
GRAP	-0.24928202	0.13403070	-1.90898995
ZC3H12C	0.24926932	0.13404572	1.90888628
TP53INP2	-0.24925626	0.13406160	-1.90877961
RFX3	0.24922623	0.13411729	1.90853442
CALD1	-0.24920817	0.13413014	-1.90838696
ZFAND2A	0.24921267	0.13413014	1.90842374
DPY19L2P2	0.24918951	0.13415916	1.90823459
HDAC9	0.24916998	0.13419024	1.90807513
RGS18	-0.24914303	0.13423873	-1.90785512
UNQ5840	-0.24910578	0.13431143	-1.90755101
IL17RC	-0.24907305	0.13437354	-1.90728380
MYO1E	0.24906203	0.13438464	1.90719386
CDKN2B	-0.24904038	0.13440596	-1.90701710
TLK1	0.24904051	0.13440596	1.90701814
CAV3	-0.24901785	0.13443152	-1.90683317
NR1D2	0.24901693	0.13443152	1.90682563
WDR49	0.24894935	0.13456084	1.90627394
ASS1	0.24895190	0.13456084	1.90629480
C1orf59	0.24888994	0.13461821	1.90578898
B4GALNT4	-0.24888796	0.13461821	-1.90577283

GPR87	0.24888561	0.13461821	1.90575363	
CHTF18	-0.24888094	0.13461821	-1.90571556	
hCG_22804	0.24889553	0.13461821	1.90583461	
TESK1	-0.24891760	0.13461821	-1.90601475	
MAP4K4	0.24888763	0.13461821	1.90577016	
SLC2A12	0.24885451	0.13466561	1.90549980	
NME6	0.24882451	0.13469927	1.90525494	
TINAG	-0.24883365	0.13469927	-1.90532953	
C6orf50	-0.24882135	0.13469927	-1.90522916	
CYB5RL	-0.24880319	0.13472278	-1.90508092	
GOLPH3	0.24879880	0.13472278	1.90504502	
LDHB	0.24875163	0.13481903	1.90466004	
SLC4A1	-0.24871558	0.13488914	-1.90436583	
RBM5	0.24870235	0.13490551	1.90425782	
CRH	-0.24864639	0.13499225	-1.90380117	yes
C20orf152	-0.24860807	0.13499225	-1.90348843	
LCN12	-0.24860273	0.13499225	-1.90344479	
FOXA3	-0.24861851	0.13499225	-1.90357360	
FURIN	-0.24861739	0.13499225	-1.90356449	
AGPAT3	0.24860920	0.13499225	1.90349762	
SEPN1	-0.24863142	0.13499225	-1.90367896	
PRRG3	-0.24861733	0.13499225	-1.90356400	
RNASEH2B	0.24862039	0.13499225	1.90358898	
MTL5	-0.24862771	0.13499225	-1.90364865	
CAST	0.24858888	0.13501009	1.90333179	yes
LOC100128988	-0.24857078	0.13503795	-1.90318410	
SUMF2	0.24854226	0.13509038	1.90295138	
CGA	-0.24851827	0.13512802	-1.90275555	
HTR1A	-0.24851375	0.13512802	-1.90271868	
CACNB2	-0.24848205	0.13518798	-1.90246002	
SR140	0.24846032	0.13522445	1.90228266	
HJURP	-0.24843990	0.13525625	-1.90211604	
MS4A5	-0.24843429	0.13525625	-1.90207028	
DEPDC6	-0.24841635	0.13528377	-1.90192391	
DTWD1	0.24839254	0.13532518	1.90172958	
MYCBP2	0.24837715	0.13534669	1.90160403	
ZADH2	0.24836123	0.13536945	1.90147417	
NACAD	-0.24833830	0.13540879	-1.90128708	
OR1J4	-0.24828565	0.13549751	-1.90085749	
GUSB	0.24828192	0.13549751	1.90082708	
BTBD12	-0.24828368	0.13549751	-1.90084136	
ETV3	0.24825761	0.13551356	1.90062871	
CNTNAP1	-0.24825846	0.13551356	-1.90063562	yes
MRPL19	0.24825631	0.13551356	1.90061813	
FBXO36	0.24819288	0.13563385	1.90010061	
FPR2	-0.24819512	0.13563385	-1.90011884	
C6orf211	0.24818081	0.13564756	1.90000214	
FLJ46365	-0.24814226	0.13570907	-1.89968764	
AZI2	0.24814403	0.13570907	1.89970206	
LASS5	0.24812276	0.13574037	1.89952854	

DAPK1	-0.24811357	0.13574727	-1.89945362
C6orf57	0.24804382	0.13589627	1.89888460
DLX6	-0.24803181	0.13589627	-1.89878664
ESD	0.24803653	0.13589627	1.89882517
ZNF487	0.24801665	0.13590195	1.89866300
TALDO1	0.24802183	0.13590195	1.89870522
WNT8B	-0.24801060	0.13590195	-1.89861363
C7orf30	0.24798666	0.13592663	1.89841835
PLA2G4D	-0.24797881	0.13592663	-1.89835435
RPS26P11	-0.24797511	0.13592663	-1.89832413
PKIA	-0.24798874	0.13592663	-1.89843529
SPZ1	-0.24794544	0.13598205	-1.89808213
SCUBE1	-0.24792020	0.13602700	-1.89787626
DSG1	-0.24789054	0.13608244	-1.89763430
LOC645870	-0.24786462	0.13612901	-1.89742295
ACO2	0.24784537	0.13615981	1.89726589
FOLR3	-0.24781516	0.13620534	-1.89701954
LOC646853	-0.24781364	0.13620534	-1.89700708
GCA	0.24780171	0.13621875	1.89690985
FABP3	-0.24772842	0.13633419	-1.89631213
LEKR1	0.24772800	0.13633419	1.89630866
SYNC	-0.24774600	0.13633419	-1.89645546
ZNF518A	0.24772941	0.13633419	1.89632018
C16orf62	0.24770020	0.13638530	1.89608194
PIK3IP1	0.24762759	0.13654286	1.89548983
ZBTB38	0.24761297	0.13656271	1.89537061
CEP170	0.24760027	0.13657800	1.89526704
PHF20L1	0.24757995	0.13661142	1.89510132
EPHA4	0.24755173	0.13666359	1.89487126
FAM173B	0.24750111	0.13675620	1.89445845
VN1R1	-0.24750026	0.13675620	-1.89445156
RANBP6	0.24743564	0.13683545	1.89392467
UBE2T	0.24745951	0.13683545	1.89411926
C9orf153	-0.24744931	0.13683545	-1.89403612
FAM71F1	-0.24744012	0.13683545	-1.89396123
RIMS3	-0.24744259	0.13683545	-1.89398137
ZBTB5	0.24742186	0.13685333	1.89381235
TCHHL1	-0.24739694	0.13689775	-1.89360912
SYT13	-0.24738695	0.13690662	-1.89352768
DUSP18	0.24734759	0.13697051	1.89320680
DMRTC2	-0.24735098	0.13697051	-1.89323444
MRPL12	-0.24733953	0.13697481	-1.89314105
DGCR14	-0.24726852	0.13712906	-1.89256214
FGF20	-0.24724948	0.13715951	-1.89240693
GLRA2	-0.24716558	0.13734466	-1.89172301
CCDC82	0.24715621	0.13735208	1.89164661
DEFB127	-0.24712835	0.13740362	-1.89141955
CHRNA7	-0.24710929	0.13741937	-1.89126416
GNL1	-0.24710297	0.13741937	-1.89121267
TUBB4Q	-0.24710767	0.13741937	-1.89125096

SNX1	0.24709504	0.13742337	1.89114802	
XAGE3	-0.24706565	0.13747860	-1.89090840	
UGT2B17	-0.24705307	0.13749368	-1.89080592	
USP33	0.24701380	0.13757252	1.89048586	
SLC34A3	-0.24700031	0.13757487	-1.89037584	
RARRES3	0.24700036	0.13757487	1.89037626	
SYNGR3	-0.24698747	0.13759059	-1.89027120	
EIF2C4	0.24694128	0.13766375	1.88989478	
NFKBIL1	-0.24693808	0.13766375	-1.88986867	
CASK	0.24694929	0.13766375	1.88996003	
RGR	-0.24692907	0.13767034	-1.88979520	
GRK7	-0.24687982	0.13777312	-1.88939383	
KIAA2022	-0.24683412	0.13786745	-1.88902142	
TTYH3	-0.24681743	0.13788520	-1.88888541	
LAGE3	-0.24681419	0.13788520	-1.88885900	
C4orf6	-0.24679575	0.13790500	-1.88870869	
WFDC2	0.24678810	0.13790500	1.88864633	
AMZ2	0.24678090	0.13790500	1.88858772	
TDRG1	-0.24678344	0.13790500	-1.88860838	
C19orf41	-0.24673967	0.13798872	-1.88825169	
HUWE1	0.24670219	0.13806348	1.88794628	
TNFAIP8	0.24667513	0.13811330	1.88772582	
USP9Y	0.24663005	0.13820634	1.88735847	yes
ALG14	0.24654770	0.13834907	1.88668749	
SNORD54	0.24654551	0.13834907	1.88666962	
TAC1	-0.24654970	0.13834907	-1.88670381	
ZNF133	-0.24654923	0.13834907	-1.88669996	
TMEM182	0.24653197	0.13836654	1.88655932	
PCNX	0.24649078	0.13843593	1.88622371	
HMGB1	0.24649054	0.13843593	1.88622181	
CNRIP1	-0.24647828	0.13845037	-1.88612185	
LAP3	0.24643593	0.13852064	1.88577686	
RPA1	0.24643675	0.13852064	1.88578352	
GDPD5	-0.24643025	0.13852064	-1.88573055	
TTC37	0.24640880	0.13855711	1.88555585	
RARB	0.24638571	0.13858254	1.88536774	
MYLK3	-0.24639193	0.13858254	-1.88541842	
SERTAD3	0.24634601	0.13866288	1.88504430	
POLD1	-0.24633686	0.13866985	-1.88496976	
DDX55	0.24632752	0.13867729	1.88489365	
FZD4	-0.24631922	0.13868221	-1.88482607	
ZC3H8	0.24629294	0.13871533	1.88461197	
NAV3	-0.24629480	0.13871533	-1.88462710	
TEDDM1	-0.24628582	0.13871742	-1.88455402	
CENPB	-0.24627906	0.13871866	-1.88449893	
MRPL21	-0.24626479	0.13873795	-1.88438264	
ST8SIA2	-0.24625780	0.13873974	-1.88432572	
GRIN1	-0.24624452	0.13875664	-1.88421757	
TMIE	-0.24620043	0.13880257	-1.88385843	
HTT	0.24620599	0.13880257	1.88390372	

DCUN1D5	0.24620838	0.13880257	1.88392315
TRIM63	-0.24620901	0.13880257	-1.88392831
KCND2	-0.24618740	0.13881888	-1.88375232
KIAA0652	0.24616728	0.13885225	1.88358841
CXorf48	-0.24611481	0.13896341	-1.88316106
ZBPB	-0.24608178	0.13902690	-1.88289201
MFSD6L	-0.24607594	0.13902690	-1.88284443
OVCH1	-0.24604421	0.13908823	-1.88258603
C14orf23	-0.24601430	0.13914302	-1.88234240
FOXRED1	0.24600897	0.13914302	1.88229902
UFSP2	0.24598436	0.13918724	1.88209861
CTSG	-0.24596572	0.13919080	-1.88194678
SH2B1	-0.24596951	0.13919080	-1.88197767
OR5K4	-0.24596417	0.13919080	-1.88193413
ZNF217	0.24593837	0.13923790	1.88172405
CLDN5	-0.24590738	0.13929753	-1.88147168
LOC728554	-0.24589866	0.13930349	-1.88140070
ARIH1	0.24586609	0.13935590	1.88113546
C16orf81	-0.24585197	0.13935590	-1.88102042
ZNF773	-0.24585494	0.13935590	-1.88104460
FPGT	0.24585967	0.13935590	1.88108316
BCL11B	-0.24584352	0.13936122	-1.88095163
FXR1	0.24583115	0.13937600	1.88085091
RBBP6	0.24580329	0.13942813	1.88062403
SNAPC1	0.24573119	0.13958701	1.88003692
ZNF830	0.24570213	0.13964208	1.87980031
LOC100131613	-0.24563241	0.13977626	-1.87923268
CYP4A11	-0.24564004	0.13977626	-1.87929477
HRASLS2	0.24562161	0.13977626	1.87914476
CKAP5	0.24562366	0.13977626	1.87916144
LOC100130089	-0.24559509	0.13978718	-1.87892880
INSIG2	0.24560020	0.13978718	1.87897043
JTV1	0.24559215	0.13978718	1.87890489
LOC84740	-0.24560903	0.13978718	-1.87904228
FAM105A	0.24554953	0.13987510	1.87855786
LOC400657	-0.24553276	0.13989777	-1.87842141
C4orf40	-0.24552690	0.13989777	-1.87837369
MATR3	0.24552145	0.13989777	1.87832925
FLJ40194	-0.24546392	0.14002177	-1.87786095
RAB23	0.24543463	0.14007753	1.87762252
FLJ30679	-0.24541100	0.14008947	-1.87743014
SERP2	-0.24542078	0.14008947	-1.87750978
RORA	0.24541396	0.14008947	1.87745422
ZDHHC2	0.24535919	0.14019977	1.87700836
ELOF1	-0.24535196	0.14020217	-1.87694957
JMJD2A	0.24533154	0.14023653	1.87678331
KCNA1	-0.24531913	0.14024031	-1.87668233
MOP-1	0.24531751	0.14024031	1.87666915
ZNF585A	0.24530214	0.14024736	1.87654402
LILRA6	-0.24530439	0.14024736	-1.87656232

MUC13	0.24527941	0.14028732	1.87635898	
RPL23	0.24525708	0.14032631	1.87617723	
ZNF285A	-0.24521072	0.14041028	-1.87579993	
FLJ38379	-0.24520373	0.14041028	-1.87574299	
TRIM25	0.24520909	0.14041028	1.87578662	
ST3GAL5	-0.24519746	0.14041039	-1.87569195	
RAP1GDS1	0.24518740	0.14041967	1.87561007	
C11orf55	-0.24515445	0.14046880	-1.87534189	
RNF146	0.24514844	0.14046880	1.87529303	
NRIP2	-0.24515633	0.14046880	-1.87535727	
CCNYL3	-0.24512156	0.14051887	-1.87507424	
ABCA1	0.24503849	0.14065992	1.87439822	
ELOVL2	-0.24505422	0.14065992	-1.87452618	
C14orf118	0.24504298	0.14065992	1.87443477	
CD38	0.24504075	0.14065992	1.87441662	
RABL5	0.24502744	0.14067164	1.87430825	
SLC30A8	-0.24500828	0.14068791	-1.87415235	
KRT77	-0.24501043	0.14068791	-1.87416985	
TCEAL6	-0.24497968	0.14071616	-1.87391963	
ZYG11A	-0.24498196	0.14071616	-1.87393817	
ZXDA	-0.24497797	0.14071616	-1.87390567	
JOSD1	0.24489946	0.14089164	1.87326681	
LY75	0.24488234	0.14091809	1.87312755	
C20orf3	0.24484427	0.14099491	1.87281775	
SLC18A1	-0.24483828	0.14099491	-1.87276901	
C8orf44	0.24481844	0.14102801	1.87260756	
MUC15	0.24478642	0.14109071	1.87234703	yes
ADCY6	-0.24476039	0.14113888	-1.87213524	
C17orf59	-0.24474197	0.14116853	-1.87198542	
SFRS8	-0.24470179	0.14125116	-1.87165845	
UBA52	0.24467254	0.14129593	1.87142048	
SNIP	-0.24467094	0.14129593	-1.87140751	
CHRNA3	-0.24464430	0.14133049	-1.87119076	
C1orf128	0.24464644	0.14133049	1.87120821	
FLJ39639	-0.24462118	0.14137163	-1.87100266	
INSL3	-0.24458648	0.14144098	-1.87072040	
ADAM18	-0.24452217	0.14158251	-1.87019724	
C9orf16	-0.24449622	0.14163061	-1.86998614	
PHYHD1	-0.24448773	0.14163615	-1.86991703	
MXD4	-0.24444026	0.14171607	-1.86953093	
HIC1	-0.24442119	0.14171607	-1.86937581	
SC22CB-1E7.1	-0.24443673	0.14171607	-1.86950220	
ZRANB1	0.24442770	0.14171607	1.86942875	
RIPPLY1	-0.24441764	0.14171607	-1.86934688	
KCNG4	-0.24442905	0.14171607	-1.86943976	
FLJ41603	-0.24440092	0.14172651	-1.86921092	
OPCML	-0.24440125	0.14172651	-1.86921364	
ATPIF1	0.24439250	0.14173187	1.86914247	
RING1	-0.24437921	0.14174914	-1.86903430	
FLJ14107	-0.24436975	0.14175704	-1.86895741	

PKD2L1	-0.24435300	0.14178273	-1.86882118	
MAGEB6B	-0.24434029	0.14178341	-1.86871780	
SLC35E2	0.24434514	0.14178341	1.86875722	
COX11	0.24432402	0.14179251	1.86858546	
CPB2	-0.24431912	0.14179251	-1.86854557	
CYP17A1	-0.24431792	0.14179251	-1.86853584	
ETAA1	0.24429961	0.14182203	1.86838687	
C8B	-0.24429104	0.14182778	-1.86831718	
MIPEP	0.24427312	0.14185634	1.86817145	
MEGF10	-0.24426174	0.14186895	-1.86807888	
RAX2	-0.24424796	0.14188743	-1.86796678	
ZNF248	0.24419902	0.14199173	1.86756878	
GC	-0.24417834	0.14199672	-1.86740061	
C4orf44	-0.24418665	0.14199672	-1.86746816	
PHLDB3	-0.24418237	0.14199672	-1.86743343	
C9orf79	-0.24417039	0.14199729	-1.86733597	
TMEM133	0.24415600	0.14199729	1.86721893	
CCDC149	-0.24415327	0.14199729	-1.86719673	
TMSB10	0.24415349	0.14199729	1.86719850	
LIPJ	-0.24409526	0.14207439	-1.86672496	
GDPD1	0.24411216	0.14207439	1.86686241	
OR6F1	-0.24410536	0.14207439	-1.86680710	
KPNA4	0.24409066	0.14207439	1.86668759	
KIF26B	-0.24410249	0.14207439	-1.86678376	
RPL4	0.24407596	0.14209514	1.86656804	
CENPV	-0.24406439	0.14210824	-1.86647395	
MAFA	-0.24405544	0.14210879	-1.86640113	
RPS6P1	-0.24405175	0.14210879	-1.86637119	
CYB5D1	0.24404308	0.14211483	1.86630064	
FLNB	0.24402994	0.14213177	1.86619380	
TMCC1	0.24400202	0.14218483	1.86596675	
TNK2	-0.24398071	0.14219142	-1.86579352	
SULT1B1	-0.24398515	0.14219142	-1.86582956	
UPF3B	0.24398668	0.14219142	1.86584202	
PAWR	0.24395410	0.14224130	1.86557713	
C14orf56	-0.24393752	0.14226666	-1.86544234	
LOC100133415	-0.24392612	0.14227509	-1.86534963	
MLLT4	0.24392167	0.14227509	1.86531346	yes
ANKRD26	0.24390672	0.14229302	1.86519186	
DHX29	0.24390194	0.14229302	1.86515297	
UNQ565	0.24382536	0.14244950	1.86453041	
C14orf48	-0.24381315	0.14244950	-1.86443113	
KRT18P49	-0.24381371	0.14244950	-1.86443565	
LOC400891	0.24382371	0.14244950	1.86451698	
DNAJC4	-0.24380307	0.14245901	-1.86434911	
DUSP19	0.24378880	0.14247876	1.86423310	
LCA5L	0.24377781	0.14249039	1.86414381	
MUTYH	-0.24377165	0.14249039	-1.86409366	
WTAP	0.24376359	0.14249495	1.86402814	
ZNF17	0.24374061	0.14253600	1.86384137	

ATP5A1	0.24370798	0.14259416	1.86357610
HAO1	-0.24370446	0.14259416	-1.86354745
SLCO4C1	0.24369780	0.14259531	1.86349329
ZNF479	-0.24367351	0.14263960	-1.86329584
JARID1B	0.24363948	0.14266211	1.86301919
CCDC79	-0.24363335	0.14266211	-1.86296934
TMEM132A	-0.24364890	0.14266211	-1.86309578
RASAL1	-0.24364500	0.14266211	-1.86306404
CARD6	0.24365759	0.14266211	1.86316646
SDC3	-0.24361724	0.14268638	-1.86283842
C8orf48	-0.24357759	0.14276834	-1.86251611
RNU5F	-0.24354036	0.14282921	-1.86221350
SCIN	0.24354441	0.14282921	1.86224642
ZNF761	0.24353236	0.14283364	1.86214847
R3HDM2	0.24352085	0.14284668	1.86205488
CYP2B7P1	0.24350708	0.14286526	1.86194294
C4orf7	-0.24347305	0.14293351	-1.86166634
NPC2	0.24339436	0.14311135	1.86102676
DNAJC2	0.24336992	0.14314094	1.86082813
OTUD5	-0.24337269	0.14314094	-1.86085063
SUZ12	0.24336004	0.14314999	1.86074785
TINAGL1	-0.24333531	0.14319552	-1.86054681
PAPSS1	0.24331756	0.14322389	1.86040259
MLNR	-0.24325267	0.14336809	-1.85987523
OR2B2	-0.24324436	0.14337329	-1.85980772
ZFX	0.24321989	0.14341822	1.85960885
ZNF571	0.24321132	0.14342407	1.85953919
POU5F1	-0.24319813	0.14344127	-1.85943203
STAMBPL1	0.24316970	0.14349595	1.85920102
AP3M2	0.24312775	0.14355258	1.85886007
C21orf90	-0.24312654	0.14355258	-1.85885028
PDE11A	-0.24311864	0.14355258	-1.85878608
PDGFA	-0.24311318	0.14355258	-1.85874169
ADAM22	-0.24312502	0.14355258	-1.85883791
C16orf3	-0.24310955	0.14355258	-1.85871216
RGS9BP	-0.24309438	0.14357467	-1.85858893
KRT35	-0.24306083	0.14364197	-1.85831635
WFDC6	0.24304745	0.14365968	1.85820763
MASTL	0.24302384	0.14370257	1.85801573
VPS26B	0.24301407	0.14371140	1.85793634
LPIN1	-0.24297144	0.14377064	-1.85759002
IRF1	0.24297314	0.14377064	1.85760382
RIPK4	0.24298363	0.14377064	1.85768905
ZNF566	0.24295561	0.14379440	1.85746137
TNNC2	-0.24292277	0.14386005	-1.85719454
CDT1	-0.24290700	0.14388365	-1.85706647
NLRP9	-0.24285835	0.14398830	-1.85667117
COMMD1	0.24283921	0.14400881	1.85651569
SELK	0.24283147	0.14400881	1.85645285
PIGY	0.24283653	0.14400881	1.85649392

CEACAM7	0.24281574	0.14403077	1.85632498
CRYBG3	0.24281020	0.14403077	1.85628003
KCTD17	-0.24278261	0.14408356	-1.85605587
FLJ44635	-0.24272576	0.14420854	-1.85559402
TCF3	-0.24271945	0.14420885	-1.85554279
ZNF687	-0.24270797	0.14422192	-1.85544952
FLJ27243	-0.24269173	0.14424674	-1.85531761
SNRPD3	0.24268543	0.14424704	1.85526640
ACTA2	-0.24266047	0.14429338	-1.85506369
ZNF92	0.24264715	0.14429841	1.85495548
RGS20	-0.24264607	0.14429841	-1.85494674
ZMAT5	-0.24254071	0.14454338	-1.85409094
B3GALT6	-0.24252750	0.14456076	-1.85398362
IGF1	0.24250646	0.14459165	1.85381276
MMP16	-0.24250264	0.14459165	-1.85378171
OR5B2	-0.24245332	0.14469832	-1.85338116
KCTD2	-0.24238407	0.14485439	-1.85281872
GRIP2	-0.24237509	0.14486131	-1.85274582
OPLAH	-0.24235028	0.14490744	-1.85254433
PLXNA4	-0.24233949	0.14491885	-1.85245670
FLJ32063	-0.24226105	0.14509788	-1.85181969
FBXO45	0.24221500	0.14519672	1.85144577
TMC3	-0.24217598	0.14526284	-1.85112893
SNORA21	-0.24217830	0.14526284	-1.85114779
ENPP7	-0.24216598	0.14527232	-1.85104768
DCP1A	0.24214233	0.14531566	1.85085566
SSFA2	0.24212470	0.14534407	1.85071253
WDR40C	-0.24209373	0.14539026	-1.85046107
KCNK2	-0.24209706	0.14539026	-1.85048810
C12orf72	0.24207610	0.14541220	1.85031790
THBS4	-0.24207253	0.14541220	-1.85028896
FLJ35424	-0.24204964	0.14545369	-1.85010312
FLJ39653	-0.24202529	0.14549445	-1.84990539
KLK9	-0.24201469	0.14549445	-1.84981935
OR5W2	-0.24201600	0.14549445	-1.84982998
TUBGCP2	0.24192206	0.14570927	1.84906728
EIF2AK3	0.24191564	0.14570988	1.84901515
ACVR1C	-0.24190640	0.14571748	-1.84894018
CABP5	-0.24189854	0.14572168	-1.84887632
C17orf56	-0.24187683	0.14576028	-1.84870012
CRBN	0.24185310	0.14580394	1.84850747
PRDX5	0.24178301	0.14596279	1.84793851
RFX5	0.24177691	0.14596279	1.84788894
CA5BP	-0.24174426	0.14602207	-1.84762392
MMP19	-0.24174074	0.14602207	-1.84759538
GYPC	-0.24173072	0.14603165	-1.84751401
S100A16	0.24167036	0.14615396	1.84702406
NCAPD3	0.24166926	0.14615396	1.84701518
PTPN22	0.24165847	0.14616547	1.84692756
JMJD4	-0.24162281	0.14623894	-1.84663814

G6PC2	-0.24160060	0.14626588	-1.84645784	
UBE3A	0.24159965	0.14626588	1.84645016	
KRT86	-0.24158516	0.14628662	-1.84633254	
MYH1	-0.24156283	0.14632690	-1.84615131	
INA	-0.24152111	0.14641555	-1.84581274	
DNAJC3	0.24149371	0.14646850	1.84559038	
GPR182	-0.24147934	0.14648327	-1.84547372	
ACACB	-0.24147545	0.14648327	-1.84544214	
RAB3IP	0.24141973	0.14660695	1.84498998	
UPF2	0.24140011	0.14660968	1.84483080	
LARP6	-0.24140478	0.14660968	-1.84486862	
SNORD78	0.24141047	0.14660968	1.84491487	
FKTN	0.24139069	0.14661781	1.84475428	
NDUFA8	0.24137908	0.14663137	1.84466011	
RINL	-0.24136811	0.14664336	-1.84457109	
PMAIP1	0.24134045	0.14669703	1.84434662	
IL17B	-0.24129775	0.14678829	-1.84400016	
OR2C1	-0.24128579	0.14680276	-1.84390310	
LOC84931	-0.24127109	0.14682409	-1.84378378	
CYHR1	-0.24125477	0.14684944	-1.84365141	
CDH7	-0.24123371	0.14688502	-1.84348048	
PLEKHA6	-0.24122203	0.14688502	-1.84338575	
XK	-0.24122216	0.14688502	-1.84338681	
ARL13B	0.24119820	0.14692919	1.84319234	
DUSP12	0.24115620	0.14696687	1.84285157	
ORMDL2	0.24116834	0.14696687	1.84295006	
FAM165B	0.24116117	0.14696687	1.84289195	
GNB1L	-0.24114285	0.14696687	-1.84274330	
WRNIP1	0.24115145	0.14696687	1.84281304	
DHX35	0.24113996	0.14696687	1.84271981	
NME5	0.24114995	0.14696687	1.84280084	
DLG1	0.24110869	0.14702966	1.84246609	
NFYB	0.24108957	0.14704665	1.84231097	
PRKX	0.24109152	0.14704665	1.84232683	
WDR31	0.24107603	0.14704967	1.84220111	
TERC	-0.24107659	0.14704967	-1.84220566	
WDR44	0.24105428	0.14708866	1.84202470	
VKORC1L1	0.24102122	0.14712610	1.84175647	
TASP1	0.24102319	0.14712610	1.84177248	
TAOK1	0.24101467	0.14712610	1.84170330	
DNER	0.24101791	0.14712610	1.84172962	
KHDRBS3	0.24098597	0.14718250	1.84147049	
DNAJB11	0.24094179	0.14727770	1.84111207	
CYP3A4	-0.24085370	0.14746931	-1.84039749	
FAM65A	-0.24085299	0.14746931	-1.84039176	yes
HISPPD1	0.24083052	0.14749474	1.84020951	
PC	-0.24083588	0.14749474	-1.84025298	
TTY12	-0.24079959	0.14754139	-1.83995862	
CDC25C	-0.24080396	0.14754139	-1.83999408	
NDUFB7	-0.24077412	0.14758982	-1.83975203	

PHF13	-0.24075265	0.14760430	-1.83957787	
USP25	0.24073754	0.14760430	1.83945533	
IL2	-0.24074203	0.14760430	-1.83949173	
WNT16	-0.24074216	0.14760430	-1.83949278	
SH3TC1	-0.24076113	0.14760430	-1.83964663	
C10orf107	0.24070008	0.14765194	1.83915145	
GPSM3	-0.24070345	0.14765194	-1.83917876	
C3orf71	-0.24070669	0.14765194	-1.83920510	
TSHZ1	0.24065745	0.14774345	1.83880573	
HEATR7B1	-0.24058632	0.14790659	-1.83822886	
ZNF318	-0.24055844	0.14796117	-1.83800272	
CREB5	-0.24054309	0.14798426	-1.83787826	
POLK	0.24049834	0.14808128	1.83751531	
RAP2A	0.24049183	0.14808216	1.83746251	
CCDC88C	0.24037861	0.14835152	1.83654444	
PODNL1	-0.24034651	0.14841686	-1.83628410	
LOC391358	-0.24030956	0.14844786	-1.83598454	
NUMB	0.24032665	0.14844786	1.83612314	
VNN1	0.24031418	0.14844786	1.83602201	
SLC16A5	0.24031718	0.14844786	1.83604632	
ARHGDI B	0.24028577	0.14849227	1.83579167	
STK32A	-0.24027098	0.14851403	-1.83567170	
NACC2	-0.24023554	0.14858781	-1.83538438	
RPN2	0.24019899	0.14866445	1.83508801	
TEX13A	-0.24018379	0.14868725	-1.83496478	
ILDR2	-0.24017736	0.14868793	-1.83491264	
ZNF507	0.24016752	0.14869722	1.83483285	yes
LOC100129566	-0.24011225	0.14882037	-1.83438477	
OR7G1	-0.24010639	0.14882037	-1.83433726	
ABL2	0.24008223	0.14886579	1.83414144	
C16orf75	-0.24002829	0.14898644	-1.83370411	
FGFR4	-0.23998230	0.14907665	-1.83333135	
C7orf50	-0.23998026	0.14907665	-1.83331481	
C5orf33	0.23996176	0.14910786	1.83316479	
CCDC48	-0.23993545	0.14915878	-1.83295156	
ATP6V1A	0.23990141	0.14922926	1.83267567	
PCDH19	-0.23987197	0.14928816	-1.83243697	
C10orf82	-0.23986091	0.14930056	-1.83234732	
FAM110B	-0.23985419	0.14930197	-1.83229291	
PART1	-0.23981665	0.14936581	-1.83198858	
BBS9	0.23981877	0.14936581	1.83200575	
SNX5	0.23980171	0.14937245	1.83186751	
CDCA3	-0.23980362	0.14937245	-1.83188297	
ROS1	-0.23979302	0.14937886	-1.83179711	
C6orf141	-0.23977710	0.14940359	-1.83166801	
SLC25A22	-0.23977025	0.14940533	-1.83161255	
DYRK2	0.23975609	0.14942559	1.83149778	
ASXL2	0.23972845	0.14947999	1.83127373	yes
AFMID	-0.23970663	0.14951965	-1.83109690	
TUBAL3	-0.23968947	0.14954752	-1.83095782	

ZXDB	-0.23961447	0.14970633	-1.83034999	
ZNF506	0.23961962	0.14970633	1.83039173	
FBXL19	-0.23959834	0.14973160	-1.83021933	
MARVELD2	0.23956096	0.14981078	1.82991634	yes
C6orf225	0.23955346	0.14981420	1.82985555	
SNORD45B	0.23950026	0.14993352	1.82942445	
HHLA3	-0.23947412	0.14998424	-1.82921264	
LOC441268	-0.23946763	0.14998509	-1.82916007	
CBY1	0.23944791	0.15000390	1.82900029	
DDX24	0.23944886	0.15000390	1.82900800	
HPS5	0.23943517	0.15002063	1.82889704	
PPP1R10	0.23938219	0.15010828	1.82846775	
TRAF6	0.23938258	0.15010828	1.82847096	
C14orf2	0.23939283	0.15010828	1.82855402	
LOC100133386	-0.23936559	0.15013480	-1.82833329	
ZNF461	0.23934753	0.15016504	1.82818697	
DHFRL1	0.23934100	0.15016603	1.82813400	
GABRR2	-0.23931659	0.15020380	-1.82793622	
GATA3	-0.23931290	0.15020380	-1.82790635	
CARD10	-0.23930768	0.15020380	-1.82786404	yes
KIFAP3	0.23928743	0.15023961	1.82770001	
FLJ45721	-0.23927885	0.15024579	-1.82763050	
CANX	0.23925876	0.15028121	1.82746772	
CLDN16	0.23916471	0.15045503	1.82670577	
CYB5D2	0.23914526	0.15045503	1.82654818	
PUS10	0.23917087	0.15045503	1.82675570	
C14orf147	0.23916696	0.15045503	1.82672398	
LCTL	-0.23913506	0.15045503	-1.82646559	
PDS5B	0.23914270	0.15045503	1.82652749	
GRP	0.23914861	0.15045503	1.82657536	
CLDN20	-0.23913819	0.15045503	-1.82649091	
SLN	-0.23916118	0.15045503	-1.82667714	
APOM	-0.23911360	0.15049400	-1.82629169	
SNW1	0.23909194	0.15052997	1.82611622	
LOC100133435	-0.23908716	0.15052997	-1.82607757	
SEC22B	0.23904555	0.15062022	1.82574043	
ABI2	0.23901799	0.15065909	1.82551718	
KRTAP4-6	-0.23902023	0.15065909	-1.82553538	
KRT83	-0.23899658	0.15069795	-1.82534376	
TRIM31	0.23892654	0.15086067	1.82477644	
B3GALT1	-0.23888781	0.15094371	-1.82446273	
FYCO1	0.23887305	0.15096506	1.82434318	
C9orf123	0.23886714	0.15096506	1.82429536	
GPRC6A	-0.23884197	0.15098226	-1.82409148	
WDR53	0.23884805	0.15098226	1.82414075	
RAD17	0.23885373	0.15098226	1.82418671	
COTL1	-0.23880547	0.15102976	-1.82379589	
SHC4	-0.23881117	0.15102976	-1.82384207	
CD2	0.23880491	0.15102976	1.82379136	
PHF3	0.23877480	0.15107680	1.82354746	

NPY5R	-0.23877418	0.15107680	-1.82354249	
OR52B4	-0.23876380	0.15108653	-1.82345836	
SLC38A11	-0.23875809	0.15108653	-1.82341214	
STEAP2	0.23874980	0.15109201	1.82334504	
LOC642587	0.23865137	0.15132081	1.82254787	
CXorf21	0.23864785	0.15132081	1.82251939	
SEC61A2	0.23862541	0.15136244	1.82233764	
ZCCHC9	0.23858641	0.15143352	1.82202186	
KRT36	-0.23858530	0.15143352	-1.82201285	
POLI	0.23855435	0.15149689	1.82176225	
RAB10	0.23849512	0.15159076	1.82128262	
IRF6	0.23849307	0.15159076	1.82126606	
ASAP3	-0.23849351	0.15159076	-1.82126963	
RAP2C	0.23849418	0.15159076	1.82127501	
WDR19	0.23845997	0.15165968	1.82099806	
TOMM70A	0.23844101	0.15169249	1.82084449	
IFI30	0.23839744	0.15178823	1.82049176	
SPAM1	-0.23835247	0.15187191	-1.82012765	
CHST9	0.23835695	0.15187191	1.82016393	
GOLGA1	0.23833970	0.15188889	1.82002426	
HSPA13	0.23833016	0.15189760	1.81994701	
CDH15	-0.23828679	0.15199292	-1.81959593	
ACSS1	-0.23824018	0.15209663	-1.81921853	
DLX4	-0.23821835	0.15213684	-1.81904182	
MYB	0.23819792	0.15217346	1.81887647	yes
MGC33894	-0.23818714	0.15218536	-1.81878921	
CYP7A1	-0.23815076	0.15226292	-1.81849466	
CYP3A7	-0.23812544	0.15231212	-1.81828969	
IL1RAP	0.23810268	0.15235477	1.81810545	
LOC646813	0.23807866	0.15240066	1.81791101	
TNMD	-0.23806760	0.15241330	-1.81782149	
ASB14	0.23803384	0.15248418	1.81754828	
APOL1	0.23801460	0.15251782	1.81739254	
SYNPR	-0.23799199	0.15256015	-1.81720947	
SNORA55	-0.23797835	0.15257942	-1.81709907	
SIRPA	-0.23796594	0.15257977	-1.81699867	
MASP1	-0.23796915	0.15257977	-1.81702465	
TAF8	-0.23793725	0.15262444	-1.81676643	
ZFYVE28	-0.23793628	0.15262444	-1.81675861	
CLN6	0.23791738	0.15265725	1.81660559	
FAM76B	0.23786092	0.15278657	1.81614869	
MRPL53	0.23784782	0.15280448	1.81604266	
DEF6	-0.23782739	0.15284123	-1.81587733	
INPP5F	0.23779155	0.15291764	1.81558725	
TMEM148	-0.23774316	0.15301031	-1.81519567	
AMD1	0.23771874	0.15301031	1.81499800	
APITD1	0.23772893	0.15301031	1.81508048	
C9orf53	-0.23772409	0.15301031	-1.81504132	
PTGS1	-0.23774226	0.15301031	-1.81518836	
MFAP5	-0.23772535	0.15301031	-1.81505156	

LRRC10	-0.23770543	0.15302878	-1.81489032
PRPSAP1	0.23769783	0.15303249	1.81482881
BANF1	-0.23769173	0.15303249	-1.81477943
DLEU2	0.23765475	0.15311188	1.81448023
ZNF10	0.23762441	0.15317422	1.81423471
GSK3A	-0.23760315	0.15321318	-1.81406268
LOC100131720	-0.23751861	0.15341523	-1.81337866
CTRL	-0.23749665	0.15345606	-1.81320093
UCKL1	-0.23748691	0.15346536	-1.81312216
ARFGAP1	-0.23745190	0.15353983	-1.81283893
ADARB1	-0.23741456	0.15355721	-1.81253679
FLJ32065	0.23741185	0.15355721	1.81251484
GPI	0.23740227	0.15355721	1.81243735
HNRNPU	0.23742644	0.15355721	1.81263291
PPIC	0.23740300	0.15355721	1.81244329
ERGIC1	0.23740721	0.15355721	1.81247735
MOSPD3	-0.23743866	0.15355721	-1.81273177
USP8	0.23736198	0.15364535	1.81211140
PCMTD1	0.23734685	0.15366727	1.81198899
SLC24A2	-0.23734123	0.15366727	-1.81194356
RPH3AL	-0.23733165	0.15367620	-1.81186601
C22orf31	-0.23729899	0.15374422	-1.81160179
FAM181A	-0.23729304	0.15374422	-1.81155370
TNC	0.23728046	0.15376090	1.81145188
HKR1	0.23723769	0.15383970	1.81110595
CUTC	0.23724126	0.15383970	1.81113479
STX17	0.23720645	0.15388876	1.81085321
C10orf2	0.23720661	0.15388876	1.81085446
SNORA54	-0.23718361	0.15393195	-1.81066845
ARFGAP3	0.23717404	0.15393457	1.81059106
C1orf112	0.23717035	0.15393457	1.81056119
CBX3	0.23712813	0.15401608	1.81021965
DPPA4	-0.23712656	0.15401608	-1.81020701
SEC61G	0.23710787	0.15404858	1.81005578
SLC27A2	0.23709127	0.15407567	1.80992151
GSTM2	-0.23707390	0.15407684	-1.80978105
LOC100133421	-0.23708025	0.15407684	-1.80983241
THRA	-0.23707245	0.15407684	-1.80976931
hCG_1776007	-0.23706253	0.15408666	-1.80968907
TUBA1C	0.23698454	0.15427257	1.80905824
GPN3	0.23694367	0.15436252	1.80872768
GNRHR2	-0.23690613	0.15444387	-1.80842409
DNAJC19	0.23689950	0.15444519	1.80837047
RUFY4	-0.23689269	0.15444696	-1.80831542
FAM158A	-0.23688592	0.15444865	-1.80826066
hCG_1732469	-0.23684045	0.15455058	-1.80789295
FLJ31713	-0.23681213	0.15456054	-1.80766390
GULP1	0.23681366	0.15456054	1.80767631
FAM111A	0.23682199	0.15456054	1.80774370
AAAS	-0.23682960	0.15456054	-1.80780521

CCNO	-0.23679367	0.15459252	-1.80751463
KY	-0.23678614	0.15459618	-1.80745374
CXorf41	0.23674051	0.15469307	1.80708475
SPOP	0.23673652	0.15469307	1.80705252
SERPINB4	0.23671859	0.15472370	1.80690753
RNF17	-0.23669895	0.15475878	-1.80674867
CCDC41	0.23664012	0.15489553	1.80627296
CHTF8	0.23661217	0.15495219	1.80604698
ELSPBP1	-0.23657806	0.15502485	-1.80577122
CAPS2	0.23656088	0.15505358	1.80563233
TTC26	0.23650745	0.15517649	1.80520033
DENND4C	0.23649404	0.15519545	1.80509190
DYNC2H1	0.23646778	0.15524780	1.80487959
GPR50	-0.23645283	0.15527075	-1.80475875
LCE2B	-0.23644384	0.15527606	-1.80468603
C3orf47	-0.23643856	0.15527606	-1.80464333
ABCC4	0.23641068	0.15532255	1.80441798
C17orf53	-0.23640844	0.15532255	-1.80439989
COPG	0.23638737	0.15534555	1.80422950
HIST1H4H	0.23638859	0.15534555	1.80423933
SDSL	-0.23635101	0.15542422	-1.80393555
C17orf76	-0.23633445	0.15545139	-1.80380168
TBC1D8	0.23630387	0.15551504	1.80355451
C18orf21	0.23628831	0.15553963	1.80342870
DNAJC10	0.23626264	0.15559053	1.80322121
SNX10	-0.23622856	0.15566336	-1.80294569
OPALIN	-0.23615813	0.15583090	-1.80237648
CLCNKA	-0.23607963	0.15601081	-1.80174193
CDC7	0.23607691	0.15601081	1.80171993
EXOC6	0.23604718	0.15607241	1.80147971
WDR88	-0.23599932	0.15614945	-1.80109286
CDH26	0.23600963	0.15614945	1.80117623
GPRIN2	-0.23600533	0.15614945	-1.80114141
SLC17A5	0.23596982	0.15621050	1.80085444
ZNF600	0.23596071	0.15621832	1.80078083
DUXA	-0.23593469	0.15627029	-1.80057058
HDCC2	0.23588188	0.15639228	1.80014380
CAPZA2	0.23585297	0.15645187	1.79991015
FLJ37078	-0.23584258	0.15646306	-1.79982615
PGPEP1	-0.23583050	0.15647865	-1.79972855
HRC	-0.23581548	0.15650193	-1.79960716
POLR1D	0.23580768	0.15650632	1.79954419
STX7	0.23576906	0.15659133	1.79923211
ART3	-0.23575605	0.15660937	-1.79912700
AKR1C1	0.23573809	0.15663927	1.79898188
PELO	0.23572628	0.15663927	1.79888644
CAMKK1	-0.23573155	0.15663927	-1.79892898
CTSD	0.23568265	0.15673745	1.79853390
ZNF808	0.23567409	0.15674385	1.79846475
NDUFC1	0.23566086	0.15675268	1.79835779

HKDC1	-0.23565849	0.15675268	-1.79833871
RFK	0.23554022	0.15704645	1.79738315
OIT3	-0.23552116	0.15708040	-1.79722915
RUNX1T1	-0.23545504	0.15723777	-1.79669498
TEX9	0.23543177	0.15728280	1.79650695
KLKP1	-0.23542095	0.15729514	-1.79641956
COL4A6	-0.23537586	0.15737055	-1.79605528
PMEPA1	-0.23537388	0.15737055	-1.79603932
SGCD	-0.23538468	0.15737055	-1.79612660
C6orf81	-0.23535295	0.15737737	-1.79587022
FLJ36848	-0.23535549	0.15737737	-1.79589074
LOC729566	-0.23536123	0.15737737	-1.79593710
LAYN	0.23532328	0.15743088	1.79563060
DUOX1	0.23530812	0.15743088	1.79550814
TBCE	0.23531551	0.15743088	1.79556780
KRTAP17-1	-0.23530991	0.15743088	-1.79552258
XPO7	0.23529669	0.15744486	1.79541580
ANGPTL7	-0.23524530	0.15756378	-1.79500071
C21orf86	-0.23521547	0.15761319	-1.79475971
TRIM23	0.23521428	0.15761319	1.79475010
GMFB	0.23517475	0.15770103	1.79443080
SCGBL	-0.23514192	0.15775522	-1.79416564
MYOM1	-0.23514307	0.15775522	-1.79417497
HAAO	-0.23513382	0.15776045	-1.79410027
ZNF608	0.23506553	0.15792400	1.79354874
SRP54	0.23505268	0.15793283	1.79344493
TMEM107	0.23504996	0.15793283	1.79342299
VRK3	0.23502957	0.15797043	1.79325828
UBR2	0.23499964	0.15803313	1.79301658
BACH2	-0.23496450	0.15810958	-1.79273280
EIF2AK2	0.23494022	0.15812528	1.79253669
ROBO1	0.23494633	0.15812528	1.79258605
CSPP1	0.23494043	0.15812528	1.79253842
WAS	-0.23491573	0.15817368	-1.79233898
ZNF20	0.23488818	0.15823018	1.79211651
ZNF304	0.23484270	0.15833396	1.79174923
FLJ21075	-0.23480528	0.15841651	-1.79144710
LOC400499	-0.23472728	0.15860620	-1.79081730
NID1	-0.23469127	0.15868517	-1.79052649
C5orf51	0.23468162	0.15869450	1.79044864
PAXIP1	0.23466393	0.15872510	1.79030579
LRRC34	0.23464863	0.15874938	1.79018225
MAGEC1	-0.23463496	0.15876936	-1.79007187
DHX16	0.23460187	0.15884064	1.78980474
MYH4	-0.23453652	0.15899726	-1.78927713
ZFP112	0.23452848	0.15900238	1.78921220
VEZT	0.23448701	0.15909591	1.78887743
GNL3	0.23446702	0.15913264	1.78871607
DNAJC11	0.23443526	0.15920052	1.78845972
CTAGE5	0.23441732	0.15923186	1.78831484

LOC100130423	0.23427540	0.15959170	1.78716930	
C21orf66	0.23425560	0.15962802	1.78700947	
USPL1	0.23420918	0.15968757	1.78663481	
ING1	-0.23421099	0.15968757	-1.78664941	
GPR61	-0.23419776	0.15968757	-1.78654267	
KRIT1	0.23420733	0.15968757	1.78661993	
CCND3	-0.23421191	0.15968757	-1.78665683	
VAPB	0.23419650	0.15968757	1.78653246	
CH25H	0.23413283	0.15984032	1.78601861	
SNRPB2	0.23412273	0.15985091	1.78593713	
MED12L	-0.23410172	0.15989048	-1.78576757	
KRTAP10-8	-0.23407142	0.15995474	-1.78552301	
FN1	-0.23404420	0.15996937	-1.78530336	
HDAC2	0.23405362	0.15996937	1.78537932	
APOD	-0.23405868	0.15996937	-1.78542023	
MIP	-0.23404149	0.15996937	-1.78528143	
MGST2	0.23400806	0.16004195	1.78501168	
PIGA	0.23400031	0.16004632	1.78494914	
STRN3	0.23399221	0.16005162	1.78488378	
ITGA9	-0.23396382	0.16011085	-1.78465466	
C1orf50	0.23392548	0.16019653	1.78434529	
UPF1	0.23391108	0.16021860	1.78422906	
SRY	-0.23389884	0.16023490	-1.78413034	yes
FAM49A	-0.23389122	0.16023893	-1.78406885	
CYB5B	0.23385377	0.16032232	1.78376661	
CEACAM16	-0.23382892	0.16035593	-1.78356618	
GNPTAB	0.23382952	0.16035593	1.78357100	
TMEM180	-0.23381951	0.16036475	-1.78349019	
C11orf70	0.23378576	0.16043831	1.78321790	
ZNF148	0.23377035	0.16046145	1.78309353	
ZNF341	-0.23376486	0.16046145	-1.78304929	
ZNF567	0.23373045	0.16053682	1.78277165	
ADAT3	-0.23371950	0.16054836	-1.78268327	
INTS4	0.23371391	0.16054836	1.78263820	
C17orf81	0.23370484	0.16055628	1.78256500	
C11orf49	0.23369516	0.16056580	1.78248693	
TMPRSS11D	0.23367334	0.16060768	1.78231083	
C1orf84	-0.23364722	0.16066100	-1.78210012	
MT1F	-0.23361750	0.16072325	-1.78186033	
SSB	0.23361165	0.16072325	1.78181320	
HSPB9	-0.23359639	0.16074768	-1.78169002	
FAM155B	-0.23357613	0.16078540	-1.78152664	
NAMPT	-0.23356930	0.16078736	-1.78147150	
PDLIM5	0.23350053	0.16095445	1.78091676	
ZNF584	0.23348170	0.16098843	1.78076482	
GPD1L	0.23341933	0.16113860	1.78026169	
SNORA36C	-0.23339162	0.16116455	-1.78003817	
RCC1	-0.23338521	0.16116455	-1.77998651	
CRKL	0.23339367	0.16116455	1.78005477	
XKR9	-0.23338630	0.16116455	-1.77999527	

ANKRD62	-0.23337385	0.16117859	-1.77989490
LDHAL6A	-0.23328820	0.16138276	-1.77920402
SPRYD4	0.23328522	0.16138276	1.77918003
RMND5B	0.23327339	0.16139808	1.77908462
KLHL23	-0.23323533	0.16147680	-1.77877764
RASAL2	0.23323175	0.16147680	1.77874872
TLR2	0.23320778	0.16152458	1.77855543
KRTAP10-4	-0.23318732	0.16156298	-1.77839045
TTY13	-0.23317484	0.16158007	-1.77828974
COG1	0.23315151	0.16162617	1.77810160
FIT1	-0.23310156	0.16174351	-1.77769880
PON1	-0.23308998	0.16175819	-1.77760538
HSD11B1	-0.23306453	0.16179687	-1.77740014
LOC442075	-0.23306334	0.16179687	-1.77739055
PHLDA3	-0.23305423	0.16180495	-1.77731706
AFG3L2	0.23303565	0.16183837	1.77716724
RAI14	0.23300369	0.16189726	1.77690955
CDKL1	0.23300147	0.16189726	1.77689160
WDR89	0.23298470	0.16191191	1.77675639
AIM1	0.23298381	0.16191191	1.77674921
NDUFA13	-0.23295389	0.16197572	-1.77650797
C1orf52	0.23293235	0.16201711	1.77633427
GCOM1	-0.23291769	0.16204007	-1.77621605
CLEC1A	-0.23288341	0.16211562	-1.77593965
COMMD6	0.23287080	0.16212643	1.77583802
SNORD37	0.23286110	0.16212643	1.77575975
OPN1SW	-0.23286584	0.16212643	-1.77579798
JMJD1B	0.23285127	0.16213644	1.77568050
C5orf53	0.23284394	0.16213975	1.77562142
ALG10B	0.23281720	0.16219511	1.77540582
ATP10D	0.23280286	0.16221724	1.77529019
TPRX1	-0.23278838	0.16223973	-1.77517347
FDX1L	-0.23277021	0.16227183	-1.77502697
USF1	0.23276423	0.16227183	1.77497875
TRDMT1	0.23273461	0.16232235	1.77473992
C14orf166	0.23273322	0.16232235	1.77472873
ZC3H3	-0.23271395	0.16235542	-1.77457338
IAPP	-0.23270872	0.16235542	-1.77453116
AMN	-0.23265906	0.16247235	-1.77413085
RBPMS	-0.23263984	0.16249125	-1.77397590
PRRX2	-0.23264286	0.16249125	-1.77400023
MPHOSPH10	0.23261784	0.16253398	1.77379853
CCR8	-0.23260197	0.16254442	-1.77367057
CST2	-0.23259569	0.16254442	-1.77361994
OR7G2	-0.23260077	0.16254442	-1.77366092
ACAD9	0.23258423	0.16255883	1.77352762
SSX7	-0.23255845	0.16261172	-1.77331979
FAM58B	-0.23252009	0.16269845	-1.77301049
TBC1D5	0.23250254	0.16272924	1.77286907
CXorf36	-0.23245864	0.16283090	-1.77251516

TLCD2	-0.23242594	0.16290246	-1.77225159
LEO1	0.23240616	0.16290654	1.77209218
NDUFAB1	0.23241024	0.16290654	1.77212507
VAR52	-0.23241496	0.16290654	-1.77216314
LRGUK	0.23237147	0.16298348	1.77181259
EDEM3	0.23235153	0.16302008	1.77165187
AGPAT9	0.23234570	0.16302008	1.77160484
PLK4	0.23233306	0.16303771	1.77150299
GPR161	-0.23230178	0.16308913	-1.77125090
BOLL	-0.23230627	0.16308913	-1.77128710
FAM71D	-0.23227450	0.16311370	-1.77103097
OR5AK2	-0.23226852	0.16311370	-1.77098284
SNORD114-2	-0.23226832	0.16311370	-1.77098120
LIPG	-0.23227729	0.16311370	-1.77105346
MACROD1	-0.23225120	0.16314341	-1.77084324
CPO	-0.23223424	0.16316481	-1.77070653
PSG11	-0.23223109	0.16316481	-1.77068112
C6orf125	0.23221597	0.16318914	1.77055929
MCHR1	-0.23219720	0.16322331	-1.77040801
TMEM75	-0.23217915	0.16325553	-1.77026256
ZNF780B	0.23216014	0.16329035	1.77010938
FAM82A1	0.23213413	0.16332765	1.76989977
SSTR5	-0.23213742	0.16332765	-1.76992630
FBXL13	0.23212232	0.16334310	1.76980458
XRCC6BP1	0.23211187	0.16335487	1.76972038
PAPSS2	-0.23209855	0.16337437	-1.76961305
SNORD56B	0.23208337	0.16339891	1.76949069
PCCA	0.23204509	0.16348570	1.76918219
INHBC	-0.23203713	0.16349076	-1.76911809
UGCGL1	0.23201849	0.16352462	1.76896789
FAM168B	0.23200557	0.16352623	1.76886374
KRTAP20-2	-0.23201006	0.16352623	-1.76889997
PDE1B	-0.23199966	0.16352623	-1.76881618
OSTCL	-0.23199048	0.16353462	-1.76874213
GCNT2	0.23197880	0.16354972	1.76864804
SRD5A2	0.23196542	0.16356942	1.76854022
ANKIB1	0.23192578	0.16365991	1.76822088
ZMYND19	-0.23189138	0.16373634	-1.76794365
FAM183B	-0.23187967	0.16375154	-1.76784930
OR5K1	-0.23181885	0.16389930	-1.76735932
LRCH4	-0.23178814	0.16396585	-1.76711186
XPOT	0.23176175	0.16400670	1.76689926
ZC3H18	-0.23176086	0.16400670	-1.76689210
KIAA1199	0.23175234	0.16401331	1.76682344
LOC100133393	-0.23172075	0.16407293	-1.76656893
FAM86A	-0.23171813	0.16407293	-1.76654781
CTCFL	-0.23169106	0.16412966	-1.76632974
SNORD115-48	-0.23167818	0.16414806	-1.76622596
HTR2A	-0.23166716	0.16416144	-1.76613717
IFNA2	-0.23164816	0.16419638	-1.76598412

PNLDC1	-0.23163407	0.16420162	-1.76587064	
CENPP	-0.23163877	0.16420162	-1.76590849	
LOC100130924	-0.23162155	0.16421904	-1.76576982	
WNK1	0.23157839	0.16431934	1.76542213	
PRRG1	-0.23154271	0.16438301	-1.76513473	
ZBTB4	-0.23154549	0.16438301	-1.76515709	
FAM5C	-0.23152831	0.16440556	-1.76501868	
C5orf20	-0.23151832	0.16441615	-1.76493824	
KLHL11	0.23147823	0.16450822	1.76461533	
RNF24	0.23144517	0.16457061	1.76434905	
UCP3	-0.23144305	0.16457061	-1.76433190	
C15orf53	-0.23142411	0.16460544	-1.76417941	
FBXL8	-0.23139442	0.16466941	-1.76394027	
TNRC18	-0.23137179	0.16471427	-1.76375801	
CCDC85C	-0.23135231	0.16475061	-1.76360109	
TGM2	0.23134399	0.16475672	1.76353405	
FLJ35220	-0.23132580	0.16478955	-1.76338758	
DCT	-0.23127515	0.16489395	-1.76297965	
FAM124A	-0.23128045	0.16489395	-1.76302234	
C11orf60	0.23121648	0.16503662	1.76250716	
LRRTM2	-0.23120026	0.16506416	-1.76237655	
ARL6IP5	0.23117302	0.16512162	1.76215716	
C15orf27	-0.23112526	0.16523482	-1.76177252	
C3orf30	-0.23110411	0.16527577	-1.76160220	
LRRC41	0.23106374	0.16535244	1.76127718	
NENF	-0.23106470	0.16535244	-1.76128490	yes
EPCAM	0.23104706	0.16538129	1.76114281	
SVOPL	0.23100879	0.16546880	1.76083468	
FLYWCH1	-0.23098831	0.16549145	-1.76066982	
ORAI3	-0.23098924	0.16549145	-1.76067725	
GHRHR	-0.23097733	0.16550482	-1.76058135	
CCDC141	-0.23097065	0.16550649	-1.76052755	yes
TRY6	-0.23093765	0.16555762	-1.76026185	
ARID4A	0.23093363	0.16555762	1.76022954	
KIAA0753	0.23094060	0.16555762	1.76028565	
TUBA3C	-0.23092104	0.16557538	-1.76012812	
CLEC4C	-0.23090779	0.16559491	-1.76002145	
A3GALT2	-0.23089402	0.16561586	-1.75991056	
DDR2	-0.23088201	0.16563201	-1.75981393	
OR8G1	-0.23087103	0.16564538	-1.75972548	
MMGT1	0.23086496	0.16564538	1.75967666	
GYP A	-0.23081338	0.16576924	-1.75926133	
TMEM141	-0.23079659	0.16579841	-1.75912618	
ACSL4	0.23072420	0.16593454	1.75854336	
JMJD1C	0.23072249	0.16593454	1.75852965	
PGM3	0.23072715	0.16593454	1.75856716	
BMP5	-0.23072233	0.16593454	-1.75852833	
SCNN1B	0.23067994	0.16603350	1.75818707	
MAP3K7IP1	-0.23064068	0.16610004	-1.75787100	
LARS	0.23064785	0.16610004	1.75792875	

SLTM	0.23063732	0.16610004	1.75784402	
CADM3	-0.23062748	0.16611035	-1.75776475	
MSMB	0.23059395	0.16618123	1.75749484	
PUS3	0.23058935	0.16618123	1.75745782	
PLEKHM3	0.23057456	0.16620502	1.75733877	
MAN1C1	-0.23055423	0.16624390	-1.75717519	
COX18	0.23054016	0.16626575	1.75706187	
CAMK2D	0.23050945	0.16633298	1.75681466	
ZMAT2	0.23047790	0.16640252	1.75656072	
SNORD50A	-0.23037388	0.16663684	-1.75572353	
SAR1P3	-0.23038525	0.16663684	-1.75581507	
SLC5A4	-0.23037658	0.16663684	-1.75574528	
PECAM1	-0.23035091	0.16668302	-1.75553868	
C3orf65	-0.23034157	0.16669198	-1.75546349	
PLDN	0.23031417	0.16675028	1.75524299	
DNAJC8	0.23030239	0.16676591	1.75514817	
C3orf57	0.23028533	0.16679597	1.75501086	
MRPS36	0.23027016	0.16682087	1.75488878	
CCL4	0.23023718	0.16689447	1.75462335	
SIRPB2	-0.23016734	0.16705429	-1.75406132	
NEFM	-0.23016663	0.16705429	-1.75405563	
DYDC2	0.23011820	0.16713803	1.75366592	
MYLK2	-0.23012862	0.16713803	-1.75374981	
WDR1	0.23011784	0.16713803	1.75366305	
MMP17	-0.23010092	0.16716775	-1.75352692	
HN1L	0.23008204	0.16720285	1.75337498	
LOC401233	-0.23002388	0.16734556	-1.75290698	
SCLY	-0.22999316	0.16741312	-1.75265981	
CLCC1	0.22995978	0.16748801	1.75239123	
SSX3	-0.22992229	0.16755265	-1.75208955	
HTR1D	-0.22991802	0.16755265	-1.75205523	
AARSD1	-0.22991826	0.16755265	-1.75205713	
C12orf37	-0.22986266	0.16768789	-1.75160982	
PSMB5	0.22985509	0.16769203	1.75154892	
RPGRIP1L	0.22982324	0.16776280	1.75129266	
SOS2	0.22979051	0.16783600	1.75102939	
FIP1L1	0.22977338	0.16786640	1.75089155	
BFSP2	-0.22975527	0.16789948	-1.75074590	
GZMH	-0.22973511	0.16793820	-1.75058372	
OSBPL2	0.22967757	0.16807965	1.75012084	
LOC442245	-0.22964928	0.16814077	-1.74989324	
SLC30A3	-0.22963019	0.16815992	-1.74973970	
CBR3	-0.22963266	0.16815992	-1.74975958	
PTGR1	0.22960060	0.16820734	1.74950164	yes
OR8H2	-0.22959725	0.16820734	-1.74947475	
TTC30A	0.22959476	0.16820734	1.74945473	
LGALS3BP	0.22958202	0.16822573	1.74935221	
C6orf224	0.22956865	0.16823165	1.74924469	
GOLGB1	0.22956775	0.16823165	1.74923741	
ARID5A	-0.22955241	0.16825716	-1.74911408	

BARD1	0.22953715	0.16828247	1.74899132	
DDX53	-0.22949242	0.16838887	-1.74863153	
MATK	-0.22946902	0.16843659	-1.74844335	
C2orf44	0.22939602	0.16862093	1.74785616	
WNT5A	0.22935795	0.16870911	1.74755004	
C9orf86	-0.22934751	0.16872119	-1.74746605	
USP47	0.22932302	0.16877198	1.74726912	
SYPL1	0.22930759	0.16879782	1.74714503	
OR10H1	-0.22928464	0.16884439	-1.74696045	
CCNI	0.22927378	0.16885763	1.74687312	
ARPC1A	0.22923028	0.16890664	1.74652328	
DAO	-0.22923564	0.16890664	-1.74656637	
SNORA71A	-0.22923590	0.16890664	-1.74656853	
BAGE4	-0.22923680	0.16890664	-1.74657570	
CLCA3P	-0.22922572	0.16890664	-1.74648665	
KRTAP5-9	-0.22918473	0.16898629	-1.74615703	
TOMM5	0.22918615	0.16898629	1.74616844	
MAP1LC3B2	-0.22917542	0.16899528	-1.74608215	
TM4SF19	-0.22915435	0.16903672	-1.74591268	
GFPT1	0.22910491	0.16913965	1.74551519	
C11orf92	0.22909551	0.16913965	1.74543961	
OR5B3	-0.22909818	0.16913965	-1.74546102	
CIP29	-0.22909283	0.16913965	-1.74541802	
STAU2	0.22903685	0.16924578	1.74496794	
XKR6	-0.22903623	0.16924578	-1.74496289	yes
YWHAZ	0.22904063	0.16924578	1.74499828	
C17orf46	-0.22901084	0.16929917	-1.74475879	
DEFB111	-0.22896533	0.16940818	-1.74439285	
ITPKA	-0.22895751	0.16941306	-1.74432999	
CYP2D6	-0.22894722	0.16942476	-1.74424730	
SNORD116-18	-0.22892990	0.16943917	-1.74410803	
LOC654342	-0.22893212	0.16943917	-1.74412582	
PPME1	0.22889699	0.16951342	1.74384341	
CLTCL1	-0.22886044	0.16959773	-1.74354960	yes
DSE	0.22883756	0.16964427	1.74336566	
GTF2A1L	-0.22881957	0.16965532	-1.74322100	
STT3B	0.22881871	0.16965532	1.74321409	
LINGO1	-0.22881541	0.16965532	-1.74318759	
TCF7	-0.22879768	0.16967398	-1.74304499	
CCNE1	-0.22879657	0.16967398	-1.74303608	
CNOT4	0.22878852	0.16967950	1.74297139	
MAK16	0.22877333	0.16970479	1.74284926	
DDX41	0.22875259	0.16974542	1.74268258	
STARD6	-0.22872387	0.16980817	-1.74245168	
GJA5	-0.22870663	0.16983913	-1.74231310	
TRAK2	0.22867785	0.16988531	1.74208177	
MXD3	-0.22868096	0.16988531	-1.74210672	
C17orf28	-0.22860312	0.17005879	-1.74148101	
IRG1	-0.22860624	0.17005879	-1.74150610	
TMEM205	0.22857194	0.17012842	1.74123040	

HDGFL1	-0.22852784	0.17023388	-1.74087599
TXN	0.22851282	0.17025876	1.74075523
RAB37	0.22849584	0.17028907	1.74061876
UQCRFS1	-0.22847237	0.17033739	-1.74043013
RBAK	0.22844591	0.17039400	1.74021750
C6orf150	0.22843290	0.17041333	1.74011289
ATF6	0.22842001	0.17041551	1.74000935
APP	0.22842117	0.17041551	1.74001865
GNA14	0.22835096	0.17059041	1.73945434
ZBTB6	0.22831240	0.17068068	1.73914451
AHSA1	0.22828956	0.17071054	1.73896093
OR1F1	-0.22829553	0.17071054	-1.73900888
SCAMP1	0.22827822	0.17072523	1.73886982
SEC24A	0.22826324	0.17075005	1.73874944
PPM1M	-0.22822720	0.17078752	-1.73845982
ERN1	-0.22823384	0.17078752	-1.73851320
KRTAP19-3	-0.22823020	0.17078752	-1.73848396
PODXL	-0.22822557	0.17078752	-1.73844672
SMC4	0.22817797	0.17085078	1.73806422
SLC5A9	-0.22817255	0.17085078	-1.73802064
TMOD4	-0.22816654	0.17085078	-1.73797236
MLLT1	-0.22817985	0.17085078	-1.73807933
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KLF3	0.22124761	0.18513764	1.68251278
MRFAP1L1	0.22124067	0.18514037	1.68245733
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RNF19A	0.22108294	0.18549831	1.68119615
EXOSC10	0.22108746	0.18549831	1.68123232

PKM2	0.22107135	0.18551474	1.68110352
GRTP1	0.22104654	0.18557013	1.68090509
RABGEF1	0.22101752	0.18563786	1.68067315
AKAP1	0.22100679	0.18565179	1.68058734
IL4I1	-0.22098276	0.18568907	-1.68039524
XPO5	0.22098212	0.18568907	1.68039014
FGFBP3	-0.22094929	0.18576809	-1.68012767
CD96	0.22088975	0.18592586	1.67965166
APBB2	-0.22087699	0.18594578	-1.67954967
TSEN15	0.22084171	0.18602970	1.67926761
ZNF426	0.22083652	0.18602970	1.67922615
TMEM74	-0.22080045	0.18611836	-1.67893785
SNORD116-26	-0.22078456	0.18614755	-1.67881078
TADA1L	0.22075176	0.18621684	1.67854861
OR6C65	-0.22074333	0.18621684	-1.67848123
NLRP12	-0.22074307	0.18621684	-1.67847912
METAP2	0.22069849	0.18633068	1.67812285
C20orf181	-0.22068201	0.18636162	-1.67799109
FDPSL2A	0.22060668	0.18656639	1.67738902
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CTTNBP2NL	0.22058679	0.18658968	1.67723005
PDLIM2	-0.22055889	0.18665439	-1.67700709
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DACT2	-0.22049477	0.18675840	-1.67649461
C11orf79	0.22049370	0.18675840	1.67648607
BMI1	0.22050824	0.18675840	1.67660225
TECTA	-0.22049371	0.18675840	-1.67648615
IQCF1	-0.22047118	0.18680727	-1.67630604
ASAH1	0.22046199	0.18681670	1.67623261
MYBL2	-0.22043740	0.18687168	-1.67603609
LONRF3	-0.22042342	0.18689527	-1.67592441
C13orf38	-0.22040449	0.18693352	-1.67577314
ZBTB2	0.22035499	0.18706225	1.67537756
CXorf64	-0.22032883	0.18712194	-1.67516849
PQLC3	0.22028737	0.18722694	1.67483721
RBM26	0.22027925	0.18723323	1.67477231
C5orf26	-0.22027228	0.18723610	-1.67471660
LRRC37B2	0.22025634	0.18724776	1.67458929
HEATR2	0.22026095	0.18724776	1.67462605
TAL2	-0.22024424	0.18726585	-1.67449254
TINP1	0.22017925	0.18744063	1.67397332
FSHR	-0.22013307	0.18753740	-1.67360429
IL15RA	-0.22013669	0.18753740	-1.67363319
PDE7A	0.22012861	0.18753740	1.67356871
LRRK1	0.22008733	0.18764206	1.67323881
MCAT	0.22004086	0.18773764	1.67286762
MYH7B	-0.22004060	0.18773764	-1.67286552
COL14A1	-0.22003112	0.18773764	-1.67278973
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DDX3Y	0.21995782	0.18786618	1.67220416	
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NKAPL	-0.21987365	0.18806270	-1.67153178	
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FLJ45974	-0.21979589	0.18825815	-1.67091062	
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PTBP1	0.21959331	0.18868250	1.66929247	
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GKAP1	0.21945371	0.18900908	1.66817761	
SH3BP2	-0.21942002	0.18909166	-1.66790855	yes
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GKN1	-0.21932009	0.18931360	-1.66711049	
ISOC1	0.21930758	0.18931980	1.66701061	
PSKH1	-0.21927377	0.18940284	-1.66674062	
SVOP	-0.21924788	0.18946223	-1.66653392	
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OVCH2	-0.21916327	0.18964334	-1.66585833	
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TM4SF20	-0.21913440	0.18969378	-1.66562784	
YIPF2	-0.21905606	0.18991009	-1.66500236	
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C3orf64	0.21903534	0.18991620	1.66483694	
C12orf75	0.21903401	0.18991620	1.66482626	
NFATC3	0.21903004	0.18991620	1.66479462	
MRPL20	0.21901369	0.18994719	1.66466406	
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C4orf30	0.21898809	0.18998582	1.66445970	
APPL2	0.21896482	0.18998582	1.66427391	
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ADORA2A	-0.21894757	0.19001099	-1.66413622
CD97	0.21894442	0.19001099	1.66411107
TUBA3E	-0.21893466	0.19001705	-1.66403316
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BACE1	-0.21887247	0.19015461	-1.66353666
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PDCD11	0.21882423	0.19024521	1.66315161
STOX1	0.21879877	0.19025351	1.66294834
DUSP5P	-0.21881256	0.19025351	-1.66305841
PPP1R3B	-0.21879980	0.19025351	-1.66295658
SOCS2	-0.21879751	0.19025351	-1.66293827
DGCR6L	-0.21876469	0.19033386	-1.66267628
PRKACA	-0.21871470	0.19046567	-1.66227727
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AQP3	0.21863521	0.19057829	1.66164281
CASP8AP2	0.21862414	0.19059352	1.66155446
SAT2	-0.21855917	0.19077038	-1.66103592
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RPL29	-0.21851885	0.19085544	-1.66071407
SGSM1	-0.21849568	0.19087106	-1.66052921
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ATF2	0.21838313	0.19113709	1.65963093
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C22orf33	-0.21827125	0.19136534	-1.65873819
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IL1A	-0.21815741	0.19165372	-1.65782981
CAPN13	0.21814291	0.19167933	1.65771414
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FOXJ2	-0.21796608	0.19205113	-1.65630329
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LOC100131017	-0.21772865	0.19253115	-1.65440928
CCT8L2	-0.21773241	0.19253115	-1.65443926
TRAV9-2	-0.21773511	0.19253115	-1.65446082
KRTAP20-1	-0.21771606	0.19253304	-1.65430886
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DKK2	-0.21770554	0.19253831	-1.65422489
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MMP9	-0.21763022	0.19268388	-1.65362415
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HDAC3	0.21753297	0.19281511	1.65284853
PYCR1	-0.21749661	0.19288887	-1.65255850
SIPA1	-0.21749940	0.19288887	-1.65258072
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ZNF597	0.21728927	0.19337130	1.65090503
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UBE2NL	-0.21724493	0.19348746	-1.65055143
ARSI	-0.21720795	0.19356325	-1.65025656
CCKAR	-0.21721289	0.19356325	-1.65029596
ADI1	0.21719182	0.19359401	1.65012794
MFSD5	0.21716807	0.19364786	1.64993859
CCNT1	0.21716082	0.19365173	1.64988075
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PTP4A1	0.21705639	0.19393207	1.64904809
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PHB2	0.21702151	0.19396373	1.64877006
ZNF57	0.21701607	0.19396373	1.64872668
TSPAN12	0.21702405	0.19396373	1.64879031
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FAM92A1	-0.21697083	0.19404662	-1.64836596
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HNRNPC	0.21693785	0.19410331	1.64810303
FAM104A	0.21693422	0.19410331	1.64807414
HMBOX1	0.21691825	0.19413366	1.64794679
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CHD9	0.21687836	0.19420035	1.64762879
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MUC7	-0.21680018	0.19436520	-1.64700555
PAFAH1B3	-0.21680309	0.19436520	-1.64702871
GALNAC4S-6ST	0.21680460	0.19436520	1.64704080
PSMC3	0.21678713	0.19436857	1.64690151
RELT	-0.21678825	0.19436857	-1.64691044
ZNF783	-0.21674306	0.19448112	-1.64655024
AGBL2	0.21673814	0.19448112	1.64651098
CES2	0.21667545	0.19465349	1.64601129
GOSR2	0.21664756	0.19472014	1.64578897
LRRC49	0.21661363	0.19478699	1.64551858
ACTR5	0.21661620	0.19478699	1.64553900
OR5AN1	-0.21660597	0.19479186	-1.64545747
TSPAN8	0.21660009	0.19479186	1.64541066
IL5	-0.21657998	0.19483488	-1.64525035
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MAP4	-0.21648120	0.19505669	-1.64446301
NME1	0.21648078	0.19505669	1.64445974
S100P	0.21647725	0.19505669	1.64443155
CES3	-0.21645075	0.19511920	-1.64422034
EZH2	0.21643290	0.19514890	1.64407811
SLC16A2	-0.21642906	0.19514890	-1.64404750
KLK12	-0.21640636	0.19519985	-1.64386660
OIP5	-0.21637359	0.19528150	-1.64360543
NODAL	-0.21627941	0.19555036	-1.64285496
ZNF667	-0.21622123	0.19570966	-1.64239130
VKORC1	-0.21620736	0.19573376	-1.64228082
C6orf218	-0.21618259	0.19579115	-1.64208342
C8orf45	0.21614775	0.19583996	1.64180580
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TG	-0.21614272	0.19583996	-1.64176576
KIAA0408	-0.21614431	0.19583996	-1.64177840
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DOCK9	0.21608125	0.19599122	1.64127597
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SYAP1	0.21604075	0.19607847	1.64095330
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UPP1	-0.21600527	0.19615891	-1.64067057
OSTalpha	0.21599640	0.19615930	1.64059989
PCP4	-0.21593384	0.19633229	-1.64010153
RBM19	-0.21584169	0.19659601	-1.63936735
NHEDC1	-0.21578969	0.19673695	-1.63895314
ELA1	-0.21577867	0.19675242	-1.63886532
WASF1	-0.21576908	0.19676351	-1.63878892
GPR148	-0.21575586	0.19678571	-1.63868365
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FAM123C	-0.21565228	0.19701168	-1.63785854
C6orf199	0.21565345	0.19701168	1.63786788
OR7D4	-0.21562298	0.19706491	-1.63762515
EPHA6	-0.21562611	0.19706491	-1.63765008
FAM108A5	-0.21561652	0.19706642	-1.63757369
PANX1	0.21560130	0.19709478	1.63745248
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RPUSD3	0.21554111	0.19724279	1.63697308
ZNF828	0.21552846	0.19726329	1.63687233
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WNT11	-0.21548935	0.19734669	-1.63656081
TLK2	0.21547973	0.19735789	1.63648423
ZNF557	0.21545297	0.19741453	1.63627111
PRSS12	0.21544934	0.19741453	1.63624222
CXCL1	0.21541731	0.19747623	1.63598712
KIAA0528	0.21541789	0.19747623	1.63599168
CAPN5	0.21541024	0.19747964	1.63593076
GBP4	0.21537435	0.19749824	1.63564500
SIRT3	-0.21538282	0.19749824	-1.63571241
NUPR1	-0.21538278	0.19749824	-1.63571207
FGD6	0.21537874	0.19749824	1.63567991
ZNF486	0.21539744	0.19749824	1.63582885
OR51T1	-0.21534993	0.19755492	-1.63545050
IGLL1	-0.21534368	0.19755581	-1.63540069
MORF4	-0.21532857	0.19758390	-1.63528036
USP11	0.21530933	0.19762467	1.63512716
ZNF587	0.21529743	0.19764292	1.63503237
ST6GALNAC2	0.21527628	0.19768954	1.63486401
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OCA2	-0.21525930	0.19769094	-1.63472875
FAM38A	-0.21526420	0.19769094	-1.63476778
TFAP4	-0.21523739	0.19773578	-1.63455425
DDX51	-0.21521756	0.19775803	-1.63439642
LOC440093	0.21522057	0.19775803	1.63442035
LYRM7	0.21521226	0.19775803	1.63435419

THOC1	0.21519572	0.19779055	1.63422245	
LCE2D	-0.21517734	0.19782871	-1.63407613	
FAM83G	-0.21515986	0.19786411	-1.63393695	
CCDC3	-0.21514483	0.19789200	-1.63381726	
MRAP	-0.21511492	0.19796564	-1.63357906	
PID1	0.21510881	0.19796610	1.63353041	
FUS	0.21509314	0.19798231	1.63340566	
CSN1S2A	-0.21508886	0.19798231	-1.63337156	
UNQ1945	-0.21508566	0.19798231	-1.63334610	
LOC284912	-0.21507100	0.19800907	-1.63322936	
SLC9A11	0.21504316	0.19807636	1.63300772	
SLC13A2	-0.21502935	0.19810051	-1.63289777	
IQUB	0.21500206	0.19816612	1.63268051	
RORB	-0.21498377	0.19820407	-1.63253489	
OR9Q1	-0.21496225	0.19825196	-1.63236354	
PLXND1	-0.21492533	0.19834728	-1.63206956	yes
USP27X	-0.21491156	0.19837133	-1.63195994	
N4BP2L2	0.21489459	0.19838689	1.63182485	
LRFN3	-0.21489847	0.19838689	-1.63185576	
PRSS35	-0.21485098	0.19850283	-1.63147770	
MARCO	-0.21480649	0.19862154	-1.63112350	
LOC100128751	-0.21475054	0.19877564	-1.63067809	
LOC93622	0.21474327	0.19877970	1.63062019	
TNFSF14	-0.21472834	0.19880734	-1.63050140	
LILRB2	-0.21471310	0.19883598	-1.63038005	
ITGA4	0.21470527	0.19884175	1.63031773	
SMC6	0.21467333	0.19892190	1.63006346	
TMEM200A	0.21464040	0.19898671	1.62980139	
POMGNT1	-0.21464433	0.19898671	-1.62983262	
DEFB115	-0.21461555	0.19904503	-1.62960353	
BPIL2	-0.21449375	0.19940274	-1.62863411	
STK36	0.21447607	0.19941557	1.62849339	
EPN3	-0.21447690	0.19941557	-1.62850002	
CLEC6A	-0.21447173	0.19941557	-1.62845880	
MGP	-0.21444985	0.19946475	-1.62828472	
OR6C70	-0.21443672	0.19947958	-1.62818017	
TSSK1B	-0.21443314	0.19947958	-1.62815173	
ADFP	-0.21441108	0.19951210	-1.62797613	
DPP6	-0.21440475	0.19951210	-1.62792578	
UQCRC1	0.21440536	0.19951210	1.62793058	
UFD1L	0.21439058	0.19953749	1.62781301	
INGX	-0.21435178	0.19963903	-1.62750422	
PTPRE	-0.21431904	0.19966663	-1.62724365	
C2orf3	0.21432075	0.19966663	1.62725722	
CCDC65	0.21432992	0.19966663	1.62733021	
MBD4	0.21432980	0.19966663	1.62732923	
SETD7	0.21428614	0.19973388	1.62698185	
BCL10	0.21428539	0.19973388	1.62697582	
GANAB	0.21425017	0.19982440	1.62669560	
ZNF528	0.21423273	0.19985995	1.62655677	

EAPP	0.21422526	0.19986464	1.62649733
ALDOC	-0.21416276	0.20003966	-1.62600002
LONRF2	-0.21413334	0.20011233	-1.62576591
TOR1B	0.21411814	0.20014096	1.62564498
IGSF1	-0.21408623	0.20022137	-1.62539106
hCG_24312	-0.21403739	0.20033582	-1.62500244
FAM113B	-0.21404175	0.20033582	-1.62503713
RBM43	0.21400277	0.20039991	1.62472696
FAM83E	-0.21399885	0.20039991	-1.62469582
ELA2A	-0.21401051	0.20039991	-1.62478854
DENND2D	0.21399076	0.20040654	1.62463146
RNASEK	0.21393269	0.20055632	1.62416942
VILL	0.21393056	0.20055632	1.62415243
ZHX3	-0.21391483	0.20056816	-1.62402733
HHEX	-0.21391502	0.20056816	-1.62402884
CYB561D1	-0.21390467	0.20058124	-1.62394644
DNAJC17	-0.21389628	0.20058880	-1.62387969
CD5	-0.21387121	0.20064809	-1.62368029
LOC220077	-0.21385085	0.20069281	-1.62351828
DNAJC27	0.21380107	0.20082883	1.62312228
NDOR1	-0.21368161	0.20117793	-1.62217200
CYCS	0.21367679	0.20117793	1.62213360
NLRP13	-0.21366972	0.20118139	-1.62207739
SPC24	-0.21364685	0.20123398	-1.62189546
ALAS1	0.21362632	0.20127930	1.62173216
SERPING1	-0.21358647	0.20138473	-1.62141516
LOC650157	-0.21356999	0.20141748	-1.62128409
CCDC111	0.21351470	0.20155997	1.62084434
SRP72	0.21351064	0.20155997	1.62081202
ZYX	-0.21350634	0.20155997	-1.62077781
RUVBL2	0.21348473	0.20160704	1.62060596
PCDH11X	-0.21347931	0.20160704	-1.62056285
NFKBIZ	0.21344423	0.20169774	1.62028381
RNF39	-0.21342671	0.20173377	-1.62014444
AHCTF1	0.21341598	0.20174865	1.62005911
TTC30B	0.21340733	0.20175705	1.61999031
C17orf79	-0.21336207	0.20187949	-1.61963039
CEBPZ	0.21330828	0.20196324	1.61920260
BRD4	-0.21331528	0.20196324	-1.61925829
BACE2	-0.21331799	0.20196324	-1.61927982
GLT8D3	0.21331914	0.20196324	1.61928891
CCDC6	0.21330544	0.20196324	1.61918000
KCNJ6	-0.21329121	0.20198904	-1.61906686
POLR3G	-0.21327457	0.20202236	-1.61893451
TUBGCP5	0.21325647	0.20206024	1.61879054
CD83	-0.21324007	0.20209281	-1.61866015
ATRX	0.21321450	0.20215400	1.61845679
NPM3	-0.21317717	0.20225187	-1.61815995
OTUD6A	-0.21314824	0.20229090	-1.61792992
TSSK2	-0.21314681	0.20229090	-1.61791854

PAK3	-0.21315564	0.20229090	-1.61798872	
TMEM156	0.21313866	0.20229776	1.61785373	
DOCK7	0.21304954	0.20255736	1.61714509	
HSPA1A	0.21302044	0.20262968	1.61691365	
TLL5	0.21298810	0.20267522	1.61665653	yes
SGEF	0.21298801	0.20267522	1.61665584	
DENND1C	-0.21299036	0.20267522	-1.61667448	
GSTCD	0.21297624	0.20269342	1.61656221	
PRPF40B	-0.21294322	0.20277798	-1.61629974	
LNPEP	0.21293148	0.20279608	1.61620640	
GLE1	0.21289048	0.20288928	1.61588040	
FIS1	-0.21288119	0.20288928	-1.61580649	
RNF20	0.21287213	0.20288928	1.61573447	
LOC643233	-0.21288134	0.20288928	-1.61580770	
IGSF8	-0.21287193	0.20288928	-1.61573288	
RPS2P9	-0.21285712	0.20291697	-1.61561516	
UBE2CBP	0.21284439	0.20293817	1.61551398	
FAM120B	0.21282396	0.20298346	1.61535154	
UGT2B28	-0.21276021	0.20316427	-1.61484469	
ZNF256	0.21272826	0.20322702	1.61459071	
FRMD7	-0.21273274	0.20322702	-1.61462637	
KIN	0.21271229	0.20325837	1.61446380	
USP50	-0.21270447	0.20326426	-1.61440159	
DIDO1	0.21269378	0.20327910	1.61431663	
KLRG1	0.21267678	0.20330196	1.61418147	
LIPK	-0.21267458	0.20330196	-1.61416403	
WFDC10A	-0.21263679	0.20338307	-1.61386355	
GPX2	0.21263996	0.20338307	1.61388881	
CDK5RAP2	0.21262857	0.20339017	1.61379827	
ITGB3	-0.21259832	0.20346630	-1.61355776	
CYTH3	-0.21258889	0.20347719	-1.61348284	
C2orf24	0.21257173	0.20351232	1.61334643	
FBXO43	-0.21254915	0.20356445	-1.61316691	yes
SNORD32A	-0.21253858	0.20357892	-1.61308293	
GPR174	0.21250212	0.20367455	1.61279311	
PBX3	-0.21246082	0.20378537	-1.61246484	
CMTM4	0.21244888	0.20380204	1.61236999	
OPA3	-0.21244361	0.20380204	-1.61232809	
ATP8B4	0.21243630	0.20380632	1.61227000	
LOC100128840	-0.21242872	0.20381147	-1.61220970	
ELP4	0.21236431	0.20399483	1.61169779	
CLDN6	-0.21233530	0.20406719	-1.61146726	
XCL2	-0.21228759	0.20419829	-1.61108806	
C2orf84	-0.21227514	0.20421873	-1.61098908	
PXMP2	-0.21225163	0.20427386	-1.61080229	
FAM47B	-0.21223188	0.20429855	-1.61064535	
FLJ25770	-0.21223320	0.20429855	-1.61065581	
UHRF1BP1L	0.21220961	0.20434984	1.61046834	
SPANXN5	-0.21220134	0.20435714	-1.61040264	
ADAM9	0.21219268	0.20436569	1.61033378	

TNFRSF13B	-0.21215085	0.20447844	-1.61000136	
CHST6	0.21211861	0.20455192	1.60974516	
RBBP7	0.21211558	0.20455192	1.60972109	
MAP3K11	-0.21209480	0.20457134	-1.60955601	yes
RPS4Y1	0.21208633	0.20457134	1.60948866	
SRR	0.21208563	0.20457134	1.60948313	
WASL	0.21209858	0.20457134	1.60958602	
HIST1H3E	0.21203077	0.20472513	1.60904723	
C18orf51	-0.21199837	0.20480834	-1.60878979	
MDFIC	-0.21199044	0.20481461	-1.60872673	
CC2D1A	-0.21195605	0.20490411	-1.60845349	
VAC14	0.21194435	0.20492222	1.60836056	
LOC100132622	-0.21193731	0.20492568	-1.60830462	
ACAD8	0.21192993	0.20493022	1.60824594	
OR2G2	-0.21189736	0.20501402	-1.60798717	
LIPH	0.21187451	0.20505252	1.60780562	
GML	-0.21187165	0.20505252	-1.60778286	
CHCHD7	0.21186137	0.20505252	1.60770122	
CRYZL1	0.21186699	0.20505252	1.60774585	
INF2	-0.21181194	0.20518944	-1.60730854	
ATP8B2	-0.21177466	0.20528818	-1.60701229	
RAB43	-0.21174714	0.20533832	-1.60679367	
NDUFV2	0.21174188	0.20533832	1.60675190	
ZNF552	0.21174092	0.20533832	1.60674430	
FBXO2	-0.21166536	0.20555778	-1.60614400	
CENPA	-0.21165284	0.20557852	-1.60604456	
C19orf10	-0.21162103	0.20566013	-1.60579183	
LOC100128775	-0.21161072	0.20567391	-1.60570994	
LOC648987	0.21159215	0.20571374	1.60556247	
FLJ44477	-0.21155920	0.20579899	-1.60530068	
CDS1	0.21149613	0.20597932	1.60479973	yes
CDK3	-0.21147958	0.20601281	-1.60466830	
GDF3	-0.21143681	0.20612917	-1.60432853	
CXXC5	-0.21140253	0.20621872	-1.60405626	
IL18BP	-0.21134077	0.20637640	-1.60356573	
VPS33B	0.21134569	0.20637640	1.60360483	
OSBP	0.21132391	0.20641094	1.60343180	
SORBS1	-0.21131087	0.20643337	-1.60332827	
LOC100131792	-0.21128620	0.20647934	-1.60313235	
HP	-0.21127258	0.20647934	-1.60302414	
ZNF250	0.21128358	0.20647934	1.60311150	
DCLK3	-0.21127802	0.20647934	-1.60306738	
PABPC1L	-0.21124555	0.20654606	-1.60280947	
KCTD20	0.21120264	0.20666304	1.60246869	
CD247	-0.21119603	0.20666516	-1.60241622	
AKR1CL1	-0.21118320	0.20668698	-1.60231431	
CDC73	0.21117538	0.20669290	1.60225227	
PRDM15	-0.21116756	0.20669889	-1.60219009	
MPHOSPH8	0.21114173	0.20676184	1.60198499	
ISG15	-0.21109415	0.20689371	-1.60160714	

ANKDD1B	0.21104640	0.20702615	1.60122801
ZNF252	0.21101135	0.20711843	1.60094963
OR2AK2	-0.21099291	0.20715805	-1.60080322
HTR3A	-0.21092784	0.20733131	-1.60028655
MMP28	-0.21092639	0.20733131	-1.60027505
FUT10	0.21091182	0.20735869	1.60015936
FETUB	-0.21089067	0.20739016	-1.59999143
SLC6A15	0.21089002	0.20739016	1.59998630
RP11-167P23.2	-0.21087652	0.20741415	-1.59987909
SLC25A11	0.21078719	0.20767887	1.59916982
ZNF648	-0.21074880	0.20775157	-1.59886501
TBC1D17	-0.21075390	0.20775157	-1.59890556
UGT2A3	-0.21074648	0.20775157	-1.59884662
ALDH2	0.21072420	0.20780347	1.59866976
VSIG8	-0.21070638	0.20783102	-1.59852826
TAS2R7	-0.21070365	0.20783102	-1.59850661
WDR74	0.21062649	0.20805740	1.59789403
LOC203510	-0.21059926	0.20812511	-1.59767786
ARL4A	0.21052348	0.20832882	1.59707630
UMODL1	-0.21052335	0.20832882	-1.59707528
FBXO39	-0.21049733	0.20839275	-1.59686869
RRM1	0.21049013	0.20839674	1.59681160
PIK3R2	-0.21044965	0.20848781	-1.59649025
PURA	0.21045232	0.20848781	1.59651146
LLPH	0.21043218	0.20852451	1.59635162
MBD2	0.21040236	0.20860058	1.59611491
KLRK1	0.21038173	0.20864737	1.59595118
ADRBK2	0.21037471	0.20865084	1.59589541
FOXO1	-0.21036358	0.20866738	-1.59580705
ATP6V0D2	-0.21030927	0.20882153	-1.59537601
SLC39A2	-0.21027776	0.20888410	-1.59512594
IMPDH2	0.21028081	0.20888410	1.59515012
FANCB	-0.21021592	0.20906241	-1.59463510
AXL	-0.21020327	0.20908380	-1.59453474
RPS15AP25	-0.21019067	0.20910505	-1.59443476
NEDD4L	0.21017297	0.20914258	1.59429427
ANKHD1	0.21012230	0.20928535	1.59389216
LRRC29	-0.21009621	0.20931176	-1.59368512
MSH4	-0.21010379	0.20931176	-1.59374529
CROP	0.21009704	0.20931176	1.59369165
CCDC66	0.21006456	0.20937490	1.59343396
RPP25	-0.21006461	0.20937490	-1.59343435
ERH	0.21002273	0.20947057	1.59310202
WNT2	-0.21002339	0.20947057	-1.59310720
PSMD8	0.21000574	0.20950589	1.59296716
IL26	-0.20998555	0.20955141	-1.59280699
SOX15	-0.20993123	0.20968707	-1.59237592
PNMA6A	-0.20993480	0.20968707	-1.59240430
CLCN4	-0.20990615	0.20973661	-1.59217693
FBXL2	0.20990386	0.20973661	1.59215872

GNAS	-0.20988632	0.20977370	-1.59201958
GRPR	-0.20987138	0.20979789	-1.59190101
MCM3AP	0.20986688	0.20979789	1.59186532
HEXIM1	0.20984787	0.20983970	1.59171449
CCDC58	0.20982688	0.20988785	1.59154793
MOSPD1	0.20981991	0.20989113	1.59149267
PDIA3P	0.20980169	0.20990918	1.59134812
C12orf26	0.20980296	0.20990918	1.59135813
IQGAP1	0.20979646	0.20990918	1.59130663
IFFO1	-0.20975588	0.21002004	-1.59098459
DHX57	0.20966886	0.21027958	1.59029425
CFTR	0.20964295	0.21034358	1.59008863
LUC7L2	0.20961382	0.21040689	1.58985754
LOC654780	-0.20961131	0.21040689	-1.58983765
NPC1L1	-0.20956872	0.21052434	-1.58949980
SIGLEC14	-0.20955460	0.21052536	-1.58938775
ACOT7	-0.20954466	0.21052536	-1.58930894
PROKR2	-0.20956122	0.21052536	-1.58944026
GYPE	-0.20954505	0.21052536	-1.58931199
PRR15	0.20951813	0.21059136	1.58909849
SLC26A2	0.20949927	0.21063280	1.58894887
TMEM174	-0.20946724	0.21071648	-1.58869480
RAB12	0.20944235	0.21074442	1.58849733
N4BP3	-0.20944660	0.21074442	-1.58853106
LMLN	0.20944073	0.21074442	1.58848445
SOS1	0.20942681	0.21077003	1.58837405
GBP5	0.20940089	0.21083412	1.58816849
LOC150622	-0.20934462	0.21098535	-1.58772211
NINJ2	-0.20934190	0.21098535	-1.58770051
LOC100131581	0.20932826	0.21100729	1.58759236
ESF1	0.20932319	0.21100729	1.58755217
PRR5	-0.20923580	0.21126889	-1.58685898
ELA3B	-0.20921710	0.21129082	-1.58671069
IGSF3	0.20922072	0.21129082	1.58673938
SPATA5	0.20913073	0.21151871	1.58602571
IL1F6	-0.20912839	0.21151871	-1.58600716
ICAM1	-0.20913094	0.21151871	-1.58602734
PRELP	-0.20909303	0.21161335	-1.58572670
IRF9	0.20905807	0.21170152	1.58544946
LRRC4C	-0.20905375	0.21170152	-1.58541519
NDRG1	-0.20902382	0.21177874	-1.58517782
GSTA4	0.20900923	0.21178748	1.58506217
PHEX	0.20901156	0.21178748	1.58508063
PCGF5	0.20899869	0.21180231	1.58497857
FAM169B	-0.20893812	0.21197817	-1.58449828
LOC100133091	-0.20889325	0.21210358	-1.58414246
MYST4	0.20888227	0.21211986	1.58405534
OR6C2	-0.20885094	0.21220166	-1.58380696
CDK5	-0.20868387	0.21272140	-1.58248224
ATPBD3	-0.20866954	0.21274847	-1.58236868

CEP135	0.20864763	0.21280006	1.58219493	
SLC13A4	-0.20863441	0.21282356	-1.58209016	
CROCCL2	-0.20862847	0.21282358	-1.58204306	
ADRB3	-0.20862142	0.21282717	-1.58198716	
PARS2	-0.20860088	0.21285518	-1.58182429	
NPHP1	0.20860279	0.21285518	1.58183948	
ME3	0.20858648	0.21288250	1.58171017	
C4orf45	-0.20856653	0.21292777	-1.58155200	
ZNF451	0.20854868	0.21296627	1.58141045	
BCDIN3D	0.20851447	0.21303843	1.58113930	
SBF2	0.20851828	0.21303843	1.58116947	
MCTP2	0.20850663	0.21304459	1.58107714	
SPATA6	0.20849304	0.21306934	1.58096937	
NR3C1	0.20846150	0.21315210	1.58071934	
PITRM1	0.20841120	0.21318136	1.58032060	
MGEA5	0.20841686	0.21318136	1.58036549	
SLCO6A1	-0.20841247	0.21318136	-1.58033066	
TAS2R3	0.20841091	0.21318136	1.58031836	
NIN	0.20841386	0.21318136	1.58034167	
EPB41L4A	0.20844541	0.21318136	1.58059183	
KLF4	0.20842784	0.21318136	1.58045254	
GBAP	0.20835712	0.21333610	1.57989195	
LOC100130815	-0.20833251	0.21339651	-1.57969685	
RANBP2	0.20831375	0.21343800	1.57954818	
CD160	-0.20830137	0.21345885	-1.57945006	
OR10H2	-0.20826208	0.21352521	-1.57913863	
HDDC3	-0.20826595	0.21352521	-1.57916930	
PCDHA7	-0.20825332	0.21352521	-1.57906915	
ZDHHC14	-0.20827265	0.21352521	-1.57922239	
PGBD1	-0.20825121	0.21352521	-1.57905242	
FMO4	0.20821779	0.21361415	1.57878759	
C1QTNF3	-0.20821018	0.21361960	-1.57872723	
CNGA1	-0.20818757	0.21365438	-1.57854807	
SMPD3	0.20819167	0.21365438	1.57858051	
C11orf80	0.20817902	0.21366288	1.57848025	
WNT4	-0.20816635	0.21368468	-1.57837988	
PTPN9	0.20810854	0.21385266	1.57792171	
GIF	-0.20810223	0.21385390	-1.57787168	
TMEM33	0.20808403	0.21389366	1.57772741	
KRT9	-0.20806240	0.21394453	-1.57755597	
XPNPEP3	0.20799231	0.21415244	1.57700056	
ATG4A	0.20798302	0.21416334	1.57692690	
CBLL1	0.20796027	0.21421788	1.57674662	yes
APPL1	0.20793106	0.21429339	1.57651511	
LOC85391	0.20791677	0.21432048	1.57640193	
SIN3B	-0.20786454	0.21447072	-1.57598799	
AURKB	-0.20778765	0.21470107	-1.57537877	
ZNF652	-0.20776527	0.21475450	-1.57520144	
RPL32P3	0.20771305	0.21490491	1.57478764	
BATF2	-0.20764971	0.21497588	-1.57428574	

TRBV5-1	-0.20767090	0.21497588	-1.57445366	
SHROOM2	-0.20767716	0.21497588	-1.57450327	
LOC442028	-0.20765642	0.21497588	-1.57433897	
PNOC	-0.20767737	0.21497588	-1.57450492	
SLC37A1	0.20765293	0.21497588	1.57431133	
C4orf16	0.20766418	0.21497588	1.57440041	
SLC29A4	-0.20763360	0.21500896	-1.57415813	
C8orf59	0.20762585	0.21501487	1.57409674	
E2F2	-0.20758091	0.21504537	-1.57374065	
PPIL6	0.20759111	0.21504537	1.57382152	
TM4SF1	0.20760660	0.21504537	1.57394425	
C15orf39	-0.20758985	0.21504537	-1.57381147	
FAM160B2	-0.20758233	0.21504537	-1.57375190	
CRTC3	-0.20759645	0.21504537	-1.57386378	
GLT8D4	-0.20757117	0.21505774	-1.57366353	
C10orf63	0.20753715	0.21514909	1.57339399	
GJB4	-0.20749722	0.21524038	-1.57307768	
SYT9	-0.20749959	0.21524038	-1.57309641	
C2orf15	0.20747054	0.21530791	1.57286629	
CALCOCO1	-0.20745959	0.21532426	-1.57277953	
NARG1L	0.20745308	0.21532616	1.57272796	
HCN4	-0.20743648	0.21536068	-1.57259647	
BBX	0.20742475	0.21536068	1.57250354	
RAB6A	0.20742469	0.21536068	1.57250310	
IMP4	0.20741728	0.21536552	1.57244436	
KRTAP12-3	-0.20738832	0.21539036	-1.57221496	
MAGEA4	-0.20737704	0.21539036	-1.57212562	
OR4Q3	-0.20737314	0.21539036	-1.57209471	
PGD	0.20739753	0.21539036	1.57228787	
SNORD20	0.20737406	0.21539036	1.57210196	
MYO1G	0.20736819	0.21539036	1.57205545	
ZNF577	-0.20737610	0.21539036	-1.57211817	
RNU5E	-0.20735442	0.21541588	-1.57194642	
ZNF643	-0.20726927	0.21565937	-1.57127186	
PANK3	0.20726777	0.21565937	1.57126002	
PAGE2	-0.20725893	0.21566889	-1.57118998	
TUBG2	-0.20724991	0.21567896	-1.57111856	
OR2G3	-0.20721596	0.21577025	-1.57084962	
B3GALTL	0.20719808	0.21580922	1.57070798	
LOXL1	-0.20717255	0.21587310	-1.57050577	
NOTCH3	-0.20716656	0.21587332	-1.57045834	
MGC45922	-0.20714915	0.21591075	-1.57032045	
KIAA1432	0.20712551	0.21596849	1.57013322	
OR2Y1	-0.20708500	0.21608126	-1.56981234	
KRTAP5-1	-0.20703338	0.21622525	-1.56940349	
NDRG3	0.20702900	0.21622525	1.56936885	
PHKA1	0.20698485	0.21631362	1.56901914	
ZNF823	0.20698415	0.21631362	1.56901365	yes
CAPNS2	0.20699330	0.21631362	1.56908613	
DUSP13	-0.20696966	0.21634158	-1.56889889	

MAK	0.20693200	0.21644517	1.56860062	
UBIAD1	-0.20691736	0.21645432	-1.56848467	
KRT76	-0.20692249	0.21645432	-1.56852534	
GATA2	-0.20689399	0.21650405	-1.56829960	
HRK	-0.20689028	0.21650405	-1.56827025	
PDPN	-0.20685676	0.21651689	-1.56800476	
MUCL1	0.20687001	0.21651689	1.56810974	
WDR66	0.20686879	0.21651689	1.56810008	
HSPA4L	0.20686112	0.21651689	1.56803931	yes
TUBA1A	0.20686026	0.21651689	1.56803252	
RNF10	0.20682076	0.21661508	1.56771975	
LILRA2	-0.20681107	0.21662742	-1.56764296	
MXI1	-0.20679975	0.21663508	-1.56755330	
CCDC102B	-0.20679689	0.21663508	-1.56753067	
ADCK2	0.20676744	0.21671193	1.56729746	
CCDC146	0.20675907	0.21671992	1.56723125	
AXIN1	-0.20672689	0.21680573	-1.56697640	
PRRC1	0.20662674	0.21711377	1.56618336	
SERPINE1	-0.20660264	0.21717322	-1.56599260	
NSMCE4A	0.20655475	0.21728343	1.56561341	
CHD7	0.20656201	0.21728343	1.56567088	yes
WRN	0.20655120	0.21728343	1.56558533	
LRRTM1	-0.20651533	0.21738146	-1.56530131	
C1orf190	-0.20650927	0.21738194	-1.56525329	
SLC48A1	-0.20644714	0.21756597	-1.56476145	
FBXO41	-0.20642911	0.21760566	-1.56461867	
FAM19A2	-0.20640344	0.21765174	-1.56441546	
JMJD2D	-0.20640320	0.21765174	-1.56441362	
APBA1	-0.20638901	0.21767887	-1.56430122	
C18orf10	0.20629339	0.21795237	1.56354424	
ANKRD16	0.20629882	0.21795237	1.56358726	
NR2F1	-0.20628781	0.21795237	-1.56350011	
ACTR1A	0.20626325	0.21801351	1.56330566	
CCDC117	0.20622846	0.21810822	1.56303028	
CCDC150	-0.20615244	0.21831886	-1.56242854	
SDHB	0.20615412	0.21831886	1.56244185	
PPARGC1A	-0.20609015	0.21850399	-1.56193549	
LOC100130967	-0.20607480	0.21853446	-1.56181404	
FLNA	-0.20606903	0.21853446	-1.56176838	
SLC16A13	0.20601872	0.21868034	1.56137016	
FOXN3	0.20599331	0.21874441	1.56116904	
DEFB114	-0.20595448	0.21883350	-1.56086171	
CXorf27	-0.20595438	0.21883350	-1.56086089	
GPX3	-0.20594647	0.21884004	-1.56079831	
UNC119B	0.20593991	0.21884215	1.56074639	
FAM92A2	-0.20592368	0.21887605	-1.56061797	
RPS23	0.20588954	0.21896887	1.56034779	
PARP11	0.20586181	0.21904065	1.56012829	
STK33	0.20585508	0.21904332	1.56007503	
AQP4	0.20583405	0.21907355	1.55990865	

SLCO2A1	-0.20583550	0.21907355	-1.55992011
MUPCDH	-0.20582382	0.21908776	-1.55982765
LOC100129396	0.20581294	0.21910409	1.55974156
PGC	-0.20577485	0.21920998	-1.55944013
PIK3C2A	0.20575682	0.21924984	1.55929749
TAS2R41	-0.20573293	0.21930901	-1.55910844
TRAF3IP1	0.20571793	0.21933894	1.55898971
C20orf195	-0.20569578	0.21939239	-1.55881447
PRPF18	0.20562959	0.21959099	1.55829067
CLSTN1	0.20561848	0.21960811	1.55820276
HLA-DQB1	0.20558638	0.21969440	1.55794880
PCDHGB3	-0.20553427	0.21984674	-1.55753647
ARPC5L	0.20552250	0.21985657	1.55744336
SH3BGRL3	-0.20551945	0.21985657	-1.55741923
GAF3	-0.20548823	0.21990102	-1.55717216
BTBD7	0.20549225	0.21990102	1.55720399
SLC25A20	0.20549060	0.21990102	1.55719091
CYorf15A	0.20546928	0.21994399	1.55702231
PPAN	-0.20539979	0.22015384	-1.55647245
FSCN3	-0.20534745	0.22030713	-1.55605841
SEC22A	0.20533596	0.22032553	1.55596751
CYS1	-0.20532403	0.22034541	-1.55587309
ZNF671	-0.20528469	0.22045582	-1.55556193
ARPP-19	0.20526707	0.22049450	1.55542252
GTSF1L	-0.20524491	0.22053084	-1.55524718
IFRG15	0.20524424	0.22053084	1.55524190
VWF	-0.20523103	0.22055497	-1.55513736
HEYL	-0.20520578	0.22061887	-1.55493765
C11orf39	-0.20518781	0.22062870	-1.55479547
PCSK4	-0.20518806	0.22062870	-1.55479748
WDR54	0.20518506	0.22062870	1.55477372
SLC6A8	-0.20517789	0.22063282	-1.55471706
R3HCC1	-0.20512456	0.22078962	-1.55429520
GAGE1	-0.20507097	0.22092777	-1.55387131
CCHCR1	-0.20507267	0.22092777	-1.55388475
TMEM201	-0.20505591	0.22094029	-1.55375212
CCDC113	0.20505536	0.22094029	1.55374781
C1orf9	0.20504347	0.22096005	1.55365379
ANKRD11	-0.20502131	0.22099863	-1.55347846
SCAND1	-0.20501999	0.22099863	-1.55346802
ABCC2	-0.20501270	0.22100317	-1.55341037
KIAA0040	0.20499774	0.22103312	1.55329203
ZFY	0.20498104	0.22106309	1.55315995
OR2H2	-0.20497685	0.22106309	-1.55312685
OR51G1	-0.20494392	0.22115254	-1.55286638
C10orf91	-0.20491213	0.22123822	-1.55261496
SNORD115-15	-0.20488609	0.22125756	-1.55240899
SLC46A1	-0.20488157	0.22125756	-1.55237321
ITPR2	-0.20487673	0.22125756	-1.55233494
MST1R	0.20488093	0.22125756	1.55236815

SOD2	0.20489102	0.22125756	1.55244796	
TFDP1	0.20485864	0.22127832	1.55219187	
PYGO2	-0.20486358	0.22127832	-1.55223093	
ZNF626	0.20482144	0.22134280	1.55189765	
FLJ20674	-0.20482495	0.22134280	-1.55192542	
GIGYF1	-0.20483095	0.22134280	-1.55197293	
SNORD83A	-0.20481386	0.22134832	-1.55183773	
LRR1Q1	0.20476174	0.22150143	1.55142554	
MAP3K4	0.20472179	0.22161426	1.55110960	
PPAPDC1B	0.20471191	0.22162740	1.55103150	
IGFBP4	-0.20470421	0.22163333	-1.55097063	
PFKFB4	-0.20466811	0.22173346	-1.55068510	
HMGA2	-0.20465118	0.22176999	-1.55055126	
CPXM2	-0.20461855	0.22185862	-1.55029323	
SURF6	-0.20460117	0.22189670	-1.55015574	
AGTR2	-0.20457953	0.22194887	-1.54998468	
RAPGEF4	-0.20456004	0.22195471	-1.54983057	
RND1	-0.20456999	0.22195471	-1.54990926	
TTF2	0.20456127	0.22195471	1.54984031	
FBF1	-0.20452943	0.22203670	-1.54958851	
SLC16A14	-0.20446578	0.22218104	-1.54908521	
CLEC14A	-0.20445050	0.22218104	-1.54896440	yes
KCTD4	-0.20446965	0.22218104	-1.54911585	
RASGRF2	-0.20445309	0.22218104	-1.54898491	
ZNF135	-0.20446644	0.22218104	-1.54909047	
TOX4	0.20445633	0.22218104	1.54901054	
CPXCR1	-0.20444280	0.22218699	-1.54890352	
ANGPTL4	-0.20440666	0.22228739	-1.54861779	
ALOX12	-0.20438728	0.22229288	-1.54846459	
ASB4	-0.20438935	0.22229288	-1.54848093	
CMIP	0.20439272	0.22229288	1.54850758	
EIF1AX	0.20437331	0.22230343	1.54835407	
UBAP2L	0.20437229	0.22230343	1.54834608	
KRT78	-0.20433136	0.22241188	-1.54802245	
MMS19	0.20432784	0.22241188	1.54799459	
TYW3	0.20429806	0.22249120	1.54775917	
IFNK	-0.20425710	0.22260771	-1.54743535	
RAD18	0.20420139	0.22277332	1.54699495	
BSG	0.20415476	0.22290882	1.54662631	
CXorf22	0.20414566	0.22291210	1.54655440	
ACAD10	0.20414196	0.22291210	1.54652512	
LOC100129038	-0.20406241	0.22315725	-1.54589629	
ALS2CR4	0.20404946	0.22318070	1.54579394	
SNORD116-28	0.20403185	0.22321969	1.54565470	
DSG2	0.20397294	0.22339627	1.54518909	
TMED8	0.20396702	0.22339634	1.54514223	
C1orf187	-0.20391316	0.22355617	-1.54471656	
GLRB	-0.20389371	0.22360135	-1.54456280	
C12orf54	-0.20384285	0.22375128	-1.54416084	
PHLDB1	-0.20383501	0.22375772	-1.54409889	

ZNF813	0.20381147	0.22381657	1.54391280
RPL23AP37	-0.20377030	0.22391453	-1.54358744
APOBEC4	0.20377560	0.22391453	1.54362932
GLT1D1	-0.20374912	0.22394578	-1.54342005
SNORD61	0.20375011	0.22394578	1.54342785
LOC100133425	0.20371760	0.22401156	1.54317096
SCPEP1	0.20371899	0.22401156	1.54318195
LGALS13	-0.20366987	0.22415127	-1.54279368
ZNF549	-0.20365368	0.22418559	-1.54266578
ATL2	0.20364404	0.22419806	1.54258961
APOA5	-0.20363122	0.22422115	-1.54248829
FSD2	-0.20362116	0.22423503	-1.54240879
TTC21B	0.20361294	0.22424278	1.54234378
SLC7A11	0.20359552	0.22428122	1.54220617
CLEC7A	-0.20357554	0.22432827	-1.54204824
MARCH9	-0.20356054	0.22435864	-1.54192975
NFE2L3	0.20352008	0.22447416	1.54161001
CERKL	0.20349836	0.22452703	1.54143838
LOC440104	-0.20346547	0.22461728	-1.54117847
AQP5	-0.20344685	0.22465982	-1.54103133
EVC	-0.20343138	0.22469180	-1.54090912
FAM127C	-0.20338826	0.22481632	-1.54056843
GPC4	0.20338091	0.22482115	1.54051035
PCGF6	-0.20336820	0.22484391	-1.54040994
UBE4A	0.20334847	0.22489020	1.54025402
DNAH5	0.20333705	0.22490866	1.54016377
GNG10	-0.20332093	0.22494283	-1.54003646
FLJ32682	-0.20331188	0.22495337	-1.53996493
PIP4K2B	-0.20330508	0.22495637	-1.53991118
CRCT1	-0.20329787	0.22496074	-1.53985421
FBXL6	-0.20328482	0.22498466	-1.53975112
THSD1	-0.20326763	0.22502243	-1.53961534
TMEM104	-0.20325762	0.22503621	-1.53953618
FKBP8	-0.20323249	0.22510057	-1.53933770
USP54	0.20322387	0.22510969	1.53926955
CEP27	0.20316957	0.22525204	1.53884055
UTP14C	0.20317422	0.22525204	1.53887735
CD276	-0.20315477	0.22528184	-1.53872366
PPAT	0.20314699	0.22528814	1.53866216
SPATA7	0.20307551	0.22550795	1.53809750
NRBF2	-0.20304536	0.22558927	-1.53785932
PENK	-0.20303085	0.22561812	-1.53774472
LOC729627	-0.20299504	0.22571847	-1.53746183
KAT2A	-0.20294109	0.22587972	-1.53703567
LAMB2	-0.20292784	0.22589361	-1.53693098
OR5K2	-0.20291924	0.22589361	-1.53686307
CXorf57	0.20292326	0.22589361	1.53689484
ROPN1L	0.20289585	0.22595232	1.53667831
EGR2	-0.20286809	0.22602573	-1.53645900
SMARCE1	0.20285888	0.22603681	1.53638632

TRBV28	-0.20283020	0.22611331	-1.53615978
LGALS12	-0.20279689	0.22620542	-1.53589663
TMEM119	-0.20276060	0.22630754	-1.53561000
CNPY2	-0.20273909	0.22634426	-1.53544013
PGBD3	0.20273611	0.22634426	1.53541663
C6orf97	0.20273196	0.22634426	1.53538384
EVL	-0.20270823	0.22638436	-1.53519638
FBXO30	0.20271254	0.22638436	1.53523043
C11orf64	-0.20269556	0.22640711	-1.53509630
PCDHA4	-0.20268777	0.22641343	-1.53503484
B3GNT9	-0.20266980	0.22645402	-1.53489290
COL5A2	-0.20265709	0.22647692	-1.53479249
FAM110C	-0.20264949	0.22648261	-1.53473251
RPS26P39	-0.20255465	0.22672223	-1.53398353
ADARB2	-0.20255936	0.22672223	-1.53402067
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FAM13B	0.20256145	0.22672223	1.53403722
CST3	-0.20249244	0.22691178	-1.53349222
SNORA37	-0.20245597	0.22701473	-1.53320421
BRE	0.20243294	0.22707241	1.53302237
TTRAP	0.20242246	0.22708783	1.53293962
CXorf59	0.20234069	0.22730374	1.53229389
RPS15AP17	-0.20234588	0.22730374	-1.53233488
EFCAB1	0.20234128	0.22730374	1.53229862
CCDC89	0.20232029	0.22731279	1.53213287
KRTAP19-5	-0.20232299	0.22731279	-1.53215414
C7orf49	0.20233143	0.22731279	1.53222083
FANK1	0.20230972	0.22732852	1.53204942
KCNT2	-0.20227511	0.22742532	-1.53177615
KLRF1	0.20221976	0.22759212	1.53133908
ANKRD18B	0.20220838	0.22760745	1.53124927
RP3-402G11.5	-0.20220341	0.22760745	-1.53121003
MFN2	0.20218260	0.22765777	1.53104567
TIPIN	0.20217244	0.22767214	1.53096545
PGS1	0.20213741	0.22777045	1.53068889
ENOSF1	0.20210898	0.22783631	1.53046442
MAPK1	0.20210610	0.22783631	1.53044168
CALML5	-0.20208352	0.22789262	-1.53026343
EFHB	0.20202932	0.22805574	1.52983554
CMC1	0.20199868	0.22809944	1.52959368
C9orf106	-0.20200707	0.22809944	-1.52965991
SPANXN2	-0.20200323	0.22809944	-1.52962956
LMO4	0.20198562	0.22812365	1.52949054
C4orf26	-0.20194784	0.22819376	-1.52919231
RPL22	0.20195627	0.22819376	1.52925889
TMC7	0.20194717	0.22819376	1.52918701
C5orf15	0.20192806	0.22821847	1.52903614
hCG_1647286	-0.20193385	0.22821847	-1.52908185
DIP2B	0.20188698	0.22833738	1.52871189
DNPEP	0.20186812	0.22838119	1.52856302

PRTFDC1	0.20186073	0.22838623	1.52850468
C14orf1	0.20183579	0.22845063	1.52830779
EMP2	0.20182250	0.22847560	1.52820294
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C20orf151	-0.20175515	0.22861206	-1.52767125
PHC2	-0.20176652	0.22861206	-1.52776105
ANXA3	0.20174677	0.22861206	1.52760516
APOC1	-0.20174987	0.22861206	-1.52762958
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CHCHD1	0.20166018	0.22884692	1.52692168
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TMC2	-0.20164424	0.22885394	-1.52679589
FPR3	0.20163992	0.22885394	1.52676179
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HIGD2BP	-0.20157055	0.22902895	-1.52621427
CDH29	0.20157241	0.22902895	1.52622896
SEMA3E	-0.20152404	0.22916653	-1.52584724
NEO1	0.20148594	0.22925568	1.52554655
C6orf162	0.20148650	0.22925568	1.52555099
CD6	-0.20142909	0.22942843	-1.52509790
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SERP1	0.20139930	0.22946946	1.52486281
ZNF71	-0.20139270	0.22947185	-1.52481073
ZNF676	-0.20137483	0.22947612	-1.52466969
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SPRR2E	-0.20134084	0.22952833	-1.52440152
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PGM1	-0.20128752	0.22964864	-1.52398077
C17orf70	-0.20127395	0.22967472	-1.52387362
BDKRB2	0.20126041	0.22970063	1.52376685
DEPDC7	-0.20124675	0.22972701	-1.52365900
GREM2	-0.20122784	0.22977119	-1.52350979
TLE3	-0.20121582	0.22979196	-1.52341499
STX2	0.20119476	0.22982346	1.52324877
ZNF841	0.20119632	0.22982346	1.52326113
ANGPTL2	-0.20117515	0.22984211	-1.52309404
FAM154B	0.20117351	0.22984211	1.52308111
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CCAR1	0.20111888	0.22994103	1.52265010
LOC441046	-0.20107989	0.23005345	-1.52234242

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MKS1	0.20098337	0.23024925	1.52158099
KRTAP24-1	-0.20098102	0.23024925	-1.52156238
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EMR3	-0.20093565	0.23036338	-1.52120450
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SHPK	0.20090216	0.23041718	1.52094027
MCART3P	-0.20088997	0.23043860	-1.52084410
CCDC120	-0.20087029	0.23048550	-1.52068882
TLR8	-0.20081989	0.23063688	-1.52029123
THAP6	0.20080219	0.23067706	1.52015160
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SYNGR1	-0.20076065	0.23075826	-1.51982398
PHC3	0.20075188	0.23076809	1.51975474
SH2D7	-0.20074500	0.23077070	-1.51970051
BAT4	-0.20073934	0.23077070	-1.51965583
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OR9A4	-0.20058629	0.23119155	-1.51844863
ERF	-0.20058977	0.23119155	-1.51847609
MED24	0.20057377	0.23121414	1.51834989
BRUNOL6	-0.20054900	0.23127849	-1.51815451
RASSF1	-0.20048882	0.23145926	-1.51767989
TIGD4	0.20048419	0.23145926	1.51764335
USP5	0.20044792	0.23156285	1.51735732
CCDC21	0.20043431	0.23158919	1.51724999
OBSCN	-0.20041339	0.23164046	-1.51708500
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MRAP2	0.20036166	0.23174462	1.51667700
PGM5	-0.20035942	0.23174462	-1.51665937
FBXO42	0.20035343	0.23174462	1.51661210
XPA	0.20035836	0.23174462	1.51665101
LOC168474	-0.20032932	0.23178672	-1.51642195
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PICALM	0.20029770	0.23187453	1.51617265
RP1	0.20029171	0.23187490	1.51612537
LRIT2	-0.20025047	0.23199559	-1.51580017
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SCRN3	0.20019892	0.23213694	1.51539366
SIRT1	0.20016854	0.23221510	1.51515412
PLEKHA1	0.20013846	0.23229777	1.51491695
CAPN6	-0.20009499	0.23242624	-1.51457418
DHCR24	0.20007209	0.23248441	1.51439362

AKAP9	0.20005512	0.23252233	1.51425976	
MUC1	0.20004109	0.23255016	1.51414918	
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EFCAB10	0.19997891	0.23270248	1.51365886	
C21orf59	0.19998393	0.23270248	1.51369845	
MAP3K7IP2	0.19996929	0.23271525	1.51358303	
CDH5	-0.19996017	0.23272630	-1.51351115	
DNM1	-0.19994842	0.23274066	-1.51341852	
SRM	-0.19994420	0.23274066	-1.51338526	
AKR1A1	0.19990367	0.23282678	1.51306569	
NUB1	0.19990831	0.23282678	1.51310228	
DBNDD2	-0.19989550	0.23282678	-1.51300127	
RP9	-0.19989830	0.23282678	-1.51302337	
HMHA1	-0.19988300	0.23284943	-1.51290269	
RPL29P8	-0.19987109	0.23284989	-1.51280886	
SLC22A24	-0.19987166	0.23284989	-1.51281335	
PSPH	0.19984853	0.23290698	1.51263097	
C7orf62	-0.19979180	0.23306094	-1.51218370	
SP2	-0.19979427	0.23306094	-1.51220317	
KLHL26	-0.19977501	0.23308131	-1.51205136	
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CD22	-0.19976805	0.23308182	-1.51199648	yes
PPPDE2	-0.19974842	0.23312890	-1.51184174	
TMEM194A	0.19972024	0.23320528	1.51161958	
NEK10	0.19970230	0.23324658	1.51147819	
GGH	0.19969193	0.23326196	1.51139642	
PHF5A	-0.19964957	0.23338694	-1.51106255	
CPB1	-0.19963961	0.23339913	-1.51098403	
APOB48R	-0.19962837	0.23339913	-1.51089541	
RBL1	0.19962876	0.23339913	1.51089850	
BIRC5	-0.19962098	0.23340431	-1.51083715	
KCTD1	0.19960774	0.23342952	1.51073281	
CYP4B1	0.19957455	0.23352315	1.51047117	
GAS2	-0.19955803	0.23353173	-1.51034090	
GDF5OS	-0.19956259	0.23353173	-1.51037687	
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ZNF367	-0.19952071	0.23362710	-1.51004680	
LOC100129191	-0.19951409	0.23362964	-1.50999462	
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TMCO4	0.19944532	0.23380504	1.50945253	
ITPK1	-0.19942886	0.23384132	-1.50932285	
SMCP	-0.19940731	0.23389512	-1.50915296	
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HEXIM2	-0.19929526	0.23419906	-1.50826988	
CAMP	-0.19928747	0.23420565	-1.50820845	
PLP2	0.19925623	0.23429274	1.50796231	
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RPLP1	0.19920979	0.23439172	1.50759630	
SMR3A	-0.19919636	0.23441767	-1.50749046	
CD1D	-0.19914191	0.23458465	-1.50706136	
TMC1	-0.19912169	0.23461373	-1.50690206	
ALAS2	-0.19912434	0.23461373	-1.50692289	
ROBLD3	-0.19908102	0.23473340	-1.50658154	
ZNF717	0.19905890	0.23478927	1.50640724	
SMC2	0.19903857	0.23479854	1.50624706	
FAM76A	0.19904327	0.23479854	1.50628411	
EFCAB4A	-0.19904932	0.23479854	-1.50633178	
NINJ1	-0.19899019	0.23494479	-1.50586584	
ZNF138	0.19898116	0.23495566	1.50579464	
OR5AR1	-0.19896953	0.23496991	-1.50570302	
DAAM1	0.19895938	0.23496991	1.50562306	
AKR7A2	0.19896518	0.23496991	1.50566880	
GPX4	0.19894916	0.23498332	1.50554256	
RBM38	-0.19894373	0.23498332	-1.50549976	
SEC63	0.19890615	0.23508019	1.50520367	
SMOC2	-0.19890384	0.23508019	-1.50518543	
ARF6	-0.19889774	0.23508094	-1.50513741	
ASB15	-0.19888266	0.23510041	-1.50501856	
LCORL	0.19887791	0.23510041	1.50498116	
GUSBL2	0.19887446	0.23510041	1.50495396	
RRP1B	0.19885613	0.23514329	1.50480955	
ARHGEF17	-0.19884733	0.23515336	-1.50474021	
LIPN	-0.19883157	0.23518740	-1.50461604	
DENND3	-0.19881185	0.23519109	-1.50446065	
SCGB2A1	0.19882112	0.23519109	1.50453373	
ZFP106	0.19880700	0.23519109	1.50442249	
NAT11	0.19881536	0.23519109	1.50448831	
OSBPL7	-0.19878904	0.23521251	-1.50428092	
RUNX3	-0.19879460	0.23521251	-1.50432474	
SNCA	0.19872269	0.23542080	1.50375825	
LOC391081	-0.19871501	0.23542704	-1.50369770	
DDX25	-0.19870676	0.23543523	-1.50363272	
BHMT2	-0.19868812	0.23547922	-1.50348587	
ABCC11	-0.19867560	0.23550213	-1.50338722	
BTBD11	0.19865626	0.23554853	1.50323490	
EIF2AK4	0.19858550	0.23577224	1.50267749	
ZFC3H1	0.19857513	0.23578775	1.50259580	
NBEA	0.19856181	0.23579319	1.50249084	
OR11G2	-0.19856661	0.23579319	-1.50252865	
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CHD4	0.19848930	0.23600282	1.50191970	
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C11orf30	0.19843851	0.23611732	1.50151961	yes
LOC100131756	-0.19842317	0.23615002	-1.50139875	
IRS1	-0.19840430	0.23619489	-1.50125012	

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C5orf42	0.19838058	0.23624632	1.50106332	
ZNF675	0.19832362	0.23638092	1.50061462	
SERPINB9	0.19833272	0.23638092	1.50068630	
ZNF654	0.19832108	0.23638092	1.50059462	
ZNF826	-0.19829808	0.23644008	-1.50041350	
PVRL4	0.19828200	0.23647536	1.50028683	
GUCA2B	-0.19822313	0.23662073	-1.49982319	
LOC441601	-0.19822232	0.23662073	-1.49981684	
QPCTL	-0.19822459	0.23662073	-1.49983471	
BATF	-0.19819053	0.23671033	-1.49956647	
MYPN	-0.19817050	0.23675929	-1.49940872	
PAQR6	-0.19814960	0.23679099	-1.49924407	
DDX46	0.19815032	0.23679099	1.49924976	
ARMCX6	-0.19814149	0.23679872	-1.49918023	
LOC284009	-0.19811069	0.23684435	-1.49893764	
RXFP1	-0.19811948	0.23684435	-1.49900686	
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LOC100133405	0.19810354	0.23684877	1.49888136	
CCND2	-0.19808466	0.23689377	-1.49873268	
ATP6VOC	0.19800929	0.23713427	1.49813913	
ZNF493	0.19796283	0.23726431	1.49777330	
HNMT	0.19795412	0.23726431	1.49770466	
TRPS1	0.19795726	0.23726431	1.49772943	
ZFP42	-0.19794508	0.23727528	-1.49763350	
FSTL4	-0.19790223	0.23740336	-1.49729608	
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PASK	0.19783339	0.23760121	1.49675405	
LOC100128496	-0.19781945	0.23760883	-1.49664431	
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LOC100130794	-0.19777736	0.23767337	-1.49631285	
HFM1	-0.19778521	0.23767337	-1.49637472	
IGFBP6	-0.19778241	0.23767337	-1.49635265	
ATP2A3	-0.19779215	0.23767337	-1.49642936	
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LOC643699	-0.19763085	0.23812049	-1.49515937	
SFRS12	0.19760296	0.23817655	1.49493979	
ZCCHC14	0.19760369	0.23817655	1.49494553	
L1CAM	-0.19758128	0.23823145	-1.49476908	
FLJ20184	0.19756442	0.23826960	1.49463638	
HDX	-0.19754757	0.23829794	-1.49450376	
IFNW1	-0.19754037	0.23829794	-1.49444708	
NAGLU	-0.19753419	0.23829794	-1.49439837	
PLD1	0.19753278	0.23829794	1.49438731	
GALNT10	-0.19752017	0.23832134	-1.49428806	
TRAV13-2	0.19750448	0.23835546	1.49416453	
MOBP	-0.19747551	0.23841533	-1.49393643	
SDAD1	0.19747660	0.23841533	1.49394505	
CCDC122	0.19742771	0.23856100	1.49356017	

VEGFC	-0.19740086	0.23863391	-1.49334883
RNF38	0.19739088	0.23864821	1.49327026
C5orf35	0.19737311	0.23864881	1.49313034
WDR37	0.19738358	0.23864881	1.49321274
C1orf35	-0.19737697	0.23864881	-1.49316077
RPL23AP7	-0.19732436	0.23873172	-1.49274661
C16orf84	-0.19732520	0.23873172	-1.49275324
HEATR5B	0.19731992	0.23873172	1.49271168
SELENBP1	0.19732082	0.23873172	1.49271875
SNORD28	0.19732241	0.23873172	1.49273130
KRTAP5-6	-0.19730119	0.23875606	-1.49256424
MORN2	0.19730191	0.23875606	1.49256989
DUT	0.19729526	0.23875627	1.49251760
MFSD3	-0.19722716	0.23897268	-1.49198157
C17orf45	0.19719556	0.23903043	1.49173282
FBXO15	0.19719795	0.23903043	1.49175166
SH3RF1	0.19719297	0.23903043	1.49171241
CLU	-0.19716262	0.23911559	-1.49147359
C14orf4	-0.19715406	0.23912498	-1.49140619
CYP24A1	0.19714135	0.23914881	1.49130615
GPR146	-0.19712450	0.23918703	-1.49117355
DEFB124	-0.19707044	0.23934842	-1.49074805
IL13RA2	-0.19706641	0.23934842	-1.49071635
TBCEL	0.19705086	0.23937857	1.49059397
RNF213	0.19704602	0.23937857	1.49055588
EPRS	0.19702227	0.23944085	1.49036899
S100A2	0.19700844	0.23946860	1.49026013
CTDSP1	-0.19696439	0.23960163	-1.48991344
KIF27	0.19695846	0.23960187	1.48986676
COQ5	0.19694512	0.23962790	1.48976181
CTCF	0.19687792	0.23984168	1.48923299
MRGPRD	-0.19686385	0.23987029	-1.48912227
MT1G	-0.19682996	0.23996803	-1.48885557
LRIG3	0.19679428	0.24007204	1.48857480
BMP8A	-0.19678343	0.24008944	-1.48848940
TUBB	0.19676951	0.24011755	1.48837987
PGAM2	-0.19675486	0.24014819	-1.48826461
FBLL1	-0.19672369	0.24023648	-1.48801940
EDEM2	0.19671408	0.24024959	1.48794371
CD79B	-0.19667844	0.24035353	-1.48766328
OAF	-0.19665057	0.24040989	-1.48744400
ATHL1	-0.19665225	0.24040989	-1.48745723
SASS6	0.19663378	0.24042824	1.48731194
MEIS2	-0.19663358	0.24042824	-1.48731037
TTC13	0.19656601	0.24064379	1.48677873
ZNF620	-0.19650491	0.24083685	-1.48629802
STOML3	0.19646152	0.24096807	1.48595664
CMKLR1	-0.19644339	0.24101097	-1.48581400
C1orf101	0.19637335	0.24119447	1.48526298
IFT172	0.19638010	0.24119447	1.48531608

DCTPP1	0.19637520	0.24119447	1.48527752	
SNORD51	0.19632115	0.24135665	1.48485238	
ADCYAP1	-0.19631096	0.24136697	-1.48477224	
PHRF1	-0.19630647	0.24136697	-1.48473691	
ZNF445	0.19629566	0.24138430	1.48465183	
LPCAT1	-0.19625175	0.24151751	-1.48430647	
MGST3	0.19622136	0.24160343	1.48406741	
SELL	-0.19617035	0.24174650	-1.48366616	
KIAA0586	0.19616881	0.24174650	1.48365400	
NTM	-0.19611300	0.24192157	-1.48321507	
RPL36AP49	-0.19609290	0.24197149	-1.48305698	
WDR32	0.19596083	0.24241446	1.48201815	
ATXN2	0.19595359	0.24241926	1.48196123	yes
MBIP	0.19591623	0.24251526	1.48166739	
CATSPERB	0.19591452	0.24251526	1.48165397	
TBC1D2	0.19588668	0.24254377	1.48143506	
BAX	-0.19589098	0.24254377	-1.48146887	
TGFBR1	0.19587707	0.24254377	1.48135943	
ZMYM1	0.19588053	0.24254377	1.48138664	
ABCG1	-0.19588821	0.24254377	-1.48144705	
LOC100129113	-0.19586654	0.24254409	-1.48127660	
CXorf1	-0.19586524	0.24254409	-1.48126643	
CC2D2A	0.19585863	0.24254672	1.48121442	
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LOC100128501	-0.19579777	0.24269873	-1.48073578	
SCRIB	-0.19579946	0.24269873	-1.48074909	
FAM131C	-0.19578320	0.24272932	-1.48062120	
RPS12	0.19572620	0.24290906	1.48017297	
LOC440742	-0.19569651	0.24299282	-1.47993954	
GPR114	-0.19566793	0.24305090	-1.47971481	
DTX4	-0.19567176	0.24305090	-1.47974493	
LOC284422	-0.19566240	0.24305090	-1.47967132	
PRPF19	0.19565055	0.24307198	1.47957808	
CALML6	-0.19563337	0.24311176	-1.47944304	
ELN	-0.19560436	0.24319321	-1.47921488	
TMEM214	-0.19553815	0.24340559	-1.47869432	
SNRNP70	-0.19549947	0.24352116	-1.47839016	
FZD1	-0.19541088	0.24381262	-1.47769368	
TRPC4	-0.19532641	0.24408984	-1.47702951	
FRMPD1	-0.19531276	0.24411727	-1.47692226	
ATG4B	-0.19525854	0.24428791	-1.47649600	
CLCA4	0.19521755	0.24441192	1.47617373	
FNIP1	0.19518164	0.24451802	1.47589141	
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GFER	-0.19512435	0.24466146	-1.47544110	
POLR3E	0.19512343	0.24466146	1.47543383	
INO80D	0.19501634	0.24501932	1.47459205	
LOC100133315	0.19500965	0.24502222	1.47453945	
SORBS2	-0.19499327	0.24505939	-1.47441071	
NMRAL1	-0.19493956	0.24522865	-1.47398860	

HSPA6	-0.19492243	0.24526851	-1.47385392	
EPHB3	-0.19490990	0.24527129	-1.47375545	
FLJ42280	-0.19491470	0.24527129	-1.47379319	
C15orf24	0.19487995	0.24535544	1.47352004	
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MRPL32	0.19479947	0.24560000	1.47288747	
LARGE	-0.19478239	0.24563969	-1.47275330	
IGSF6	-0.19476547	0.24567884	-1.47262032	
IER3IP1	0.19472963	0.24576425	1.47233862	
DBR1	0.19473174	0.24576425	1.47235517	
RBM24	0.19470361	0.24581486	1.47213414	
KRT5	0.19470500	0.24581486	1.47214507	
TAS2R60	-0.19469464	0.24582583	-1.47206367	
TTC24	-0.19465181	0.24593606	-1.47172707	
IL33	0.19465556	0.24593606	1.47175656	
BLNK	0.19462116	0.24602392	1.47148623	
NCL	0.19461232	0.24603446	1.47141674	
LOC401127	-0.19457684	0.24609786	-1.47113788	
CDKAL1	0.19458134	0.24609786	1.47117328	
SPAG6	0.19457925	0.24609786	1.47115684	
LOC392285	-0.19456447	0.24611946	-1.47104071	
C10orf95	-0.19455901	0.24611946	-1.47099778	
WNT5B	-0.19454321	0.24615468	-1.47087365	
METTL2B	0.19452198	0.24620917	1.47070685	
SNRNP48	0.19449927	0.24626893	1.47052838	
CUL4B	0.19448906	0.24628433	1.47044818	
ZBBX	0.19448299	0.24628505	1.47040045	
LOC143188	-0.19444797	0.24638853	-1.47012524	
C16orf74	-0.19441753	0.24647575	-1.46988608	
MAD2L1BP	0.19438643	0.24656536	1.46964169	
NIPSNAP3B	0.19437461	0.24658648	1.46954885	
MLC1	-0.19426651	0.24686059	-1.46869951	
ANXA5	0.19427315	0.24686059	1.46875165	
C1orf118	-0.19427354	0.24686059	-1.46875475	
TNAP	-0.19427480	0.24686059	-1.46876464	
RPS7	-0.19426225	0.24686059	-1.46866602	
CHST2	-0.19428714	0.24686059	-1.46886159	
OR1A2	-0.19418587	0.24708582	-1.46806592	
HAGHL	-0.19418682	0.24708582	-1.46807344	
N4BP1	0.19418129	0.24708582	1.46802997	yes
CLEC10A	-0.19417260	0.24709586	-1.46796168	
FUT9	-0.19415983	0.24709954	-1.46786135	
PIP5K1C	-0.19416150	0.24709954	-1.46787450	
GPR15	0.19415368	0.24710052	1.46781310	
GALM	0.19412930	0.24716636	1.46762155	
HNRNP42	0.19406626	0.24736979	1.46712627	
FOXQ1	-0.19404784	0.24741446	-1.46698157	
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DISP1	0.19403599	0.24741487	1.46688848	
CCDC17	0.19401095	0.24747166	1.46669177	

FLVCR2	-0.19400830	0.24747166	-1.46667096	
RERE	-0.19394554	0.24767423	-1.46617796	
PDIA4	0.19393346	0.24769636	1.46608306	
AFAP1L1	-0.19390056	0.24772994	-1.46582467	
MAFF	-0.19390070	0.24772994	-1.46582572	
MFNG	-0.19390436	0.24772994	-1.46585448	
WDR52	0.19390364	0.24772994	1.46584885	
CD1A	-0.19389056	0.24774468	-1.46574608	
MRPL45	0.19384842	0.24787390	1.46541509	
THAP11	-0.19373599	0.24825381	-1.46453202	
FAM124B	-0.19372567	0.24826971	-1.46445095	
CLEC9A	-0.19369409	0.24836143	-1.46420294	
DNAJB4	0.19367838	0.24837366	1.46407957	
CEACAM20	-0.19367306	0.24837366	-1.46403775	
S1PR3	-0.19367880	0.24837366	-1.46408287	
DGCR6	-0.19358467	0.24866823	-1.46334358	
LOC100129677	-0.19356697	0.24871048	-1.46320458	
JAM2	-0.19355255	0.24874104	-1.46309130	
SEZ6L2	-0.19347258	0.24898484	-1.46246326	
ZNF282	-0.19347266	0.24898484	-1.46246390	
ZNF639	0.19344373	0.24906698	1.46223673	
LOC100128398	-0.19342191	0.24912399	-1.46206541	
TAOK3	0.19340255	0.24915124	1.46191339	
SLC22A4	0.19340536	0.24915124	1.46193546	
ANO5	-0.19339016	0.24915357	-1.46181611	
PARL	0.19339106	0.24915357	1.46182314	
SLC7A2	0.19337839	0.24917468	1.46172367	
AEN	-0.19337126	0.24917920	-1.46166767	
LGI3	-0.19336141	0.24919343	-1.46159035	
PKHD1L1	-0.19334902	0.24921676	-1.46149305	yes
TMPRSS11A	0.19333064	0.24926151	1.46134873	
P4HA2	0.19332294	0.24926809	1.46128820	
COQ2	0.19327243	0.24942779	1.46089159	
ZNF69	-0.19321343	0.24961793	-1.46042836	
RGS10	-0.19319299	0.24962810	-1.46026784	
VEZF1	0.19319794	0.24962810	1.46030671	
IPO13	0.19320367	0.24962810	1.46035170	
RAB33A	-0.19314843	0.24976664	-1.45991798	

genename	r-value	FDR	t-value	CMH-associated
PTMS	-0.67822079	0.00013415	-6.84461309	yes
RPL23AP64	-0.63304953	0.00125102	-6.06478806	yes
GLIPR2	0.61312062	0.00262380	5.75580472	yes
TRIM50	-0.59918994	0.00301955	-5.55042872	
GRB14	-0.60434501	0.00301955	-5.62547348	
PIGV	0.59770734	0.00301955	5.52904676	
LOC100133366	-0.56953599	0.00311077	-5.13864311	
GDF11	-0.58354572	0.00311077	-5.32914168	yes
DACT3	-0.57414326	0.00311077	-5.20053144	
ADSL	0.57673926	0.00311077	5.23572621	
DGKG	-0.57005414	0.00311077	-5.14556719	yes
FOXF1	-0.57951239	0.00311077	-5.27358505	
KIAA0802	-0.57016097	0.00311077	-5.14699586	
CSTF2T	0.59203311	0.00311077	5.44802171	
GABRG3	-0.57124214	0.00311077	-5.16147679	
NBPF22P	-0.57955089	0.00311077	-5.27411258	
HNRNPF	0.57714626	0.00311077	5.24126541	yes
EMR4P	-0.57241592	0.00311077	-5.17724328	
FLJ42418	-0.57232834	0.00311077	-5.17606524	
GMPR2	0.57431387	0.00311077	5.20283727	
SOX18	-0.57396150	0.00311077	-5.19807611	
C9orf11	-0.57149989	0.00311077	-5.16493489	
MOGAT2	-0.56966026	0.00311077	-5.14030288	
DYNLL1	0.57613723	0.00311077	5.22754330	
LAMA1	-0.56712053	0.00335157	-5.10648446	
RP11-410N8.4	-0.56498619	0.00351335	-5.07823037	
GLI1	-0.56374784	0.00351335	-5.06190607	yes
DGKI	-0.56372905	0.00351335	-5.06165870	
ATP1B2	-0.55848854	0.00397052	-4.99312931	
OAZ1	0.55920539	0.00397052	5.00245158	
MRPS16	0.55774155	0.00397052	4.98343243	
VHL	0.55757648	0.00397052	4.98129193	

ZIC5	-0.55836590	0.00397052	-4.99153614	
WDR40A	0.55666111	0.00401967	4.96943796	
C11orf71	0.55599382	0.00402637	4.96081315	
C1orf43	0.55514306	0.00403808	4.94983702	
MN1	-0.55471693	0.00403808	-4.94434783	yes
LOC441476	-0.55337883	0.00417919	-4.92714727	
ADM2	-0.55229158	0.00427818	-4.91321176	
SNORD116-4	-0.52426219	0.00440012	-4.56579292	
LOC100129654	-0.52570243	0.00440012	-4.58311718	
LOC100133142	-0.53129102	0.00440012	-4.65086055	yes
CDKN1C	-0.53034416	0.00440012	-4.63932419	
RPP38	0.54115620	0.00440012	4.77252511	
SLMO1	-0.54442036	0.00440012	-4.81338712	
CYP46A1	-0.53339784	0.00440012	-4.67661699	
KLK8	-0.54417696	0.00440012	-4.81032952	
RNF157	-0.54022532	0.00440012	-4.76092818	
CLTA	0.53235576	0.00440012	4.66386220	
C17orf95	0.52788769	0.00440012	4.60950729	
C20orf166	-0.52514538	0.00440012	-4.57641016	
PNCK	-0.52546814	0.00440012	-4.58029522	yes
SERPINA12	-0.52774086	0.00440012	-4.60773006	
TTC7B	-0.53684902	0.00440012	-4.71907206	
LOC146336	-0.53730918	0.00440012	-4.72475781	
FAM71A	-0.52909547	0.00440012	-4.62414727	yes
IGSF5	-0.53971504	0.00440012	-4.75458153	
UPP2	-0.54379115	0.00440012	-4.80548647	
C9orf96	-0.52962199	0.00440012	-4.63054158	
ARID3A	-0.54239318	0.00440012	-4.78797388	
SLC35F1	-0.52580611	0.00440012	-4.58436635	
FOXC2	-0.54406258	0.00440012	-4.80889321	
FZD2	-0.52764675	0.00440012	-4.60659133	
TMEM158	-0.53571254	0.00440012	-4.70505514	
GATA6	-0.52894794	0.00440012	-4.62235685	

DAPP1	0.53318867	0.00440012	4.67405439	yes
BHLHE22	-0.52800340	0.00440012	-4.61090811	
GNAO1	-0.53388258	0.00440012	-4.68256026	yes
C10orf53	-0.52836015	0.00440012	-4.61522949	
C1orf167	-0.52474063	0.00440012	-4.57154187	
MRPL18	0.54302469	0.00440012	4.79587789	
UCRC	0.54963769	0.00440012	4.87934741	
TIMM22	0.53246103	0.00440012	4.66514932	
MNX1	-0.52646662	0.00440012	-4.59233150	
HOXB1	-0.54297722	0.00440012	-4.79528330	
LINGO4	-0.52833891	0.00440012	-4.61497206	
HMX3	-0.53505393	0.00440012	-4.69694839	
VSTM2B	-0.54509787	0.00440012	-4.82190725	
RBPM52	-0.54429280	0.00440012	-4.81178442	
KCNC3	-0.54254718	0.00440012	-4.78990029	
KRT33B	-0.52452476	0.00440012	-4.56894726	
C15orf58	0.53494660	0.00440012	4.69562845	
HELT	-0.52393911	0.00440012	-4.56191410	
LOC401357	-0.53021039	0.00440012	-4.63769620	
PP13004	-0.52659783	0.00440012	-4.59391518	yes
M6PR	0.53843782	0.00440012	4.73872840	
MGC50273	-0.54934987	0.00440012	-4.87568759	
ART1	-0.53830818	0.00440012	-4.73712186	
RNASE13	-0.54548296	0.00440012	-4.82675587	
LOC440461	-0.52386507	0.00440012	-4.56102563	
C6orf138	-0.53304607	0.00440012	-4.67230803	
ASTN1	-0.53132595	0.00440012	-4.65128657	
NFYA	0.53179139	0.00440012	4.65696679	
REEP2	-0.52650326	0.00440012	-4.59277372	
PLAC8	0.52582116	0.00440012	4.58454776	yes
PDCD1	-0.52588910	0.00440012	-4.58536661	
NGRN	0.52906572	0.00440012	4.62378614	
POLR3K	0.54549415	0.00440012	4.82689692	

IL20RA	0.52799073	0.00440012	4.61075468	
FTHL17	-0.53407748	0.00440012	-4.68495164	
SEMA5B	-0.53609305	0.00440012	-4.70974423	
POU3F1	-0.52408275	0.00440012	-4.56363824	
MXRA8	-0.53246513	0.00440012	-4.66519943	
FAM55D	-0.53058155	0.00440012	-4.64221422	
TRIM68	0.53115558	0.00440012	4.64920885	
RBM23	0.53501546	0.00440012	4.69647535	
KBTBD4	0.53002567	0.00440012	4.63544919	
LMOD3	-0.53269237	0.00440012	-4.66797889	
WDR45L	0.52743565	0.00440012	4.60403781	yes
TTYH1	-0.53758924	0.00440012	-4.72822109	yes
PLEKHA4	-0.54412932	0.00440012	-4.80973120	
RHO	-0.52708776	0.00440012	-4.59983233	
RPL34	0.54019992	0.00440012	4.76061207	
PKNOX2	-0.53128912	0.00440012	-4.65083737	
HIF3A	-0.52425096	0.00440012	-4.56565807	
LOC646471	-0.52820801	0.00440012	-4.61338612	
SOX10	-0.54285200	0.00440012	-4.79371530	
LOC100133430	-0.52564450	0.00440012	-4.58241932	
UBB	0.53612550	0.00440012	4.71014426	
GAL3ST4	-0.54863964	0.00440012	-4.86666702	yes
C9orf45	0.53003599	0.00440012	4.63557469	
ADPGK	0.53635728	0.00440012	4.71300270	
AIF1L	-0.52664450	0.00440012	-4.59447856	
WDR87	-0.53602513	0.00440012	-4.70890689	
HIATL1	0.54091875	0.00440012	4.76956459	
BECN1	0.53647091	0.00440012	4.71440461	
CRADD	0.53720225	0.00440012	4.72343604	
ZNF561	0.52442836	0.00440012	4.56778900	yes
PPP1R14A	-0.54204033	0.00440012	-4.78356257	
STXBP5L	-0.54466152	0.00440012	-4.81641824	
DUSP15	-0.52307558	0.00441049	-4.55156008	

C14orf68	-0.52313370	0.00441049	-4.55225643	
IRGC	-0.52334854	0.00441049	-4.55483085	
RPL23AP71	-0.52309010	0.00441049	-4.55173403	yes
LOC100130503	-0.52079997	0.00442144	-4.52436700	
OSR1	-0.52068147	0.00442144	-4.52295464	
ZNF560	-0.52056999	0.00442144	-4.52162626	
SLC36A2	-0.52068387	0.00442144	-4.52298328	
ANKRD1	-0.52275313	0.00442144	-4.54769885	
C15orf60	-0.52141612	0.00442144	-4.53171673	yes
OR10H5	-0.52148783	0.00442144	-4.53257283	
C3orf70	-0.52045444	0.00442144	-4.52024962	
GUCY1A2	-0.52091905	0.00442144	-4.52578678	
IBSP	-0.52227845	0.00442144	-4.54201936	
NTRK3	-0.52182377	0.00442144	-4.53658477	
IGF2AS	-0.52043631	0.00442144	-4.52003364	
ANAPC5	0.52086462	0.00442144	4.52513778	
PRB4	-0.52251503	0.00442144	-4.54484923	
UNC5A	-0.52080886	0.00442144	-4.52447301	
ATP6V0D1	0.52022407	0.00443031	4.51750618	
HHLA1	-0.51941246	0.00444640	-4.50785165	
DPYS	-0.51993029	0.00444640	-4.51400959	
GTF2E2	0.51918164	0.00444640	4.50510890	yes
HOXA3	-0.51939109	0.00444640	-4.50759761	
HOXD4	-0.51960694	0.00444640	-4.51016355	yes
KRTAP10-12	-0.51917595	0.00444640	-4.50504134	
TTY5	-0.51883092	0.00448069	-4.50094420	
LOC100129532	-0.51782036	0.00461011	-4.48896108	
LEFTY2	-0.51787376	0.00461011	-4.48959372	
ANKRD34C	-0.51708446	0.00469089	-4.48025118	
HMHB1	-0.51712831	0.00469089	-4.48076974	
LASS1	-0.51574030	0.00469434	-4.46437685	
JSRP1	-0.51603813	0.00469434	-4.46789035	
CCDC42	-0.51600180	0.00469434	-4.46746163	

WFDC13	-0.51591026	0.00469434	-4.46638155	
APCDD1L	-0.51631612	0.00469434	-4.47117164	
GAP43	-0.51542193	0.00469434	-4.46062354	
GDNF	-0.51506610	0.00469434	-4.45643168	yes
TTC9C	0.51627944	0.00469434	4.47073857	yes
GSTP1	0.51547920	0.00469434	4.46129856	
PDX1	-0.51521894	0.00469434	-4.45823180	
OR11H4	-0.51486146	0.00469434	-4.45402222	
TESC	-0.51522984	0.00469434	-4.45836018	yes
SENP2	0.51618169	0.00469434	4.46958461	
MANBAL	0.51541882	0.00469434	4.46058690	
ABHD1	-0.51488449	0.00469434	-4.45429330	
RP11-544M22.4	0.51351826	0.00470984	4.43823337	
C1QL1	-0.51404710	0.00470984	-4.44444435	
CNTNAP5	-0.51403226	0.00470984	-4.44426995	
ADRA1A	-0.51349585	0.00470984	-4.43797025	yes
LCE4A	-0.51274115	0.00470984	-4.42911893	
ERCC3	0.51322718	0.00470984	4.43481769	
SIGLEC15	-0.51437272	0.00470984	-4.44827205	
GPR150	-0.51332092	0.00470984	-4.43591746	
HSBP1	0.51358905	0.00470984	4.43906437	yes
IGFL1	-0.51297629	0.00470984	-4.43187519	
BEND4	-0.51274232	0.00470984	-4.42913259	
GAL	-0.51411295	0.00470984	-4.44521827	
LCMT1	0.51353957	0.00470984	4.43848348	
ATP8A2	-0.51458101	0.00470984	-4.45072202	
RETNLB	-0.51307533	0.00470984	-4.43303657	
MTX2	0.51215406	0.00475042	4.42224289	
FOXE3	-0.51233243	0.00475042	-4.42433109	
RPL7P48	-0.51213643	0.00475042	-4.42203659	
OR10A7	-0.51197698	0.00475623	-4.42017067	
TTR	-0.51181729	0.00476220	-4.41830249	
OR4X2	-0.51167139	0.00476567	-4.41659622	

COX7A1	-0.51152272	0.00476978	-4.41485812
C9orf25	-0.51138502	0.00477191	-4.41324866
LOC100129346	-0.51060935	0.00481370	-4.40419148
SYNPO	-0.50887164	0.00481370	-4.38395344
ANKRD60	-0.50929725	0.00481370	-4.38890363
FAM132B	-0.50946083	0.00481370	-4.39080730
ABHD3	0.50930375	0.00481370	4.38897923
DHRS7C	-0.50987513	0.00481370	-4.39563164
EVX1	-0.51047560	0.00481370	-4.40263120
TMEM130	-0.50918504	0.00481370	-4.38759809
SUSD5	-0.50883436	0.00481370	-4.38352015
KLF15	-0.50951405	0.00481370	-4.39142674
STOML2	0.50903844	0.00481370	4.38589295
MAP3K15	-0.50909881	0.00481370	-4.38659510
OR51B6	-0.50875067	0.00481370	-4.38254730
KIAA1191	0.50934892	0.00481370	4.38950480
RALB	0.50896945	0.00481370	4.38509064
SOX17	-0.50975501	0.00481370	-4.39423244
CNTN2	-0.50977281	0.00481370	-4.39443981
hCG_2039146	-0.51102761	0.00481370	-4.40907356
VPS25	0.50890908	0.00481370	4.38438879
APLN	-0.50912113	0.00481370	-4.38685467
KIAA1755	-0.50818786	0.00489945	-4.37600983
ITGA11	-0.50783712	0.00493000	-4.37193955
TKTL2	-0.50780048	0.00493000	-4.37151448
FARS2	0.50746145	0.00497199	4.36758313
NKX2-5	-0.50731629	0.00497199	-4.36590073
IGBP1	0.50691542	0.00497199	4.36125716
FOXB2	-0.50719167	0.00497199	-4.36445678
EPX	-0.50690673	0.00497199	-4.36115653
ZNF264	0.50708173	0.00497199	4.36318320
LOC100127905	-0.50556737	0.00499870	-4.34566979
TREX2	-0.50598158	0.00499870	-4.35045472

CHST14	-0.50644978	0.00499870	-4.35586816	
BPIL3	-0.50584320	0.00499870	-4.34885570	
CLDN19	-0.50599316	0.00499870	-4.35058847	
FOXC1	-0.50658304	0.00499870	-4.35740991	
HOXB3	-0.50601581	0.00499870	-4.35085032	
LPL	-0.50546099	0.00499870	-4.34444154	
GNG13	-0.50554908	0.00499870	-4.34545855	
PRB1	-0.50547537	0.00499870	-4.34460755	
TRIB3	-0.50551140	0.00499870	-4.34502351	
RAF1	0.50632144	0.00499870	4.35438370	
ROPN1	-0.50518512	0.00503019	-4.34125769	
PRH2	-0.50508791	0.00503019	-4.34013616	
MAB21L1	-0.50498048	0.00503055	-4.33889699	
SNORD116-15	-0.50343253	0.00503101	-4.32107213	
CDX1	-0.50406943	0.00503101	-4.32839931	yes
ADCY1	-0.50433023	0.00503101	-4.33140242	yes
WTIP	-0.50324128	0.00503101	-4.31887375	yes
SLC16A8	-0.50389265	0.00503101	-4.32636467	
OR2F1	-0.50379268	0.00503101	-4.32521428	
RCOR2	-0.50332712	0.00503101	-4.31986038	yes
GPER	-0.50466233	0.00503101	-4.33522889	
HOXB6	-0.50325553	0.00503101	-4.31903745	yes
HOXD9	-0.50348847	0.00503101	-4.32171527	
SPRN	-0.50392920	0.00503101	-4.32678524	
LIMS2	-0.50385992	0.00503101	-4.32598794	yes
NSFL1C	0.50344158	0.00503101	4.32117620	
CA4	-0.50464992	0.00503101	-4.33508582	
TSPAN10	-0.50386817	0.00503101	-4.32608290	
ZNF541	-0.50373829	0.00503101	-4.32458862	
PARD6B	0.50359281	0.00503101	4.32291518	yes
ABCA13	0.50313531	0.00503240	4.31765601	
ADORA3	-0.50293656	0.00503279	-4.31537278	
PTGER3	-0.50302407	0.00503279	-4.31637796	

ADRA2B	-0.50222740	0.00505044	-4.30723345	
CCDC83	-0.50261159	0.00505044	-4.31164147	
HEPACAM	-0.50264306	0.00505044	-4.31200275	
GNAT1	-0.50214937	0.00505044	-4.30633862	
VWA5A	0.50232682	0.00505044	4.30837381	
NPY2R	-0.50208967	0.00505044	-4.30565405	
VGLL1	-0.50239477	0.00505044	-4.30915345	
SHQ1	0.50207272	0.00505044	4.30545966	
GSDMA	-0.50191765	0.00506214	-4.30368200	
LOC645605	-0.50166632	0.00509283	-4.30080205	
MED10	0.50154088	0.00509890	4.29936516	
RP11-431O22.2	-0.50107200	0.00517313	-4.29399746	
NDUFS3	0.50095153	0.00517839	4.29261912	
LOC153328	-0.50058083	0.00519869	-4.28838000	
EXD3	-0.50057011	0.00519869	-4.28825747	yes
SOCS1	-0.50056940	0.00519869	-4.28824924	
SNORD116-1	-0.49854701	0.00524604	-4.26517802	
LOC100130518	-0.49866746	0.00524604	-4.26654950	yes
C1orf2	-0.50022063	0.00524604	-4.28426393	
STX1B	-0.49958053	0.00524604	-4.27695675	
C1QTNF4	-0.49915595	0.00524604	-4.27211499	
OR52E2	-0.49850716	0.00524604	-4.26472431	
LOC131055	-0.49939388	0.00524604	-4.27482767	
AMAC1	-0.49951038	0.00524604	-4.27615651	
CTSS	0.49894563	0.00524604	4.26971811	
MRPS27	0.49913062	0.00524604	4.27182629	
IGFALS	-0.49940607	0.00524604	-4.27496670	
MGC44328	-0.49894512	0.00524604	-4.26971230	
PSMA5	0.49977943	0.00524604	4.27922634	
LRRC7	-0.49859666	0.00524604	-4.26574329	
CACNG7	-0.49861918	0.00524604	-4.26599977	
RXRG	-0.49857545	0.00524604	-4.26550182	
CA11	-0.49844227	0.00524604	-4.26398572	

NCK2	0.49873172	0.00524604	4.26728126	
RAE1	0.49875150	0.00524604	4.26750655	
FRMD5	-0.49886455	0.00524604	-4.26879434	
CACNA1H	-0.49895091	0.00524604	-4.26977827	
SPATA3	-0.49801749	0.00525374	-4.25915260	
GSC	-0.49806216	0.00525374	-4.25966066	
ADRA2C	-0.49793576	0.00525374	-4.25822316	yes
ADAT1	0.49809573	0.00525374	4.26004256	yes
KRTAP10-2	-0.49788580	0.00525374	-4.25765513	
FEZF2	-0.49829233	0.00525374	-4.26227929	
BHLHE23	-0.49776969	0.00525989	-4.25633506	
FLJ42957	-0.49767257	0.00526229	-4.25523125	yes
ADCY8	-0.49754683	0.00526834	-4.25380233	
FLJ44054	-0.49747279	0.00526834	-4.25296116	
RNASE8	-0.49732107	0.00528187	-4.25123774	
LOC100130174	-0.49706571	0.00528256	-4.24833827	
SSX8	-0.49709911	0.00528256	-4.24871741	
LOC55908	-0.49712970	0.00528256	-4.24906477	
UAP1L1	-0.49695684	0.00528766	-4.24710258	yes
LOC388955	0.49667264	0.00531145	4.24387816	
FAR2	0.49667982	0.00531145	4.24395954	
CHRM5	-0.49632918	0.00532054	-4.23998370	
PSMB4	0.49633569	0.00532054	4.24005746	
BCL6	0.49629787	0.00532054	4.23962879	
CHST1	-0.49641455	0.00532054	-4.24095140	
DMBX1	-0.49604373	0.00532757	-4.23674903	
ICT1	0.49556853	0.00532757	4.23136819	
IGFBPL1	-0.49584562	0.00532757	-4.23450516	
HES5	-0.49566106	0.00532757	-4.23241555	
LOC388906	-0.49555676	0.00532757	-4.23123502	
C2orf78	-0.49612033	0.00532757	-4.23761682	
LOC729080	-0.49584816	0.00532757	-4.23453391	
RUFY1	0.49556508	0.00532757	4.23132917	

NKX6-2	-0.49553455	0.00532757	-4.23098360	
MARCKSL1	-0.49543396	0.00533176	-4.22984531	
LRRC26	-0.49524810	0.00533719	-4.22774272	
TAF3	-0.49531353	0.00533719	-4.22848285	
MAP3K10	-0.49495881	0.00537981	-4.22447152	
MED20	0.49478867	0.00539839	4.22254854	
NRG3	-0.49462015	0.00540376	-4.22064446	
LAMC2	0.49455161	0.00540376	4.21987028	
SRI	0.49444836	0.00540376	4.21870413	yes
C19orf20	-0.49452252	0.00540376	-4.21954173	
FABP7	-0.49432680	0.00541267	-4.21733152	
SNORD116-14	-0.49370349	0.00543815	-4.21029837	
SNORD116-24	-0.49288298	0.00543815	-4.20105323	
NRN1L	-0.49381449	0.00543815	-4.21155026	
FAM19A4	-0.49287253	0.00543815	-4.20093565	
ZFPM1	-0.49338435	0.00543815	-4.20670069	
EMX1	-0.49294571	0.00543815	-4.20175959	
NHLH1	-0.49391048	0.00543815	-4.21263297	
HSPC152	0.49364563	0.00543815	4.20964601	
RTN1	-0.49283805	0.00543815	-4.20054750	
SFRP1	-0.49315115	0.00543815	-4.20407325	
SYN1	-0.49326325	0.00543815	-4.20533616	
BTD	0.49389862	0.00543815	4.21249922	
WT1	-0.49349561	0.00543815	-4.20795472	
DPY30	0.49284041	0.00543815	4.20057406	yes
TOX2	-0.49355765	0.00543815	-4.20865405	
MATN4	-0.49291976	0.00543815	-4.20146738	
TMEM169	-0.49340602	0.00543815	-4.20694496	
SYCE1	-0.49283313	0.00543815	-4.20049206	
ODF3	-0.49245943	0.00544476	-4.19628673	
UHMK1	0.49245533	0.00544476	4.19624056	
HOXB7	-0.49238085	0.00544476	-4.19540277	
RPS12P23	-0.49243872	0.00544476	-4.19605374	

CACNG8	-0.49235833	0.00544476	-4.19514956	
C14orf142	0.49254427	0.00544476	4.19724122	
C3orf24	-0.49219199	0.00546230	-4.19327900	
C9orf95	0.49212661	0.00546230	4.19254393	
FBXL18	-0.49179309	0.00551596	-4.18879575	
B3GAT2	-0.49171850	0.00551637	-4.18795782	
TSPAN31	0.49144755	0.00555753	4.18491506	
BRUNOL5	-0.49119333	0.00559548	-4.18206170	
FAM24A	-0.49086681	0.00562231	-4.17839878	
IGFBP1	-0.49084939	0.00562231	-4.17820337	
RTN4R	-0.49093964	0.00562231	-4.17921562	
SLC6A2	-0.49077522	0.00562283	-4.17737173	
GATA5	-0.49058097	0.00564866	-4.17519416	
LOC100131664	-0.48980445	0.00566054	-4.16649724	
TUBB2C	0.48983996	0.00566054	4.16689471	
C7orf31	-0.49018086	0.00566054	-4.17071134	
DAZL	-0.48970839	0.00566054	-4.16542233	
DUSP8	-0.49016997	0.00566054	-4.17058935	
NPW	-0.48995681	0.00566054	-4.16820271	
LOC100133408	-0.48967973	0.00566054	-4.16510172	
FIGLA	-0.49000278	0.00566054	-4.16871726	
CHMP5	0.48984450	0.00566054	4.16694551	yes
RASD1	-0.49020211	0.00566054	-4.17094941	
UNQ6190	-0.49037795	0.00566054	-4.17291905	
STMN4	-0.49005945	0.00566054	-4.16935181	
C15orf2	-0.48942813	0.00566984	-4.16228733	
GBX2	-0.48945297	0.00566984	-4.16256506	
MEX3B	-0.48955746	0.00566984	-4.16373379	
ACTL7B	-0.48905872	0.00570437	-4.15815764	
PAH	-0.48907784	0.00570437	-4.15837122	
C21orf62	-0.48907484	0.00570437	-4.15833771	
CAMK2N2	-0.48897374	0.00570789	-4.15720801	
CGREF1	-0.48882419	0.00571069	-4.15553721	

SLC25A42	-0.48888590	0.00571069	-4.15622662	yes
SNORD116-6	-0.48867876	0.00572399	-4.15391302	
TUBB2B	-0.48862579	0.00572399	-4.15332147	yes
LOC100130557	-0.48824195	0.00573647	-4.14903720	
COG4	0.48823041	0.00573647	4.14890844	
GLTSCR1	-0.48834697	0.00573647	-4.15020902	
MPV17	0.48849170	0.00573647	4.15182442	
FAM135B	-0.48826721	0.00573647	-4.14931902	
FAM163A	-0.48800235	0.00574240	-4.14636436	
CTNNA3	-0.48801948	0.00574240	-4.14655548	
UBAP1	0.48801982	0.00574240	4.14655922	
EVX2	-0.48786552	0.00575739	-4.14483860	yes
ZNF410	0.48778789	0.00575981	4.14397307	yes
C6orf108	0.48760327	0.00577893	4.14191529	
SYNGR4	-0.48756615	0.00577893	-4.14150171	
PRB3	-0.48745618	0.00578836	-4.14027638	
HBQ1	-0.48722256	0.00582439	-4.13767423	
CA2	-0.48710012	0.00583663	-4.13631093	
LOC100130274	-0.48691140	0.00586324	-4.13421023	
CRYBB1	-0.48646740	0.00591718	-4.12927093	
NPPB	-0.48648172	0.00591718	-4.12943022	yes
PDE9A	-0.48658846	0.00591718	-4.13061731	yes
TPSG1	-0.48624132	0.00593820	-4.12675752	
FAM62C	-0.48624563	0.00593820	-4.12680541	
DEFB119	-0.48606844	0.00596190	-4.12483636	
KCNMB4	-0.48582103	0.00598792	-4.12208787	
HOXA13	-0.48582536	0.00598792	-4.12213604	
C20orf123	-0.48567661	0.00600558	-4.12048419	
STC1	-0.48543119	0.00604557	-4.11775999	
RQCD1	0.48536772	0.00604557	4.11705562	yes
GNAZ	-0.48521910	0.00606439	-4.11540666	
C19orf29OS	-0.48494331	0.00609746	-4.11234801	
SLC5A2	-0.48496150	0.00609746	-4.11254976	

LOC347549	-0.48475430	0.00611132	-4.11025274	
BEX2	-0.48479276	0.00611132	-4.11067902	
MST075	-0.48388333	0.00614811	-4.10060734	
KANK4	-0.48430200	0.00614811	-4.10524181	
GGN	-0.48432881	0.00614811	-4.10553870	
MYH15	-0.48383855	0.00614811	-4.10011183	
SEZ6L	-0.48377686	0.00614811	-4.09942935	
CHRD2	-0.48384035	0.00614811	-4.10013177	
AK5	-0.48401085	0.00614811	-4.10201859	
NANOS2	-0.48389191	0.00614811	-4.10070227	
ITIH3	-0.48411680	0.00614811	-4.10319127	
C1QL3	-0.48419443	0.00614811	-4.10405073	
OR2M2	-0.48391280	0.00614811	-4.10093344	
LDLRAD2	-0.48385943	0.00614811	-4.10034290	
OR2C3	-0.48403812	0.00614811	-4.10232036	
COP22	-0.48364426	0.00616407	-4.09796253	yes
LOC100132750	-0.48266690	0.00616950	-4.08716276	
SNUPN	0.48255163	0.00616950	4.08589038	
MRPS31	0.48249677	0.00616950	4.08528483	yes
ARPP-21	-0.48341199	0.00616950	-4.09539414	yes
GPR176	-0.48274807	0.00616950	-4.08805889	
LRRC15	-0.48260707	0.00616950	-4.08650230	
ZNF358	-0.48232764	0.00616950	-4.08341860	yes
CILP2	-0.48315711	0.00616950	-4.09257710	
PLD5	-0.48229394	0.00616950	-4.08304676	
ETV5	-0.48278507	0.00616950	-4.08846746	
FBXL22	-0.48308333	0.00616950	-4.09176184	
C1QL4	-0.48263720	0.00616950	-4.08683489	
UNCX	-0.48236151	0.00616950	-4.08379224	
MYBPC3	-0.48281795	0.00616950	-4.08883060	
COMMD2	0.48353233	0.00616950	4.09672477	yes
RAB9B	-0.48346701	0.00616950	-4.09600249	
WIPF3	-0.48305376	0.00616950	-4.09143515	

SOD3	-0.48230519	0.00616950	-4.08317091	
GPR177	0.48330506	0.00616950	4.09421214	
TNFSF9	-0.48288791	0.00616950	-4.08960312	
FGF18	-0.48270346	0.00616950	-4.08756638	
SETDB1	0.48298152	0.00616950	4.09063717	
C10orf32	0.48196786	0.00620714	4.07945064	
ZDHHC8P	-0.48197591	0.00620714	-4.07953937	
DISP2	-0.48195025	0.00620714	-4.07925647	
SNTA1	-0.48174041	0.00624135	-4.07694342	yes
POU4F1	-0.48160357	0.00624587	-4.07543557	
SNORD114-3	-0.48162865	0.00624587	-4.07571190	yes
MESDC1	-0.48139100	0.00626909	-4.07309401	
CHD1L	0.48138487	0.00626909	4.07302656	
AMDHD1	-0.48103410	0.00629122	-4.06916465	
MAGEB6	-0.48108048	0.00629122	-4.06967513	
BMPER	-0.48113464	0.00629122	-4.07027138	
KISS1R	-0.48099836	0.00629122	-4.06877140	
TBKBP1	-0.48106581	0.00629122	-4.06951377	
C15orf37	-0.48085578	0.00631063	-4.06720247	
SNORD116-8	-0.48026197	0.00632521	-4.06067283	
C14orf179	0.48034078	0.00632521	4.06153906	
OR10P1	-0.48047809	0.00632521	-4.06304851	
COX6A2	-0.48003369	0.00632521	-4.05816463	
C12orf12	-0.48016746	0.00632521	-4.05963430	
THAP8	-0.48021746	0.00632521	-4.06018368	
OR4C6	-0.48011049	0.00632521	-4.05900831	
GPR3	-0.48005277	0.00632521	-4.05837419	
RNF149	0.48038507	0.00632521	4.06202593	
MAPT	-0.48071393	0.00632521	-4.06564199	
NOVA2	-0.47999743	0.00632521	-4.05776633	
RBP3	-0.48000275	0.00632521	-4.05782478	
RNF222	-0.48005294	0.00632521	-4.05837611	
SLC30A5	0.48039694	0.00632521	4.06215634	

TDP1	0.47990711	0.00633307	4.05677425	yes
MRPL49	0.47983462	0.00633687	4.05597824	
TMEM85	0.47963540	0.00636977	4.05379092	
MEIS3	-0.47956918	0.00637219	-4.05306401	
RASL10A	-0.47912768	0.00643569	-4.04822029	
C5orf47	-0.47914575	0.00643569	-4.04841839	
HES3	-0.47916261	0.00643569	-4.04860334	yes
SATL1	-0.47906506	0.00643738	-4.04753361	
LOC100132755	-0.47845688	0.00644868	-4.04086837	yes
LRRC3B	-0.47855214	0.00644868	-4.04191187	
EMB	0.47822762	0.00644868	4.03835786	
NUDCD2	0.47887732	0.00644868	4.04547530	
SLC32A1	-0.47862097	0.00644868	-4.04266597	
C10orf35	-0.47843010	0.00644868	-4.04057513	
C17orf88	-0.47882264	0.00644868	-4.04487594	
B3GAT1	-0.47834782	0.00644868	-4.03967397	
LASS2	0.47793011	0.00644868	4.03510151	
PHOX2A	-0.47879732	0.00644868	-4.04459843	
UFSP1	-0.47808208	0.00644868	-4.03676469	
MYCN	-0.47835571	0.00644868	-4.03976036	
WDR33	0.47859651	0.00644868	4.04239796	yes
KLK6	-0.47796533	0.00644868	-4.03548695	
HTRA1	-0.47821692	0.00644868	-4.03824074	yes
PDSS2	0.47812674	0.00644868	4.03725346	
PRDM13	-0.47819467	0.00644868	-4.03799708	
USHBP1	-0.47866408	0.00644868	-4.04313833	yes
MGC13057	-0.47800324	0.00644868	-4.03590175	
EFTUD2	0.47866156	0.00644868	4.04311067	
SPTA1	-0.47781412	0.00646321	-4.03383243	yes
LOC100129924	-0.47770951	0.00646684	-4.03268810	
HPCAL1	-0.47769209	0.00646684	-4.03249758	
ASCL4	-0.47754371	0.00648448	-4.03087495	
LOC646508	-0.47747665	0.00648448	-4.03014174	

TRH	-0.47745726	0.00648448	-4.02992973	
SRRM1	-0.47668657	0.00650387	-4.02151001	
PTGES3	0.47645900	0.00650387	4.01902612	
KTI12	0.47674315	0.00650387	4.02212782	
OR52J3	-0.47716166	0.00650387	-4.02669887	
TCEAL2	-0.47676991	0.00650387	-4.02241998	
C11orf40	-0.47690126	0.00650387	-4.02385432	
DBC1	-0.47670568	0.00650387	-4.02171864	
DRD2	-0.47655850	0.00650387	-4.02011205	
TCERG1L	-0.47661079	0.00650387	-4.02068280	
GPT	-0.47644050	0.00650387	-4.01882435	
MYLPF	-0.47656865	0.00650387	-4.02022289	
LAG3	-0.47681943	0.00650387	-4.02296069	
MSI1	-0.47666148	0.00650387	-4.02123619	
GRK1	-0.47699259	0.00650387	-4.02485179	
SEBOX	-0.47643740	0.00650387	-4.01879051	
LIMD2	-0.47646766	0.00650387	-4.01912071	
C4orf49	-0.47662043	0.00650387	-4.02078800	
TIGD5	-0.47695325	0.00650387	-4.02442210	
NME4	-0.47637478	0.00650652	-4.01810718	yes
RPL7A	-0.47628360	0.00651584	-4.01711248	
RP11-429E11.3	-0.47617598	0.00651885	-4.01593849	
SLCO5A1	-0.47616867	0.00651885	-4.01585879	
SUMF1	0.47607726	0.00652829	4.01486192	
DLX2	-0.47597427	0.00654047	-4.01373890	yes
ZNF365	-0.47588818	0.00654873	-4.01280039	
CTAGE1	-0.47581600	0.00655376	-4.01201366	
NUDT5	0.47544891	0.00656703	4.00801388	
CHRM4	-0.47506349	0.00656703	-4.00381728	
TMEM132E	-0.47497169	0.00656703	-4.00281824	
ZNF543	0.47531049	0.00656703	4.00650638	
DAGLB	0.47496063	0.00656703	4.00269782	
NPB	-0.47504977	0.00656703	-4.00366803	

PARVB	-0.47496002	0.00656703	-4.00269121	yes
ZNF774	-0.47503792	0.00656703	-4.00353903	
KRT82	-0.47550616	0.00656703	-4.00863746	
LOC401296	-0.47498652	0.00656703	-4.00297965	
NDUFA2	0.47496067	0.00656703	4.00269834	
CARKD	0.47531845	0.00656703	4.00659307	
GFRA4	-0.47536753	0.00656703	-4.00712757	
SMPD2	0.47562033	0.00656703	4.00988129	
VAMP8	0.47541232	0.00656703	4.00761532	
ACPT	-0.47540561	0.00656703	-4.00754224	
VWC2	-0.47490279	0.00656889	-4.00206842	
CELP	-0.47485105	0.00656949	-4.00150544	
POLD3	0.47443645	0.00657199	3.99699627	
OLIG1	-0.47471591	0.00657199	-4.00003532	
MRGPRX4	-0.47435920	0.00657199	-3.99615650	
LYZL4	-0.47437164	0.00657199	-3.99629174	
KRTAP10-1	-0.47436393	0.00657199	-3.99620792	
INCA1	-0.47470990	0.00657199	-3.99996998	
TMEM200B	-0.47452451	0.00657199	-3.99795370	
PRDM12	-0.47430433	0.00657199	-3.99556009	
CPLX3	-0.47442457	0.00657199	-3.99686711	
TM4SF5	-0.47434199	0.00657199	-3.99596943	
GGTLC1	-0.47433685	0.00657199	-3.99591352	yes
TULP1	-0.47422792	0.00657856	-3.99472961	
GAS1	-0.47401643	0.00658303	-3.99243159	
GSC2	-0.47407588	0.00658303	-3.99307752	
C9orf29	-0.47408629	0.00658303	-3.99319062	
TACR3	-0.47403313	0.00658303	-3.99261306	
TFIP11	0.47394231	0.00658915	3.99162646	
CHRNA3	-0.47387820	0.00658944	-3.99093014	
CREB3L2	-0.47384548	0.00658944	-3.99057478	
MGC24975	-0.47370602	0.00659976	-3.98906044	
RP11-218C14.6	-0.47374444	0.00659976	-3.98947756	

CMTM6	0.47346021	0.00664628	3.98639220	
FGF5	-0.47313827	0.00668462	-3.98289939	
AGFG2	-0.47321285	0.00668462	-3.98370839	
LRRC24	-0.47310809	0.00668462	-3.98257211	
NUBPL	0.47316989	0.00668462	3.98324242	
GAL3ST1	-0.47305120	0.00668691	-3.98195511	
C9orf139	-0.47298389	0.00669167	-3.98122529	
VIP	-0.47288668	0.00670354	-3.98017124	
BEND6	-0.47273990	0.00670494	-3.97858021	
SCML4	-0.47277559	0.00670494	-3.97896708	
GLA	0.47282339	0.00670494	3.97948516	
CHST13	-0.47268643	0.00670652	-3.97800076	
C11orf76	-0.47258636	0.00671876	-3.97691641	
CACNG5	-0.47247709	0.00671876	-3.97573256	
SPATC1	-0.47250962	0.00671876	-3.97608497	
PLEKHB2	0.47244818	0.00671876	3.97541943	
TRIM67	-0.47224354	0.00674532	-3.97320303	
KIAA2013	-0.47227484	0.00674532	-3.97354199	
APOH	-0.47214737	0.00675718	-3.97216185	
UNC45B	-0.47197066	0.00678832	-3.97024896	yes
IGF2	-0.47192207	0.00678889	-3.96972309	
NFAM1	-0.47174249	0.00681144	-3.96777999	
CTRB1	-0.47170664	0.00681144	-3.96739224	
NPTXR	-0.47167931	0.00681144	-3.96709657	
SYPL2	-0.47164364	0.00681144	-3.96671076	
NXPH2	-0.47091872	0.00690345	-3.95887479	
PIP5KL1	-0.47113914	0.00690345	-3.96125625	
TMEM199	0.47101905	0.00690345	3.95995863	
LOC255374	-0.47087468	0.00690345	-3.95839910	
TSPAN16	-0.47115064	0.00690345	-3.96138054	
CTRB2	-0.47099097	0.00690345	-3.95965526	
WNK4	-0.47093715	0.00690345	-3.95907388	
FAM117A	-0.47106448	0.00690345	-3.96044954	

GLYATL1	-0.47085117	0.00690345	-3.95814508	
H1FNT	-0.47079567	0.00690590	-3.95754572	
KRTAP5-2	-0.47059905	0.00694270	-3.95542264	
HIST3H2A	0.47050813	0.00695383	3.95444109	
QPRT	-0.47022784	0.00700956	-3.95141636	
PTPRN	-0.47019024	0.00700956	-3.95101071	
C1orf200	-0.47010617	0.00701914	-3.95010386	
CHRNA1	-0.46995863	0.00704440	-3.94851265	
RRAS2	-0.46973046	0.00706874	-3.94605273	
NANOS1	-0.46972619	0.00706874	-3.94600667	
IGFL3	-0.46970397	0.00706874	-3.94576717	
UBL3	0.46968053	0.00706874	3.94551452	yes
TFAP2E	-0.46962748	0.00707080	-3.94494272	
NXNL1	-0.46938244	0.00707818	-3.94230255	
ZNF787	-0.46937490	0.00707818	-3.94222134	
PMS2	0.46949980	0.00707818	3.94356692	
GALNTL1	-0.46938661	0.00707818	-3.94234744	yes
RLBP1	-0.46942453	0.00707818	-3.94275599	
NPBWR2	-0.46902207	0.00713230	-3.93842186	
MYBPHL	-0.46898934	0.00713230	-3.93806943	
PCBP2	0.46898151	0.00713230	3.93798516	
SGPL1	0.46897980	0.00713230	3.93796675	
GPR64	-0.46836396	0.00713825	-3.93134126	
DPCR1	-0.46885338	0.00713825	-3.93660613	
FBXO8	0.46837377	0.00713825	3.93144674	
PDZRN4	-0.46856913	0.00713825	-3.93354782	
INHA	-0.46871374	0.00713825	-3.93510352	
NUBP1	0.46835099	0.00713825	3.93120185	
NKX6-1	-0.46849269	0.00713825	-3.93272568	
PCSK5	0.46849742	0.00713825	3.93277647	yes
POLR2F	0.46861146	0.00713825	3.93400313	
P4HTM	0.46848464	0.00713825	3.93263906	
ANO1	-0.46834341	0.00713825	-3.93112029	

DNASE2B	-0.46845506	0.00713825	-3.93232089	
TAGLN2	0.46875599	0.00713825	3.93555812	
GFM2	0.46882192	0.00713825	3.93626755	yes
KRTAP10-10	-0.46826525	0.00714541	-3.93028004	
LOC390956	-0.46818900	0.00714541	-3.92946035	
TNFRSF8	-0.46818491	0.00714541	-3.92941642	
TP53INP1	0.46804791	0.00716882	3.92794394	
DSCR9	-0.46792320	0.00718923	-3.92660392	
LOC652904	-0.46776052	0.00721923	-3.92485634	
MGAT5B	-0.46753495	0.00725220	-3.92243398	
UBL4B	-0.46758442	0.00725220	-3.92296513	
SLC25A41	-0.46750071	0.00725220	-3.92206641	
EFR3B	-0.46732696	0.00726367	-3.92020130	
C3orf1	0.46740379	0.00726367	3.92102593	
PPP3R2	-0.46734411	0.00726367	-3.92038545	
PRSS36	-0.46728265	0.00726408	-3.91972582	
TULP2	-0.46716758	0.00728239	-3.91849109	
ARC	-0.46702865	0.00730681	-3.91700057	
ITIH2	-0.46691544	0.00731858	-3.91578634	
HAND2	-0.46689732	0.00731858	-3.91559204	
DPYSL4	-0.46676787	0.00733198	-3.91420399	
HCRP1	-0.46675985	0.00733198	-3.91411791	
CAPN2	0.46669460	0.00733782	3.91341839	
CBLN4	-0.46663786	0.00734151	-3.91281021	
BVES	-0.46602325	0.00734889	-3.90622560	
WDR92	0.46621904	0.00734889	3.90832244	
ELA2	-0.46605310	0.00734889	-3.90654532	
ATF5	-0.46612641	0.00734889	-3.90733028	
DNAJB5	-0.46606407	0.00734889	-3.90666275	
CECR6	-0.46618921	0.00734889	-3.90800294	
ZNF575	-0.46603753	0.00734889	-3.90637856	
KCNJ9	-0.46625808	0.00734889	-3.90874061	
C14orf104	0.46605250	0.00734889	3.90653880	

SIGLEC1	-0.46634305	0.00734889	-3.90965081	
SOX1	-0.46649386	0.00734889	-3.91126674	
TLN2	-0.46655896	0.00734889	-3.91196449	yes
EXOC3L2	-0.46639802	0.00734889	-3.91023987	
FADS2	-0.46619565	0.00734889	-3.90807192	
GPR88	-0.46597870	0.00734969	-3.90574864	
CST11	-0.46591156	0.00735624	-3.90502982	
ATP6V0E2	-0.46578199	0.00736294	-3.90364288	
SNORD57	-0.46576148	0.00736294	-3.90342344	
LDHAL6B	-0.46577565	0.00736294	-3.90357510	
RBM14	0.46545947	0.00736676	3.90019203	
CSN3	-0.46565830	0.00736676	-3.90231923	
TCTN3	0.46560978	0.00736676	3.90180009	
IAH1	0.46549236	0.00736676	3.90054385	
SCGB2A2	-0.46567910	0.00736676	-3.90254179	
NPTX1	-0.46555040	0.00736676	-3.90116480	
CDC123	0.46552647	0.00736676	3.90090879	
ARPM1	-0.46531873	0.00739224	-3.89868681	
GRM1	-0.46511442	0.00743411	-3.89650221	
FTHL11	0.46501206	0.00744994	3.89540815	
LASS6	0.46493226	0.00745332	3.89455526	yes
SAMM50	0.46491763	0.00745332	3.89439892	
ACTRT2	-0.46483393	0.00746441	-3.89350450	yes
IFT52	0.46478576	0.00746638	3.89298991	yes
CCDC140	-0.46456850	0.00749113	-3.89066915	
MYO16	-0.46463856	0.00749113	-3.89141745	
CILP	-0.46458616	0.00749113	-3.89085771	
ELK1	-0.46429511	0.00749332	-3.88775015	
GALK2	0.46427874	0.00749332	3.88757537	
RAX	-0.46445945	0.00749332	-3.88950460	
KRTAP26-1	-0.46441286	0.00749332	-3.88900714	
NEUROD1	-0.46438289	0.00749332	-3.88868719	
CDK5R2	-0.46442909	0.00749332	-3.88918043	

OPN4	-0.46434075	0.00749332	-3.88823733	
C1orf68	-0.46399356	0.00755682	-3.88453202	
IRX2	-0.46394571	0.00755887	-3.88402153	
GPR85	-0.46390114	0.00756008	-3.88354612	
MOGAT1	-0.46346577	0.00764287	-3.87890377	
DNMT3B	-0.46349565	0.00764287	-3.87922233	
NTRK2	-0.46341125	0.00764287	-3.87832273	
MRPS35	0.46338531	0.00764287	3.87804622	
EZR	0.46340072	0.00764287	3.87821052	yes
RASL11B	-0.46330717	0.00765297	-3.87721350	
LOC100131120	-0.46323018	0.00766280	-3.87639321	
TMEM221	-0.46309895	0.00767652	-3.87499518	
EPHB1	-0.46310946	0.00767652	-3.87510707	yes
CLDN11	-0.46281945	0.00769982	-3.87201864	yes
BAI1	-0.46282293	0.00769982	-3.87205571	
ZAN	-0.46291453	0.00769982	-3.87303102	
PANK2	0.46281369	0.00769982	3.87195731	
PDLIM7	-0.46292263	0.00769982	-3.87311734	yes
ACTC1	-0.46271741	0.00771489	-3.87093237	
GPR143	-0.46263362	0.00771632	-3.87004051	
GFI1B	-0.46267009	0.00771632	-3.87042866	
WDR73	0.46236381	0.00777752	3.86716961	
IL17C	-0.46220098	0.00781053	-3.86543760	
C2orf82	-0.46197396	0.00782268	-3.86302377	
MEOX1	-0.46196074	0.00782268	-3.86288314	
ZNF580	-0.46200353	0.00782268	-3.86333805	
CAMK1G	-0.46203723	0.00782268	-3.86369633	
C15orf17	0.46197287	0.00782268	3.86301214	
SLC22A10	-0.46178324	0.00782869	-3.86099655	
LMX1B	-0.46178440	0.00782869	-3.86100892	
OSGEP	0.46184765	0.00782869	3.86168106	
KCNK12	-0.46180312	0.00782869	-3.86120786	
MTCH2	0.46168715	0.00783374	3.85997547	

KCNA10	-0.46172096	0.00783374	-3.86033468	
SOX11	-0.46164712	0.00783413	-3.85955014	
CISH	-0.46106322	0.00785440	-3.85334959	
CATSPER1	-0.46103649	0.00785440	-3.85306589	
KCNH8	-0.46130670	0.00785440	-3.85593436	
GSX1	-0.46108512	0.00785440	-3.85358200	
FGF4	-0.46129339	0.00785440	-3.85579304	
OR51V1	-0.46151030	0.00785440	-3.85809660	
GRID2	-0.46136379	0.00785440	-3.85654061	
TLX2	-0.46116282	0.00785440	-3.85440678	
RSPO4	-0.46128495	0.00785440	-3.85570346	
KIR2DS4	-0.46138797	0.00785440	-3.85679733	
SMOC1	-0.46116696	0.00785440	-3.85445071	
SKP1	0.46117009	0.00785440	3.85448394	
SLC26A10	-0.46104425	0.00785440	-3.85314822	yes
FIBCD1	-0.46119025	0.00785440	-3.85469803	
TMEM159	0.46099761	0.00785467	3.85265324	
DHH	-0.46090709	0.00786879	-3.85169260	yes
MYL9	-0.46083815	0.00787142	-3.85096116	
SF3B14	0.46082171	0.00787142	3.85078676	
LGI4	-0.46077312	0.00787434	-3.85027124	
BMP10	-0.46058973	0.00788320	-3.84832607	
SLC15A5	-0.46064239	0.00788320	-3.84888463	
PPP1R2P9	-0.46068756	0.00788320	-3.84936374	
KRTAP4-4	-0.46062107	0.00788320	-3.84865845	
ADAMTS7	-0.46048804	0.00788374	-3.84724777	
OR1S1	-0.46043799	0.00788374	-3.84671715	
P2RX3	-0.46045554	0.00788374	-3.84690320	
PAX8	-0.46045510	0.00788374	-3.84689848	
TRIM71	-0.46027053	0.00788869	-3.84494190	
METTL7B	-0.46029505	0.00788869	-3.84520189	yes
FIGNL2	-0.46028172	0.00788869	-3.84506052	
SLC4A10	-0.46027255	0.00788869	-3.84496337	

SNAP91	-0.46022670	0.00789048	-3.84447738	
FBXL16	-0.46018151	0.00789265	-3.84399854	
IL4	-0.46009156	0.00789552	-3.84304531	
SCT	-0.46008186	0.00789552	-3.84294257	
USP6NL	0.46005975	0.00789552	3.84270827	yes
WIF1	-0.45994211	0.00791720	-3.84146201	
HIPK3	0.45960139	0.00791990	3.83785389	yes
AGAP2	-0.45979101	0.00791990	-3.83986163	
ERCC4	0.45977227	0.00791990	3.83966318	
DEFB132	-0.45982956	0.00791990	-3.84026984	
PCBD1	0.45971988	0.00791990	3.83910840	
PSMB5	0.45961953	0.00791990	3.83804587	
RPS11	0.45967314	0.00791990	3.83861347	
PIGO	0.45963868	0.00791990	3.83824863	
ZNF607	0.45984030	0.00791990	3.84038368	yes
NAGA	0.45953623	0.00792071	3.83716406	
IQCB1	0.45952538	0.00792071	3.83704922	
ZAR1	-0.45942176	0.00793878	-3.83595245	
C10orf90	-0.45928289	0.00795164	-3.83448298	
OR56B4	-0.45926490	0.00795164	-3.83429261	
SLITRK5	-0.45927625	0.00795164	-3.83441264	
POLR1C	0.45922854	0.00795165	3.83390791	yes
C16orf80	0.45914624	0.00795430	3.83303721	
C9orf140	-0.45914821	0.00795430	-3.83305806	
GPR62	-0.45891980	0.00798617	-3.83064241	
HCN1	-0.45894388	0.00798617	-3.83089706	
TCF7L1	-0.45894509	0.00798617	-3.83090978	
GDF5	-0.45883334	0.00799981	-3.82972824	
LMAN2L	0.45879616	0.00800012	3.82933513	
GREB1	-0.45875228	0.00800225	-3.82887128	
GLUL	0.45869390	0.00800833	3.82825423	
HAX1	0.45763084	0.00800901	3.81702809	
CUGBP1	0.45816143	0.00800901	3.82262868	

EBNA1BP2	0.45761976	0.00800901	3.81691126	
CHRM1	-0.45789634	0.00800901	-3.81982986	
CHRNA7	-0.45826268	0.00800901	-3.82369799	
RAB39B	-0.45781898	0.00800901	-3.81901337	
C6orf192	0.45836246	0.00800901	3.82475189	
LOC145814	-0.45784780	0.00800901	-3.81931757	
XIRP1	-0.45813833	0.00800901	-3.82238466	
EDA	-0.45846518	0.00800901	-3.82583708	yes
KCNE1L	-0.45778023	0.00800901	-3.81860442	
SMPX	-0.45834661	0.00800901	-3.82458442	
SHC2	-0.45804700	0.00800901	-3.82142033	
ZSCAN1	-0.45847320	0.00800901	-3.82592183	
ANXA7	0.45759584	0.00800901	3.81665890	
HLX	-0.45788044	0.00800901	-3.81966211	
C2orf53	-0.45793251	0.00800901	-3.82021171	
TMIGD1	-0.45762829	0.00800901	-3.81700124	
C13orf36	-0.45853867	0.00800901	-3.82661368	
C2orf64	0.45773956	0.00800901	3.81817530	
SLC22A17	-0.45842826	0.00800901	-3.82544699	yes
RPL41	0.45858383	0.00800901	3.82709089	
C17orf75	0.45779253	0.00800901	3.81873424	yes
C5orf50	-0.45843107	0.00800901	-3.82547670	
TBX1	-0.45789785	0.00800901	-3.81984582	
TPT1	0.45760680	0.00800901	3.81677455	
RSPO3	-0.45820106	0.00800901	-3.82304717	
RGS11	-0.45794826	0.00800901	-3.82037797	yes
CCDC109A	0.45814115	0.00800901	3.82241443	yes
RNF7	0.45802898	0.00800901	3.82123013	
CD59	0.45825605	0.00800901	3.82362792	
GPN1	0.45748222	0.00801159	3.81546031	
NPFFR1	-0.45749967	0.00801159	-3.81564437	yes
CDC16	0.45753845	0.00801159	3.81605342	
PCSK1N	-0.45741817	0.00801172	-3.81478480	

FUSSEL18	-0.45741252	0.00801172	-3.81472520	
TSSC1	0.45736043	0.00801646	3.81417583	
ADAMTSL4	-0.45731700	0.00801887	-3.81371786	
MLN	-0.45724006	0.00803035	-3.81290663	
OR6T1	-0.45716681	0.00804086	-3.81213440	
GJD2	-0.45710548	0.00804815	-3.81148788	
COPS6	0.45692693	0.00805933	3.80960614	
OR5D14	-0.45697490	0.00805933	-3.81011163	
ASB2	-0.45695324	0.00805933	-3.80988339	
VDAC3	0.45699395	0.00805933	3.81031246	yes
SLC2A5	-0.45680065	0.00808433	-3.80827566	
SAT1	0.45675450	0.00808758	3.80778945	yes
C1QTNF5	-0.45660964	0.00809869	-3.80626360	yes
ASB10	-0.45662483	0.00809869	-3.80642364	
AIG1	0.45667867	0.00809869	3.80699069	yes
PSMD13	0.45654632	0.00809869	3.80559679	
C3orf34	0.45654314	0.00809869	3.80556332	
AANAT	-0.45625703	0.00816760	-3.80255118	
CXorf39	0.45617490	0.00817149	3.80168681	yes
DPEP3	-0.45620048	0.00817149	-3.80195601	
MAPK4	-0.45609495	0.00818413	-3.80084547	
LOC442668	-0.45597700	0.00820725	-3.79960448	
C14orf43	-0.45587270	0.00822667	-3.79850738	
CALB1	-0.45575056	0.00824172	-3.79722283	
ALX1	-0.45575248	0.00824172	-3.79724293	
NPFFR2	-0.45567021	0.00824290	-3.79637786	
ARL2BP	0.45564506	0.00824290	3.79611339	
H2AFY	0.45567680	0.00824290	3.79644718	yes
DEFB116	-0.45556386	0.00825604	-3.79525972	
CPN2	-0.45534344	0.00827058	-3.79294300	
TMEM154	0.45538241	0.00827058	3.79335248	yes
ZNF843	-0.45544296	0.00827058	-3.79398884	
NKD2	-0.45535655	0.00827058	-3.79308079	

RASL10B	-0.45539844	0.00827058	-3.79352095	yes
VWA5B1	-0.45502877	0.00834073	-3.78963710	
OR13C8	-0.45496641	0.00834073	-3.78898219	
MYADML	-0.45501653	0.00834073	-3.78950851	
SAMD1	-0.45495744	0.00834073	-3.78888801	
OR4S2	-0.45475668	0.00837821	-3.78677999	
LOC100133431	-0.45478549	0.00837821	-3.78708243	
OSBPL3	0.45470369	0.00838372	3.78622371	yes
FOXD2	-0.45465568	0.00838785	-3.78571984	
SYCP2L	-0.45439535	0.00840505	-3.78298791	
NTNG1	-0.45454039	0.00840505	-3.78450979	
GP2	-0.45442043	0.00840505	-3.78325103	
SOX9	-0.45443393	0.00840505	-3.78339270	
C8G	-0.45449469	0.00840505	-3.78403026	
WNT6	-0.45448253	0.00840505	-3.78390265	
LOC100129492	0.45435849	0.00840611	3.78260125	
OR9Q2	-0.45429205	0.00841550	-3.78190423	
TMEM216	0.45420709	0.00842086	3.78101305	
ANGPTL6	-0.45420700	0.00842086	-3.78101218	
LOC100128364	-0.45412340	0.00842356	-3.78013537	
ZNF488	-0.45409871	0.00842356	-3.77987643	
KIAA0427	-0.45413949	0.00842356	-3.78030416	yes
BBC3	-0.45402876	0.00843400	-3.77914304	
PRR4	-0.45397207	0.00843907	-3.77854867	
ANO7	-0.45391242	0.00843907	-3.77792330	
TMEM128	0.45393576	0.00843907	3.77816798	
DLL3	-0.45364160	0.00845104	-3.77508501	
LRRC25	-0.45370606	0.00845104	-3.77576044	
EGF	-0.45367049	0.00845104	-3.77538770	
KLHDC10	0.45365801	0.00845104	3.77525691	yes
KCNK4	-0.45364437	0.00845104	-3.77511400	
WDR70	0.45383661	0.00845104	3.77712864	
PERP	0.45379286	0.00845104	3.77667015	

CHTF8	0.45357072	0.00846186	3.77434234	
EDN3	-0.45339591	0.00849993	-3.77251117	
MAST1	-0.45333862	0.00849993	-3.77191118	
HOXA10	-0.45335250	0.00849993	-3.77205653	
DRD3	-0.45323531	0.00851545	-3.77082940	
NAT8L	-0.45315447	0.00851545	-3.76998295	
LCE1F	-0.45318543	0.00851545	-3.77030708	
ATP6V1G2	-0.45317382	0.00851545	-3.77018552	
ADAD2	-0.45309288	0.00852377	-3.76933821	yes
PAGE5	-0.45304403	0.00852848	-3.76882686	
NDUFB4	0.45297943	0.00853304	3.76815067	
SCRT1	-0.45296361	0.00853304	-3.76798516	
LYL1	-0.45291569	0.00853752	-3.76748358	
KCNT1	-0.45286870	0.00854174	-3.76699190	
RLBP1L1	-0.45281945	0.00854645	-3.76647655	
GTF2H5	0.45276899	0.00854645	3.76594858	
BTNL2	-0.45275598	0.00854645	-3.76581251	
LRRN2	-0.45263801	0.00854932	-3.76457841	
HOXB2	-0.45265831	0.00854932	-3.76479077	
SP5	-0.45263547	0.00854932	-3.76455182	
SLC22A14	-0.45261810	0.00854932	-3.76437014	
C2orf71	-0.45248709	0.00857752	-3.76299999	
USP42	0.45237392	0.00860071	3.76181666	yes
CCT7	0.45224219	0.00860203	3.76043945	
SYT14	-0.45228471	0.00860203	-3.76088400	
DNM1P33	-0.45232657	0.00860203	-3.76132160	
MED26	-0.45225039	0.00860203	-3.76052525	
C11orf42	-0.45213413	0.00860510	-3.75931006	
THEG	-0.45219591	0.00860510	-3.75995574	
ASB1	0.45210480	0.00860510	3.75900353	
FBLIM1	-0.45213065	0.00860510	-3.75927366	
MYL1	-0.45207164	0.00860555	-3.75865704	
FBN2	-0.45182129	0.00864469	-3.75604140	

TMEM186	0.45183791	0.00864469	3.75621506	
DNAJC5G	-0.45178581	0.00864469	-3.75567083	
C16orf5	-0.45168339	0.00864469	-3.75460121	
PANK1	-0.45174067	0.00864469	-3.75519933	
PSMB1	0.45168308	0.00864469	3.75459797	
SCN4A	-0.45172484	0.00864469	-3.75503405	
KCNQ4	-0.45177707	0.00864469	-3.75557959	
HOXC12	-0.45154092	0.00865539	-3.75311353	yes
APLP1	-0.45156062	0.00865539	-3.75331921	
HTR6	-0.45155485	0.00865539	-3.75325895	
TSHR	-0.45152060	0.00865539	-3.75290133	
RBM4	0.45145876	0.00866417	3.75225579	
FOXP4	-0.45133948	0.00868051	-3.75101077	
PHOX2B	-0.45134224	0.00868051	-3.75103959	
SERPINA3	-0.45117465	0.00871116	-3.74929067	yes
B4GALNT1	-0.45117071	0.00871116	-3.74924961	
LOC100129572	-0.45109621	0.00871343	-3.74847229	
TM9SF1	0.45105892	0.00871343	3.74808326	
FRMD4A	-0.45100770	0.00871343	-3.74754893	
WFDC1	-0.45101695	0.00871343	-3.74764542	yes
TNFAIP8L2	-0.45107539	0.00871343	-3.74825509	
UNC84A	0.45095737	0.00871901	3.74702400	
RAB28	0.45081973	0.00874982	3.74558858	yes
CABP7	-0.45078442	0.00875109	-3.74522039	
PRH1	-0.45073268	0.00875713	-3.74468094	
LOC150763	-0.45065071	0.00876301	-3.74382630	
NRSN2	-0.45065205	0.00876301	-3.74384029	
PHF21B	-0.45040269	0.00881711	-3.74124136	
OR2W1	-0.45041513	0.00881711	-3.74137096	
IL31	-0.45034577	0.00881728	-3.74064820	
LHB	-0.45034065	0.00881728	-3.74059485	
FOXB1	-0.45025775	0.00881881	-3.73973120	
PPP1R7	0.45024339	0.00881881	3.73958155	

ZNF835	-0.45025160	0.00881881	-3.73966708
PRG2-1	-0.45021140	0.00881921	-3.73924835
PLAC1	-0.45012240	0.00883622	-3.73832130
HCRT	-0.44994144	0.00884450	-3.73643678
MYOD1	-0.44999409	0.00884450	-3.73698505
SLC22A3	-0.44997058	0.00884450	-3.73674028
TRPM3	-0.44998867	0.00884450	-3.73692863
HDHD2	0.44995631	0.00884450	3.73659164
PUM2	0.44985474	0.00884588	3.73553413
HTR5A	-0.44988520	0.00884588	-3.73585126
AFF3	-0.44983792	0.00884588	-3.73535905
FLJ43752	-0.44978488	0.00884588	-3.73480690
BTG1	0.44980366	0.00884588	3.73500243
OR52W1	-0.44974931	0.00884742	-3.73443664
KRT72	-0.44968911	0.00885448	-3.73381012
SIAE	0.44966459	0.00885448	3.73355483
PRLR	-0.44955689	0.00886828	-3.73243414
TBX20	-0.44957543	0.00886828	-3.73262699
SAMD4A	-0.44948585	0.00887210	-3.73169495
C20orf200	-0.44933327	0.00887210	-3.73010775
GATA1	-0.44935378	0.00887210	-3.73032101
OXGR1	-0.44937171	0.00887210	-3.73050759
S100B	-0.44935972	0.00887210	-3.73038281
NKX2-4	-0.44945530	0.00887210	-3.73137713
CBS	-0.44942767	0.00887210	-3.73108965
CASKIN1	-0.44926556	0.00887438	-3.72940345
KRTAP19-8	-0.44926572	0.00887438	-3.72940508
KIF26A	-0.44919857	0.00888521	-3.72870677
GPR137C	-0.44912046	0.00889930	-3.72789457
MUC3A	-0.44905374	0.00891009	-3.72720089
MYT1L	-0.44898688	0.00892093	-3.72650576
SMYD1	-0.44886699	0.00893861	-3.72525956
GALR3	-0.44888789	0.00893861	-3.72547677

SV2C	-0.44877622	0.00893906	-3.72431629	
PRR17	-0.44879985	0.00893906	-3.72456187	
SOX8	-0.44881246	0.00893906	-3.72469289	
SMPDL3B	-0.44857189	0.00899044	-3.72219333	
UBE2DNL	-0.44823427	0.00899058	-3.71868705	
GABARAPL2	0.44825801	0.00899058	3.71893348	
PTF1A	-0.44813457	0.00899058	-3.71765205	
ILDR1	0.44827602	0.00899058	3.71912050	
HOXA11	-0.44827760	0.00899058	-3.71913692	
MNAT1	0.44821575	0.00899058	3.71849475	
PDE6C	-0.44822799	0.00899058	-3.71862184	
TLR9	-0.44812888	0.00899058	-3.71759296	
FIGN	-0.44817891	0.00899058	-3.71811233	
LOC552889	0.44840774	0.00899058	3.72048834	yes
KCNQ1DN	-0.44820904	0.00899058	-3.71842512	
PRKAR2A	0.44850313	0.00899058	3.72147907	yes
SEMG2	-0.44841448	0.00899058	-3.72055833	
SLC3A1	-0.44835519	0.00899058	-3.71994264	
PMPCB	0.44853767	0.00899058	3.72183784	
KLHL38	-0.44800160	0.00901948	-3.71627190	
LDLRAD3	-0.44784408	0.00903317	-3.71463735	
RTN4RL2	-0.44788129	0.00903317	-3.71502345	
C1orf130	-0.44783833	0.00903317	-3.71457771	
HCFC1R1	-0.44784790	0.00903317	-3.71467697	
KRTAP12-4	-0.44770970	0.00905592	-3.71324327	
STC2	-0.44770315	0.00905592	-3.71317527	
SIM2	-0.44754518	0.00909417	-3.71153690	
ACCN5	-0.44748234	0.00910420	-3.71088531	
GPHB5	-0.44745212	0.00910453	-3.71057196	
GPBAR1	-0.44740951	0.00910819	-3.71013009	
AMH	-0.44738171	0.00910819	-3.70984193	
SLC16A12	-0.44732501	0.00911284	-3.70925409	
FAM71F1	-0.44730807	0.00911284	-3.70907847	

KCTD18	0.44717862	0.00911469	3.70773670	
C1orf127	-0.44702592	0.00911469	-3.70615439	
CNKSR2	-0.44714016	0.00911469	-3.70733818	
SLC9A10	-0.44712710	0.00911469	-3.70720278	
RNF126P1	-0.44705357	0.00911469	-3.70644088	
HIF1AN	0.44701692	0.00911469	3.70606114	
PTPRO	-0.44704709	0.00911469	-3.70637374	
REN	-0.44701313	0.00911469	-3.70602189	yes
BRSK1	-0.44710471	0.00911469	-3.70697082	
SCARF2	-0.44720968	0.00911469	-3.70805871	
GPR44	-0.44692346	0.00911574	-3.70509287	
EN1	-0.44693538	0.00911574	-3.70521638	
NANOS3	-0.44693548	0.00911574	-3.70521735	
SMTNL2	-0.44688378	0.00911897	-3.70468186	
PCYT1A	0.44684892	0.00911897	3.70432072	
SEMA3G	-0.44682669	0.00911897	-3.70409049	yes
C11orf35	-0.44677950	0.00912451	-3.70360175	
GRIK5	-0.44662683	0.00916153	-3.70202075	
PRIMA1	-0.44656576	0.00916867	-3.70138838	
CUL4A	0.44654587	0.00916867	3.70118254	
ROR1	-0.44648825	0.00916885	-3.70058602	
SRD5A3	0.44650592	0.00916885	3.70076891	
C6orf58	-0.44644378	0.00917364	-3.70012570	
NUDT11	-0.44631840	0.00920268	-3.69882800	
MAGEC3	-0.44615131	0.00922726	-3.69709898	
NKPD1	-0.44616434	0.00922726	-3.69723386	
ACCN4	-0.44616018	0.00922726	-3.69719084	
NEFL	-0.44607707	0.00924106	-3.69633101	
ZNF268	0.44588099	0.00924725	3.69430289	
FAM119A	0.44583184	0.00924725	3.69379463	
OR10AG1	-0.44590143	0.00924725	-3.69451428	
HEXA	0.44587134	0.00924725	3.69420308	
ERAS	-0.44588207	0.00924725	-3.69431413	

LALBA	-0.44583043	0.00924725	-3.69378011	
OR14J1	-0.44592781	0.00924725	-3.69478707	
KCNQ5	-0.44600333	0.00924725	-3.69556824	
OR14C36	-0.44570623	0.00925018	-3.69249588	
C14orf119	0.44568015	0.00925018	3.69222631	
GLT8D1	0.44573492	0.00925018	3.69279256	
ISLR2	-0.44578585	0.00925018	-3.69331915	
DMRTA1	-0.44571301	0.00925018	-3.69256606	
KLHL34	-0.44556680	0.00927588	-3.69105466	yes
NKAIN1	-0.44553854	0.00927596	-3.69076249	
RFPL4B	-0.44539651	0.00931040	-3.68929480	
HMGCL	0.44529700	0.00931513	3.68826662	
S1PR5	-0.44530914	0.00931513	-3.68839199	
KRTAP1-3	-0.44532241	0.00931513	-3.68852915	
ALPK1	0.44526726	0.00931568	3.68795940	yes
TMEM72	-0.44521251	0.00932381	-3.68739378	
GNS	0.44517837	0.00932571	3.68704116	
ACTA1	-0.44514325	0.00932791	-3.68667836	
OR10K1	-0.44510931	0.00932976	-3.68632783	
TRIP4	0.44506465	0.00933487	3.68586659	yes
SNORD116-23	-0.44498398	0.00935090	-3.68503358	
LOC387763	-0.44488939	0.00935435	-3.68405689	
ISL2	-0.44491002	0.00935435	-3.68426994	
TNP2	-0.44489769	0.00935435	-3.68414255	
EXOSC6	-0.44485601	0.00935607	-3.68371229	
OR1N2	-0.44479791	0.00935691	-3.68311248	
APOBEC1	-0.44481761	0.00935691	-3.68331591	
AHSA1	0.44457440	0.00941654	3.68080572	
TBC1D21	-0.44441317	0.00945740	-3.67914220	
CLIC6	0.44433689	0.00947232	3.67835530	
BAIAP2L2	-0.44425791	0.00948810	-3.67754072	
GALR1	-0.44417925	0.00949532	-3.67672958	
NDUFA4	0.44419283	0.00949532	3.67686952	

ZCCHC16	-0.44407646	0.00951848	-3.67566967	
FAM78B	-0.44393485	0.00952824	-3.67420981	
C6orf106	0.44397825	0.00952824	3.67465712	
MRPL44	0.44398931	0.00952824	3.67477111	
CSDA	0.44395945	0.00952824	3.67446333	
SLC2A13	0.44386141	0.00952935	3.67345274	
CDYL2	-0.44382372	0.00952935	-3.67306438	
C18orf56	-0.44382161	0.00952935	-3.67304265	
PXMP3	0.44382992	0.00952935	3.67312829	
CORT	-0.44376356	0.00953882	-3.67244439	
GSG1L	-0.44365132	0.00955660	-3.67128789	
FAAH2	0.44367705	0.00955660	3.67155292	
PLXNB3	-0.44359711	0.00956492	-3.67072929	yes
EIF5	0.44355832	0.00956560	3.67032971	yes
CASR	-0.44354039	0.00956560	-3.67014497	
CIB1	0.44321772	0.00957799	3.66682200	
HRH3	-0.44325533	0.00957799	-3.66720921	
IL17F	-0.44319407	0.00957799	-3.66657857	
PRAP1	-0.44321609	0.00957799	-3.66680523	
UGT3A1	-0.44319173	0.00957799	-3.66655440	
LHFPL5	-0.44333583	0.00957799	-3.66803812	
OR10J3	-0.44339915	0.00957799	-3.66869028	
PCSK1	-0.44334024	0.00957799	-3.66808354	
UBE2A	0.44321185	0.00957799	3.66676160	
GPR37L1	-0.44317497	0.00957799	-3.66638186	
PAGE4	-0.44327727	0.00957799	-3.66743513	
PRDX6	0.44318848	0.00957799	3.66652096	
CPLX1	-0.44311764	0.00958738	-3.66579169	
SHROOM1	-0.44305223	0.00958968	-3.66511842	
PGM2L1	0.44302940	0.00958968	3.66488339	yes
FTMT	-0.44303745	0.00958968	-3.66496634	
C16orf11	-0.44291729	0.00960775	-3.66372971	
ZSCAN10	-0.44293476	0.00960775	-3.66390946	

FAM174A	0.44271185	0.00965728	3.66161594	
SPRYD5	-0.44270414	0.00965728	-3.66153656	
FAM148C	-0.44257876	0.00967128	-3.66024695	
GABRA4	-0.44262100	0.00967128	-3.66068138	
LCE2A	-0.44258354	0.00967128	-3.66029617	
GJD3	-0.44233861	0.00969234	-3.65777750	
RNF151	-0.44235001	0.00969234	-3.65789474	
EMX2	-0.44240759	0.00969234	-3.65848679	
FOXS1	-0.44233109	0.00969234	-3.65770022	
KLK3	-0.44241565	0.00969234	-3.65856968	
LOC439951	-0.44229763	0.00969234	-3.65735626	
NIF3L1	0.44231984	0.00969234	3.65758460	
hCG_1781062	0.44239074	0.00969234	3.65831350	
CACNB4	-0.44225689	0.00969676	-3.65693742	
IPMK	0.44222697	0.00969779	3.65662991	yes
OSCAR	-0.44215931	0.00970550	-3.65593449	
S100A1	-0.44214916	0.00970550	-3.65583022	
LAMC3	-0.44210812	0.00971004	-3.65540839	
PRPH	-0.44205232	0.00971920	-3.65483493	
XKR3	-0.44194815	0.00974351	-3.65376464	
SOX3	-0.44191540	0.00974547	-3.65342818	
VEGFB	-0.44187407	0.00975013	-3.65300359	
NKX2-3	-0.44173142	0.00975450	-3.65153836	
AQP11	-0.44179006	0.00975450	-3.65214064	
OTOG	-0.44172816	0.00975450	-3.65150478	
CRIP3	-0.44183060	0.00975450	-3.65255699	
ADAMTS2	-0.44177247	0.00975450	-3.65195992	
TMEM215	-0.44167966	0.00976145	-3.65100678	
MRPL39	0.44163079	0.00976853	3.65050490	yes
RBMXL2	-0.44152479	0.00976882	-3.64941651	
OXT	-0.44154778	0.00976882	-3.64965252	
MIOX	-0.44152670	0.00976882	-3.64943612	
ATG10	0.44157892	0.00976882	3.64997231	

HOXD11	-0.44138263	0.00980525	-3.64795714	
CD300LG	-0.44128984	0.00982623	-3.64700475	
FNDC7	-0.44120477	0.00984481	-3.64613177	
HOXD13	-0.44115056	0.00985367	-3.64557547	
PTCRA	-0.44084547	0.00990895	-3.64244586	
NR5A1	-0.44075124	0.00990895	-3.64147952	
KRTAP10-11	-0.44074527	0.00990895	-3.64141828	
C5orf46	-0.44093617	0.00990895	-3.64337604	
MYF5	-0.44084318	0.00990895	-3.64242231	
STRBP	0.44071526	0.00990895	3.64111058	yes
TFB2M	0.44073311	0.00990895	3.64129359	
LCAP	-0.44075929	0.00990895	-3.64156208	
SLC1A7	-0.44088490	0.00990895	-3.64285020	
LOC729135	-0.44072022	0.00990895	-3.64116142	
TRPM1	-0.44051913	0.00992335	-3.63909994	
C3orf14	0.44063720	0.00992335	3.64031029	
TLL2	-0.44052119	0.00992335	-3.63912109	
KIAA1772	-0.44056055	0.00992335	-3.63952447	
S1PR4	-0.44051433	0.00992335	-3.63905074	
FOXH1	-0.44054582	0.00992335	-3.63937349	
LBX1	-0.44044626	0.00992385	-3.63835303	
LOC146429	-0.44036753	0.00992385	-3.63754625	
PLAC9	-0.44035533	0.00992385	-3.63742116	yes
LILRA4	-0.44046235	0.00992385	-3.63851801	
GCHFR	-0.44029454	0.00992385	-3.63679831	
FAM132A	-0.44038404	0.00992385	-3.63771537	
LHX1	-0.44028069	0.00992385	-3.63665638	
CYB5R1	0.44039613	0.00992385	3.63783935	
CNTNAP4	-0.44029329	0.00992385	-3.63678548	
C5orf32	0.44020293	0.00994039	3.63585967	
LOC100132323	-0.44013237	0.00994651	-3.63513685	
PRODH2	-0.44013684	0.00994651	-3.63518272	
CTNND2	-0.44007494	0.00995662	-3.63454860	

DSCR6	-0.43993775	0.00996955	-3.63314360	yes
FAM20A	-0.43993197	0.00996955	-3.63308440	
NIT2	0.43996223	0.00996955	3.63339428	
ASB13	0.43998175	0.00996955	3.63359416	
LOC100129427	-0.43954126	0.00999285	-3.62908476	
CTSH	0.43960755	0.00999285	3.62976317	
C11orf41	-0.43960429	0.00999285	-3.62972983	
RAB41	-0.43973320	0.00999285	-3.63104932	
NPY6R	-0.43962570	0.00999285	-3.62994895	
FOXP3	-0.43961706	0.00999285	-3.62986052	
AZIN1	0.43970146	0.00999285	3.63072440	yes
PIP	-0.43954088	0.00999285	-3.62908084	
PNLIPRP1	-0.43970004	0.00999285	-3.63070987	
RPL23AP32	-0.43977710	0.00999285	-3.63149876	
PSMC5	0.43952813	0.00999285	3.62895042	
RAD52	0.43954695	0.00999285	3.62914299	
UMPS	0.43953478	0.00999285	3.62901850	
PEBP4	-0.43948129	0.00999972	-3.62847104	
ABRA	-0.43933482	0.01000616	-3.62697244	
NAP1L4	0.43933584	0.01000616	3.62698289	
NDUFB6	0.43941066	0.01000616	3.62774841	
FHOD3	-0.43938182	0.01000616	-3.62745336	
KIAA1919	0.43933893	0.01000616	3.62701451	
SCGB1D4	-0.43930406	0.01000793	-3.62665784	
CHRNA3	-0.43924890	0.01001750	-3.62609354	
THNSL2	0.43912058	0.01005051	3.62478120	
ERC2	-0.43908706	0.01005319	-3.62443837	
CD7	-0.43902268	0.01006577	-3.62378004	
GPX6	-0.43890772	0.01009462	-3.62260465	
NKX2-2	-0.43884565	0.01010652	-3.62197015	
GAS2L1	-0.43856646	0.01013451	-3.61911695	
FAM101A	-0.43859740	0.01013451	-3.61943312	
GDF7	-0.43837716	0.01013451	-3.61718315	

ALDH1L2	-0.43832500	0.01013451	-3.61665034	
DLAT	0.43850572	0.01013451	3.61849641	yes
EFNA2	-0.43825505	0.01013451	-3.61593594	
EYA3	0.43836198	0.01013451	3.61702801	
SP8	-0.43849026	0.01013451	-3.61833847	
ANKRD28	0.43841781	0.01013451	3.61759829	
PACSIN1	-0.43830413	0.01013451	-3.61643724	
SULT1C3	-0.43868996	0.01013451	-3.62037897	
FEV	-0.43821173	0.01013451	-3.61549356	
SHD	-0.43824937	0.01013451	-3.61587799	
CCL25	-0.43840862	0.01013451	-3.61750450	
SPRR2C	-0.43867018	0.01013451	-3.62017675	
TBXA2R	-0.43827109	0.01013451	-3.61609975	
TCEB1	0.43850939	0.01013451	3.61853386	
MARVELD1	-0.43828608	0.01013451	-3.61625285	
JAGN1	0.43863427	0.01013451	3.61980978	
SLC28A1	-0.43821054	0.01013451	-3.61548147	
GABBR2	-0.43850311	0.01013451	-3.61846968	
KBTBD11	-0.43847723	0.01013451	-3.61820529	
CNTN6	-0.43815189	0.01013749	-3.61488254	
ZNF585B	0.43816405	0.01013749	3.61500670	
HSPB6	-0.43811690	0.01014081	-3.61452535	
FLJ40235	-0.43801071	0.01016712	-3.61344118	
PYY2	-0.43790789	0.01018189	-3.61239174	
ZBTB32	-0.43790432	0.01018189	-3.61235527	
ZNF703	-0.43787963	0.01018189	-3.61210326	
TMEM107	0.43786646	0.01018189	3.61196892	
SETD1B	-0.43762252	0.01021319	-3.60947980	yes
GUCA2A	-0.43768110	0.01021319	-3.61007745	
KCNK3	-0.43765791	0.01021319	-3.60984078	
DNAJA4	0.43763883	0.01021319	3.60964621	yes
DBNDD1	-0.43765337	0.01021319	-3.60979453	
IP6K1	0.43772578	0.01021319	3.61053331	

EPHA8	-0.43735300	0.01028319	-3.60673087	
NALCN	-0.43733305	0.01028319	-3.60652738	
ATIC	0.43733497	0.01028319	3.60654698	
PPP2R5B	-0.43730932	0.01028319	-3.60628539	
ZBTB43	0.43720624	0.01030249	3.60523450	
IRX1	-0.43720129	0.01030249	-3.60518398	
GPC2	-0.43706062	0.01032981	-3.60375008	
COPS7A	0.43709094	0.01032981	3.60405908	
ZFYVE20	0.43704453	0.01032981	3.60358610	
MDN1	0.43693754	0.01034665	3.60249573	
NRIP3	-0.43693784	0.01034665	-3.60249874	
SLC10A2	-0.43689575	0.01034665	-3.60206982	
VIPR2	-0.43690816	0.01034665	-3.60219635	
RALYL	-0.43680084	0.01036981	-3.60110279	
MESP2	-0.43673561	0.01038325	-3.60043834	
SNORA35	-0.43670286	0.01038604	-3.60010464	
RAMP1	-0.43652354	0.01042230	-3.59827835	yes
FGD1	-0.43644736	0.01042230	-3.59750261	
H3F3B	0.43647822	0.01042230	3.59781686	
MMP11	-0.43650302	0.01042230	-3.59806940	
TRIT1	0.43645915	0.01042230	3.59762263	
HHAT	0.43644876	0.01042230	3.59751688	
SCRT2	-0.43633043	0.01045292	-3.59631211	
MT3	-0.43625450	0.01047004	-3.59553909	
HSPB3	-0.43622258	0.01047261	-3.59521422	
C20orf144	-0.43615510	0.01047291	-3.59452740	
HOXD3	-0.43612527	0.01047291	-3.59422384	
MEG3	-0.43612583	0.01047291	-3.59422949	
SDHA	0.43614892	0.01047291	3.59446449	
ZDHHC22	-0.43603587	0.01048590	-3.59331402	
RPL27P8	-0.43604941	0.01048590	-3.59345179	
CCK	-0.43601388	0.01048590	-3.59309030	
LCN1	-0.43597022	0.01049241	-3.59264607	

ABCG4	-0.43586920	0.01051796	-3.59161836	
AHSG	-0.43576260	0.01053744	-3.59053404	
SMG7	0.43578021	0.01053744	3.59071314	yes
ESSPL	-0.43572483	0.01054203	-3.59014983	
LHFPL3	-0.43567907	0.01054929	-3.58968446	
THUMPD3	0.43563954	0.01055449	3.58928246	
LOC389203	0.43557448	0.01056819	3.58862092	
PKDREJ	-0.43553232	0.01057342	-3.58819222	
TBX22	-0.43549811	0.01057342	-3.58784450	
SPP2	-0.43548713	0.01057342	-3.58773279	
SMAD6	-0.43544497	0.01057952	-3.58730424	
GPR6	-0.43539023	0.01058984	-3.58674778	
LOC100129890	-0.43518735	0.01059673	-3.58468584	
PSME3	0.43518922	0.01059673	3.58470480	
CDK7	0.43519646	0.01059673	3.58477837	
PRMT5	0.43526311	0.01059673	3.58545572	
CKAP4	-0.43513209	0.01059673	-3.58412432	
LEAP2	-0.43531492	0.01059673	-3.58598230	
KCNMB1	-0.43513203	0.01059673	-3.58412375	
GDF6	-0.43517011	0.01059673	-3.58451070	
C19orf31	-0.43516579	0.01059673	-3.58446674	
PPID	0.43520670	0.01059673	3.58488252	
SLC19A1	-0.43510761	0.01059698	-3.58387561	
OR52E8	-0.43507424	0.01059963	-3.58353658	
SRP14	0.43505241	0.01059963	3.58331476	
EPS8	0.43498626	0.01061383	3.58264279	yes
ASPDH	-0.43492968	0.01062485	-3.58206801	
IL34	-0.43481577	0.01063634	-3.58091109	yes
CTSB	0.43480447	0.01063634	3.58079637	
DEFA5	-0.43480105	0.01063634	-3.58076169	
NTSR1	-0.43486676	0.01063634	-3.58142896	
OR5J2	-0.43459412	0.01066136	-3.57866055	
KRTAP10-7	-0.43465777	0.01066136	-3.57930680	

ATP4A	-0.43464673	0.01066136	-3.57919470	
F11R	0.43468732	0.01066136	3.57960682	
hCG_1793639	-0.43458538	0.01066136	-3.57857180	
ALDH1A2	-0.43462471	0.01066136	-3.57897112	
LELP1	-0.43448422	0.01067908	-3.57754499	
ZNF679	-0.43446228	0.01067908	-3.57732230	
OR4X1	-0.43449128	0.01067908	-3.57761662	
PCBP3	-0.43437046	0.01070207	-3.57639040	
RALGPS2	0.43431261	0.01070580	3.57580334	yes
RPS3A	-0.43432022	0.01070580	-3.57588054	
TMPRSS6	-0.43427920	0.01070918	-3.57546435	
PLA2G5	-0.43419745	0.01071526	-3.57463491	
ODZ3	-0.43419113	0.01071526	-3.57457079	
CCKBR	-0.43419305	0.01071526	-3.57459027	
TMEM116	0.43416377	0.01071662	3.57429323	
CPLX2	-0.43413714	0.01071775	-3.57402304	
GLI4	-0.43410163	0.01072187	-3.57366281	
LOC283392	-0.43403698	0.01073581	-3.57300705	
GALNTL6	-0.43396464	0.01075237	-3.57227336	
MTPN	0.43374550	0.01080896	3.57005129	
NCRNA00085	-0.43372768	0.01080896	-3.56987063	
OR56B1	-0.43375438	0.01080896	-3.57014132	
PSD3	0.43370205	0.01080978	3.56961087	yes
FOLR4	-0.43363761	0.01082323	-3.56895764	
RAB14	0.43361605	0.01082323	3.56873911	
TAS1R3	-0.43358852	0.01082471	-3.56846007	
MBOAT1	0.43354742	0.01083081	3.56804351	
EDN1	-0.43344180	0.01083993	-3.56697311	yes
FLRT1	-0.43342382	0.01083993	-3.56679092	
MRPS10	0.43340507	0.01083993	3.56660095	yes
FAM18A	-0.43342864	0.01083993	-3.56683977	
ACTL8	-0.43344271	0.01083993	-3.56698237	
LATS2	-0.43333313	0.01085655	-3.56587206	

ANKFY1	0.43324791	0.01086987	3.56500873	
PRHOXNB	-0.43326532	0.01086987	-3.56518511	
PCSK9	-0.43319331	0.01087309	-3.56445563	
C17orf55	-0.43319242	0.01087309	-3.56444664	
G3BP1	0.43314690	0.01088077	3.56398558	
INTS10	0.43309914	0.01088921	3.56350189	
CD300LB	-0.43307184	0.01089069	-3.56322541	
SCNN1D	-0.43297940	0.01091441	-3.56228929	
GJA4	-0.43294477	0.01091840	-3.56193870	
IGFL2	-0.43282200	0.01094471	-3.56069571	
DACT2	-0.43282215	0.01094471	-3.56069724	
PDCD6	0.43266605	0.01095198	3.55911722	
SULT4A1	-0.43254972	0.01095198	-3.55794004	
AMPH	-0.43263950	0.01095198	-3.55884853	
LOC388882	-0.43255332	0.01095198	-3.55797643	
NKX1-2	-0.43276962	0.01095198	-3.56016552	
TMEM89	-0.43255664	0.01095198	-3.55800999	
SYNJ2BP	0.43269057	0.01095198	3.55936541	
KAZALD1	-0.43263359	0.01095198	-3.55878868	
PSD2	-0.43262748	0.01095198	-3.55872686	
TNFRSF10D	-0.43263623	0.01095198	-3.55881548	yes
SNORD46	-0.43255492	0.01095198	-3.55799265	
SPAG4L	-0.43249464	0.01096306	-3.55738269	
GLT6D1	-0.43243068	0.01097719	-3.55673559	
MRPS28	0.43233563	0.01100202	3.55577407	
LOC100128830	-0.43226602	0.01100793	-3.55506994	
NDP	-0.43225038	0.01100793	-3.55491178	
SMARCD3	-0.43228323	0.01100793	-3.55524400	yes
MNT	-0.43205919	0.01106598	-3.55297839	
CYBASC3	0.43188815	0.01111104	3.55124927	
EXOSC2	0.43186099	0.01111104	3.55097477	
LOC643332	-0.43188083	0.01111104	-3.55117535	
GLTPD2	-0.43181356	0.01111202	-3.55049538	

PAX6	-0.43181293	0.01111202	-3.55048904
CRISP3	-0.43171048	0.01113972	-3.54945362
CHRM2	-0.43166028	0.01114931	-3.54894644
SUSD3	-0.43155824	0.01115322	-3.54791548
OR52B6	-0.43157929	0.01115322	-3.54812809
TESSP5	-0.43155105	0.01115322	-3.54784283
ZIC2	-0.43162351	0.01115322	-3.54857492
KRTAP3-2	-0.43153631	0.01115322	-3.54769389
ST6GALNAC3	-0.43150806	0.01115522	-3.54740847
GPR152	-0.43147382	0.01115836	-3.54706262
GALNT9	-0.43145405	0.01115836	-3.54686296
COQ9	0.43138611	0.01117418	3.54617669
GPR27	-0.43132804	0.01117876	-3.54559025
PLA2G2F	-0.43132806	0.01117876	-3.54559043
RGMA	-0.43129107	0.01118383	-3.54521683
MUC17	-0.43117235	0.01119399	-3.54401809
FGF22	-0.43117547	0.01119399	-3.54404962
GRIN2D	-0.43122838	0.01119399	-3.54458386
OR51M1	-0.43117794	0.01119399	-3.54407448
RBMX	-0.43103263	0.01121933	-3.54260758
SLC25A18	-0.43104016	0.01121933	-3.54268359
PSKH2	-0.43104813	0.01121933	-3.54276398
MTMR3	0.43099915	0.01122323	3.54226958
LOC100131763	-0.43090095	0.01124137	-3.54127845
C13orf28	-0.43081585	0.01124137	-3.54041972
ZNF385C	-0.43085818	0.01124137	-3.54084681
CLIP3	-0.43083371	0.01124137	-3.54059996
C3orf18	-0.43085266	0.01124137	-3.54079116
PRSS7	-0.43081357	0.01124137	-3.54039666
LDB3	-0.43070022	0.01125771	-3.53925298
WBSCR22	0.43071169	0.01125771	3.53936869
FLJ46210	-0.43070782	0.01125771	-3.53932968
ZCCHC5	-0.43065607	0.01126378	-3.53880758

LOC643905	-0.43063850	0.01126378	-3.53863032	
AZU1	-0.43058941	0.01127321	-3.53813518	
ANXA4	0.43056416	0.01127429	3.53788047	yes
LOC389813	-0.43053724	0.01127597	-3.53760895	
CDKN2AIP	0.43051457	0.01127616	3.53738030	
MGC39545	-0.43044640	0.01128456	-3.53669275	
CFLAR	0.43046739	0.01128456	3.53690442	
FRAG1	0.43038890	0.01129698	3.53611290	
EGR4	-0.43035525	0.01129767	-3.53577353	
C19orf35	-0.43032752	0.01129767	-3.53549396	
SHB	-0.43032076	0.01129767	-3.53542575	
CACNG3	-0.43025492	0.01131066	-3.53476191	
NECAP2	0.43023968	0.01131066	3.53460832	
KCNJ11	-0.43020923	0.01131362	-3.53430130	
TMEM207	-0.43004871	0.01133230	-3.53268332	
SHISA4	-0.43009879	0.01133230	-3.53318811	
IL19	-0.43008179	0.01133230	-3.53301669	
IMPDH1	-0.43004622	0.01133230	-3.53265826	
KIAA0644	-0.43005801	0.01133230	-3.53277704	
OR8H1	-0.42997037	0.01134364	-3.53189386	
LPO	-0.42997012	0.01134364	-3.53189131	
SLC22A1	-0.42969211	0.01142684	-3.52909036	
LBX2	-0.42969053	0.01142684	-3.52907444	
MYLIP	0.42959367	0.01145021	3.52809879	
TBX21	-0.42958080	0.01145021	-3.52796920	
CHMP2A	0.42953024	0.01146039	3.52746005	
CADPS	-0.42948921	0.01146719	-3.52704683	
ZNF423	-0.42944521	0.01146730	-3.52660380	
GRIK3	-0.42944718	0.01146730	-3.52662366	
LOC100133367	-0.42938884	0.01147957	-3.52603625	
CD72	-0.42929676	0.01150457	-3.52510921	
HRASLS5	-0.42914699	0.01150828	-3.52360174	
BEST3	-0.42924457	0.01150828	-3.52458395	

CCNDBP1	0.42911229	0.01150828	3.52325250	
GPD1	-0.42911880	0.01150828	-3.52331804	yes
GRM3	-0.42919187	0.01150828	-3.52405347	
KCNC1	-0.42917288	0.01150828	-3.52386235	
ACOT1	-0.42912252	0.01150828	-3.52335553	
LOC646891	-0.42923130	0.01150828	-3.52445035	
LOC729040	-0.42909035	0.01150837	-3.52303176	
MAP6D1	-0.42903695	0.01151966	-3.52249438	
RPL36AL	0.42899675	0.01152626	3.52208991	
SNRPD1	0.42896393	0.01153024	3.52175963	
HIPK4	-0.42889951	0.01153828	-3.52111151	
C4orf12	-0.42889809	0.01153828	-3.52109731	
VAX1	-0.42865244	0.01154310	-3.51862640	
ATN1	-0.42874087	0.01154310	-3.51951575	
MRAS	-0.42874703	0.01154310	-3.51957773	
HMGXB3	0.42867167	0.01154310	3.51881980	
ACCSL	-0.42873529	0.01154310	-3.51945972	
FADS3	-0.42867432	0.01154310	-3.51884653	yes
CCDC53	0.42865601	0.01154310	3.51866234	
HSD17B14	-0.42864967	0.01154310	-3.51859863	yes
GCM1	-0.42875304	0.01154310	-3.51963820	
ZNF628	-0.42884402	0.01154310	-3.52055332	
TSC22D2	-0.42864742	0.01154310	-3.51857599	
GP5	-0.42859638	0.01154598	-3.51806276	
SPSB4	-0.42861522	0.01154598	-3.51825218	yes
LOC100128374	-0.42851357	0.01155994	-3.51723003	
ANGPT4	-0.42847150	0.01155994	-3.51680709	
ZNF697	-0.42849051	0.01155994	-3.51699823	
CD33	-0.42849888	0.01155994	-3.51708234	
RAMP2	-0.42838142	0.01156156	-3.51590153	
AGTR1	-0.42843723	0.01156156	-3.51646256	
SAP30L	0.42838156	0.01156156	3.51590296	
WDR61	0.42840249	0.01156156	3.51611332	

EFCAB5	-0.42826337	0.01159391	-3.51471498	
MRPL33	0.42824811	0.01159391	3.51456169	
PTCH2	-0.42820090	0.01160317	-3.51408721	
APOC2	-0.42815354	0.01161249	-3.51361127	
TRAF3	0.42812905	0.01161363	3.51336522	
OTOP2	-0.42807359	0.01162586	-3.51280794	
LCE5A	-0.42805020	0.01162661	-3.51257299	
LRFN5	-0.42799954	0.01163715	-3.51206405	
OR2L2	-0.42794980	0.01164236	-3.51156437	
FAM70B	-0.42792122	0.01164236	-3.51127727	yes
COLEC11	-0.42792999	0.01164236	-3.51136532	
C7orf11	0.42786459	0.01164814	3.51070841	
KIAA1841	0.42786266	0.01164814	3.51068908	
PROP1	-0.42782524	0.01165396	-3.51031328	
GLYAT	-0.42779922	0.01165569	-3.51005192	
APC2	-0.42763859	0.01167538	-3.50843898	
SLC26A3	-0.42765813	0.01167538	-3.50863514	yes
SUSD2	-0.42768993	0.01167538	-3.50895446	
RPL36P8	-0.42771349	0.01167538	-3.50919104	
MAP4K4	0.42765106	0.01167538	3.50856414	
POM121L9P	-0.42761423	0.01167655	-3.50819433	
C1orf71	0.42752390	0.01170145	3.50728750	
PRKAG3	-0.42749745	0.01170337	-3.50702196	
LACE1	0.42744912	0.01171305	3.50653685	
RHAG	-0.42742840	0.01171305	-3.50632888	
ROD1	0.42734781	0.01173452	3.50552010	yes
C9orf3	0.42720897	0.01177710	3.50412682	
ZXDB	-0.42700087	0.01180637	-3.50203920	
FREM3	-0.42691812	0.01180637	-3.50120927	
GABRD	-0.42709124	0.01180637	-3.50294572	
C14orf180	-0.42705358	0.01180637	-3.50256793	
NBR1	0.42701900	0.01180637	3.50222105	
CRLS1	0.42701680	0.01180637	3.50219905	

PCDH10	-0.42694113	0.01180637	-3.50143998	
UPK3A	-0.42701893	0.01180637	-3.50222035	
OR12D3	-0.42697327	0.01180637	-3.50176235	
LRRC16B	-0.42693120	0.01180637	-3.50134039	
KRT28	-0.42679833	0.01184227	-3.50000802	
CCT2	0.42671877	0.01185021	3.49921030	
C1orf65	-0.42671373	0.01185021	-3.49915974	
SLC25A4	0.42672144	0.01185021	3.49923703	
RP13-388O5.1	-0.42660495	0.01187787	-3.49806921	
YY2	-0.42659599	0.01187787	-3.49797942	
C10orf129	-0.42657490	0.01187794	-3.49776804	
MAP3K2	0.42643149	0.01187985	3.49633068	
OR7C1	-0.42642521	0.01187985	-3.49626777	
HSPB2	-0.42640304	0.01187985	-3.49604564	
OR4K2	-0.42650816	0.01187985	-3.49709908	
NCRNA00086	-0.42651091	0.01187985	-3.49712663	
BATF3	-0.42647279	0.01187985	-3.49674460	
INSM2	-0.42641704	0.01187985	-3.49618587	
COG7	0.42640684	0.01187985	3.49608373	
MYL12B	0.42632143	0.01190203	3.49522782	
C10orf27	-0.42627596	0.01191105	-3.49477227	
PWP1	0.42592872	0.01196180	3.49129420	
CRISP1	-0.42596224	0.01196180	-3.49162990	
DLX4	-0.42586825	0.01196180	-3.49068875	
IKZF2	0.42593814	0.01196180	3.49138856	yes
IL27	-0.42600305	0.01196180	-3.49203854	
HECTD1	0.42587022	0.01196180	3.49070852	yes
SLCO4A1	-0.42593792	0.01196180	-3.49138635	yes
TFDP3	-0.42603287	0.01196180	-3.49233722	
PITX3	-0.42601784	0.01196180	-3.49218672	
RHBDL2	0.42593654	0.01196180	3.49137253	
CACNA1S	-0.42588991	0.01196180	-3.49090562	
HIST1H4G	-0.42597177	0.01196180	-3.49172536	

TNFSF18	-0.42611006	0.01196180	-3.49311035	
CHRNA4	-0.42564403	0.01197663	-3.48844413	
CCDC105	-0.42579101	0.01197663	-3.48991539	
ESR1	-0.42560167	0.01197663	-3.48802017	
SNORA71B	-0.42566240	0.01197663	-3.48862798	
HOXC4	-0.42561075	0.01197663	-3.48811108	
SLC6A17	-0.42568979	0.01197663	-3.48890214	yes
OR52E4	-0.42562881	0.01197663	-3.48829177	
LOC401097	-0.42569255	0.01197663	-3.48892975	yes
RDH14	0.42568457	0.01197663	3.48884995	
RPS10	-0.42572119	0.01197663	-3.48921648	
TBC1D4	-0.42573568	0.01197663	-3.48936153	yes
E2F1	-0.42550884	0.01199078	-3.48709111	
C10orf120	-0.42551643	0.01199078	-3.48716708	
ESX1	-0.42550165	0.01199078	-3.48701923	
KLF17	-0.42543471	0.01200784	-3.48634934	
MCAT	0.42540002	0.01200844	3.48600226	
FN3KRP	0.42539218	0.01200844	3.48592383	
HIPK1	0.42533407	0.01201741	3.48534242	
DLGAP4	-0.42532458	0.01201741	-3.48524751	
LGALS3	0.42530653	0.01201741	3.48506701	yes
PITX2	-0.42524885	0.01202886	-3.48448994	
HS3ST2	-0.42523461	0.01202886	-3.48434748	
NUDT1	-0.42518935	0.01203801	-3.48389485	
MMP21	-0.42516492	0.01203951	-3.48365045	
TPM2	-0.42512698	0.01204598	-3.48327107	
PRG3	-0.42475264	0.01207704	-3.47952836	
C21orf89	-0.42500348	0.01207704	-3.48203605	
KLRAQ1	0.42485184	0.01207704	3.48051993	
TRIM40	-0.42478091	0.01207704	-3.47981093	
RC3H1	0.42470442	0.01207704	3.47904639	yes
ETV1	-0.42462256	0.01207704	-3.47822833	
FADS6	-0.42483533	0.01207704	-3.48035488	

EPHA10	-0.42460351	0.01207704	-3.47803799	
ANGPT2	-0.42455758	0.01207704	-3.47757902	
SLC36A3	-0.42456982	0.01207704	-3.47770134	
OR5F1	-0.42499746	0.01207704	-3.48197586	
LCE1D	-0.42463354	0.01207704	-3.47833807	
C7orf61	-0.42476366	0.01207704	-3.47963852	
NFKBIL2	-0.42470656	0.01207704	-3.47906776	
PDHA2	-0.42469166	0.01207704	-3.47891889	
FASTKD5	0.42479386	0.01207704	3.47994036	
TRPM2	-0.42462564	0.01207704	-3.47825904	
ZNF3	0.42466338	0.01207704	3.47863620	
DPF3	-0.42462786	0.01207704	-3.47828128	yes
FBN3	-0.42464227	0.01207704	-3.47842526	
ARTN	-0.42480194	0.01207704	-3.48002110	
HTR3B	-0.42496221	0.01207704	-3.48162340	
KIAA0391	0.42458279	0.01207704	3.47783091	
KCNE2	-0.42458802	0.01207704	-3.47788312	
SPDYC	-0.42445479	0.01209274	-3.47655201	
CPXM1	-0.42445887	0.01209274	-3.47659275	
SLC22A6	-0.42445874	0.01209274	-3.47659144	
C7orf44	0.42439532	0.01210001	3.47595787	
AASDHPPT	0.42439499	0.01210001	3.47595459	
LMTK3	-0.42435950	0.01210572	-3.47560001	
RPL26P12	-0.42422908	0.01213912	-3.47429745	
MMP27	-0.42423107	0.01213912	-3.47431732	
OR10A4	-0.42415959	0.01215744	-3.47360342	
PSMB3	0.42412587	0.01216252	3.47326670	
PRM1	-0.42408950	0.01216859	-3.47290358	
DCLK2	-0.42393673	0.01221616	-3.47137832	
OR10A3	-0.42392143	0.01221616	-3.47122560	
PNPLA5	-0.42386409	0.01223007	-3.47065324	
CST8	-0.42383315	0.01223417	-3.47034441	
DMRTB1	-0.42375942	0.01224678	-3.46960857	

C21orf67	-0.42376820	0.01224678	-3.46969623	
HOXD1	-0.42373810	0.01224730	-3.46939584	
HTRA4	-0.42366130	0.01225369	-3.46862941	
CABP2	-0.42368191	0.01225369	-3.46883511	
BPHL	0.42366705	0.01225369	3.46868679	
OTX2	-0.42358143	0.01227606	-3.46783252	
KRT84	-0.42353789	0.01228490	-3.46739815	
KIF12	-0.42348432	0.01229415	-3.46686376	
MTMR14	0.42347343	0.01229415	3.46675513	
SOX7	-0.42345341	0.01229422	-3.46655542	
KERA	-0.42329991	0.01231459	-3.46502446	
LYPD1	-0.42331487	0.01231459	-3.46517357	
FCRLB	-0.42331035	0.01231459	-3.46512851	
FGFRL1	-0.42332414	0.01231459	-3.46526611	
CNOT8	0.42332635	0.01231459	3.46528812	
PROKR1	-0.42316830	0.01232712	-3.46371208	
ZNF775	-0.42318659	0.01232712	-3.46389441	yes
KCNF1	-0.42313739	0.01232712	-3.46340386	
RASL12	-0.42318423	0.01232712	-3.46387087	yes
SFMBT1	0.42317918	0.01232712	3.46382054	yes
SGCA	-0.42312821	0.01232712	-3.46331235	
TGFB111	-0.42314931	0.01232712	-3.46352271	yes
CSMD2	-0.42302209	0.01233001	-3.46225443	
TMEM151A	-0.42302920	0.01233001	-3.46232527	
UTS2R	-0.42306849	0.01233001	-3.46271692	
RADIL	-0.42302396	0.01233001	-3.46227305	
TPM1	-0.42305874	0.01233001	-3.46261975	
LOC340602	-0.42298876	0.01233513	-3.46192217	
GDF2	-0.42294725	0.01234332	-3.46150844	
ACTL7A	-0.42282026	0.01237622	-3.46024279	
GALNT8	-0.42282704	0.01237622	-3.46031036	
RAB26	-0.42261930	0.01243708	-3.45824045	
CGNL1	-0.42263593	0.01243708	-3.45840618	

SNORD115-32	-0.42253439	0.01245433	-3.45739465	
TMEM82	-0.42254784	0.01245433	-3.45752863	
PPAPDC3	-0.42245012	0.01247876	-3.45655534	
OR52B2	-0.42237163	0.01249030	-3.45577358	
NDFIP2	0.42236093	0.01249030	3.45566704	
UNC119B	0.42237146	0.01249030	3.45577191	
VPS26B	0.42232440	0.01249036	3.45530336	
AZGP1	-0.42232165	0.01249036	-3.45527598	
ASTE1	0.42224367	0.01251250	3.45449952	
KRTAP19-5	-0.42220383	0.01252020	-3.45410281	
COL4A3	-0.42210629	0.01252024	-3.45313179	
GABRG2	-0.42208681	0.01252024	-3.45293791	
LOC100133410	-0.42208930	0.01252024	-3.45296272	
LOC375295	-0.42210337	0.01252024	-3.45310276	yes
VCPIP1	0.42214831	0.01252024	3.45355012	
RUVBL1	0.42216148	0.01252024	3.45368120	
OR4A5	-0.42204918	0.01252713	-3.45256335	
GPBP1L1	0.42201344	0.01253331	3.45220763	
CNTFR	-0.42198261	0.01253607	-3.45190075	
SCN10A	-0.42196731	0.01253607	-3.45174849	
MGC34800	-0.42183858	0.01254349	-3.45046749	
WDR47	0.42177338	0.01254349	3.44981881	yes
LCN15	-0.42186297	0.01254349	-3.45071015	
C11orf49	0.42179419	0.01254349	3.45002578	
PPP1R1B	-0.42182084	0.01254349	-3.45029094	
GLIS2	-0.42183539	0.01254349	-3.45043570	
KIAA1644	-0.42180336	0.01254349	-3.45011709	
CACNA2D2	-0.42189278	0.01254349	-3.45100678	
AATK	-0.42179023	0.01254349	-3.44998642	
DYNC2LI1	0.42173019	0.01255255	3.44938910	
CSHL1	-0.42160583	0.01256373	-3.44815201	
FRZB	-0.42159843	0.01256373	-3.44807837	
FAM70A	-0.42158501	0.01256373	-3.44794496	

KLK15	-0.42166882	0.01256373	-3.44877854	
ATPGD1	-0.42160059	0.01256373	-3.44809984	
FAM60A	0.42163976	0.01256373	3.44848952	yes
RNF6	0.42156285	0.01256464	3.44772450	yes
ST6GAL1	0.42154411	0.01256464	3.44753813	
SUMO1P1	-0.42149242	0.01257697	-3.44702401	
S100A7A	-0.42147042	0.01257803	-3.44680524	
PRDX5	0.42144479	0.01258047	3.44655035	
CCDC138	0.42138934	0.01259419	3.44599899	yes
FNDC8	-0.42136506	0.01259419	-3.44575763	
VAPA	0.42135109	0.01259419	3.44561871	yes
BCAP31	0.42119260	0.01259685	3.44404308	
TMEM155	-0.42117826	0.01259685	-3.44390050	
CCDC129	-0.42123941	0.01259685	-3.44450838	
KSR2	-0.42117353	0.01259685	-3.44385349	
OR7G3	-0.42118122	0.01259685	-3.44392997	
HRH4	-0.42118330	0.01259685	-3.44395058	
CCL8	-0.42117185	0.01259685	-3.44383684	
TPST1	0.42120658	0.01259685	3.44418205	
LCE3D	-0.42123233	0.01259685	-3.44443800	
CLDN15	-0.42102158	0.01264580	-3.44234331	
CCT3	0.42100517	0.01264580	3.44218024	
C1QTNF1	-0.42096367	0.01265436	-3.44176776	yes
BCORL1	-0.42091867	0.01266426	-3.44132068	
ZNF394	0.42083396	0.01268935	3.44047901	
CHRM3	-0.42078611	0.01269386	-3.44000361	
ZSCAN2	-0.42078408	0.01269386	-3.43998350	
FAM181B	-0.42069997	0.01270421	-3.43914802	
HINT1	0.42073736	0.01270421	3.43951935	
RPL35A	0.42070297	0.01270421	3.43917782	
MRPL53	0.42058878	0.01271192	3.43804361	
CRX	-0.42058282	0.01271192	-3.43798449	
BANF2	-0.42062135	0.01271192	-3.43836712	

VAX2	-0.42056593	0.01271192	-3.43781675	
PSMA4	0.42058650	0.01271192	3.43802101	
YWHAB	0.42064623	0.01271192	3.43861419	
ADORA1	-0.42053542	0.01271635	-3.43751376	
SCGB3A2	-0.42045483	0.01272547	-3.43671349	
MAGEA13P	-0.42047318	0.01272547	-3.43689569	
GSX2	-0.42045932	0.01272547	-3.43675807	
CA14	-0.42033713	0.01276338	-3.43554501	
OR52R1	-0.42029780	0.01277123	-3.43515452	
RNASE10	-0.42022481	0.01277750	-3.43443003	
NDRG4	-0.42023458	0.01277750	-3.43452701	
SNORA71D	-0.42022981	0.01277750	-3.43447971	
XKR6	-0.42013385	0.01280525	-3.43352726	yes
LY6G6F	-0.42004414	0.01283258	-3.43263700	
DEPDC7	-0.41978074	0.01292728	-3.43002385	
CSH2	-0.41972789	0.01292819	-3.42949967	
HOXC13	-0.41975056	0.01292819	-3.42972450	
KIAA1383	-0.41970300	0.01292819	-3.42925286	
ANUBL1	0.41971544	0.01292819	3.42937618	
PKD1L1	-0.41960475	0.01294726	-3.42827852	
UQCC	0.41958284	0.01294726	3.42806124	
AGPAT5	0.41955988	0.01294726	3.42783353	
MAGEE1	-0.41957092	0.01294726	-3.42794304	
SNORA3	-0.41957278	0.01294726	-3.42796153	
DCP2	0.41948726	0.01296618	3.42711353	
IMPA2	0.41947369	0.01296618	3.42697903	
CSDC2	-0.41944491	0.01297008	-3.42669372	
TMEM203	0.41937836	0.01298140	3.42603400	
PGS1	0.41937872	0.01298140	3.42603751	
RUVBL2	0.41927026	0.01300082	3.42496252	
MLC1	-0.41926461	0.01300082	-3.42490651	
ZACN	-0.41923493	0.01300082	-3.42461235	
KCNK13	-0.41927966	0.01300082	-3.42505565	

PEX19	0.41923823	0.01300082	3.42464507	
GTF2B	0.41913538	0.01302509	3.42362585	
ANKRD55	-0.41914815	0.01302509	-3.42375238	
NT5M	-0.41910096	0.01303124	-3.42328474	
PSENN	0.41907608	0.01303367	3.42303818	
PDE6G	-0.41903252	0.01303611	-3.42260667	
SLC17A7	-0.41904616	0.01303611	-3.42274176	yes
AMPD3	0.41895479	0.01305829	3.42183660	yes
GTF2F2	0.41891991	0.01305829	3.42149103	
ASGR1	-0.41893109	0.01305829	-3.42160174	
PDIA2	-0.41884708	0.01307953	-3.42076966	
ADAM29	-0.41873618	0.01308761	-3.41967127	
OR5AS1	-0.41870101	0.01308761	-3.41932300	
XKR7	-0.41876015	0.01308761	-3.41990864	
ENHO	-0.41877134	0.01308761	-3.42001946	
KLK12	-0.41869635	0.01308761	-3.41927685	
NIP7	0.41871559	0.01308761	3.41946737	
SP6	-0.41869841	0.01308761	-3.41929727	
C12orf64	-0.41863238	0.01310543	-3.41864345	
CNOT6	0.41858666	0.01310882	3.41819074	yes
RYR1	-0.41859357	0.01310882	-3.41825923	
BBS5	0.41848319	0.01314221	3.41716645	
LIAS	0.41840027	0.01316757	3.41634558	yes
TMEM196	-0.41836163	0.01316820	-3.41596317	
ARF1	0.41837351	0.01316820	3.41608072	
DNM1P34	-0.41832054	0.01316982	-3.41555648	
ZNF414	-0.41833424	0.01316982	-3.41569213	
FAM55B	-0.41828378	0.01317371	-3.41519269	
PSORS1C2	-0.41819993	0.01317371	-3.41436297	
SMUG1	0.41821104	0.01317371	3.41447291	
GP9	-0.41825586	0.01317371	-3.41491643	
ITGAD	-0.41820633	0.01317371	-3.41442625	
C17orf63	-0.41821800	0.01317371	-3.41454177	

PRRG4	0.41814191	0.01318932	3.41378889	
PPFIA4	-0.41811661	0.01319204	-3.41353856	
AMDHD2	-0.41808639	0.01319670	-3.41323956	
WDR21C	-0.41799867	0.01319766	-3.41237177	
FAM59B	-0.41804483	0.01319766	-3.41282842	
MOGAT3	-0.41799205	0.01319766	-3.41230635	
CCDC88C	0.41806375	0.01319766	3.41301556	
FAM96B	0.41799279	0.01319766	3.41231367	
CHAT	-0.41786070	0.01324230	-3.41100711	
SERPINC1	-0.41783621	0.01324473	-3.41076496	
STK35	0.41767076	0.01330005	3.40912897	
GTF2E1	0.41765999	0.01330005	3.40902241	
PDZD8	0.41762306	0.01330016	3.40865733	
ANKRD58	-0.41762531	0.01330016	-3.40867956	
FGFR1OP	0.41756446	0.01330889	3.40807800	
DNAJB12	-0.41756610	0.01330889	-3.40809425	
DAB1	-0.41748084	0.01333487	-3.40725151	
IGSF21	-0.41744677	0.01334115	-3.40691468	
FBXO40	-0.41740602	0.01335009	-3.40651197	
DEFB113	-0.41736527	0.01335177	-3.40610924	
SMYD2	0.41736990	0.01335177	3.40615506	
SPEG	-0.41726877	0.01335662	-3.40515567	yes
TRIM32	0.41725248	0.01335662	3.40499473	
BCL2L13	0.41730092	0.01335662	3.40547340	
HTR1B	-0.41731224	0.01335662	-3.40558517	
LRFN1	-0.41723350	0.01335662	-3.40480722	
FKRP	-0.41722545	0.01335662	-3.40472762	
ZMAT4	-0.41727023	0.01335662	-3.40517013	
FAM43B	-0.41718413	0.01335964	-3.40431944	
LOC284067	-0.41716332	0.01335964	-3.40411376	
MAF	-0.41717116	0.01335964	-3.40419121	
LRRN4CL	-0.41712680	0.01336613	-3.40375304	
RBMS1	-0.41711067	0.01336613	-3.40359364	

ZNF837	-0.41703483	0.01336746	-3.40284457	
TBX10	-0.41703962	0.01336746	-3.40289186	
INSM1	-0.41701665	0.01336746	-3.40266496	
NCAM1	-0.41703122	0.01336746	-3.40280883	
POU3F3	-0.41707914	0.01336746	-3.40328218	
SNORD83B	-0.41683287	0.01338033	-3.40084994	
HCRTR1	-0.41684128	0.01338033	-3.40093298	
LCE2C	-0.41684209	0.01338033	-3.40094102	
PEAR1	-0.41682165	0.01338033	-3.40073918	yes
CPSF3	0.41693764	0.01338033	3.40188457	
C9orf40	-0.41682850	0.01338033	-3.40080682	
ZDHHC4	0.41683281	0.01338033	3.40084937	
SCN1B	-0.41688930	0.01338033	-3.40140719	
BCAN	-0.41692163	0.01338033	-3.40172645	
APTX	0.41677212	0.01339289	3.40025013	yes
DRP2	-0.41671354	0.01340060	-3.39967174	
FLNB	0.41669874	0.01340060	3.39952563	
RCBTB1	0.41670646	0.01340060	3.39960188	
GNRH2	-0.41662760	0.01342181	-3.39882338	
TTC5	0.41657966	0.01343378	3.39835015	
CMAS	0.41648552	0.01346426	3.39742101	
RASGEF1A	-0.41643762	0.01347031	-3.39694823	
KRTAP6-1	-0.41642531	0.01347031	-3.39682680	
NAPSA	-0.41641648	0.01347031	-3.39673963	yes
OR2S2	-0.41637640	0.01347918	-3.39634413	
RPS26P54	-0.41630173	0.01350194	-3.39560734	
NLRP8	-0.41619660	0.01353699	-3.39457018	
CEACAM19	-0.41614908	0.01354573	-3.39410138	
LOC93432	-0.41613899	0.01354573	-3.39400191	
TSPAN6	0.41606639	0.01356776	3.39328580	
GRASP	-0.41601772	0.01358016	-3.39280578	yes
EFHA1	0.41572056	0.01369326	3.38987571	
PLA2G16	0.41567063	0.01370628	3.38938357	

ARX	-0.41561495	0.01371154	-3.38883475	
ALX3	-0.41560397	0.01371154	-3.38872653	
GPR144	-0.41561214	0.01371154	-3.38880699	
RNF114	0.41557643	0.01371406	3.38845510	
WNT7A	-0.41556202	0.01371406	-3.38831301	
PCP2	-0.41548928	0.01371552	-3.38759616	yes
SIRPD	-0.41551629	0.01371552	-3.38786238	
SALL3	-0.41549401	0.01371552	-3.38764279	
FLJ40606	-0.41548698	0.01371552	-3.38757355	
HAS1	-0.41537547	0.01375368	-3.38647472	yes
PKD1L2	-0.41530825	0.01377383	-3.38581248	
GRM8	-0.41524972	0.01377590	-3.38523585	
CITED1	-0.41527404	0.01377590	-3.38547548	
BARHL1	-0.41525959	0.01377590	-3.38533314	
KLRG2	-0.41520038	0.01378878	-3.38474987	
OR8S1	-0.41515362	0.01380062	-3.38428929	
SGK493	-0.41513488	0.01380101	-3.38410470	yes
WRB	0.41511268	0.01380282	3.38388600	
EIF4E1B	-0.41508519	0.01380679	-3.38361533	
ADAMTS16	-0.41498135	0.01381544	-3.38259273	
AOF1	0.41503660	0.01381544	3.38313682	
FNDC5	-0.41495756	0.01381544	-3.38235843	
PKN3	-0.41502128	0.01381544	-3.38298591	yes
ZC3H12B	-0.41496933	0.01381544	-3.38247434	
ATP4B	-0.41500705	0.01381544	-3.38284584	
ST6GALNAC5	-0.41493375	0.01381793	-3.38212405	
EIF4EBP3	-0.41490617	0.01382198	-3.38185243	
DIRC1	-0.41487277	0.01382840	-3.38152359	
COMMD8	0.41485124	0.01382997	3.38131169	
CCT8	0.41478539	0.01383618	3.38066340	
TMEM132D	-0.41475987	0.01383618	-3.38041222	
C12orf61	-0.41470941	0.01383618	-3.37991549	
RILPL1	-0.41465957	0.01383618	-3.37942494	

KRTAP10-4	-0.41473899	0.01383618	-3.38020670	
C20orf199	0.41478859	0.01383618	3.38069493	
PPY	-0.41476197	0.01383618	-3.38043289	
SFRP5	-0.41467642	0.01383618	-3.37959081	
C16orf59	-0.41469367	0.01383618	-3.37976054	
POLR1B	0.41470956	0.01383618	3.37991701	
INPP5J	-0.41463807	0.01383777	-3.37921338	
COX6A1	0.41453630	0.01386626	3.37821179	
N6AMT2	0.41453336	0.01386626	3.37818284	
KCNV2	-0.41442572	0.01389533	-3.37712376	
ANKRD5	0.41443617	0.01389533	3.37722655	
OLFM2	-0.41440982	0.01389533	-3.37696733	
FAM101B	-0.41435311	0.01391142	-3.37640943	yes
JHDM1D	0.41433438	0.01391190	3.37622516	yes
MFRP	-0.41424996	0.01393943	-3.37539470	
DCTN3	0.41420589	0.01395036	3.37496132	
SMC1B	-0.41417000	0.01395792	-3.37460830	
KCNN1	-0.41414272	0.01396195	-3.37434000	
ZBTB46	-0.41412372	0.01396256	-3.37415310	
RFT1	0.41408473	0.01397142	3.37376969	
FAM166A	-0.41405245	0.01397751	-3.37345231	
PRDX3	0.41384560	0.01405139	3.37141860	
TCP11L2	0.41380393	0.01405139	3.37100895	
PRELID1	0.41381598	0.01405139	3.37112741	
VTN	-0.41381923	0.01405139	-3.37115938	
LOC284297	-0.41378592	0.01405161	-3.37083199	
UBE2E3	-0.41368182	0.01406627	-3.36980879	
C19orf45	-0.41368074	0.01406627	-3.36979822	
CNDP2	0.41371765	0.01406627	3.37016092	
C1orf124	0.41369244	0.01406627	3.36991322	
FLJ44881	-0.41361846	0.01407765	-3.36918618	
FLJ40292	-0.41362923	0.01407765	-3.36929204	
UNQ6126	-0.41355675	0.01408404	-3.36857975	

CXorf56	0.41355083	0.01408404	3.36852158	
SEL1L2	-0.41357623	0.01408404	-3.36877119	
SUMF2	0.41341771	0.01413217	3.36721375	
LOC389151	-0.41334956	0.01414607	-3.36654426	
MSLNL	-0.41335451	0.01414607	-3.36659287	
NEURL3	-0.41331314	0.01415401	-3.36618653	
MESP1	-0.41326283	0.01416775	-3.36569244	
HSPA8	0.41322982	0.01417428	3.36536822	
ITGB3BP	0.41313401	0.01418743	3.36442725	
FRRS1	0.41315712	0.01418743	3.36465423	
NECAB1	-0.41313857	0.01418743	-3.36447211	
SPOCD1	-0.41312891	0.01418743	-3.36437725	
SNTG1	-0.41302133	0.01421793	-3.36332094	
VGF	-0.41303381	0.01421793	-3.36344345	
IQCA1L	-0.41296875	0.01422544	-3.36280473	
TEX15	-0.41297170	0.01422544	-3.36283364	
MARS2	0.41294813	0.01422683	3.36260231	
C1orf216	-0.41279276	0.01422916	-3.36107721	
KLF14	-0.41274614	0.01422916	-3.36061968	
ZNF746	-0.41278029	0.01422916	-3.36095478	
FGF1	-0.41276829	0.01422916	-3.36083703	
ALOX15	0.41277072	0.01422916	3.36086082	
CALHM1	-0.41276150	0.01422916	-3.36077033	
IGLON5	-0.41282689	0.01422916	-3.36141214	
TAL1	-0.41283941	0.01422916	-3.36153507	yes
GDAP1L1	-0.41279823	0.01422916	-3.36113082	
ARL14	-0.41276835	0.01422916	-3.36083765	
OR1E1	-0.41290538	0.01422916	-3.36218264	
CD164	0.41273548	0.01422916	3.36051498	
C3orf27	-0.41264129	0.01425420	-3.35959072	
IL17RD	-0.41264632	0.01425420	-3.35964008	
TCEB1P3	-0.41261572	0.01425771	-3.35933986	
AHCYL2	0.41259668	0.01425848	3.35915300	

ZC4H2	-0.41253832	0.01427416	-3.35858038	
SCN2B	-0.41252495	0.01427416	-3.35844922	
HES4	-0.41245118	0.01428352	-3.35772557	
MAPK12	-0.41245685	0.01428352	-3.35778119	
BMP3	0.41247350	0.01428352	3.35794446	
SDF2	0.41234081	0.01432204	3.35664291	
BPIL1	-0.41232526	0.01432204	-3.35649036	
SP7	-0.41227171	0.01433015	-3.35596520	
DSTYK	0.41228589	0.01433015	3.35610427	
SLC17A2	-0.41220643	0.01434602	-3.35532508	
HOXD8	-0.41219981	0.01434602	-3.35526014	
SC65	-0.41215796	0.01435219	-3.35484972	
AMIGO3	-0.41215095	0.01435219	-3.35478101	
PPP4R1	0.41209236	0.01436969	3.35420659	yes
SNORD33	-0.41197180	0.01438196	-3.35302465	
HOXA4	-0.41197658	0.01438196	-3.35307146	
RPS18P12	-0.41199225	0.01438196	-3.35322507	
hCG_1645727	-0.41199528	0.01438196	-3.35325479	
XCL1	-0.41196088	0.01438196	-3.35291764	
C10orf11	-0.41200597	0.01438196	-3.35335964	
TRIM65	-0.41189116	0.01440422	-3.35223416	
GCM2	-0.41186773	0.01440692	-3.35200453	
KCTD19	-0.41184572	0.01440902	-3.35178884	
ZP2	-0.41182830	0.01440919	-3.35161809	
PYGM	-0.41176547	0.01442857	-3.35100237	
NHLRC3	0.41168195	0.01445674	3.35018394	
NR2E3	-0.41158901	0.01447453	-3.34927330	
CRYBA2	-0.41159426	0.01447453	-3.34932480	
RBKS	0.41161476	0.01447453	3.34952564	
LOC100130264	-0.41140431	0.01454585	-3.34746406	
GUCA2B	-0.41134385	0.01456439	-3.34687190	
DLX1	-0.41129124	0.01456752	-3.34635674	
OR1L3	-0.41129359	0.01456752	-3.34637971	

PRAMEF11	-0.41128559	0.01456752	-3.34630133	
TGM7	-0.41102360	0.01457971	-3.34373627	
AP1S3	0.41108431	0.01457971	3.34433056	
TTC36	-0.41105982	0.01457971	-3.34409089	
PAP2D	-0.41112600	0.01457971	-3.34473872	
AGRP	-0.41122878	0.01457971	-3.34574511	
CRCP	0.41117315	0.01457971	3.34520038	
LOC29034	-0.41113057	0.01457971	-3.34478352	
KCNK18	-0.41119965	0.01457971	-3.34545983	
SLC6A18	-0.41118206	0.01457971	-3.34528766	
CRLF3	0.41103470	0.01457971	3.34384497	
DIRAS2	-0.41102411	0.01457971	-3.34374127	
TNNI1	-0.41113433	0.01457971	-3.34482030	
SLC43A1	-0.41108669	0.01457971	-3.34435388	
ARNT2	-0.41102030	0.01457971	-3.34370394	
KIR3DL2	-0.41099035	0.01458529	-3.34341085	
DUSP10	0.41088812	0.01462177	3.34241024	
IDH3A	0.41080005	0.01463785	3.34154832	yes
RPL37P23	-0.41082665	0.01463785	-3.34180861	
DOK3	-0.41080257	0.01463785	-3.34157302	
LOC84856	-0.41076347	0.01464630	-3.34119042	
PRMT2	0.41073028	0.01465332	3.34086567	
C1orf95	-0.41068139	0.01466707	-3.34038726	
NGB	-0.41066386	0.01466738	-3.34021581	
TUSC5	-0.41054675	0.01470323	-3.33907007	
LOC731797	-0.41055272	0.01470323	-3.33912849	
ATP8B3	-0.41050177	0.01471136	-3.33863013	
PIWIL1	-0.41049426	0.01471136	-3.33855671	
CRHR2	-0.41045823	0.01471964	-3.33820428	
TRIM46	-0.41039959	0.01473765	-3.33763076	
SLFNL1	-0.41032341	0.01475605	-3.33688574	
FAM82B	0.41032336	0.01475605	3.33688524	
ABCC12	-0.41024876	0.01478099	-3.33615584	

KAAG1	-0.41022621	0.01478350	-3.33593538	
SERPINA10	-0.41019739	0.01478871	-3.33565359	
NDST4	-0.41011362	0.01481045	-3.33483463	
RCSD1	-0.41012718	0.01481045	-3.33496712	
SHANK1	-0.41000540	0.01485004	-3.33377672	
CHRD	-0.40993338	0.01487402	-3.33307285	yes
VPS33A	0.40989471	0.01488355	3.33269493	
LRRC3	-0.40985154	0.01489504	-3.33227308	
LHX2	-0.40978785	0.01491546	-3.33165078	
SAMD14	-0.40975045	0.01492266	-3.33128536	
IRX4	-0.40973790	0.01492266	-3.33116270	
AHCYL1	0.40971581	0.01492502	3.33094685	
LOC389458	-0.40967862	0.01493394	-3.33058353	
SYT10	-0.40961739	0.01495335	-3.32998536	
COQ7	0.40959978	0.01495376	3.32981339	
RNU12	-0.40951730	0.01498247	-3.32900769	
WASF3	-0.40944836	0.01499076	-3.32833443	
C8orf40	0.40945867	0.01499076	3.32843511	
ZSCAN16	0.40947953	0.01499076	3.32863886	
C20orf11	0.40929003	0.01505274	3.32678832	
LOC100130130	-0.40910804	0.01505975	-3.32501166	
C21orf86	-0.40915177	0.01505975	-3.32543849	
TESSP1	-0.40912587	0.01505975	-3.32518574	
LOC387745	-0.40921321	0.01505975	-3.32603829	
C5orf40	-0.40913492	0.01505975	-3.32527408	
POMC	-0.40910805	0.01505975	-3.32501175	
SPIB	-0.40911538	0.01505975	-3.32508327	
TFF2	-0.40913048	0.01505975	-3.32523069	
CMAH	0.40921276	0.01505975	3.32603393	
RAB2B	0.40919469	0.01505975	3.32585749	yes
CTSC	0.40906033	0.01507196	3.32454592	
USH2A	-0.40904707	0.01507196	-3.32441652	
RUSC1	-0.40896606	0.01510024	-3.32362594	

CDH16	-0.40892261	0.01511206	-3.32320191	
SS18	0.40890552	0.01511230	3.32303516	yes
DKFZp779M0652	-0.40875207	0.01517257	-3.32153792	
GPR22	-0.40865686	0.01519383	-3.32060909	
PLEKHG7	0.40865431	0.01519383	3.32058417	
UBC	0.40867230	0.01519383	3.32075967	
OR4D1	-0.40861738	0.01520284	-3.32022393	
ATP6AP2	0.40849382	0.01523776	3.31901882	
ICAM5	-0.40851965	0.01523776	-3.31927079	
PLBD1	0.40848889	0.01523776	3.31897075	
MYRIP	-0.40841904	0.01526139	-3.31828965	
C21orf93	-0.40838604	0.01526871	-3.31796778	
C1orf183	-0.40828145	0.01530049	-3.31694804	
RP2	0.40828808	0.01530049	3.31701266	yes
ZNF487	0.40823386	0.01531432	3.31648409	
GTF2A2	0.40821316	0.01531620	3.31628231	
SLITRK1	-0.40818170	0.01532287	-3.31597564	
WFIKKN2	-0.40810243	0.01534493	-3.31520294	
N-PAC	0.40809920	0.01534493	3.31517148	
SEMA3A	0.40806588	0.01535245	3.31484670	yes
TTLL8	-0.40802506	0.01536243	-3.31444894	
KRTAP23-1	-0.40799419	0.01536243	-3.31414808	
PPCS	0.40800526	0.01536243	3.31425597	
FOXO3	-0.40793733	0.01538046	-3.31359400	
PLIN	-0.40785448	0.01540938	-3.31278674	
SMARCC2	-0.40783970	0.01540938	-3.31264269	
KATNA1	0.40776535	0.01543084	3.31191836	yes
ARD1B	-0.40775889	0.01543084	-3.31185543	
ATF1	0.40771817	0.01544172	3.31145877	
QRFPR	-0.40767408	0.01545412	-3.31102930	
ACTL6B	-0.40765299	0.01545624	-3.31082385	
TUBGCP2	0.40755948	0.01547697	3.30991307	
OFCC1	-0.40758616	0.01547697	-3.31017296	

DUSP27	-0.40755762	0.01547697	-3.30989494	
WNK2	-0.40753341	0.01548050	-3.30965914	
CCT5	0.40749023	0.01549253	3.30923869	
PATE1	-0.40746162	0.01549803	-3.30896011	
CCL1	-0.40743525	0.01550254	-3.30870334	
RHBDD2	0.40738166	0.01551927	3.30818155	
LOC407835	-0.40734942	0.01552388	-3.30786764	
hCG_1757335	0.40733877	0.01552388	3.30776393	
PEX13	0.40732081	0.01552462	3.30758907	yes
KIAA1804	-0.40730414	0.01552479	-3.30742674	
HBCBP	-0.40723362	0.01552722	-3.30674025	
APOC3	-0.40725120	0.01552722	-3.30691144	
ACSM5	-0.40728015	0.01552722	-3.30719324	
TEAD2	-0.40723605	0.01552722	-3.30676392	
CSN1S1	-0.40718296	0.01552806	-3.30624718	
FGF3	-0.40719091	0.01552806	-3.30632455	
MYBPH	-0.40719687	0.01552806	-3.30638253	
GLOD4	0.40716329	0.01552960	3.30605573	
NXT1	-0.40712121	0.01554038	-3.30564610	
STK16	0.40710683	0.01554038	3.30550618	
TRIM9	-0.40705208	0.01554337	-3.30497340	
ZBTB12	-0.40705153	0.01554337	-3.30496796	
MORC1	-0.40706970	0.01554337	-3.30514487	
MAGED2	0.40701182	0.01554750	3.30458154	
LOC643997	-0.40700992	0.01554750	-3.30456312	
GABRA5	-0.40689022	0.01556495	-3.30339836	
GUCY2D	-0.40691652	0.01556495	-3.30365424	
EGLN1	-0.40693083	0.01556495	-3.30379351	
NR2F2	-0.40689841	0.01556495	-3.30347808	
SETD1A	-0.40692109	0.01556495	-3.30369872	
ANO3	-0.40682707	0.01558610	-3.30278398	
NXPH4	-0.40667909	0.01563579	-3.30134450	
GZMM	-0.40657883	0.01563579	-3.30036937	

KRT34	-0.40658115	0.01563579	-3.30039200	
PDE3A	-0.40665922	0.01563579	-3.30115120	
PEX12	0.40657168	0.01563579	3.30029987	
PSG9	-0.40659180	0.01563579	-3.30049554	
SPTB	-0.40665981	0.01563579	-3.30115701	yes
TNR	-0.40657698	0.01563579	-3.30035141	
CACNA1G	-0.40658699	0.01563579	-3.30044879	
FLJ38379	-0.40644996	0.01568353	-3.29911624	
SLC27A6	-0.40641134	0.01568645	-3.29874071	
ATG5	0.40641446	0.01568645	3.29877106	
DEFA4	-0.40635748	0.01570309	-3.29821713	
C9orf100	-0.40631027	0.01570309	-3.29775819	
ASB16	-0.40632259	0.01570309	-3.29787792	
CP110	0.40634182	0.01570309	3.29806488	
STARD7	0.40628458	0.01570746	3.29750840	
ZNF205	-0.40624769	0.01571508	-3.29714985	
ZNHIT3	0.40623564	0.01571508	3.29703273	
OR1K1	-0.40621559	0.01571690	-3.29683783	
ZFP92	-0.40616724	0.01573155	-3.29636789	
SLC27A2	0.40611486	0.01574805	3.29585883	
ESPNL	-0.40607596	0.01575844	-3.29548077	
PCDHA3	-0.40598557	0.01579225	-3.29460238	
ALX4	-0.40595522	0.01579877	-3.29430754	
C10orf104	0.40593841	0.01579914	3.29414419	
XKR5	-0.40588322	0.01580745	-3.29360804	
C17orf102	-0.40590221	0.01580745	-3.29379249	
NT5C1A	-0.40587215	0.01580745	-3.29350048	
CHCHD2	0.40584174	0.01581403	3.29320498	
PURB	0.40581887	0.01581716	3.29298285	
TMEM95	-0.40577875	0.01582684	-3.29259310	
AVPR1B	-0.40576570	0.01582684	-3.29246637	
FCAR	-0.40574119	0.01582701	-3.29222832	
LECT2	-0.40573341	0.01582701	-3.29215272	

VPS37D	-0.40569576	0.01583167	-3.29178700	
SLC2A4	-0.40569128	0.01583167	-3.29174355	
COL4A2	-0.40563511	0.01585002	-3.29119798	yes
OR52K1	-0.40560518	0.01585641	-3.29090731	
ULBP1	-0.40553383	0.01588172	-3.29021450	
DUSP18	0.40538799	0.01592426	3.28879846	
TTC39B	0.40540052	0.01592426	3.28892016	yes
C15orf52	-0.40537720	0.01592426	-3.28869377	
SNORD68	-0.40540471	0.01592426	-3.28896080	
DNAJC14	0.40532393	0.01594139	3.28817659	
ZNF24	0.40524447	0.01597056	3.28740530	
CKM	-0.40511121	0.01598483	-3.28611200	
TMCO2	-0.40505475	0.01598483	-3.28556414	
FAM175B	0.40518939	0.01598483	3.28687077	
TGM6	-0.40506013	0.01598483	-3.28561637	
KCNJ14	-0.40512901	0.01598483	-3.28628477	
ELFN1	-0.40511386	0.01598483	-3.28613771	
PSMC4	0.40507405	0.01598483	3.28575139	
SCN5A	-0.40514413	0.01598483	-3.28643151	
FN3K	-0.40506140	0.01598483	-3.28562867	
LOC728115	0.40508918	0.01598483	3.28589823	
HOXC11	-0.40492584	0.01603685	-3.28431338	
LHFPL4	-0.40487788	0.01604586	-3.28384808	
KREMEN2	-0.40487464	0.01604586	-3.28381666	
NDUFS2	0.40470578	0.01610920	3.28217882	
GSG1	-0.40470707	0.01610920	-3.28219130	
SLURP1	-0.40465629	0.01612479	-3.28169880	
LPAR3	0.40462856	0.01613031	3.28142990	
SLC22A8	-0.40458671	0.01614237	-3.28102411	
SRCRB4D	-0.40451639	0.01615300	-3.28034226	
AMOTL1	-0.40453246	0.01615300	-3.28049809	
AMAC1L3	-0.40452776	0.01615300	-3.28045248	
TXNL4B	0.40448049	0.01615502	3.27999415	

FZD9	-0.40449354	0.01615502	-3.28012070	
PHACTR1	-0.40446433	0.01615521	-3.27983744	
C4orf34	0.40443428	0.01616183	3.27954611	
KCTD8	-0.40438439	0.01617036	-3.27906248	
SPRR2G	-0.40438479	0.01617036	-3.27906637	
LOC388199	-0.40435538	0.01617651	-3.27878128	
PSMD2	0.40433102	0.01618051	3.27854520	
VASN	-0.40428413	0.01619498	-3.27809061	yes
PHTF1	0.40424833	0.01620430	3.27774370	
ASCC1	0.40422184	0.01620931	3.27748690	yes
DMBT1	-0.40417268	0.01622485	-3.27701051	
LOC390282	-0.40412403	0.01622557	-3.27653904	
NEUROG1	-0.40412557	0.01622557	-3.27655399	
ACTR6	0.40414471	0.01622557	3.27673948	
CECR2	-0.40409675	0.01623096	-3.27627473	
F13B	-0.40398006	0.01627800	-3.27514406	
TPPP2	-0.40395926	0.01628038	-3.27494253	
NCRNA00087	-0.40391501	0.01628640	-3.27451391	
TRHR	-0.40392440	0.01628640	-3.27460488	
COL5A1	-0.40386270	0.01630350	-3.27400714	yes
RAB42P	-0.40377177	0.01632626	-3.27312640	
PLA2G12A	-0.40376701	0.01632626	-3.27308029	
SYT7	-0.40377249	0.01632626	-3.27313333	
KRTAP19-6	-0.40371687	0.01634238	-3.27259472	
PRSS23	0.40365765	0.01636278	3.27202116	
UBE2U	-0.40355438	0.01637745	-3.27102118	
MED31	0.40354822	0.01637745	3.27096160	
TPTE	-0.40356118	0.01637745	-3.27108705	
GTPBP3	-0.40355583	0.01637745	-3.27103528	
SLAMF9	-0.40356584	0.01637745	-3.27113218	
SF3A2	-0.40352453	0.01638124	-3.27073220	
SLC2A4RG	-0.40346375	0.01640242	-3.27014376	
PAIP1	-0.40339145	0.01642533	-3.26944389	

LHX9	-0.40337202	0.01642533	-3.26925580
TFAP2B	-0.40336816	0.01642533	-3.26921838
C12orf53	-0.40334157	0.01643050	-3.26896105
TSPAN3	0.40326685	0.01643251	3.26823783
MANEAL	-0.40325951	0.01643251	-3.26816676
OR4C12	-0.40330355	0.01643251	-3.26859305
GPR26	-0.40328480	0.01643251	-3.26841157
ONECUT2	-0.40328290	0.01643251	-3.26839312
WDR86	-0.40323408	0.01643336	-3.26792070
TMEM66	0.40322661	0.01643336	3.26784834
PSMD10	0.40318779	0.01643701	3.26747272
AADACL1	0.40320043	0.01643701	3.26759500
FLJ36031	-0.40316293	0.01644140	-3.26723210
PROCR	-0.40309802	0.01644589	-3.26660399
LYPD6B	0.40306040	0.01644589	3.26624001
SYNM	-0.40308467	0.01644589	-3.26647488
VENTX	-0.40311080	0.01644589	-3.26672765
FAM148B	-0.40309215	0.01644589	-3.26654728
DUOX1	0.40306570	0.01644589	3.26629128
CCDC38	-0.40299609	0.01646695	-3.26561784
SPINK1	-0.40298463	0.01646695	-3.26550698
OR2B6	-0.40293103	0.01648489	-3.26498844
TGM4	-0.40287298	0.01650495	-3.26442690
ATF7	-0.40266387	0.01650902	-3.26240455
OR11H6	-0.40268675	0.01650902	-3.26262578
PLAC1L	-0.40267543	0.01650902	-3.26251634
MAPK8IP2	-0.40275461	0.01650902	-3.26328200
GALC	0.40281885	0.01650902	3.26390333
SLC35D3	-0.40274120	0.01650902	-3.26315235
NDUFA9	0.40267166	0.01650902	3.26247986
SPG21	0.40270789	0.01650902	3.26283017
FLJ11151	0.40281916	0.01650902	3.26390635
TRAPPC2	0.40267190	0.01650902	3.26248222

S100A7L2	-0.40270671	0.01650902	-3.26281880	
LOC728318	-0.40271126	0.01650902	-3.26286280	
MKRN3	-0.40269203	0.01650902	-3.26267682	
HIST1H2BD	0.40259071	0.01653625	3.26169710	
SIRT4	-0.40243189	0.01658565	-3.26016166	
PMS2CL	0.40242462	0.01658565	3.26009137	
SERPINA5	-0.40246393	0.01658565	-3.26047144	
MGC16121	-0.40243853	0.01658565	-3.26022588	
SNORD115-25	-0.40240925	0.01658565	-3.25994287	
METTL6	0.40238021	0.01659213	3.25966215	
PP2672	-0.40234402	0.01659473	-3.25931231	
ATP6V1D	0.40234690	0.01659473	3.25934014	
OR8J1	-0.40231591	0.01659659	-3.25904061	
AK2P2	-0.40230943	0.01659659	-3.25897796	
CASP6	0.40224540	0.01661964	3.25835920	
PRRT1	-0.40221099	0.01662868	-3.25802669	
ZNF749	0.40218611	0.01663322	3.25778624	
IL11	-0.40208586	0.01667125	-3.25681753	
BACH2	-0.40207532	0.01667125	-3.25671568	
C16orf82	-0.40204949	0.01667625	-3.25646610	
USP35	-0.40190173	0.01673925	-3.25503872	
GPR78	-0.40187620	0.01674412	-3.25479216	
CHODL	-0.40181756	0.01675750	-3.25422577	
HOXC5	-0.40181954	0.01675750	-3.25424486	
KRTDAP	-0.40179592	0.01676054	-3.25401676	
SIGLEC7	-0.40175424	0.01677313	-3.25361426	
C13orf39	-0.40172306	0.01677756	-3.25331309	
FAM19A5	-0.40168823	0.01677756	-3.25297676	
LOC285943	-0.40166987	0.01677756	-3.25279951	
SHOX2	-0.40166870	0.01677756	-3.25278817	
GAL3ST3	-0.40170894	0.01677756	-3.25317677	
C11orf20	-0.40160571	0.01678581	-3.25217996	yes
QRSL1	0.40161731	0.01678581	3.25229203	yes

ZIC1	-0.40161505	0.01678581	-3.25227022	
UNC5D	-0.40157383	0.01679376	-3.25187224	
FOXD3	-0.40152438	0.01681011	-3.25139483	
HS3ST1	0.40149608	0.01681637	3.25112158	
CBLN3	-0.40146659	0.01682304	-3.25083694	
SNORA31	-0.40145172	0.01682304	-3.25069335	
SNAI3	-0.40140997	0.01682905	-3.25029040	
APPL2	0.40140876	0.01682905	3.25027866	
FBXL10	0.40138649	0.01683244	3.25006367	
LCT	-0.40135121	0.01684206	-3.24972320	
LTF	-0.40133544	0.01684234	-3.24957097	
RASIP1	-0.40130072	0.01685170	-3.24923590	yes
GALNTL2	-0.40118128	0.01688370	-3.24808331	
GTF3C2	0.40117944	0.01688370	3.24806554	
C2orf86	0.40121728	0.01688370	3.24843067	yes
NUP62CL	0.40116356	0.01688370	3.24791226	
SCTR	-0.40115816	0.01688370	-3.24786021	
OR14I1	-0.40114201	0.01688419	-3.24770436	
CDX2	-0.40111461	0.01689007	-3.24744000	
SH2D4B	-0.40109769	0.01689092	-3.24727676	
DNLZ	-0.40108258	0.01689092	-3.24713097	
SLCO1B1	-0.40103783	0.01689237	-3.24669927	
ACN9	0.40104238	0.01689237	3.24674313	
WNT3	-0.40103424	0.01689237	-3.24666464	
FSTL3	-0.40096441	0.01691138	-3.24599099	yes
MC2R	-0.40097171	0.01691138	-3.24606143	
ZNF564	0.40091256	0.01692904	3.24549077	
CASP4	0.40075484	0.01699767	3.24396969	
GNB2L1	0.40071467	0.01700250	3.24358234	
RP13-102H20.1	-0.40072619	0.01700250	-3.24369345	
NCOA2	0.40066349	0.01700538	3.24308878	
ARL6IP6	0.40068764	0.01700538	3.24332166	
RP11-265F14.2	-0.40066472	0.01700538	-3.24310063	

CALR3	-0.40059100	0.01703309	-3.24238987	
HNRNPK	0.40055774	0.01704188	3.24206923	
OTOS	-0.40053793	0.01704226	-3.24187828	
C2orf85	-0.40052686	0.01704226	-3.24177154	
hCG_1776018	-0.40050967	0.01704330	-3.24160584	
NME2	-0.40048585	0.01704755	-3.24137621	
NCR2	-0.40045261	0.01705635	-3.24105576	
PGRMC1	0.40041039	0.01706577	3.24064885	
LRRC55	-0.40038865	0.01706577	-3.24043928	
DEFB128	-0.40038808	0.01706577	-3.24043381	
NTRK1	-0.40033894	0.01708228	-3.23996013	
NOS3	-0.40019117	0.01714662	-3.23853618	
LOC100129196	-0.40010744	0.01717201	-3.23772939	
IL22RA2	-0.40004447	0.01717201	-3.23712277	
XIRP2	-0.40008925	0.01717201	-3.23755415	
TMEFF2	-0.40011048	0.01717201	-3.23775875	
CCDC28A	0.40005739	0.01717201	3.23724726	
OR56A3	-0.40003400	0.01717201	-3.23702194	
CEP97	0.40003983	0.01717201	3.23707805	
GRB2	0.40001621	0.01717338	3.23685054	
GABRA2	-0.39999793	0.01717500	-3.23667442	
CHD5	-0.39994053	0.01718837	-3.23612148	
HEATR2	0.39994923	0.01718837	3.23620530	
YJEFN3	-0.39988996	0.01719869	-3.23563449	
LSG1	0.39988942	0.01719869	3.23562928	
LOR	-0.39986744	0.01719899	-3.23541751	
TXNDC12	0.39985894	0.01719899	3.23533572	
RTN2	-0.39984088	0.01720052	-3.23516178	
FAM176B	-0.39982115	0.01720286	-3.23497171	
LOC145757	-0.39974026	0.01722768	-3.23419274	
CCDC155	-0.39975040	0.01722768	-3.23429039	
C1orf25	0.39972544	0.01722768	3.23405010	yes
C19orf36	-0.39969137	0.01722977	-3.23372197	

SOHLH2	-0.39969245	0.01722977	-3.23373236	
RDH8	-0.39965604	0.01723973	-3.23338183	
CLUL1	-0.39963724	0.01724164	-3.23320083	
SLC34A1	-0.39958597	0.01725938	-3.23270719	
ACER1	-0.39955918	0.01726519	-3.23244933	
ATR	0.39953851	0.01726803	3.23225028	
RTL1	-0.39952123	0.01726921	-3.23208395	
C6orf126	-0.39950083	0.01727191	-3.23188759	
NLRP4	-0.39947152	0.01727897	-3.23160543	
C2orf42	0.39944068	0.01728287	3.23130858	
NEK4	0.39941997	0.01728287	3.23110921	yes
SYDE1	-0.39941902	0.01728287	-3.23110011	yes
GHITM	0.39935492	0.01730693	3.23048313	
C6orf221	-0.39932162	0.01731115	-3.23016268	
PODXL2	-0.39931665	0.01731115	-3.23011484	
CYB5A	0.39922361	0.01734144	3.22921955	
FLJ41423	-0.39921029	0.01734144	-3.22909133	
RPL18	0.39921110	0.01734144	3.22909916	
ADAM3A	-0.39909749	0.01737495	-3.22800607	
EID2	-0.39912290	0.01737495	-3.22825056	
DNAJB8	-0.39910217	0.01737495	-3.22805105	
LOC100133423	-0.39903619	0.01739777	-3.22741634	
HHIPL1	-0.39901618	0.01740034	-3.22722385	
C3orf30	-0.39894767	0.01741244	-3.22656488	
UTP18	0.39896422	0.01741244	3.22672405	
PAPPA2	-0.39893243	0.01741244	-3.22641829	
JMJD2A	0.39893717	0.01741244	3.22646390	
UEVLD	0.39890181	0.01742023	3.22612379	
RLBP1L2	-0.39887447	0.01742642	-3.22586078	
ARMCX6	-0.39882273	0.01744461	-3.22536321	
TMEM9B	0.39879812	0.01744946	3.22512655	
PKHD1	-0.39872427	0.01747856	-3.22441638	
TATDN1	0.39867759	0.01749430	3.22396756	

PNPLA3	-0.39853388	0.01755799	-3.22258592	
SH2D5	-0.39845491	0.01758978	-3.22182685	
STK36	0.39836130	0.01762158	3.22092721	
VRK3	0.39836484	0.01762158	3.22096122	
CASP9	0.39832820	0.01763070	3.22060906	
TRNP1	-0.39825919	0.01765767	-3.21994590	
NEUROD4	-0.39823332	0.01766321	-3.21969737	
MIA2	-0.39807068	0.01767471	-3.21813476	
DDX5	0.39809602	0.01767471	3.21837816	
C1orf111	-0.39811940	0.01767471	-3.21860278	
KCNIP1	-0.39812341	0.01767471	-3.21864126	
HOXA9	-0.39806332	0.01767471	-3.21806400	
HSPA4	0.39811096	0.01767471	3.21852166	
CEACAM16	-0.39812418	0.01767471	-3.21864868	
OR11L1	-0.39808876	0.01767471	-3.21830839	
POLR2H	0.39808693	0.01767471	3.21829087	yes
LOC728675	-0.39806503	0.01767471	-3.21808049	
DHX30	0.39803567	0.01768117	3.21779841	
PDCL2	-0.39794400	0.01768606	-3.21691784	
DCX	-0.39796822	0.01768606	-3.21715048	
F7	-0.39791151	0.01768606	-3.21660582	
DYNC1LI1	0.39800905	0.01768606	3.21754274	
ANKMY2	0.39796409	0.01768606	3.21711087	
SLC4A3	-0.39790877	0.01768606	-3.21657946	
MEGF11	-0.39792247	0.01768606	-3.21671104	
LPGAT1	0.39793770	0.01768606	3.21685740	
GPR45	-0.39786008	0.01768860	-3.21611187	
OR2B3	-0.39785986	0.01768860	-3.21610973	
RGS6	-0.39786842	0.01768860	-3.21619198	
CCNJL	-0.39783621	0.01769310	-3.21588268	
WDR27	0.39780736	0.01769630	3.21560555	
KBTBD7	0.39780060	0.01769630	3.21554064	
SLC2A6	-0.39774983	0.01771431	-3.21505313	yes

MS4A8B	0.39772814	0.01771785	3.21484490	
PPP1R1A	-0.39768362	0.01773276	-3.21441746	
GFPT2	-0.39765292	0.01774080	-3.21412269	
C13orf16	-0.39758815	0.01775414	-3.21350087	
OR5B17	-0.39755340	0.01775414	-3.21316729	
TDRD7	0.39757726	0.01775414	3.21339632	yes
KLHDC8A	-0.39755555	0.01775414	-3.21318794	
TEX101	-0.39756312	0.01775414	-3.21326057	
C2orf48	-0.39752308	0.01776202	-3.21287618	
NOBOX	-0.39747635	0.01777061	-3.21242768	
ZBED3	-0.39746228	0.01777061	-3.21229258	
LRBA	0.39746849	0.01777061	3.21235224	yes
FOXG1	-0.39739404	0.01779296	-3.21163765	
C12orf74	0.39738214	0.01779296	3.21152340	
CDH24	-0.39737396	0.01779296	-3.21144497	
PELI3	-0.39732883	0.01780826	-3.21101182	
FEM1C	0.39722605	0.01785244	3.21002554	
SNORA5B	-0.39719308	0.01786169	-3.20970927	
AGXT2	-0.39713526	0.01788341	-3.20915449	
PRND	-0.39710493	0.01789136	-3.20886349	
SLC25A36	0.39708586	0.01789366	3.20868052	
MEP1B	-0.39704192	0.01790845	-3.20825905	yes
LOC100129476	-0.39693702	0.01795390	-3.20725284	
ARHGEF15	-0.39689180	0.01796713	-3.20681921	yes
IFT88	0.39688179	0.01796713	3.20672321	
SEC14L1	0.39681318	0.01798267	3.20606517	
FZD7	-0.39682131	0.01798267	-3.20614315	
AP1S2	-0.39680757	0.01798267	-3.20601142	
LOC644538	-0.39677757	0.01799050	-3.20572371	
SULT2A1	-0.39675758	0.01799330	-3.20553207	
ANKS1B	-0.39673410	0.01799785	-3.20530693	
C6orf57	0.39664417	0.01801923	3.20444470	
NCRNA00114	-0.39663400	0.01801923	-3.20434717	

C8orf58	-0.39665689	0.01801923	-3.20456662	
RPL11	0.39667253	0.01801923	3.20471656	
HNF1A	-0.39657234	0.01804309	-3.20375601	
TCEAL5	-0.39655344	0.01804535	-3.20357485	
C6orf130	0.39652278	0.01805356	3.20328095	
SNORD116-11	-0.39641213	0.01809768	-3.20222040	
SGK3	0.39640678	0.01809768	3.20216915	
CDH20	-0.39637018	0.01810892	-3.20181840	
C1orf147	-0.39635181	0.01811094	-3.20164229	
P2RX2	-0.39633155	0.01811391	-3.20144817	
FBXO44	-0.39629515	0.01812507	-3.20109940	yes
CALHM2	-0.39627802	0.01812647	-3.20093522	
LOC729085	-0.39624754	0.01812800	-3.20064320	
SIGLEC12	-0.39624626	0.01812800	-3.20063088	
ZNF548	0.39620649	0.01813597	3.20024986	
CCDC80	0.39620181	0.01813597	3.20020499	
CUX2	-0.39618555	0.01813694	-3.20004917	
PDILT	-0.39616796	0.01813858	-3.19988065	
PDE4C	-0.39612007	0.01815560	-3.19942183	
GPR139	-0.39601879	0.01818934	-3.19845170	
DIO3	-0.39601065	0.01818934	-3.19837366	
NUFIP2	0.39603579	0.01818934	3.19861452	yes
CXCL3	-0.39594275	0.01821659	-3.19772328	
FEZF1	-0.39587273	0.01822773	-3.19705269	
PAX7	-0.39588069	0.01822773	-3.19712893	
SMYD3	0.39586358	0.01822773	3.19696513	
USP44	-0.39587911	0.01822773	-3.19711385	
SLC25A34	-0.39582225	0.01824150	-3.19656933	
SCGB1C1	-0.39580610	0.01824244	-3.19641467	
FAM20C	-0.39576642	0.01825538	-3.19603467	
M6PRBP1	0.39572160	0.01827095	3.19560552	
NOXO1	-0.39567132	0.01828203	-3.19512413	
LIPC	-0.39568089	0.01828203	-3.19521581	

BET3L	-0.39564698	0.01828645	-3.19489114	
ZNF840	-0.39559129	0.01828645	-3.19435798	
TAAR9	-0.39561645	0.01828645	-3.19459888	
C3orf56	-0.39559424	0.01828645	-3.19438620	
DNMT3L	-0.39561976	0.01828645	-3.19463049	
NPTX2	-0.39555684	0.01829676	-3.19402815	
C2orf51	-0.39548346	0.01831969	-3.19332579	
SCARNA16	-0.39548814	0.01831969	-3.19337062	yes
ABHD5	0.39540347	0.01835333	3.19256022	
NRAP	-0.39534602	0.01837547	-3.19201043	
TRAM1L1	-0.39532952	0.01837663	-3.19185252	yes
CRB2	-0.39530235	0.01838326	-3.19159256	
DUSP22	0.39528378	0.01838549	3.19141477	
MRPL43	0.39525149	0.01839475	3.19110589	
LOC100133033	-0.39516276	0.01843301	-3.19025686	
DAND5	-0.39505052	0.01847282	-3.18918315	
FCN2	-0.39504060	0.01847282	-3.18908825	
MSX1	-0.39502849	0.01847282	-3.18897246	
TTC35	0.39504946	0.01847282	3.18917297	
MYO15A	-0.39499739	0.01848153	-3.18867496	
NMS	-0.39497911	0.01848363	-3.18850013	
PPAPDC1A	-0.39493574	0.01849866	-3.18808531	
OR9G4	-0.39490145	0.01850902	-3.18775738	
PSMD14	0.39477651	0.01855770	3.18656259	
PTAFR	0.39478101	0.01855770	3.18660563	
SNORD32B	-0.39476461	0.01855770	-3.18644874	
OR51S1	-0.39473564	0.01856483	-3.18617174	
SLC30A2	-0.39472246	0.01856483	-3.18604573	
CLEC5A	-0.39468510	0.01857682	-3.18568855	
WDR5B	0.39462072	0.01860281	3.18507304	
MYH3	-0.39457895	0.01860402	-3.18467372	
PSAPL1	-0.39459097	0.01860402	-3.18478861	
OR6K2	-0.39457380	0.01860402	-3.18462454	

SCARF1	-0.39456177	0.01860402	-3.18450953
RNASEH1	0.39452482	0.01861583	3.18415633
CAPN11	-0.39439997	0.01867326	-3.18296304
MIXL1	-0.39435061	0.01869157	-3.18249126
UNC93A	-0.39430328	0.01870148	-3.18203899
MGC4294	-0.39431233	0.01870148	-3.18212548
SLC17A8	-0.39426259	0.01870795	-3.18165022
LOC440337	-0.39426731	0.01870795	-3.18169532
ADCYAP1R1	-0.39419040	0.01871615	-3.18096049
TTC9B	-0.39419251	0.01871615	-3.18098058
LBXCOR1	-0.39420716	0.01871615	-3.18112055
STYXL1	0.39422127	0.01871615	3.18125537
TAF7	0.39417206	0.01871837	3.18078522
ADAMTS17	-0.39408842	0.01872526	-3.17998615
ITIH1	-0.39410720	0.01872526	-3.18016561
NFIX	-0.39412714	0.01872526	-3.18035609
PFTK2	-0.39411794	0.01872526	-3.18026822
TBX3	-0.39409495	0.01872526	-3.18004860
SNX2	0.39403836	0.01874399	3.17950796
GNB1	0.39402186	0.01874526	3.17935040
MRPL15	0.39398153	0.01875366	3.17896512
NUP98	0.39394267	0.01875366	3.17859396
NDUFA4L2	-0.39395385	0.01875366	-3.17870082
C12orf65	-0.39395181	0.01875366	-3.17868129
MCART1	-0.39393549	0.01875366	-3.17852544
C8orf73	-0.39386464	0.01878328	-3.17784878
CADM1	-0.39379549	0.01880261	-3.17718839
SLC6A3	-0.39380288	0.01880261	-3.17725905
TRPM8	-0.39378552	0.01880261	-3.17709322
C9orf163	-0.39374888	0.01880380	-3.17674339
SLC6A19	-0.39376067	0.01880380	-3.17685598
MEX3D	-0.39374118	0.01880380	-3.17666987
H2AFV	0.39359563	0.01887258	3.17528027

BPNT1	0.39349830	0.01889423	3.17435119	
PADI2	-0.39350759	0.01889423	-3.17443986	
FOXR2	-0.39352113	0.01889423	-3.17456912	
BLOC1S2	0.39352878	0.01889423	3.17464208	
APOC4	-0.39346082	0.01890655	-3.17399348	
GPX4	0.39339529	0.01893359	3.17336805	
CCDC85A	-0.39334747	0.01894322	-3.17291172	
TMEM77	0.39331373	0.01894322	3.17258969	
GATA3	-0.39333826	0.01894322	-3.17282383	
RNFT1	0.39332864	0.01894322	3.17273195	
MAGEC2	-0.39329315	0.01894322	-3.17239328	
BTBD1	0.39330318	0.01894322	3.17248899	yes
PRDM14	-0.39323319	0.01896006	-3.17182120	
ATP6V0E1	0.39323824	0.01896006	3.17186933	
SLC15A2	0.39319246	0.01897414	3.17143256	yes
FAM47A	-0.39314167	0.01899120	-3.17094801	
SYT3	-0.39313215	0.01899120	-3.17085724	
C12orf59	-0.39305548	0.01901417	-3.17012580	
KNCN	-0.39301253	0.01901417	-3.16971607	
PRAME	-0.39299107	0.01901417	-3.16951143	
DEFB121	-0.39299562	0.01901417	-3.16955477	
SOHLH1	-0.39302077	0.01901417	-3.16979474	
LOC646359	-0.39304355	0.01901417	-3.17001200	
GNG8	-0.39301237	0.01901417	-3.16971460	
FOXA3	-0.39296575	0.01901565	-3.16926990	
PAK1	0.39296048	0.01901565	3.16921964	
DYNLT1	0.39294520	0.01901637	3.16907394	
OR6N1	-0.39291042	0.01902007	-3.16874225	
HACL1	0.39291526	0.01902007	3.16878838	
FAM119B	-0.39284802	0.01902388	-3.16814712	
CLEC4G	-0.39287913	0.01902388	-3.16844383	
DEFB136	-0.39280614	0.01902388	-3.16774774	
NR2E1	-0.39281621	0.01902388	-3.16784377	

ECHDC3	-0.39283793	0.01902388	-3.16805088	
KIAA1853	-0.39282357	0.01902388	-3.16791392	
MYO18B	-0.39283766	0.01902388	-3.16804832	
C12orf67	-0.39275445	0.01903870	-3.16725489	
NDUFA5	0.39275032	0.01903870	3.16721551	
CIDEA	-0.39264126	0.01905103	-3.16617570	
NXNL2	-0.39263016	0.01905103	-3.16606986	
LCE3B	-0.39266850	0.01905103	-3.16643542	
DOK5	-0.39265372	0.01905103	-3.16629443	
S100A5	-0.39270137	0.01905103	-3.16674874	
XPNPEP3	0.39263953	0.01905103	3.16615918	
RP1-27O5.1	-0.39269198	0.01905103	-3.16665925	
ZNF75D	0.39255217	0.01907760	3.16532642	
VPS4B	0.39255834	0.01907760	3.16538522	
LBP	-0.39248762	0.01910440	-3.16471106	
RABL5	0.39238600	0.01915084	3.16374255	
ZNF804A	-0.39235101	0.01916206	-3.16340913	
SLC35F3	-0.39228080	0.01919197	-3.16274004	
PRG4	-0.39225068	0.01920063	-3.16245311	
PDGFB	-0.39222242	0.01920831	-3.16218378	yes
TMEM31	-0.39210813	0.01924706	-3.16109498	
MGAT5	0.39211169	0.01924706	3.16112889	
BARX1	-0.39212892	0.01924706	-3.16129298	
GP1BA	-0.39203697	0.01926539	-3.16041706	
LOC100133407	-0.39203237	0.01926539	-3.16037329	
MYOG	-0.39203929	0.01926539	-3.16043912	
NTSR2	-0.39197663	0.01927521	-3.15984235	
C21orf63	0.39197267	0.01927521	3.15980460	
NEURL	-0.39197996	0.01927521	-3.15987401	
TECTB	-0.39187879	0.01931789	-3.15891052	
PCGF2	-0.39183765	0.01933251	-3.15851870	
C1orf97	0.39177863	0.01935668	3.15795670	
SLC17A1	-0.39176196	0.01935824	-3.15779800	

CLPS	-0.39168952	0.01937730	-3.15710820	
DOCK3	-0.39168512	0.01937730	-3.15706637	
LYZ	-0.39170107	0.01937730	-3.15721814	
BTBD9	0.39159745	0.01940952	3.15623171	yes
NPAS1	-0.39160934	0.01940952	-3.15634485	
BRD3	-0.39152654	0.01944015	-3.15555669	
SLC25A26	0.39147100	0.01944202	3.15502805	
OR6B3	-0.39145455	0.01944202	-3.15487149	
UFC1	0.39145669	0.01944202	3.15489183	
FOXL2	-0.39147983	0.01944202	-3.15511211	
SLC16A5	0.39145929	0.01944202	3.15491653	
C17orf77	-0.39140211	0.01945546	-3.15437231	
AMZ1	-0.39141135	0.01945546	-3.15446031	
AGT	-0.39136133	0.01947000	-3.15398425	
SLC38A8	-0.39131679	0.01947922	-3.15356038	
MUC6	-0.39132513	0.01947922	-3.15363973	
UGDH	0.39129841	0.01948175	3.15338551	
LRIG1	0.39128379	0.01948227	3.15324635	
UPRT	0.39115110	0.01949741	3.15198388	
GDPD4	-0.39121193	0.01949741	-3.15256266	
KIAA1024	-0.39119123	0.01949741	-3.15236572	
KIAA0774	-0.39119524	0.01949741	-3.15240381	
TSPYL6	-0.39116778	0.01949741	-3.15214261	
ENOSF1	0.39114644	0.01949741	3.15193955	
C10orf57	0.39122469	0.01949741	3.15268403	yes
SESN2	-0.39118239	0.01949741	-3.15228159	
TAS2R39	-0.39110260	0.01949901	-3.15152247	
KCNG2	-0.39112929	0.01949901	-3.15177634	
HS3ST3A1	-0.39111600	0.01949901	-3.15164992	
LRTM1	-0.39105513	0.01951720	-3.15107085	
C5orf27	-0.39099990	0.01953958	-3.15054551	
COCH	-0.39093463	0.01956608	-3.14992470	
ELAVL3	-0.39092345	0.01956608	-3.14981839	

SSX10	-0.39080167	0.01959124	-3.14866021	
STAM2	0.39078410	0.01959124	3.14849321	yes
WFDC10A	-0.39076808	0.01959124	-3.14834084	
CYP26C1	-0.39080845	0.01959124	-3.14872477	
SEPSECS	0.39085765	0.01959124	3.14919256	
A4GNT	-0.39083205	0.01959124	-3.14894915	
OR10W1	-0.39079125	0.01959124	-3.14856120	
CACNA2D4	-0.39078010	0.01959124	-3.14845516	
UMOD	-0.39074157	0.01959822	-3.14808880	
TTC8	0.39072766	0.01959841	3.14795652	
C5orf36	0.39069193	0.01961036	3.14761683	
LOC100129434	-0.39063680	0.01961064	-3.14709260	
HMCN2	-0.39063617	0.01961064	-3.14708661	
IFNB1	-0.39061019	0.01961064	-3.14683965	
MAGEB4	-0.39061574	0.01961064	-3.14689240	
ZNF821	-0.39065405	0.01961064	-3.14725665	
RPL30	0.39063821	0.01961064	3.14710601	
PLD4	-0.39056713	0.01962657	-3.14643031	
FAM18B	0.39051623	0.01964675	3.14594646	
SPINT4	-0.39048200	0.01965794	-3.14562106	
ZDHHC19	-0.39045486	0.01965800	-3.14536310	
SFRS9	0.39045811	0.01965800	3.14539400	
ZNRF3	-0.39042675	0.01966589	-3.14509598	
PELI1	0.39038136	0.01966854	3.14466456	
CHST8	-0.39039743	0.01966854	-3.14481730	
MADCAM1	-0.39038824	0.01966854	-3.14472996	
PLA2G1B	-0.39029269	0.01970190	-3.14382194	
ZDHHC13	0.39029943	0.01970190	3.14388601	yes
C18orf10	0.39022584	0.01970710	3.14318673	
HERV-FRD	-0.39026468	0.01970710	-3.14355576	
MYO1B	0.39021571	0.01970710	3.14309045	
NPY1R	-0.39024052	0.01970710	-3.14332624	
LOC728613	-0.39021697	0.01970710	-3.14310241	

FANCF	0.39016356	0.01971348	3.14259499	yes
SPATA12	-0.39017050	0.01971348	-3.14266091	
IGSF1	-0.39017838	0.01971348	-3.14273576	
GAB4	-0.39009643	0.01973678	-3.14195726	
LARP5	0.39009365	0.01973678	3.14193078	yes
KBTBD5	-0.39007634	0.01973887	-3.14176641	
LOC440311	-0.39003570	0.01973906	-3.14138029	
GJC2	-0.39004080	0.01973906	-3.14142881	
ELOVL3	-0.39004929	0.01973906	-3.14150941	
THADA	0.38999969	0.01974403	3.14103824	
SPG11	0.39000850	0.01974403	3.14112197	
OR14K1	-0.38994364	0.01975987	-3.14050587	
RPAIN	0.38995498	0.01975987	3.14061362	
LOC201229	0.38990238	0.01977442	3.14011398	
KRAS	0.38989000	0.01977442	3.13999639	yes
PRKRIP1	-0.38987632	0.01977457	-3.13986655	
FCER2	-0.38984651	0.01978348	-3.13958338	
RTBDN	-0.38976490	0.01982053	-3.13880839	
ALDH1A1	0.38974794	0.01982246	3.13864740	
DAPK2	-0.38970295	0.01982772	-3.13822015	
KCNK2	-0.38970329	0.01982772	-3.13822345	
NKD1	-0.38969812	0.01982772	-3.13817435	yes
ZNF384	-0.38965356	0.01984468	-3.13775131	
LRRN4	-0.38958676	0.01984541	-3.13711711	
EMR1	-0.38957550	0.01984541	-3.13701022	
MTNR1B	-0.38954711	0.01984541	-3.13674067	
MAP7D1	-0.38959483	0.01984541	-3.13719373	
HAPLN2	-0.38953205	0.01984541	-3.13659776	
ELSPBP1	-0.38956408	0.01984541	-3.13690177	
LINGO3	-0.38953648	0.01984541	-3.13663976	
XPNPEP2	-0.38953865	0.01984541	-3.13666036	
UBE3B	0.38958276	0.01984541	3.13707907	
HNF4A	-0.38947878	0.01986714	-3.13609207	

HCN2	-0.38946288	0.01986855	-3.13594111	
R3HDML	-0.38941337	0.01988423	-3.13547120	
RLTPR	-0.38940743	0.01988423	-3.13541490	
ZPLD1	-0.38936303	0.01990116	-3.13499351	
VNN3	0.38932077	0.01991391	3.13459242	
HIRA	0.38931304	0.01991391	3.13451903	
CDSN	-0.38926180	0.01991997	-3.13403287	
EXTL1	-0.38928812	0.01991997	-3.13428258	
CHMP2B	0.38927290	0.01991997	3.13413813	yes
WBSCR17	-0.38923543	0.01991997	-3.13378259	
CBX2	-0.38924144	0.01991997	-3.13383965	
NMNAT2	-0.38917824	0.01994393	-3.13323995	
DAD1	0.38916267	0.01994518	3.13309223	
TRIM38	0.38913042	0.01995554	3.13278623	
PRSSL1	-0.38908832	0.01997129	-3.13238683	
RHBDL3	-0.38901936	0.01998723	-3.13173270	
OR10H3	-0.38902526	0.01998723	-3.13178864	
RAB3A	-0.38903672	0.01998723	-3.13189740	
USH1G	-0.38899640	0.01998891	-3.13151487	
EPO	-0.38898977	0.01998891	-3.13145205	
GPHA2	-0.38896132	0.01998998	-3.13118219	
PNPT1	0.38896967	0.01998998	3.13126131	
CACNA1A	-0.38894250	0.01999303	-3.13100364	
KLHL18	0.38881953	0.02002556	3.12983737	
FAM92A3	-0.38882601	0.02002556	-3.12989880	
CYB5R4	0.38881690	0.02002556	3.12981241	
CARD9	-0.38885644	0.02002556	-3.13018747	
LCOR	0.38885352	0.02002556	3.13015970	yes
FZD8	-0.38879866	0.02002831	-3.12963948	
AMBN	-0.38877394	0.02003461	-3.12940502	
NUPL1	0.38875453	0.02003800	3.12922099	yes
FLJ43860	-0.38870483	0.02005800	-3.12874978	
BIRC7	-0.38868840	0.02005977	-3.12859395	

SNORD116-10	-0.38860031	0.02009362	-3.12775878	
API5	0.38860112	0.02009362	3.12776643	
DLX3	-0.38856700	0.02009742	-3.12744301	
FYCO1	0.38856975	0.02009742	3.12746908	
PTPLAD2	0.38854368	0.02010298	3.12722193	
B3GNT5	0.38852914	0.02010373	3.12708409	yes
H1FOO	-0.38845888	0.02012150	-3.12641807	
LOC154872	-0.38845851	0.02012150	-3.12641456	
GPR173	-0.38845727	0.02012150	-3.12640281	
PRDM4	0.38842759	0.02013057	3.12612154	yes
KLK4	-0.38834463	0.02016898	-3.12533525	
PTPLAD1	0.38832807	0.02017085	3.12517831	
IGDCC3	-0.38831092	0.02017305	-3.12501580	
CYGB	-0.38829155	0.02017647	-3.12483219	
KIAA1797	0.38827550	0.02017807	3.12468010	
FLJ25404	-0.38821480	0.02019703	-3.12410493	
PEX3	0.38822327	0.02019703	3.12418525	
TCP1	0.38819705	0.02019957	3.12393679	
CAND2	-0.38818146	0.02020092	-3.12378903	
PPP2R1A	0.38811164	0.02022495	3.12312750	
UNQ9368	-0.38812374	0.02022495	-3.12324221	
COL4A1	-0.38799458	0.02027399	-3.12201860	yes
LIP1	-0.38800478	0.02027399	-3.12211525	
YBX2	-0.38798349	0.02027399	-3.12191353	
EN2	-0.38794838	0.02027882	-3.12158100	
PSRC1	-0.38795141	0.02027882	-3.12160964	
NT5C1B	-0.38793541	0.02027882	-3.12145816	
GPR112	-0.38790126	0.02028909	-3.12113468	
CCDC116	-0.38784775	0.02028909	-3.12062783	
F5	-0.38785042	0.02028909	-3.12065319	
DNAJC16	0.38785175	0.02028909	3.12066574	yes
IDS	0.38782359	0.02028909	3.12039909	
FLJ44653	-0.38782535	0.02028909	-3.12041570	

Magmas	-0.38781214	0.02028909	-3.12029059
KRTAP3-1	-0.38783070	0.02028909	-3.12046642
ST6GALNAC2	0.38767050	0.02034467	3.11894938
SEZ6	-0.38765949	0.02034467	-3.11884513
PCMT1	0.38768035	0.02034467	3.11904265
PRR14	-0.38769245	0.02034467	-3.11915727
SNORA60	-0.38761144	0.02036407	-3.11839020
C14orf33	-0.38741601	0.02043397	-3.11654021
STIP1	0.38738831	0.02043397	3.11627803
SLC22A9	-0.38746353	0.02043397	-3.11699002
LOC120364	-0.38735736	0.02043397	-3.11598515
OR5A2	-0.38734218	0.02043397	-3.11584146
RPL36P14	-0.38741075	0.02043397	-3.11649047
MAGEB6B	-0.38735743	0.02043397	-3.11598579
ABCD3	0.38736368	0.02043397	3.11604492
SLC5A5	-0.38742338	0.02043397	-3.11661002
UCP1	-0.38734293	0.02043397	-3.11584859
HES7	-0.38735859	0.02043397	-3.11599679
CETP	-0.38732238	0.02043774	-3.11565411
GJD4	-0.38728376	0.02043849	-3.11528855
TRMT2B	0.38728202	0.02043849	3.11527211
CD5L	-0.38729405	0.02043849	-3.11538600
LOC727726	0.38723151	0.02045936	3.11479417
BMP8B	-0.38721635	0.02046056	-3.11465072
SAC3D1	-0.38716955	0.02046492	-3.11420787
MSH2	0.38718482	0.02046492	3.11435233
ACBD6	0.38717273	0.02046492	3.11423799
RBM46	-0.38708436	0.02049792	-3.11340184
TBC1D28	-0.38708439	0.02049792	-3.11340213
GALNT13	-0.38699219	0.02052763	-3.11252990
ZNF285B	-0.38701767	0.02052763	-3.11277090
CELSR3	-0.38700443	0.02052763	-3.11264566
REG3G	-0.38697512	0.02052992	-3.11236846

PIGS	0.38695770	0.02053241	3.11220362	
UROC1	-0.38680149	0.02060395	-3.11072624	
TMEM35	-0.38680002	0.02060395	-3.11071232	
VASH2	-0.38679086	0.02060395	-3.11062572	
PAIP2	0.38676695	0.02061009	3.11039954	
SLC5A10	-0.38668309	0.02063725	-3.10960653	
GAPVD1	0.38670420	0.02063725	3.10980621	
OR4K15	-0.38666987	0.02063725	-3.10948159	
C2orf16	-0.38666670	0.02063725	-3.10945157	
DAB2IP	-0.38665263	0.02063789	-3.10931856	
TDRD10	-0.38660699	0.02065623	-3.10888705	
KANK1	-0.38649622	0.02071118	-3.10783988	
PSEN1	0.38646814	0.02071693	3.10757443	
TBC1D27	-0.38646015	0.02071693	-3.10749889	
LOC151174	-0.38642374	0.02073014	-3.10715474	
ABCG5	-0.38633617	0.02077219	-3.10632700	
ABCC8	-0.38631691	0.02077577	-3.10614499	
MAGEB18	-0.38625380	0.02080408	-3.10554862	
GPR114	-0.38612278	0.02086200	-3.10431052	
FSHB	-0.38610855	0.02086200	-3.10417606	
C20orf185	-0.38606100	0.02086200	-3.10372686	
SPEM1	-0.38609366	0.02086200	-3.10403541	
KRTAP10-8	-0.38607756	0.02086200	-3.10388327	
GEMIN7	0.38606411	0.02086200	3.10375622	
PUM1	0.38607860	0.02086200	3.10389308	
NUP210L	-0.38602476	0.02087521	-3.10338451	yes
TMEM17	0.38599312	0.02088583	3.10308555	
RABGAP1L	0.38596602	0.02089389	3.10282959	
NPY	-0.38594505	0.02089847	-3.10263148	
SLC11A2	0.38593178	0.02089870	3.10250612	
UGCG	0.38591436	0.02090128	3.10234157	
FGF21	-0.38587299	0.02091014	-3.10195081	
C6orf225	0.38587657	0.02091014	3.10198468	

CYB5D2	0.38584604	0.02091084	3.10169628	
HOXD10	-0.38584682	0.02091084	-3.10170370	
OR2L13	-0.38580783	0.02092522	-3.10133543	
ASCL5	-0.38578249	0.02092947	-3.10109612	
ZNF576	-0.38577464	0.02092947	-3.10102193	
C17orf74	-0.38571176	0.02095786	-3.10042814	
NR0B2	-0.38568791	0.02096411	-3.10020299	
CYB5D1	0.38564581	0.02097345	3.09980541	
FBRSL1	-0.38565408	0.02097345	-3.09988349	yes
HAND1	-0.38559991	0.02099224	-3.09937203	
CTRC	-0.38558633	0.02099266	-3.09924385	
C9orf4	-0.38553446	0.02101172	-3.09875411	yes
PLS1	0.38552719	0.02101172	3.09868547	
ZNF234	0.38548737	0.02102211	3.09830960	
GJC3	-0.38548330	0.02102211	-3.09827112	
DIMT1L	0.38544436	0.02103699	3.09790352	
PASK	0.38535192	0.02105319	3.09703104	
ZFR2	-0.38537794	0.02105319	-3.09727663	
TMEM146	-0.38535904	0.02105319	-3.09709823	
LCE1B	-0.38537682	0.02105319	-3.09726606	
C18orf12	-0.38536047	0.02105319	-3.09711170	
FUBP3	0.38531454	0.02106721	3.09667815	
NCAN	-0.38529306	0.02107217	-3.09647543	
OR10G8	-0.38523573	0.02109758	-3.09593440	
DNAJA1	0.38515841	0.02112713	3.09520476	
SFRS7	0.38516716	0.02112713	3.09528735	
OR5R1	-0.38512452	0.02113920	-3.09488504	
C4orf33	0.38509515	0.02114649	3.09460790	
ANKRD2	-0.38508623	0.02114649	-3.09452372	
SAMHD1	0.38500278	0.02118291	3.09373645	
NEUROG3	-0.38499706	0.02118291	-3.09368249	
C14orf102	0.38497125	0.02118977	3.09343897	
NOS1AP	-0.38495957	0.02118977	-3.09332881	

OR52N1	-0.38492834	0.02120036	-3.09303418
ITLN1	-0.38487072	0.02122608	-3.09249067
ELF3	0.38478640	0.02123062	3.09169543
HOXC9	-0.38481853	0.02123062	-3.09199847
ZNF517	-0.38478999	0.02123062	-3.09172924
RPRML	-0.38481824	0.02123062	-3.09199574
BAK1	0.38479867	0.02123062	3.09181115
TTBK1	-0.38484113	0.02123062	-3.09221155
PKLR	-0.38476987	0.02123281	-3.09153947
FAM57B	-0.38473988	0.02124272	-3.09125665
FOXN4	-0.38469951	0.02124508	-3.09087596
KCNN2	-0.38469765	0.02124508	-3.09085842
PCTK3	-0.38471569	0.02124508	-3.09102855
ABCG8	-0.38466612	0.02125588	-3.09056107
GNRHR2	-0.38460049	0.02128627	-3.08994231
DDI2	0.38457225	0.02129521	3.08967599
EXD1	-0.38453286	0.02129871	-3.08930459
STK32C	-0.38452217	0.02129871	-3.08920381
FLJ37543	-0.38453317	0.02129871	-3.08930759
LOXL2	-0.38451540	0.02129871	-3.08914005
LOC100130988	-0.38441459	0.02131018	-3.08818965
BARHL2	-0.38443663	0.02131018	-3.08839738
NCRNA00167	-0.38446876	0.02131018	-3.08870028
NOX3	-0.38440681	0.02131018	-3.08811630
UROD	0.38442548	0.02131018	3.08829236
SOAT2	-0.38448230	0.02131018	-3.08882792
CUL2	0.38440698	0.02131018	3.08811794
RRP8	0.38431806	0.02134668	3.08727982
FOSL1	-0.38432121	0.02134668	-3.08730945
OR4K14	-0.38420749	0.02140123	-3.08623775
KCNA5	-0.38419812	0.02140123	-3.08614945
TTY13	-0.38411020	0.02144470	-3.08532090
ZSWIM6	0.38403943	0.02147832	3.08465408

LOC387825	-0.38398378	0.02150322	-3.08412985	
LOC389895	-0.38394975	0.02151474	-3.08380921	
POR	0.38392600	0.02151474	3.08358553	
RIC8A	0.38392808	0.02151474	3.08360512	
DRD4	-0.38387453	0.02152509	-3.08310070	
OTP	-0.38388532	0.02152509	-3.08320233	
C2orf43	0.38387028	0.02152509	3.08306065	
OTOR	-0.38372650	0.02159542	-3.08170638	
BRDT	-0.38372390	0.02159542	-3.08168193	
PAK7	-0.38370475	0.02159922	-3.08150154	
RNF182	-0.38366528	0.02159951	-3.08112989	
ITGB1BP3	-0.38364124	0.02159951	-3.08090353	
SELV	-0.38365168	0.02159951	-3.08100185	
PRPS1	0.38366550	0.02159951	3.08113195	
TTYH2	-0.38368799	0.02159951	-3.08134374	
TRAV12-2	-0.38359121	0.02162129	-3.08043243	
GZMH	-0.38352937	0.02164996	-3.07985012	
KRTAP12-1	-0.38347005	0.02166986	-3.07929167	
PPP1R12C	-0.38347535	0.02166986	-3.07934154	yes
TMEM138	0.38343097	0.02168531	3.07892374	
OR10G7	-0.38338552	0.02170449	-3.07849585	
FAM163B	-0.38336148	0.02171118	-3.07826961	
CTXN3	-0.38326970	0.02175747	-3.07740573	
LRRC4B	-0.38325308	0.02175984	-3.07724933	yes
TSPAN1	0.38320787	0.02177894	3.07682385	
GRIN2B	-0.38319239	0.02177969	-3.07667813	
BCAS3	0.38318146	0.02177969	3.07657526	
SLITRK2	-0.38316781	0.02178033	-3.07644684	
NRAS	0.38311288	0.02180515	3.07592992	
HOXB4	-0.38306830	0.02182392	-3.07551039	
FAM26D	-0.38302344	0.02184285	-3.07508834	
HTR2C	-0.38301092	0.02184285	-3.07497055	
C11orf73	0.38299238	0.02184638	3.07479607	

FOXQ1	-0.38292395	0.02187919	-3.07415229	
C10orf114	-0.38290990	0.02188008	-3.07402010	
TNFRSF13C	-0.38289566	0.02188109	-3.07388615	
LOC390940	0.38286697	0.02188322	3.07361628	
CWF19L1	0.38286917	0.02188322	3.07363697	
MTF1	0.38285196	0.02188468	3.07347509	yes
COL19A1	-0.38275105	0.02189642	-3.07252591	
SLC13A5	-0.38275057	0.02189642	-3.07252142	
KIF5A	-0.38274791	0.02189642	-3.07249645	
C17orf82	-0.38276349	0.02189642	-3.07264297	
TRIM75	-0.38274443	0.02189642	-3.07246370	
FXWD3	0.38278681	0.02189642	3.07286226	
WASF1	-0.38278480	0.02189642	-3.07284340	
MFSB6	0.38267256	0.02193134	3.07178779	
UBE2H	0.38263400	0.02194669	3.07142509	
TROAP	-0.38257329	0.02195631	-3.07085420	
PSMA6	0.38256795	0.02195631	3.07080406	
TBX6	-0.38258890	0.02195631	-3.07100102	
CD8B	-0.38256771	0.02195631	-3.07080181	
REG4	-0.38246362	0.02200746	-3.06982307	
C14orf143	0.38245601	0.02200746	3.06975153	
RPL29P12	-0.38239816	0.02203425	-3.06920764	
RGS7	-0.38235791	0.02205067	-3.06882933	
ZNF791	0.38232661	0.02206180	3.06853511	
CRYBA1	-0.38230762	0.02206531	-3.06835657	
MSX2P1	-0.38229576	0.02206531	-3.06824509	
UNQ6493	-0.38226282	0.02207394	-3.06793543	
NME6	0.38225625	0.02207394	3.06787375	
KRT37	-0.38222743	0.02208363	-3.06760280	
SEP4	-0.38220851	0.02208746	-3.06742497	yes
CHRNA4	-0.38217115	0.02210221	-3.06707392	
EPOR	-0.38212004	0.02211039	-3.06659354	
OR2G6	-0.38213349	0.02211039	-3.06672000	

NEK9	0.38212650	0.02211039	3.06665430	
LOC100133316	-0.38204464	0.02214220	-3.06588503	
ZNF524	-0.38202907	0.02214220	-3.06573873	
PRKACG	-0.38204028	0.02214220	-3.06584408	
TRIM54	-0.38200957	0.02214367	-3.06555554	yes
PPFIA2	-0.38200176	0.02214367	-3.06548219	
C3orf43	-0.38191559	0.02216736	-3.06467259	
FAM71E2	-0.38191219	0.02216736	-3.06464057	
KRTAP13-3	-0.38191402	0.02216736	-3.06465783	
SAMD7	-0.38193247	0.02216736	-3.06483111	
PPTC7	0.38186440	0.02217249	3.06419167	
FLJ45455	-0.38186396	0.02217249	-3.06418748	
BPI	-0.38188010	0.02217249	-3.06433918	
RAB7A	0.38185215	0.02217249	3.06407655	
CPNE6	-0.38184158	0.02217249	-3.06397726	
KLHL35	-0.38177915	0.02217389	-3.06339085	
RIMKLA	-0.38177947	0.02217389	-3.06339385	
RSPO2	-0.38177734	0.02217389	-3.06337387	
ADAMTS20	-0.38178340	0.02217389	-3.06343078	
RSHL1	-0.38179238	0.02217389	-3.06351509	
ANKS4B	-0.38176342	0.02217481	-3.06324310	
ATP2B3	-0.38174914	0.02217595	-3.06310901	
TXNDC2	-0.38170806	0.02219300	-3.06272309	
APOBEC2	-0.38164025	0.02222595	-3.06208630	
FLJ45139	-0.38161485	0.02222636	-3.06184776	
METRN	-0.38162588	0.02222636	-3.06195131	
POU3F2	-0.38156320	0.02224974	-3.06136271	
LOC100132793	0.38151870	0.02226578	3.06094485	
TBPL1	0.38151156	0.02226578	3.06087781	
KCNJ4	-0.38149577	0.02226783	-3.06072956	
CBR3	-0.38147544	0.02227259	-3.06053868	
RBX1	0.38142683	0.02229421	3.06008222	
OTOP3	-0.38129599	0.02235756	-3.05885398	

SOX2	0.38130584	0.02235756	3.05894644
AFM	-0.38120499	0.02240042	-3.05799982
ELL3	0.38119965	0.02240042	3.05794971
MLF1	0.38117655	0.02240687	3.05773287
ELA3B	-0.38112435	0.02243075	-3.05724298
CBFA2T3	-0.38108967	0.02244415	-3.05691746
USP50	-0.38105674	0.02245651	-3.05660847
PNMT	-0.38103315	0.02246327	-3.05638713
RABL4	0.38095951	0.02250008	3.05569616
DBT	0.38093979	0.02250453	3.05551108
RAET1G	-0.38092437	0.02250640	-3.05536646
SPTLC2	0.38089759	0.02251510	3.05511520
TSC22D4	-0.38086278	0.02252864	-3.05478857
DCC	-0.38083051	0.02254053	-3.05448581
HSDL1	0.38081841	0.02254053	3.05437231
SLC46A2	-0.38079973	0.02254438	-3.05419711
OR1N1	-0.38072250	0.02254834	-3.05347269
GLP1R	-0.38077746	0.02254834	-3.05398818
HOXB5	-0.38071074	0.02254834	-3.05336237
LOC392364	-0.38071574	0.02254834	-3.05340924
MMP19	-0.38073551	0.02254834	-3.05359469
FAM127C	-0.38076010	0.02254834	-3.05382537
SART3	0.38070723	0.02254834	3.05332941
NR1I3	-0.38068236	0.02255592	-3.05309622
MAGEB3	-0.38065238	0.02256659	-3.05281496
GDF10	-0.38063941	0.02256702	-3.05269330
PMP22CD	-0.38056697	0.02260327	-3.05201397
OAZ2	0.38055368	0.02260389	3.05188934
HIST1H2BA	-0.38040386	0.02267602	-3.05048452
VPREB3	-0.38039748	0.02267602	-3.05042475
NPHS1	-0.38039741	0.02267602	-3.05042409
SLC6A8	-0.38035967	0.02269144	-3.05007021
C3orf48	-0.38027325	0.02273632	-3.04926007

RNF138	0.38023477	0.02275222	3.04889931	
COL22A1	-0.38016962	0.02277627	-3.04828864	
SNX32	-0.38016179	0.02277627	-3.04821525	
KRT19	0.38015840	0.02277627	3.04818355	
PRAGMIN	-0.38010945	0.02278384	-3.04772474	
GHSR	-0.38010927	0.02278384	-3.04772306	
CATSPER4	-0.38013337	0.02278384	-3.04794887	
DEFB111	-0.38007004	0.02279282	-3.04735541	
THRAP3	0.38007690	0.02279282	3.04741969	yes
SIX5	-0.38001111	0.02280675	-3.04680315	
PECR	0.38001051	0.02280675	3.04679749	
ZKSCAN1	0.38001048	0.02280675	3.04679721	
LSM11	-0.37997583	0.02282037	-3.04647257	yes
PSMG2	0.37995702	0.02282439	3.04629629	
TRIM42	-0.37993893	0.02282797	-3.04612682	
AKAP4	-0.37991881	0.02283279	-3.04593823	
ZNF701	0.37988099	0.02284385	3.04558393	
hCG_2015956	-0.37987486	0.02284385	-3.04552648	
TCAP	-0.37986406	0.02284385	-3.04542531	
EAF1	0.37984469	0.02284822	3.04524382	
SILV	-0.37980955	0.02286219	-3.04491456	
GARNL4	-0.37977596	0.02287522	-3.04459989	
FRMD3	-0.37973873	0.02288307	-3.04425112	
C9orf68	0.37974198	0.02288307	3.04428164	
OR4A16	-0.37970626	0.02289542	-3.04394702	
ZNRD1	0.37961917	0.02293786	3.04313125	
APOA1	-0.37961230	0.02293786	-3.04306690	
KIAA1737	0.37959451	0.02294130	3.04290026	
OBFC1	0.37956700	0.02295066	3.04264267	
OPN5	-0.37954405	0.02295725	-3.04242768	
MEF2B	-0.37949951	0.02297703	-3.04201058	
CYP26B1	-0.37939085	0.02303602	-3.04099315	
LVRN	-0.37937601	0.02303767	-3.04085418	

MAPK7	-0.37935965	0.02304025	-3.04070100	
EXOSC7	0.37928692	0.02306249	3.04002013	
GRHL2	0.37929782	0.02306249	3.04012216	
ZIC4	-0.37928884	0.02306249	-3.04003802	
LOC100131138	-0.37923242	0.02307844	-3.03950991	
BRP44	0.37922452	0.02307844	3.03943597	yes
PRR16	-0.37923577	0.02307844	-3.03954121	
BHLHA15	-0.37919858	0.02308239	-3.03919314	
DPEP1	-0.37919384	0.02308239	-3.03914876	
SNORA51	-0.37917522	0.02308638	-3.03897448	
SLC22A12	-0.37912694	0.02310119	-3.03852251	
GLRA4	-0.37912685	0.02310119	-3.03852170	
RP11-93B14.6	-0.37910075	0.02310612	-3.03827743	
PGF	-0.37909461	0.02310612	-3.03821997	yes
NUPL2	0.37902670	0.02314037	3.03758441	
SNORA24	-0.37899506	0.02315237	-3.03728829	
MMP24	-0.37894248	0.02315497	-3.03679626	
KCNG3	-0.37895160	0.02315497	-3.03688156	
ERGIC3	0.37895631	0.02315497	3.03692565	
PRX	-0.37896611	0.02315497	-3.03701738	
OPN1SW	-0.37877527	0.02325044	-3.03523170	
ASCL2	-0.37876209	0.02325111	-3.03510839	
CCDC63	-0.37873517	0.02325282	-3.03485659	
HPDL	-0.37874505	0.02325282	-3.03494903	
PFKP	0.37869872	0.02326786	3.03451555	
TNP1	-0.37868496	0.02326890	-3.03438687	
BSN	-0.37867076	0.02327022	-3.03425405	
ABCB7	0.37861969	0.02329206	3.03377628	
KCNJ8	-0.37861123	0.02329206	-3.03369723	
PTPN6	0.37859514	0.02329456	3.03354670	
RP11-49G10.8	-0.37858173	0.02329540	-3.03342124	
TRBV28	-0.37856720	0.02329693	-3.03328539	
C7orf51	-0.37854163	0.02330528	-3.03304624	

OPRD1	-0.37849729	0.02331779	-3.03263151	
MST150	-0.37850067	0.02331779	-3.03266316	
MRPS18B	0.37847965	0.02332125	3.03246655	
PGR	-0.37845003	0.02333212	-3.03218956	
EXOC3L	-0.37840768	0.02335086	-3.03179359	
SNORA13	-0.37838603	0.02335681	-3.03159110	
WDR31	0.37835407	0.02336915	3.03129226	
ACHE	-0.37832885	0.02337732	-3.03105643	yes
DOPEY1	0.37825315	0.02341051	3.03034866	yes
FNDC4	-0.37825122	0.02341051	-3.03033063	
CHST4	0.37814152	0.02345526	3.02930512	
DEFB125	-0.37813273	0.02345526	-3.02922298	
C3orf38	0.37812724	0.02345526	3.02917167	
THOC7	0.37811901	0.02345526	3.02909472	
ADAM12	-0.37816570	0.02345526	-3.02953115	
FLJ22167	0.37804457	0.02349404	3.02839894	
OSBPL11	0.37800890	0.02350071	3.02806556	
NGDN	0.37798973	0.02350071	3.02788639	
GPR32	-0.37796332	0.02350071	-3.02763954	
LENEP	-0.37799695	0.02350071	-3.02795391	
KLHL1	-0.37796189	0.02350071	-3.02762621	
CACNG1	-0.37797522	0.02350071	-3.02775083	
PLK5P	-0.37794708	0.02350247	-3.02748776	yes
BLOC1S3	-0.37793185	0.02350289	-3.02734547	yes
RXFP3	-0.37792246	0.02350289	-3.02725776	
LOC100129858	-0.37782673	0.02351065	-3.02636318	
C14orf100	0.37782626	0.02351065	3.02635877	
CABLES2	-0.37784002	0.02351065	-3.02648735	
RNASE7	-0.37789686	0.02351065	-3.02701848	
CCDC54	-0.37787116	0.02351065	-3.02677838	
AP4M1	0.37786145	0.02351065	3.02668765	
MRFAP1	0.37783092	0.02351065	3.02640233	
OR10H4	-0.37775723	0.02354615	-3.02571387	

EEF1A2	-0.37768933	0.02357471	-3.02507947
GSTA3	0.37768748	0.02357471	3.02506216
OR9G1	-0.37759982	0.02358853	-3.02424332
HRCT1	-0.37762712	0.02358853	-3.02449829
MRPS9	0.37759369	0.02358853	3.02418605
ZNF668	-0.37760118	0.02358853	-3.02425603
CPZ	-0.37760617	0.02358853	-3.02430264
KL	-0.37765015	0.02358853	-3.02471348
GLT25D2	-0.37754960	0.02360664	-3.02377424
BRSK2	-0.37754080	0.02360664	-3.02369201
PHAX	0.37750961	0.02361867	3.02340068
C9orf170	-0.37744903	0.02364583	-3.02283495
SPAG16	0.37744225	0.02364583	3.02277158
C19orf34	-0.37741338	0.02365642	-3.02250203
CHRNA2	-0.37734379	0.02369248	-3.02185215
CBARA1	0.37727485	0.02370243	3.02120848
ABCC13	-0.37722996	0.02370243	-3.02078927
OTUD1	0.37724096	0.02370243	3.02089203
DDN	-0.37724086	0.02370243	-3.02089107
GABRG1	-0.37727166	0.02370243	-3.02117865
ASGR2	-0.37728353	0.02370243	-3.02128946
GGNBP1	-0.37723808	0.02370243	-3.02086510
PBLD	0.37726624	0.02370243	3.02112806
ZNF85	-0.37722086	0.02370243	-3.02070437
hCG_2018279	-0.37713899	0.02372570	-3.01993998
TBR1	-0.37716436	0.02372570	-3.02017689
ASB11	-0.37713618	0.02372570	-3.01991380
WFDC9	-0.37713915	0.02372570	-3.01994153
PRM3	-0.37711332	0.02373259	-3.01970039
LOC729173	-0.37706786	0.02375363	-3.01927604
CDKN1B	0.37698099	0.02375522	3.01846522
PSMB11	-0.37699148	0.02375522	-3.01856309
C20orf118	-0.37699269	0.02375522	-3.01857442

NKX2-8	-0.37704726	0.02375522	-3.01908371	
GDPD1	0.37701465	0.02375522	3.01877935	
HSD17B2	-0.37699062	0.02375522	-3.01855513	
LOC401875	-0.37694688	0.02375522	-3.01814684	
MAGEA1	-0.37695650	0.02375522	-3.01823668	
COL18A1	-0.37701710	0.02375522	-3.01880228	
ACTN2	-0.37696530	0.02375522	-3.01831874	
CRHR1	-0.37692103	0.02375660	-3.01790564	
C1orf128	0.37692792	0.02375660	3.01796988	
DTX1	-0.37688514	0.02376486	-3.01757062	
OR4F6	-0.37688420	0.02376486	-3.01756191	
CA7	-0.37685097	0.02377828	-3.01725182	
CYP3A4	-0.37676629	0.02379687	-3.01646161	
GKN2	-0.37676689	0.02379687	-3.01646723	
NDUFAB1	0.37677519	0.02379687	3.01654463	
STAB2	-0.37679316	0.02379687	-3.01671237	
ANKRD53	-0.37675050	0.02379687	-3.01631433	
PRSS12	0.37675318	0.02379687	3.01633932	
SLMO2	0.37670195	0.02381933	3.01586131	yes
CHST9	0.37669112	0.02381933	3.01576027	
UROS	0.37664137	0.02384316	3.01529610	
DCAKD	0.37662828	0.02384398	3.01517399	
ATG7	0.37658490	0.02385735	3.01476930	
BCO2	0.37658343	0.02385735	3.01475563	
CBY1	0.37654007	0.02386980	3.01435113	
C1orf149	0.37654465	0.02386980	3.01439385	
OR8U1	-0.37652801	0.02386998	-3.01423864	
CPNE9	-0.37643869	0.02389312	-3.01340554	
CHIA	-0.37647035	0.02389312	-3.01370082	
ELOVL5	0.37643933	0.02389312	3.01341151	
KLF16	-0.37643239	0.02389312	-3.01334682	
NTNG2	-0.37645237	0.02389312	-3.01353317	
ZNF385B	-0.37641173	0.02389873	-3.01315410	

WDR5	-0.37634784	0.02392415	-3.01255822	
TRPC5	-0.37635301	0.02392415	-3.01260649	
POU4F2	-0.37632789	0.02392931	-3.01237224	
ALPK3	-0.37623855	0.02397822	-3.01153911	
LOC641515	-0.37621318	0.02398682	-3.01130257	
ZNRF4	-0.37616593	0.02399488	-3.01086205	
DYNC111	-0.37616155	0.02399488	-3.01082118	
CLCF1	-0.37617663	0.02399488	-3.01096177	
LY75	0.37606429	0.02399488	3.00991450	
MYBPC1	-0.37611924	0.02399488	-3.01042678	
RNF2	0.37612971	0.02399488	3.01052438	yes
TM4SF4	-0.37609948	0.02399488	-3.01024258	
MFS11	0.37607664	0.02399488	3.01002958	
OR4K1	-0.37610589	0.02399488	-3.01030227	
CALN1	-0.37612363	0.02399488	-3.01046771	
KIRREL2	-0.37605974	0.02399488	-3.00987211	
C9orf64	0.37607283	0.02399488	3.00999414	
C17orf60	-0.37603298	0.02400438	-3.00962266	
KLHDC7B	-0.37599977	0.02401796	-3.00931302	
OPTC	-0.37598603	0.02401925	-3.00918500	
KCNK17	-0.37596337	0.02402617	-3.00897377	
CAMSAP1	0.37593520	0.02402920	3.00871124	
DHX32	0.37594606	0.02402920	3.00881242	yes
IL17D	-0.37587409	0.02405305	-3.00814167	
C1orf56	-0.37587518	0.02405305	-3.00815177	
TSGA13	-0.37581533	0.02407099	-3.00759399	
RCAN1	-0.37576402	0.02407099	-3.00711592	
NUDCD3	0.37579542	0.02407099	3.00740848	
C8orf46	-0.37582888	0.02407099	-3.00772034	
MRPL13	0.37577999	0.02407099	3.00726469	
KCNJ1	-0.37576860	0.02407099	-3.00715856	
P2RX1	-0.37580003	0.02407099	-3.00745147	
ACR	-0.37575013	0.02407240	-3.00698649	

CHRNA2	-0.37567007	0.02411058	-3.00624046	
SBK1	-0.37566648	0.02411058	-3.00620706	
STAC2	-0.37553042	0.02418946	-3.00493945	
IFT80	0.37540154	0.02426400	3.00373898	
OLFM4	-0.37538825	0.02426504	-3.00361518	
HOXB13	-0.37531283	0.02427832	-3.00291274	
STMN2	-0.37531963	0.02427832	-3.00297610	
DGUOK	0.37530917	0.02427832	3.00287872	
GABPB1	0.37531653	0.02427832	3.00294719	
PHPT1	-0.37535164	0.02427832	-3.00327424	
IK	0.37528500	0.02428631	3.00265356	
C11orf60	0.37523429	0.02431121	3.00218140	
FGF23	-0.37520411	0.02432304	-3.00190034	
SPIN2B	-0.37518993	0.02432467	-3.00176832	
C17orf64	-0.37515127	0.02434192	-3.00140830	
VIL1	-0.37513947	0.02434203	-3.00129845	
SHISA3	-0.37509912	0.02435521	-3.00092275	
IRF7	-0.37509559	0.02435521	-3.00088988	
VGLL2	-0.37506111	0.02436981	-3.00056892	
AFF2	-0.37499209	0.02438513	-2.99992633	
C16orf65	-0.37496631	0.02438513	-2.99968635	
GABRP	0.37495012	0.02438513	2.99953567	
SLC35F4	-0.37497672	0.02438513	-2.99978324	
KRT20	-0.37496945	0.02438513	-2.99971562	
SEMG1	-0.37493421	0.02438513	-2.99938763	
TCHH	-0.37499318	0.02438513	-2.99993653	
ZCRB1	0.37497012	0.02438513	2.99972187	
RAB9P1	-0.37493273	0.02438513	-2.99937376	
MCART2	-0.37489271	0.02439694	-2.99900126	
IRF2BP1	-0.37489108	0.02439694	-2.99898615	yes
SPACA3	-0.37486172	0.02440694	-2.99871286	
OR5M11	-0.37484071	0.02440694	-2.99851735	
SLC12A3	-0.37484245	0.02440694	-2.99853352	

TRIM13	0.37478082	0.02442325	2.99795995	
TMEM105	-0.37480228	0.02442325	-2.99815964	
LOC440093	0.37478050	0.02442325	2.99795699	
TMEM210	-0.37470457	0.02445704	-2.99725038	
RANBP3L	-0.37471018	0.02445704	-2.99730256	
RPS7P4	-0.37456849	0.02453549	-2.99598417	
SSX1	-0.37455913	0.02453549	-2.99589709	
SORCS3	-0.37452458	0.02454644	-2.99557564	
MSTN	-0.37450742	0.02454644	-2.99541602	
RPL10P13	-0.37451702	0.02454644	-2.99550529	
LRRTM1	-0.37447960	0.02455122	-2.99515719	
OR1F1	-0.37447687	0.02455122	-2.99513183	
CCR5	-0.37445181	0.02455250	-2.99489864	
NELL1	-0.37445548	0.02455250	-2.99493278	
SIN3A	0.37442391	0.02456301	2.99463917	
STX8	0.37438793	0.02457872	2.99430450	
IRF2BP2	-0.37436592	0.02458504	-2.99409976	
FLJ43093	-0.37435505	0.02458504	-2.99399863	
RIMBP2	-0.37429640	0.02460053	-2.99345318	
IFT57	0.37430716	0.02460053	2.99355323	
RPL8	0.37431391	0.02460053	2.99361600	
JAKMIP1	-0.37423996	0.02461051	-2.99292824	
F10	-0.37422261	0.02461051	-2.99276690	
OR10Q1	-0.37420220	0.02461051	-2.99257706	
KIAA0831	0.37426321	0.02461051	2.99314443	
COL24A1	-0.37419004	0.02461051	-2.99246400	
DKFZp564N2472	-0.37419516	0.02461051	-2.99251160	
C14orf129	0.37425132	0.02461051	2.99303388	
GPR63	-0.37418884	0.02461051	-2.99245280	
LOC340900	-0.37415163	0.02461966	-2.99210683	
SI	-0.37416306	0.02461966	-2.99221312	
NRTN	-0.37413792	0.02462109	-2.99197938	yes
FBXO10	-0.37408226	0.02464953	-2.99146180	yes

KCNG1	-0.37405515	0.02465960	-2.99120972
RPL29P30	-0.37399127	0.02469339	-2.99061579
PURG	-0.37393634	0.02470662	-2.99010516
PHLDA2	-0.37394990	0.02470662	-2.99023124
CALM1	0.37394746	0.02470662	2.99020859
NKX3-2	-0.37390027	0.02472249	-2.98976986
FAT3	-0.37385393	0.02473021	-2.98933912
DMRT1	-0.37385735	0.02473021	-2.98937088
KLK1	-0.37385835	0.02473021	-2.98938021
ANAPC7	0.37383720	0.02473361	2.98918359
PLAC8L1	-0.37376991	0.02475705	-2.98855819
OR2A12	-0.37378385	0.02475705	-2.98868771
KCNK9	-0.37376656	0.02475705	-2.98852704
KRTAP9-3	-0.37373895	0.02476750	-2.98827043
ITGB8	0.37371164	0.02477775	2.98801662
C3orf55	-0.37366336	0.02479418	-2.98756791
KCNS1	-0.37366555	0.02479418	-2.98758831
MYT1	-0.37357825	0.02483448	-2.98677712
PPP2R3C	0.37358753	0.02483448	2.98686328
PPIE	0.37356106	0.02483494	2.98661735
LIN7A	-0.37355467	0.02483494	-2.98655796
GNL3L	0.37347472	0.02487937	2.98581522
ZNF747	-0.37339392	0.02492443	-2.98506450
TLX1	-0.37336640	0.02493489	-2.98480892
TMEM67	0.37331258	0.02496246	2.98430895
RCL1	0.37328061	0.02496640	2.98401203
HAPLN4	-0.37327440	0.02496640	-2.98395435
LRP11	0.37327227	0.02496640	2.98393454
TBC1D24	-0.37323524	0.02498308	-2.98359058
TPSD1	-0.37319852	0.02499956	-2.98324957
AFAP1L2	-0.37314639	0.02502610	-2.98276545
RPS3	0.37312357	0.02502610	2.98255353
BTN1A1	-0.37312666	0.02502610	-2.98258226

RDM1	-0.37307495	0.02502618	-2.98210200	
OR2H1	-0.37308869	0.02502618	-2.98222961	
SNIP1	-0.37306647	0.02502618	-2.98202329	
STARD3NL	0.37310225	0.02502618	2.98235557	
NRG2	-0.37306645	0.02502618	-2.98202313	
LOXHD1	-0.37304354	0.02503317	-2.98181039	
RPL3	0.37303296	0.02503317	2.98171216	
HPR	-0.37296969	0.02506703	-2.98112466	
WFIKKN1	-0.37284603	0.02512054	-2.97997669	
KLK5	-0.37285650	0.02512054	-2.98007388	
FLJ26245	-0.37280817	0.02512054	-2.97962519	
NDUFB2	0.37281304	0.02512054	2.97967039	
LZTFL1	0.37285636	0.02512054	2.98007254	yes
CEP78	0.37281150	0.02512054	2.97965615	
ZCCHC3	-0.37283506	0.02512054	-2.97987488	
NTN3	-0.37278292	0.02512962	-2.97939082	
TMEM173	0.37275024	0.02514356	2.97908747	
VWCE	-0.37269128	0.02517473	-2.97854023	
SLC45A2	-0.37267748	0.02517633	-2.97841219	
OR4K13	-0.37258605	0.02522883	-2.97756372	
UNQ6193	-0.37254225	0.02525013	-2.97715720	
THRSP	-0.37250154	0.02526941	-2.97677952	
C1orf83	0.37246714	0.02527710	2.97646029	
FAM40B	-0.37247542	0.02527710	-2.97653715	
CREB3L3	-0.37244239	0.02528592	-2.97623065	
LOC100128979	-0.37242398	0.02529056	-2.97605990	
MAP1LC3C	-0.37240215	0.02529746	-2.97585732	
TAPT1	0.37237894	0.02530527	2.97564202	
DNAJA2	0.37232539	0.02532386	2.97514525	
C20orf135	-0.37231669	0.02532386	-2.97506452	
CDH22	-0.37232272	0.02532386	-2.97512043	
ABT1	0.37229491	0.02533074	2.97486248	
AIRE	-0.37225493	0.02533469	-2.97449164	

IFITM5	-0.37227481	0.02533469	-2.97467599	
NEDD8	0.37226363	0.02533469	2.97457233	
OTOP1	-0.37221382	0.02535432	-2.97411025	
USP21	0.37219246	0.02536094	2.97391213	
GFAP	-0.37202775	0.02541788	-2.97238462	
IL28B	-0.37207857	0.02541788	-2.97285587	
PRKAR2B	-0.37204976	0.02541788	-2.97258875	
SST	-0.37203455	0.02541788	-2.97244772	
MIS12	0.37201568	0.02541788	2.97227266	yes
KRT75	-0.37201655	0.02541788	-2.97228073	
COL23A1	-0.37203906	0.02541788	-2.97248948	
COX7A2L	0.37206631	0.02541788	2.97274224	
CEP110	0.37194455	0.02545740	2.97161312	
RNF215	-0.37188001	0.02547770	-2.97101475	
DKFZp434E1119	-0.37187999	0.02547770	-2.97101453	
C3orf51	-0.37188388	0.02547770	-2.97105065	
ETF1	0.37183405	0.02549315	2.97058865	
PON2	0.37183528	0.02549315	2.97060008	
CEACAM3	-0.37180306	0.02550620	-2.97030136	
PLSCR1	0.37177143	0.02551967	2.97000818	
GRIN2C	-0.37174187	0.02552133	-2.96973415	
ING3	0.37173512	0.02552133	2.96967154	
TBX19	-0.37173952	0.02552133	-2.96971237	
SEP12	-0.37169308	0.02553425	-2.96928185	
C1QL2	-0.37170121	0.02553425	-2.96935719	
SLFN13	0.37167006	0.02553669	2.96906847	
KRTAP4-2	-0.37166688	0.02553669	-2.96903902	
ESRRA	-0.37163555	0.02554487	-2.96874862	
GAMT	-0.37162050	0.02554487	-2.96860913	
FLJ35767	-0.37162950	0.02554487	-2.96869257	
HSD17B11	0.37160953	0.02554487	2.96850747	
IGF1R	0.37147613	0.02562411	2.96727120	
TCF15	-0.37146759	0.02562411	-2.96719206	

LXN	0.37140909	0.02565551	2.96665005	
FLJ41170	-0.37137542	0.02567044	-2.96633805	
GDF1	-0.37135837	0.02567430	-2.96618010	
BZRPL1	-0.37133076	0.02568520	-2.96592426	
RASAL1	-0.37126832	0.02571930	-2.96534576	
FKBP10	-0.37123735	0.02573245	-2.96505886	yes
FZD6	0.37118353	0.02576086	2.96456030	
NPPA	-0.37113692	0.02577750	-2.96412859	
PPOX	0.37113613	0.02577750	2.96412128	
EXPH5	0.37106570	0.02580875	2.96346897	yes
C2orf80	-0.37104446	0.02580875	-2.96327225	
CA9	-0.37105164	0.02580875	-2.96333876	
TIMD4	-0.37106936	0.02580875	-2.96350289	
HTR3E	-0.37096627	0.02585353	-2.96254819	
OR9I1	-0.37095483	0.02585369	-2.96244224	
FRMD1	-0.37093862	0.02585704	-2.96229207	
CTNNB1	0.37087771	0.02588280	2.96172812	
CARD14	-0.37088421	0.02588280	-2.96178825	
FAM171B	-0.37085112	0.02588649	-2.96148184	
ZCCHC13	-0.37084981	0.02588649	-2.96146976	
C3orf37	0.37083565	0.02588847	2.96133863	
PRPF8	0.37081734	0.02589119	2.96116907	
SUPV3L1	0.37080566	0.02589119	2.96106096	
SAP30	-0.37079801	0.02589119	-2.96099015	
BBS4	0.37077496	0.02589914	2.96077676	
ZNF584	0.37067452	0.02595900	2.95984689	
WNT3A	-0.37064582	0.02597075	-2.95958125	
VSX2	-0.37056344	0.02601861	-2.95881873	
CMIP	0.37050550	0.02605007	2.95828253	
MRGPRF	-0.37043749	0.02608835	-2.95765313	yes
FBXO21	0.37041631	0.02609510	2.95745709	
AIFM3	-0.37039790	0.02609998	-2.95728669	
FBXL13	0.37032976	0.02613087	2.95665622	

ASIP	-0.37033799	0.02613087	-2.95673240	
NNAT	-0.37030836	0.02613778	-2.95645819	
HSD17B4	0.37020386	0.02620086	2.95549134	
MKKS	0.37017318	0.02621406	2.95520755	
CNIH3	-0.37011449	0.02624624	-2.95466466	
C10orf25	-0.37000924	0.02631005	-2.95369116	
IMPG1	-0.36999005	0.02631550	-2.95351364	
COMMD7	0.36996576	0.02632298	2.95328894	
STEAP3	0.36995672	0.02632298	2.95320538	
LOC645805	0.36990355	0.02635153	2.95271364	
C1orf151	0.36988505	0.02635652	2.95254258	
TAC4	-0.36983565	0.02638253	-2.95208576	
HNRNPA3P1	-0.36979958	0.02639406	-2.95175221	
GLB1	0.36979642	0.02639406	2.95172299	
RESP18	-0.36972862	0.02643264	-2.95109613	
ACVRL1	-0.36968729	0.02645322	-2.95071404	yes
TEAD4	-0.36965730	0.02645848	-2.95043671	
ARHGAP18	0.36965909	0.02645848	2.95045327	
C15orf59	-0.36961056	0.02648277	-2.95000465	
CLRN1	-0.36958322	0.02649383	-2.94975189	
AJAP1	-0.36947304	0.02655392	-2.94873346	
ADCK4	0.36947611	0.02655392	2.94876185	
TXNDC9	0.36943654	0.02655803	2.94839616	
LRRC52	-0.36942732	0.02655803	-2.94831097	
NDUFA10	0.36941978	0.02655803	2.94824123	
IKBKAP	0.36942090	0.02655803	2.94825158	
GTF3C4	0.36941138	0.02655803	2.94816364	
COX4I2	-0.36939899	0.02655890	-2.94804912	
LMO1	-0.36937745	0.02656604	-2.94785002	
MED24	0.36934938	0.02657764	2.94759062	
CSNK1G1	0.36930890	0.02659775	2.94721659	
EXOSC1	0.36925275	0.02662861	2.94669775	
RNASE11	-0.36922203	0.02663444	-2.94641389	

TRO	-0.36922629	0.02663444	-2.94645321
C20orf173	-0.36916672	0.02666225	-2.94590287
C7orf66	-0.36915930	0.02666225	-2.94583427
C2orf37	0.36914369	0.02666534	2.94569006
TACR2	-0.36912506	0.02667051	-2.94551799
OR51A2	-0.36910852	0.02667425	-2.94536514
PARP4	0.36908505	0.02667513	2.94514834
RFX3	0.36909232	0.02667513	2.94521552
APOO	0.36905057	0.02669119	2.94482985
FLJ46300	-0.36901958	0.02669783	-2.94454352
UBR7	0.36901874	0.02669783	2.94453583
SNORD115-31	-0.36897999	0.02671217	-2.94417788
POP4	0.36894251	0.02671217	2.94383170
LOC100133418	-0.36894901	0.02671217	-2.94389173
TMEM111	0.36894491	0.02671217	2.94385386
CADM3	-0.36894470	0.02671217	-2.94385189
ALDOB	-0.36890897	0.02672762	-2.94352188
LOC729898	-0.36885502	0.02675711	-2.94302363
MVP	0.36883493	0.02676332	2.94283810
SEMA4G	-0.36882185	0.02676471	-2.94271731
CXorf25	-0.36878816	0.02678029	-2.94240620
SLC22A18AS	-0.36868441	0.02684418	-2.94144819
SORCS1	-0.36866306	0.02685128	-2.94125106
FLJ11235	-0.36859602	0.02688994	-2.94063208
SYP	-0.36857959	0.02689366	-2.94048038
TEKT5	-0.36854766	0.02690808	-2.94018568
FNTB	0.36852772	0.02691423	2.94000155
DECR1	0.36844790	0.02696182	2.93926476
TESSP2	-0.36842413	0.02697063	-2.93904536
SKI	-0.36839692	0.02697418	-2.93879421
MCEE	0.36840572	0.02697418	2.93887537
NUP50	0.36837667	0.02698057	2.93860728
TMEM224	-0.36832493	0.02699892	-2.93812972

LOC338797	-0.36831826	0.02699892	-2.93806820	
SLC7A10	-0.36830606	0.02699892	-2.93795563	
ST3GAL5	-0.36831052	0.02699892	-2.93799677	
FCF1	0.36826186	0.02702192	2.93754771	
SLC9A8	0.36823833	0.02703060	2.93733056	
AP3S2	0.36821009	0.02703276	2.93706998	
OLIG3	-0.36821597	0.02703276	-2.93712421	
VNN1	0.36820216	0.02703276	2.93699677	
KRT1	-0.36818681	0.02703577	-2.93685520	
HABP2	-0.36807649	0.02709926	-2.93583728	
DLGAP2	-0.36807338	0.02709926	-2.93580855	
MPN2	-0.36806030	0.02710070	-2.93568786	
TRIM2	0.36804227	0.02710558	2.93552153	yes
EGR3	-0.36801841	0.02711452	-2.93530140	
EVI1	0.36799136	0.02711966	2.93505188	yes
OR2A25	-0.36798902	0.02711966	-2.93503032	
WSCD1	-0.36796800	0.02712246	-2.93483639	
PARD6A	-0.36796302	0.02712246	-2.93479043	
LOC100133075	-0.36791505	0.02713988	-2.93434790	
NDUFB5	0.36790501	0.02713988	2.93425537	
HMP19	-0.36791812	0.02713988	-2.93437627	
TMEM135	0.36788647	0.02714514	2.93408432	
ACP6	0.36785590	0.02715878	2.93380236	
ASTL	-0.36779204	0.02718824	-2.93321341	
ZFYVE1	0.36779165	0.02718824	2.93320981	
SPRED3	-0.36769267	0.02724197	-2.93229692	
SCNN1B	0.36769784	0.02724197	2.93234463	
KIAA0146	0.36765594	0.02725995	2.93195827	
OLIG2	-0.36763795	0.02726485	-2.93179236	
ACO2	0.36760328	0.02728142	2.93147265	
PLCB1	-0.36758176	0.02728879	-2.93127427	
PDZD3	-0.36752979	0.02731747	-2.93079507	
ARSF	-0.36751443	0.02732055	-2.93065348	

AWAT1	-0.36748950	0.02733032	-2.93042368	
CBFB	0.36743888	0.02735810	2.92995694	yes
MYO1A	-0.36741201	0.02736925	-2.92970924	
NPVF	-0.36739760	0.02737167	-2.92957642	
FAM58B	-0.36737166	0.02737449	-2.92933737	
CNOT6LP1	-0.36737414	0.02737449	-2.92936022	
RP11-191L9.1	-0.36734421	0.02737840	-2.92908427	
CALY	-0.36734964	0.02737840	-2.92913435	
TERF2IP	0.36727740	0.02740223	2.92846850	
PSPH	0.36728167	0.02740223	2.92850783	
JPH4	-0.36727790	0.02740223	-2.92847314	
SOCS7	-0.36725360	0.02741125	-2.92824915	
PPP1R13L	-0.36721316	0.02742452	-2.92787649	
ANXA11	0.36721284	0.02742452	2.92787347	
CALCB	-0.36718627	0.02743549	-2.92762866	
TSEN2	0.36716834	0.02744041	2.92746339	
MSX2	-0.36713685	0.02745485	-2.92717321	
ART5	-0.36711162	0.02745724	-2.92694072	
SRF	-0.36712249	0.02745724	-2.92704092	
FAM187B	-0.36707368	0.02746692	-2.92659115	
FAM149B1	0.36706677	0.02746692	2.92652743	yes
NPLOC4	0.36706510	0.02746692	2.92651204	
LOC100128510	0.36699351	0.02747127	2.92585245	
OR5I1	-0.36703962	0.02747127	-2.92627732	
NUP88	0.36701283	0.02747127	2.92603042	
SLC6A7	-0.36700136	0.02747127	-2.92592473	
DOHH	-0.36701813	0.02747127	-2.92607928	
CDKL1	0.36700687	0.02747127	2.92597556	
S1PR2	-0.36694675	0.02748882	-2.92542166	
ZNF432	0.36695047	0.02748882	2.92545591	
TIGD3	-0.36688799	0.02752248	-2.92488031	
KIF2B	-0.36685851	0.02753556	-2.92460875	
KRT85	-0.36683247	0.02754623	-2.92436886	

DCD	-0.36680745	0.02755618	-2.92413844
UXT	0.36675943	0.02758235	2.92369611
FAM159B	-0.36674741	0.02758315	-2.92358539
SLC7A9	-0.36673024	0.02758759	-2.92342720
C20orf197	-0.36670337	0.02759886	-2.92317981
PRRT2	-0.36668581	0.02760358	-2.92301807
LYSMD2	-0.36664484	0.02762482	-2.92264071
COL8A1	-0.36659582	0.02765174	-2.92218931
NPSR1	-0.36655327	0.02765878	-2.92179752
ZNF213	-0.36656213	0.02765878	-2.92187905
GADD45GIP1	-0.36656432	0.02765878	-2.92189928
HSP90AB1	0.36651975	0.02766136	2.92148885
PFN2	0.36651567	0.02766136	2.92145126
WDFY1	0.36653681	0.02766136	2.92164591
KCNK15	-0.36650620	0.02766136	-2.92136408
SLFN5	0.36649055	0.02766476	2.92121995
MYO3B	-0.36643530	0.02768847	-2.92071131
FAM40A	0.36643634	0.02768847	2.92072081
TBX15	-0.36638543	0.02770997	-2.92025214
GRRP1	-0.36638321	0.02770997	-2.92023170
PRLHR	-0.36627303	0.02775583	-2.91921743
HMX2	-0.36625344	0.02775583	-2.91903714
C9orf46	0.36624854	0.02775583	2.91899198
TMEM126B	0.36624307	0.02775583	2.91894161
LOC642648	-0.36627401	0.02775583	-2.91922649
CCDC154	-0.36624259	0.02775583	-2.91893722
C6orf208	-0.36628091	0.02775583	-2.91929000
PTPRQ	-0.36620028	0.02776282	-2.91854778
TMBIM6	0.36620731	0.02776282	2.91861251
FAM113B	-0.36621890	0.02776282	-2.91871921
GLDC	-0.36615443	0.02778351	-2.91812584
GTF3A	0.36614944	0.02778351	2.91807991
ANO4	-0.36610668	0.02778907	-2.91768638

LOC441931	-0.36608758	0.02778907	-2.91751058	
DEFB137	-0.36610961	0.02778907	-2.91771329	
ERI3	0.36608871	0.02778907	2.91752098	
ADAMTS4	-0.36610489	0.02778907	-2.91766983	
PXDNL	-0.36605040	0.02780777	-2.91716844	
SUCLG2	0.36600809	0.02783012	2.91677909	
AMELY	-0.36597614	0.02784513	-2.91648510	
FSCN2	-0.36595706	0.02785102	-2.91630950	
HSD3B1	-0.36592601	0.02785352	-2.91602380	
PFKFB2	0.36594027	0.02785352	2.91615508	
BOLL	-0.36592118	0.02785352	-2.91597940	
MED28	0.36587856	0.02787613	2.91558725	
MFSD1	0.36586612	0.02787731	2.91547285	
EBF1	-0.36583234	0.02787873	-2.91516200	yes
ABC9	-0.36577834	0.02787873	-2.91466524	
FAM171A2	-0.36575636	0.02787873	-2.91446302	
RGSL1	-0.36577141	0.02787873	-2.91460154	
VIT	-0.36583158	0.02787873	-2.91515501	
CXCL5	-0.36576710	0.02787873	-2.91456187	
TCTA	0.36582462	0.02787873	2.91509099	
ANKDD1B	0.36579123	0.02787873	2.91478383	
OR1E2	-0.36574573	0.02787873	-2.91436531	
ZNF598	-0.36578486	0.02787873	-2.91472526	
FOXP2	0.36580833	0.02787873	2.91494117	
C14orf178	-0.36572242	0.02787957	-2.91415089	
TNFRSF4	-0.36570375	0.02787957	-2.91397914	
EPC1	0.36570158	0.02787957	2.91395917	
TM9SF2	0.36572535	0.02787957	2.91417777	
C7orf63	0.36567139	0.02789339	2.91368143	
IFT172	0.36564170	0.02789922	2.91340838	
OR52N2	-0.36564613	0.02789922	-2.91344909	
MRVI1	-0.36555736	0.02792105	-2.91263268	
STAG3	-0.36560023	0.02792105	-2.91302696	

SLC38A3	-0.36556431	0.02792105	-2.91269662	
FAM179B	0.36556690	0.02792105	2.91272044	
METTL10	0.36557943	0.02792105	2.91283565	
FAM69A	0.36552179	0.02793871	2.91230558	
MSI2	0.36550356	0.02794406	2.91213795	
WDR51B	0.36548213	0.02795168	2.91194088	yes
UNC5C	-0.36545419	0.02796393	-2.91168397	
TET1	-0.36542168	0.02797945	-2.91138502	
KRTAP3-3	-0.36540450	0.02798406	-2.91122704	
LIX1L	-0.36534590	0.02801818	-2.91068826	yes
OR51F2	-0.36532529	0.02802524	-2.91049874	
GPR120	-0.36529265	0.02804088	-2.91019866	
ROM1	-0.36523594	0.02807371	-2.90967737	
CDH29	0.36519844	0.02809285	2.90933256	
FCAMR	-0.36516512	0.02810901	-2.90902632	
GPC6	-0.36512124	0.02813273	-2.90862294	
VAMP2	-0.36508023	0.02815441	-2.90824609	
CD58	0.36506113	0.02816043	2.90807051	
C10orf139	-0.36504993	0.02816080	-2.90796758	
SLC4A9	-0.36502698	0.02816957	-2.90775666	
FIZ1	-0.36500746	0.02817590	-2.90757722	
ELK3	0.36494105	0.02820816	2.90696697	
C9orf123	0.36494631	0.02820816	2.90701526	
USF2	-0.36492500	0.02821202	-2.90681942	
FAM180B	-0.36491169	0.02821390	-2.90669712	
RAC3	-0.36489946	0.02821502	-2.90658474	
BGLAP	-0.36488811	0.02821550	-2.90648048	
C20orf141	-0.36484041	0.02824205	-2.90604220	
C12orf34	-0.36477901	0.02827846	-2.90547805	
PTCHD1	-0.36476746	0.02827909	-2.90537194	
TLL4	0.36473583	0.02829415	2.90508133	
FAM164A	0.36471755	0.02829962	2.90491342	
TMEM136	0.36467860	0.02831995	2.90455555	

ACBD5	0.36465678	0.02832798	2.90435510	
C9orf50	-0.36462246	0.02832967	-2.90403990	
MPP2	-0.36462432	0.02832967	-2.90405691	yes
CCL3	-0.36463251	0.02832967	-2.90413217	
LOC728606	-0.36459195	0.02834395	-2.90375966	
PLCXD3	-0.36456842	0.02835322	-2.90354352	
SGCZ	-0.36455429	0.02835572	-2.90341374	
SALL2	-0.36454012	0.02835826	-2.90328357	
WNT10B	-0.36451603	0.02836795	-2.90306225	
LOC100131928	-0.36449065	0.02837613	-2.90282920	
ZNF271	0.36447911	0.02837613	2.90272317	
RXFP2	-0.36441960	0.02837613	-2.90217671	
KIAA1949	-0.36444326	0.02837613	-2.90239393	
FKBP1B	-0.36444053	0.02837613	-2.90236894	
MYO7B	-0.36446052	0.02837613	-2.90255252	yes
PACS1	-0.36442005	0.02837613	-2.90218086	
KIAA1239	-0.36445522	0.02837613	-2.90250377	
OR9K2	-0.36439764	0.02838285	-2.90197500	
NLGN3	-0.36438904	0.02838285	-2.90189600	
ZXDA	-0.36435509	0.02839965	-2.90158432	
PHLDA1	-0.36431938	0.02841773	-2.90125638	
RGS16	-0.36428902	0.02843196	-2.90097760	
PDGFRL	-0.36424533	0.02845581	-2.90057652	
MKS1	0.36423180	0.02845793	2.90045226	
TMEM5	0.36419974	0.02846120	2.90015794	
SPERT	-0.36419546	0.02846120	-2.90011859	
VILL	0.36420499	0.02846120	2.90020609	
OR13F1	-0.36414697	0.02848854	-2.89967341	
CHIC2	0.36412575	0.02849073	2.89947861	
MLNR	-0.36412275	0.02849073	-2.89945106	
SLC17A4	-0.36409175	0.02849781	-2.89916657	
LCE1E	-0.36409518	0.02849781	-2.89919798	
LOC51145	-0.36404444	0.02852435	-2.89873224	

HBM	-0.36400482	0.02853003	-2.89836859	
ZNF219	-0.36401351	0.02853003	-2.89844835	
GDAP1	0.36401923	0.02853003	2.89850081	
ATCD1	-0.36396641	0.02854819	-2.89801606	
LOC728196	0.36395854	0.02854819	2.89794380	
ARG1	-0.36392804	0.02855362	-2.89766387	
hCG_1659830	-0.36391932	0.02855362	-2.89758384	
CAMK2B	-0.36392217	0.02855362	-2.89761005	
FLJ40125	-0.36388151	0.02857333	-2.89723682	
NPAS4	-0.36379990	0.02862100	-2.89648798	
SYN2	-0.36379454	0.02862100	-2.89643875	
CHCHD4	-0.36371950	0.02864477	-2.89575019	
NP	0.36372066	0.02864477	2.89576089	
SMTN	-0.36373998	0.02864477	-2.89593817	yes
WDR54	0.36372726	0.02864477	2.89582139	
FUT4	-0.36369879	0.02865213	-2.89556019	
BCL6B	-0.36360213	0.02871004	-2.89467340	
KCNH6	-0.36359789	0.02871004	-2.89463454	
OR52K2	-0.36357391	0.02871980	-2.89441454	
MAPK10	0.36355259	0.02872763	2.89421894	
CREG2	-0.36353968	0.02872935	-2.89410046	
LPA	-0.36350705	0.02874540	-2.89380120	
SLC7A3	-0.36348536	0.02875351	-2.89360226	
LOC346329	-0.36345914	0.02875579	-2.89336177	
PSPN	-0.36346069	0.02875579	-2.89337592	
HN1L	0.36345061	0.02875579	2.89328351	
SLC19A3	-0.36342617	0.02876590	-2.89305934	
LOC100133131	-0.36338158	0.02879069	-2.89265032	
LOC124220	-0.36336152	0.02879242	-2.89246640	yes
POU5F2	-0.36333193	0.02879242	-2.89219499	
ACOT12	-0.36334487	0.02879242	-2.89231369	
AOF2	0.36332832	0.02879242	2.89216193	
ATP1A3	-0.36332659	0.02879242	-2.89214602	

AKT1S1	-0.36331439	0.02879364	-2.89203419	
QRFP	-0.36319079	0.02887605	-2.89090075	
LOC100131112	-0.36309968	0.02893491	-2.89006536	
C20orf165	-0.36307856	0.02893498	-2.88987174	
HEATR5A	0.36308326	0.02893498	2.88991488	
TEPP	-0.36306191	0.02893946	-2.88971910	
NRD1	0.36304291	0.02894567	2.88954496	
TNS3	-0.36302266	0.02895279	-2.88935933	
TDRD12	-0.36300768	0.02895606	-2.88922200	
WRNIP1	0.36298972	0.02896152	2.88905735	
PLA2G4D	-0.36295930	0.02897609	-2.88877850	
PAX3	-0.36294676	0.02897759	-2.88866352	
OR51L1	-0.36289394	0.02898692	-2.88817936	
COPG2	0.36289987	0.02898692	2.88823371	
NXPH1	-0.36288856	0.02898692	-2.88813002	
PRKCG	-0.36291491	0.02898692	-2.88837155	
DIRC2	0.36288155	0.02898692	2.88806581	
DACH1	-0.36285972	0.02899223	-2.88786573	
OR6Q1	-0.36285233	0.02899223	-2.88779802	
LMOD1	-0.36284285	0.02899223	-2.88771109	
PCDHAC2	-0.36280354	0.02901334	-2.88735084	
ZNF776	0.36277325	0.02902785	2.88707323	
ARHGEF10	-0.36275183	0.02903587	-2.88687697	
RINL	-0.36263828	0.02908842	-2.88583640	
GATA2	-0.36266007	0.02908842	-2.88603611	
FLJ45717	-0.36265759	0.02908842	-2.88601339	
RFX4	-0.36264497	0.02908842	-2.88589772	
RMI1	0.36257608	0.02912641	2.88526648	
TOMM34	0.36251536	0.02916334	2.88471023	yes
LOC100133364	-0.36249221	0.02917268	-2.88449809	
LGI1	-0.36247571	0.02917712	-2.88434697	
KCNS2	-0.36243214	0.02920149	-2.88394779	
ARL6	0.36238371	0.02922945	2.88350423	

POLR3F	0.36233385	0.02925018	2.88304752	
RP11-529I10.4	0.36232037	0.02925018	2.88292403	
PBRM1	0.36232100	0.02925018	2.88292982	yes
PHYHIPL	-0.36231377	0.02925018	-2.88286358	
LRRC37B	0.36229209	0.02925082	2.88266502	
PDZD7	-0.36229200	0.02925082	-2.88266421	
IGDCC4	-0.36227845	0.02925312	-2.88254009	
EYA4	0.36225116	0.02925619	2.88229017	
TCF7L2	-0.36224840	0.02925619	-2.88226492	
SLC14A2	-0.36224297	0.02925619	-2.88221518	
SLC35A5	0.36222877	0.02925897	2.88208506	
STAR	-0.36221624	0.02926051	-2.88197035	
GPR20	-0.36218017	0.02927173	-2.88164005	
CAPS	0.36218043	0.02927173	2.88164240	
NDUFS1	0.36214404	0.02929069	2.88130921	
PDE6H	-0.36208121	0.02932938	-2.88073384	
KPNA1	0.36206226	0.02933567	2.88056033	
SDK1	0.36205089	0.02933638	2.88045623	
AP2B1	0.36203826	0.02933801	2.88034055	
RNF112	-0.36196884	0.02938162	-2.87970503	
GOLT1A	-0.36195560	0.02938372	-2.87958379	
KRTAP5-11	-0.36192867	0.02939594	-2.87933721	
NFE2	-0.36190612	0.02940492	-2.87913080	yes
RAB11FIP5	-0.36188869	0.02941012	-2.87897122	
SERPINA11	-0.36185662	0.02942430	-2.87867766	
PILRA	-0.36184872	0.02942430	-2.87860536	
CHCHD1	0.36182420	0.02943475	2.87838094	
PARP1	0.36180642	0.02943525	2.87821815	
OTUD7A	-0.36179234	0.02943525	-2.87808932	
DPF1	-0.36180217	0.02943525	-2.87817928	
LOC653808	-0.36176176	0.02945020	-2.87780941	
EFHC1	0.36173777	0.02945309	2.87758978	
ANK1	-0.36173709	0.02945309	-2.87758358	

TRYX3	-0.36162091	0.02951614	-2.87652031	
IL1RAPL2	-0.36162376	0.02951614	-2.87654638	
TAAR6	-0.36162401	0.02951614	-2.87654870	
OR4P4	-0.36158787	0.02953296	-2.87621795	
LOC100133383	-0.36152282	0.02955044	-2.87562274	
APPBP2	0.36152343	0.02955044	2.87562834	
FTCD	-0.36154794	0.02955044	-2.87585261	
TRIM4	0.36152451	0.02955044	2.87563818	
KCNK10	-0.36150416	0.02955660	-2.87545197	
ZFYVE16	0.36142199	0.02960998	2.87470022	
RPS6KA6	0.36140578	0.02961433	2.87455187	
ADAMTS15	-0.36132571	0.02966625	-2.87381935	
MASP2	-0.36129152	0.02966731	-2.87350662	
POLA2	0.36125176	0.02966731	2.87314292	
TAS2R41	-0.36128189	0.02966731	-2.87341851	
ZC3HAV1	0.36125270	0.02966731	2.87315149	
PTPRA	0.36126419	0.02966731	2.87325659	
RPS11P5	0.36130560	0.02966731	2.87363543	
TUSC3	0.36128270	0.02966731	2.87342592	
TRIML1	-0.36122942	0.02967624	-2.87293858	
ACYP1	0.36116668	0.02971532	2.87236473	
COPS4	0.36110600	0.02974103	2.87180980	
PLEKHA5	0.36109085	0.02974103	2.87167121	
FSTL5	-0.36110080	0.02974103	-2.87176222	
XPO1	0.36110639	0.02974103	2.87181338	
SBK2	-0.36105009	0.02976375	-2.87129846	
SPRR4	-0.36095604	0.02980229	-2.87043848	
OR5B12	-0.36096346	0.02980229	-2.87050632	
TMEM184C	0.36094686	0.02980229	2.87035452	
GPR158	-0.36094914	0.02980229	-2.87037542	
AP3B2	-0.36097627	0.02980229	-2.87062341	
KIAA1045	-0.36090211	0.02982804	-2.86994540	yes
DHCR24	0.36088292	0.02983467	2.86976996	

HECW1	-0.36081395	0.02987086	-2.86913937	
MRGPRG	-0.36081951	0.02987086	-2.86919016	
NKAIN3	-0.36079169	0.02987981	-2.86893585	
SRGAP2P2	0.36076201	0.02989432	2.86866456	
KIAA1012	0.36069168	0.02993160	2.86802163	yes
USP38	0.36069433	0.02993160	2.86804587	yes
LOC730241	-0.36066257	0.02994570	-2.86775561	
C11orf1	0.36056933	0.03000802	2.86690336	
OR1C1	-0.36053054	0.03002617	-2.86654888	
APCS	-0.36052459	0.03002617	-2.86649447	
CLDND2	-0.36049902	0.03002752	-2.86626087	
TRBV5-1	-0.36049186	0.03002752	-2.86619542	
ZNF799	0.36050689	0.03002752	2.86633273	
LGALS14	-0.36047218	0.03003458	-2.86601558	
XRCC6	0.36040762	0.03007490	2.86542562	
ADAMTS12	-0.36039803	0.03007490	-2.86533800	
CNOT1	0.36036243	0.03009397	2.86501269	yes
SLC7A13	-0.36033740	0.03010508	-2.86478404	
KIF7	-0.36030083	0.03012489	-2.86444993	
PPY2	-0.36028618	0.03012818	-2.86431611	
GINS2	-0.36026585	0.03013576	-2.86413029	
MCRS1	0.36021232	0.03016840	2.86364130	
IER5L	-0.36014639	0.03019490	-2.86303908	
PLAGL2	0.36016003	0.03019490	2.86316365	
NPDC1	-0.36015141	0.03019490	-2.86308486	yes
EOMES	-0.36012365	0.03020432	-2.86283133	
LOC100132564	-0.36006821	0.03020530	-2.86232495	
KLF2	-0.36008462	0.03020530	-2.86247484	
DDIT4L	-0.35998890	0.03020530	-2.86160061	
COL1A1	-0.36002657	0.03020530	-2.86194464	
ENPP6	-0.36005718	0.03020530	-2.86222417	
CRYAA	-0.36000129	0.03020530	-2.86171375	
AWAT2	-0.35999878	0.03020530	-2.86169084	

GRM4	-0.36003137	0.03020530	-2.86198848	
SLC22A25	-0.35999008	0.03020530	-2.86161139	
PRPS2	0.36002376	0.03020530	2.86191897	
PMEPA1	-0.36002382	0.03020530	-2.86191949	
FSD1	-0.36009760	0.03020530	-2.86259340	
PIF1	-0.36006687	0.03020530	-2.86231273	
TSN	0.35994865	0.03022797	2.86123307	
C19orf40	-0.35989718	0.03025916	-2.86076297	
ALDH2	0.35985247	0.03028343	2.86035477	
TMEM52	-0.35983875	0.03028343	-2.86022947	
A2LD1	-0.35983438	0.03028343	-2.86018958	
TTC26	0.35982191	0.03028512	2.86007569	
EMILIN3	-0.35977138	0.03031046	-2.85961432	yes
FGF19	-0.35976798	0.03031046	-2.85958333	
EYA1	0.35974819	0.03031771	2.85940258	
TTYH3	-0.35972891	0.03032456	-2.85922658	
SPATA22	-0.35970637	0.03033389	-2.85902081	
LCLAT1	0.35967395	0.03034296	2.85872487	
OR51G1	-0.35968343	0.03034296	-2.85881143	
HMGCS2	-0.35966370	0.03034298	-2.85863129	
FOXD4	-0.35961153	0.03037481	-2.85815502	
BATF2	-0.35958246	0.03038912	-2.85788963	
C3orf46	-0.35955994	0.03039053	-2.85768412	
REXO2	0.35954994	0.03039053	2.85759286	
C9orf6	0.35956928	0.03039053	2.85776935	yes
SLC27A5	-0.35943427	0.03042631	-2.85653713	
DCTD	0.35942530	0.03042631	2.85645524	
MYCBP	0.35942949	0.03042631	2.85649350	
RP3-377H14.5	-0.35942125	0.03042631	-2.85641831	
LCN9	-0.35942118	0.03042631	-2.85641768	
FLJ45983	-0.35948522	0.03042631	-2.85700213	
C9orf156	0.35947663	0.03042631	2.85692372	
EDA2R	-0.35943147	0.03042631	-2.85651157	

HARS	0.35937946	0.03045027	2.85603695	
SPINK5L2	-0.35936096	0.03045660	-2.85586805	
A2BP1	-0.35931259	0.03048564	-2.85542670	
LOC100128550	-0.35924676	0.03051832	-2.85482604	
LOC100133403	-0.35924324	0.03051832	-2.85479389	
CAMTA1	-0.35923910	0.03051832	-2.85475611	
hCG_2004198	-0.35920978	0.03053289	-2.85448863	
OMA1	0.35916852	0.03055658	2.85411220	yes
ECH1	0.35913632	0.03057337	2.85381844	
NLRP7	-0.35911631	0.03058087	-2.85363588	
PYDC1	-0.35909636	0.03058833	-2.85345385	
THEM2	0.35906804	0.03060218	2.85319549	
EPB42	-0.35904139	0.03060831	-2.85295238	
PSG2	-0.35903965	0.03060831	-2.85293655	
TSHB	-0.35901923	0.03061613	-2.85275026	
C3orf20	-0.35899729	0.03062512	-2.85255016	
ZBTB47	-0.35891992	0.03067649	-2.85184442	
ACTN4	0.35889821	0.03068532	2.85164644	
HSPA12B	-0.35885158	0.03069259	-2.85122113	
KLHDC2	0.35886047	0.03069259	2.85130221	
HSP90AA1	0.35884805	0.03069259	2.85118899	
SETD4	0.35885444	0.03069259	2.85124722	
PCOLCE2	-0.35882925	0.03069921	-2.85101752	
C3orf60	0.35881808	0.03069998	2.85091569	
NSUN3	0.35872748	0.03076160	2.85008948	
PSMA2	0.35870729	0.03076929	2.84990541	
ZFYVE28	-0.35866706	0.03079237	-2.84953855	
SAR1P3	-0.35865488	0.03079392	-2.84942754	
RORB	-0.35858228	0.03084187	-2.84876562	
TMEM217	-0.35854438	0.03085077	-2.84842007	
RALY	0.35853011	0.03085077	2.84829001	
C17orf66	-0.35853205	0.03085077	-2.84830773	
WDR26	0.35854857	0.03085077	2.84845831	yes

CHRN1	-0.35847660	0.03086107	-2.84780220
ZNF320	0.35848817	0.03086107	2.84790769
DNAJC15	0.35847616	0.03086107	2.84779824
PRPSAP2	0.35850291	0.03086107	2.84804206
TMEM170A	0.35837166	0.03091057	2.84684566
CRY1	0.35837920	0.03091057	2.84691442
C19orf26	-0.35837127	0.03091057	-2.84684216
KCNQ3	-0.35839880	0.03091057	-2.84709305
TMEM41B	0.35833924	0.03092743	2.84655025
RPP14	0.35824222	0.03095489	2.84566601
PYDC2	-0.35826649	0.03095489	-2.84588723
CBX5	0.35822867	0.03095489	2.84554250
ZNF780A	0.35821255	0.03095489	2.84539566
SEP3	-0.35821867	0.03095489	-2.84545145
ACTG1	0.35828019	0.03095489	2.84601208
TLE6	-0.35821943	0.03095489	-2.84545830
PRAM1	-0.35829024	0.03095489	-2.84610367
C14orf56	-0.35823889	0.03095489	-2.84563566
OR10C1	-0.35818725	0.03096659	-2.84516513
C18orf23	-0.35811018	0.03098747	-2.84446284
SSPO	-0.35812501	0.03098747	-2.84459794
GTF2A1	0.35812142	0.03098747	2.84456526
TMCO1	0.35812165	0.03098747	2.84456735
TFAP2D	-0.35810966	0.03098747	-2.84445811
CMPK1	0.35808745	0.03099681	2.84425577
ELP2	0.35803256	0.03102106	2.84375561
MRPS25	0.35802574	0.03102106	2.84369353
SEC16B	-0.35802994	0.03102106	-2.84373173
SLC20A2	0.35799214	0.03103418	2.84338740
SYNPO2L	-0.35798857	0.03103418	-2.84335487
KPNA3	0.35791929	0.03107989	2.84272377
FLVCR1	0.35789643	0.03108198	2.84251549
DDX4	-0.35790231	0.03108198	-2.84256912

KCNRG	0.35785827	0.03110369	2.84216789	
MED19	-0.35781673	0.03110465	-2.84178957	
RASD2	-0.35781704	0.03110465	-2.84179242	
POLR2C	0.35782520	0.03110465	2.84186675	
PTH1R	-0.35781700	0.03110465	-2.84179199	
NEFH	-0.35779594	0.03111294	-2.84160025	
SNORA38B	-0.35774741	0.03112134	-2.84115823	
KRT25	-0.35775453	0.03112134	-2.84122309	
SLC39A12	-0.35777166	0.03112134	-2.84137912	
SYCN	-0.35774484	0.03112134	-2.84113477	
MMP20	-0.35769327	0.03114582	-2.84066519	
CDC25B	-0.35769308	0.03114582	-2.84066340	
NAT11	0.35765485	0.03115207	2.84031525	
PAAF1	0.35767422	0.03115207	2.84049172	
CD38	0.35766319	0.03115207	2.84039122	
FABP12	-0.35762154	0.03117007	-2.84001195	
ACOT9	0.35760317	0.03117319	2.83984472	
KCNN4	-0.35758971	0.03117319	-2.83972214	
RGS9	-0.35758739	0.03117319	-2.83970098	
AQP4	0.35757698	0.03117347	2.83960621	
ABTB2	-0.35756223	0.03117712	-2.83947192	
FAM108B1	0.35751756	0.03120112	2.83906521	
CACNA1F	-0.35751118	0.03120112	-2.83900708	
KLHDC3	0.35741480	0.03123862	2.83812965	
C7orf45	-0.35744679	0.03123862	-2.83842086	
C2CD3	0.35741265	0.03123862	2.83811010	
ZNF445	0.35741404	0.03123862	2.83812274	
FKSG83	-0.35741924	0.03123862	-2.83817008	
PRPS1L1	-0.35737551	0.03125362	-2.83777198	
SIRT5	0.35737327	0.03125362	2.83775152	
DUSP14	0.35731280	0.03126609	2.83720109	
MGC52282	-0.35731621	0.03126609	-2.83723217	
MUC15	0.35733642	0.03126609	2.83741615	yes

C9orf141	-0.35730018	0.03126609	-2.83708624	
KRTAP20-1	-0.35729712	0.03126609	-2.83705834	
RFC2	0.35732705	0.03126609	2.83733083	
RPL23AP37	-0.35719037	0.03133344	-2.83608677	
SUPT7L	0.35719496	0.03133344	2.83612851	
BBS12	0.35715544	0.03135282	2.83576892	
ATP2A1	-0.35713977	0.03135722	-2.83562630	
C8orf76	0.35709474	0.03138448	2.83521649	
CP	0.35703291	0.03141369	2.83465381	
TMEM218	0.35701722	0.03141369	2.83451111	
RSPO1	-0.35701945	0.03141369	-2.83453133	
SLC17A6	-0.35703331	0.03141369	-2.83465747	
OPALIN	-0.35699614	0.03142234	-2.83431925	
SLC25A24	0.35694537	0.03143568	2.83385729	
OR52A5	-0.35693906	0.03143568	-2.83379995	
RENBP	-0.35696087	0.03143568	-2.83399835	
BCL11B	-0.35694803	0.03143568	-2.83388149	
FLJ25758	-0.35692376	0.03143982	-2.83366075	
DHRS9	0.35681503	0.03150069	2.83267149	yes
PRSS33	-0.35680662	0.03150069	-2.83259505	
GFRAL	-0.35680835	0.03150069	-2.83261075	
SYVN1	-0.35680580	0.03150069	-2.83258755	
GYPB	-0.35675743	0.03153066	-2.83214757	
WDR42B	-0.35671737	0.03155417	-2.83178314	
FGGY	0.35667778	0.03157732	2.83142312	
SNORA80	-0.35665405	0.03158809	-2.83120723	
OXNAD1	0.35659179	0.03162901	2.83064104	yes
LOC400891	0.35657027	0.03163806	2.83044530	
PPP1R15B	0.35655322	0.03164360	2.83029027	
IL17RB	-0.35649605	0.03166610	-2.82977037	
OR5AC2	-0.35649389	0.03166610	-2.82975069	
CARS	0.35650290	0.03166610	2.82983264	
CLOCK	0.35648467	0.03166610	2.82966685	

KRTAP5-10	-0.35645878	0.03167859	-2.82943140
ALK	-0.35642627	0.03169627	-2.82913587
ECEL1	-0.35637398	0.03172950	-2.82866036
UTS2	-0.35632316	0.03175902	-2.82819836
SLC12A2	-0.35631648	0.03175902	-2.82813761
ZNF396	0.35630421	0.03176084	2.82802604
NT5DC4	-0.35627033	0.03177965	-2.82771802
SDR42E1	0.35624637	0.03179066	2.82750025
FES	-0.35623605	0.03179096	-2.82740643
LOC100128225	-0.35615937	0.03184226	-2.82670943
LOC25845	-0.35614746	0.03184226	-2.82660116
LIPA	0.35613191	0.03184226	2.82645978
ASH2L	0.35613108	0.03184226	2.82645228
TERT	-0.35607858	0.03187578	-2.82597511
TLL1	0.35604924	0.03188276	2.82570839
NOL9	0.35603992	0.03188276	2.82562377
WDR22	0.35604614	0.03188276	2.82568023
CBLN2	-0.35597684	0.03192023	-2.82505042
TREML4	-0.35597255	0.03192023	-2.82501147
LOC389634	-0.35595827	0.03192366	-2.82488170
OR2M4	-0.35593718	0.03193247	-2.82469007
C13orf35	-0.35588313	0.03196730	-2.82419887
DHRS3	0.35584074	0.03198511	2.82381370
C14orf2	0.35584830	0.03198511	2.82388246
PEX11B	0.35582448	0.03199012	2.82366599
CCDC56	0.35575723	0.03202761	2.82305499
SPRR2F	-0.35576701	0.03202761	-2.82314382
LOC441179	-0.35570595	0.03206034	-2.82258913
MRS2	0.35569070	0.03206456	2.82245061
ACMSD	-0.35567424	0.03206683	-2.82230110
RPS25	0.35564821	0.03206683	2.82206457
SLC44A4	0.35565570	0.03206683	2.82213259
SYT16	-0.35565907	0.03206683	-2.82216322

C20orf94	0.35563589	0.03206874	2.82195272	
PLEKHG4B	-0.35560896	0.03208223	-2.82170801	
DERA	0.35557923	0.03209009	2.82143803	
TRIM17	-0.35558743	0.03209009	-2.82151251	
PRPH2	-0.35554960	0.03210573	-2.82116890	
TAAR1	-0.35552479	0.03211755	-2.82094351	
CPA5	-0.35549901	0.03213015	-2.82070934	
OR2B11	-0.35546264	0.03213547	-2.82037903	yes
NPPC	-0.35547216	0.03213547	-2.82046552	
TH1L	0.35547722	0.03213547	2.82051152	
GBA3	-0.35544486	0.03214172	-2.82021762	
GRIN2A	-0.35540139	0.03216836	-2.81982284	
RPL10L	-0.35537301	0.03217486	-2.81956509	
GAST	-0.35536933	0.03217486	-2.81953170	
SCP2	0.35535370	0.03217486	2.81938976	
GTF3C3	0.35535820	0.03217486	2.81943061	
SMAD7	-0.35529358	0.03221475	-2.81884387	
KCNK1	0.35524694	0.03224397	2.81842038	
TSPYL2	-0.35522585	0.03225289	-2.81822887	
NKAIN4	-0.35515006	0.03229748	-2.81754080	
C20orf3	0.35515112	0.03229748	2.81755042	
ENPP4	0.35513504	0.03230159	2.81740439	
LY6K	-0.35509653	0.03232440	-2.81705480	
IFNAR1	0.35496052	0.03242502	2.81582021	
CIAO1	0.35489717	0.03246775	2.81524530	
MYOZ2	-0.35487490	0.03247768	-2.81504313	
NLRP6	-0.35483596	0.03248724	-2.81468982	
GNG3	-0.35485014	0.03248724	-2.81481843	
SLC25A40	0.35483336	0.03248724	2.81466616	
FBXO3	0.35477693	0.03252451	2.81415408	
LRRC9	-0.35476152	0.03252896	-2.81401431	
MAG	-0.35473945	0.03253874	-2.81381398	
ZNF611	0.35471191	0.03255291	2.81356408	

SLC5A11	-0.35469484	0.03255869	-2.81340924
NDUFAF1	0.35458164	0.03261789	2.81238220
PSMD4	0.35458916	0.03261789	2.81245046
LOC645877	-0.35458863	0.03261789	-2.81244561
KLF9	-0.35459960	0.03261789	-2.81254514
CPNE1	0.35455917	0.03262802	2.81217836
DEDD2	0.35452812	0.03263838	2.81189668
SQLE	0.35452496	0.03263838	2.81186798
PTCD2	0.35450691	0.03263838	2.81170423
COG1	0.35451097	0.03263838	2.81174109
IL18BP	-0.35447438	0.03264871	-2.81140915
KLK14	-0.35447488	0.03264871	-2.81141368
LECT1	-0.35442786	0.03267819	-2.81098717
THBS4	-0.35439398	0.03269752	-2.81067986
CMTM2	-0.35437011	0.03270397	-2.81046340
HDHD3	0.35436630	0.03270397	2.81042881
TMEM18	0.35433277	0.03271514	2.81012477
KRTAP8-1	-0.35433879	0.03271514	-2.81017930
KIRREL3	-0.35431555	0.03272109	-2.80996852
C1orf91	0.35422455	0.03278644	2.80914333
RER1	0.35414806	0.03281525	2.80844971
FMNL2	-0.35414339	0.03281525	-2.80840740
POU2F3	-0.35413974	0.03281525	-2.80837427
YIPF7	-0.35417642	0.03281525	-2.80870684
TRBV19	-0.35413991	0.03281525	-2.80837577
KCNA7	-0.35411671	0.03282591	-2.80816545
CRTAM	-0.35410690	0.03282591	-2.80807654
CAMK2D	0.35405060	0.03286342	2.80756608
EFR3A	0.35401230	0.03287852	2.80721882
ACSL5	0.35401860	0.03287852	2.80727593
HEY1	0.35399973	0.03288076	2.80710483
C7orf52	-0.35393214	0.03292744	-2.80649217
NDUFA6	0.35392089	0.03292784	2.80639019

ZNF593	-0.35391206	0.03292784	-2.80631012	
FBXW12	-0.35388851	0.03293896	-2.80609668	
PCDH8	-0.35386607	0.03294919	-2.80589327	
IMPA1	0.35384677	0.03295489	2.80571832	yes
DUSP26	-0.35383944	0.03295489	-2.80565188	
C15orf32	-0.35376555	0.03297747	-2.80498213	
LHCGR	-0.35378715	0.03297747	-2.80517793	
PCSK6	-0.35379809	0.03297747	-2.80527707	
DALRD3	0.35376262	0.03297747	2.80495560	
TSC22D1	0.35377838	0.03297747	2.80509840	
FLJ23865	-0.35373928	0.03298053	-2.80474405	
hCG_2045089	-0.35373976	0.03298053	-2.80474840	
DYNC2H1	0.35370560	0.03299988	2.80443886	
CXorf55	-0.35367269	0.03300280	-2.80414058	
HMGA1	-0.35368277	0.03300280	-2.80423189	
AMIGO1	-0.35367392	0.03300280	-2.80415169	
C2orf44	0.35364504	0.03301728	2.80388998	
KRCC1	0.35363040	0.03302122	2.80375740	
ANKRD32	0.35361193	0.03302828	2.80359000	
RUNDC3A	-0.35358904	0.03303892	-2.80338256	
HSPB11	0.35357229	0.03304459	2.80323076	
FOXL1	-0.35351971	0.03307930	-2.80275438	
ERLIN1	0.35346715	0.03311183	2.80227821	yes
CYP1A2	-0.35345036	0.03311183	-2.80212610	
MID1IP1	0.35345270	0.03311183	2.80214723	
NOX5	-0.35343724	0.03311456	-2.80200720	
OR52D1	-0.35334713	0.03317985	-2.80119092	
ZFP28	-0.35333620	0.03318082	-2.80109184	
LTA	-0.35324306	0.03324869	-2.80024823	
LOC100133412	-0.35314759	0.03331858	-2.79938357	
OR8D2	-0.35312040	0.03332486	-2.79913732	
POMP	0.35312799	0.03332486	2.79920603	
OPRL1	-0.35309182	0.03334023	-2.79887848	

OR11G2	-0.35307183	0.03334859	-2.79869752	
USP46	0.35305233	0.03335656	2.79852092	yes
PYY	-0.35304094	0.03335791	-2.79841779	
TFR2	-0.35301934	0.03336121	-2.79822215	
C11orf70	0.35300817	0.03336121	2.79812106	
NOG	-0.35300770	0.03336121	-2.79811674	
LOC100133333	0.35297854	0.03337547	2.79785270	yes
GPR101	-0.35297077	0.03337547	-2.79778237	
TREML2	-0.35295655	0.03337914	-2.79765365	
CD300C	-0.35291734	0.03339779	-2.79729861	
OPRK1	-0.35289716	0.03339779	-2.79711592	yes
LPAR5	-0.35290067	0.03339779	-2.79714767	
CASP7	0.35288510	0.03339779	2.79700675	
TCL1B	-0.35289285	0.03339779	-2.79707689	
BRP44L	0.35284485	0.03342276	2.79664229	
LOC347411	-0.35281930	0.03343571	-2.79641104	
PFDN2	-0.35280825	0.03343680	-2.79631100	
SLC2A2	-0.35276907	0.03346092	-2.79595632	
COL20A1	-0.35274688	0.03347113	-2.79575542	
PCDHGC5	-0.35269636	0.03350456	-2.79529817	
PRR7	-0.35267432	0.03351467	-2.79509866	
DCLRE1B	0.35264720	0.03352098	2.79485320	
CDK5R1	-0.35265465	0.03352098	-2.79492066	
RNF139	0.35260742	0.03352973	2.79449316	
CAPRIN1	0.35262343	0.03352973	2.79463803	
NRIP2	-0.35261231	0.03352973	-2.79453738	
ADORA2B	0.35255374	0.03356580	2.79400736	
FOXI1	-0.35253561	0.03356580	-2.79384329	
FLJ34503	-0.35252466	0.03356580	-2.79374418	
FOXO4	-0.35252928	0.03356580	-2.79378601	
DRAP1	-0.35250667	0.03357003	-2.79358139	
RBBP9	0.35250012	0.03357003	2.79352210	
NUDT10	-0.35247958	0.03357894	-2.79333622	

TNF	-0.35246253	0.03358498	-2.79318194	
FBXL2	0.35244625	0.03359039	2.79303461	
PIPOX	-0.35241834	0.03360536	-2.79278207	
SAMD11	-0.35238635	0.03360882	-2.79249264	
DAAM2	-0.35237541	0.03360882	-2.79239361	yes
BMP8A	-0.35238154	0.03360882	-2.79244913	
NIT1	0.35239770	0.03360882	2.79259535	
OR2A2	-0.35235201	0.03361310	-2.79218192	
LIN37	-0.35234119	0.03361310	-2.79208400	
CD9	0.35234565	0.03361310	2.79212436	
SAGE1	-0.35230433	0.03363543	-2.79175052	
ASPG	-0.35226259	0.03366105	-2.79137296	
TRIM15	-0.35225382	0.03366105	-2.79129362	
POLQ	0.35219662	0.03368426	2.79077611	
CITED4	-0.35220716	0.03368426	-2.79087152	
C12orf75	0.35220111	0.03368426	2.79081673	
OR1L1	-0.35212129	0.03373209	-2.79009476	
LCE3A	-0.35210307	0.03373209	-2.78992996	
FAM47C	-0.35209988	0.03373209	-2.78990106	
PGK1	0.35210078	0.03373209	2.78990921	
C14orf48	-0.35206231	0.03375417	-2.78956123	
CRTAC1	-0.35204412	0.03375417	-2.78939677	
LGI2	-0.35204500	0.03375417	-2.78940471	
REG1A	-0.35197960	0.03379941	-2.78881323	yes
OR4C3	-0.35190683	0.03385151	-2.78815518	
LOC100129278	-0.35188178	0.03385384	-2.78792866	
ULK4	0.35187661	0.03385384	2.78788190	
C15orf56	-0.35186543	0.03385384	-2.78778081	
SPAG1	0.35187148	0.03385384	2.78783551	yes
SYT4	-0.35182662	0.03387794	-2.78742990	
FAM173A	-0.35180494	0.03388790	-2.78723380	
DYDC1	0.35174383	0.03392249	2.78668128	
MGC42105	-0.35175240	0.03392249	-2.78675882	

EIF3D	0.35171965	0.03393452	2.78646274
PTTG1IP	0.35166738	0.03396982	2.78599019
TRPC2	-0.35165757	0.03396997	-2.78590146
CACYBP	-0.35163570	0.03398011	-2.78570376
GPRIN1	-0.35162101	0.03398431	-2.78557095
UCN2	-0.35160839	0.03398679	-2.78545686
IL12RB1	-0.35154382	0.03403233	-2.78487320
T	-0.35150967	0.03405268	-2.78456452
SIX1	0.35148521	0.03405701	2.78434344
TMEM59	0.35148778	0.03405701	2.78436667
PEX1	0.35147186	0.03406011	2.78422279
GCNT1	0.35145749	0.03406405	2.78409296
C8orf37	0.35143031	0.03407065	2.78384726
NEXN	-0.35143568	0.03407065	-2.78389585
KLHL33	-0.35140280	0.03407753	-2.78359870
G6PC	-0.35140908	0.03407753	-2.78365546
PRSS16	-0.35136279	0.03408260	-2.78323707
CYP4B1	0.35134868	0.03408260	2.78310954
OR4D5	-0.35137268	0.03408260	-2.78332649
RHBDL1	-0.35135029	0.03408260	-2.78312409
SDC3	-0.35138675	0.03408260	-2.78345363
AR	-0.35132842	0.03409145	-2.78292648
INSC	-0.35131634	0.03409351	-2.78281733
TCTEX1D1	0.35128133	0.03410748	2.78250094
REG3A	-0.35128032	0.03410748	-2.78249188
LOC100130507	-0.35123344	0.03412140	-2.78206828
C1orf107	0.35122522	0.03412140	2.78199397
IL10	-0.35125369	0.03412140	-2.78225122
RNF34	0.35123428	0.03412140	2.78207583
CPT1C	-0.35121285	0.03412370	-2.78188227
CA10	-0.35116780	0.03415318	-2.78147519
TTC23L	0.35112535	0.03418052	2.78109167
C9	-0.35107300	0.03421612	-2.78061874

SERAC1	0.35105963	0.03421928	2.78049793	
PMS2L1	0.35104266	0.03422543	2.78034462	
MFAP3L	-0.35102689	0.03423059	-2.78020216	
CETN1	-0.35100742	0.03423883	-2.78002634	
DCST1	-0.35097600	0.03424108	-2.77974255	
RHBDD1	0.35098717	0.03424108	2.77984337	
LRIG2	0.35098202	0.03424108	2.77979685	
CXorf38	0.35094429	0.03425954	2.77945610	
TMEM88	-0.35091055	0.03427969	-2.77915135	
TNKS1BP1	-0.35089933	0.03428107	-2.77905005	
SIM1	-0.35083220	0.03432910	-2.77844373	
PRSS21	-0.35079421	0.03434485	-2.77810066	
HOXA5	-0.35079588	0.03434485	-2.77811567	
PRPF6	0.35078019	0.03434858	2.77797399	
NRF1	0.35075962	0.03435777	2.77778831	
ROBO3	-0.35074870	0.03435891	-2.77768968	
WDR88	-0.35073814	0.03435975	-2.77759433	
HIST1H2AC	0.35072180	0.03436543	2.77744671	
C20orf71	-0.35069698	0.03437021	-2.77722260	
TAS1R1	-0.35069727	0.03437021	-2.77722521	
PDE12	0.35068560	0.03437174	2.77711987	
DHRS2	-0.35065701	0.03438765	-2.77686172	
SLC2A7	-0.35053956	0.03444202	-2.77580131	
POLR2D	0.35053476	0.03444202	2.77575795	
BEX1	-0.35053856	0.03444202	-2.77579228	
PNO1	0.35056683	0.03444202	2.77604746	
TMCC3	-0.35054015	0.03444202	-2.77580666	
ABHD8	-0.35055386	0.03444202	-2.77593044	
ACAD10	0.35051773	0.03444829	2.77560426	
NUP160	0.35040342	0.03451483	2.77457230	
IPP	0.35037451	0.03451483	2.77431135	yes
LOC387720	-0.35039407	0.03451483	-2.77448790	
AVPR1A	-0.35038022	0.03451483	-2.77436291	

C2orf83	-0.35039414	0.03451483	-2.77448860	
TYRP1	-0.35037160	0.03451483	-2.77428508	
THSD7B	-0.35037846	0.03451483	-2.77434703	
DTNB	-0.35020173	0.03463343	-2.77275203	
LRRN3	-0.35021967	0.03463343	-2.77291391	yes
ZNF239	-0.35021055	0.03463343	-2.77283161	
FEZ1	-0.35019035	0.03463499	-2.77264931	yes
ANKRD18A	0.35017916	0.03463640	2.77254833	
DEFB134	-0.35013352	0.03466678	-2.77213649	
TMEM68	0.35009099	0.03468655	2.77175269	
CTNS	0.35009149	0.03468655	2.77175719	
LY6H	-0.35007753	0.03468988	-2.77163123	
CD248	-0.35004265	0.03470322	-2.77131656	
PGBD5	-0.35004482	0.03470322	-2.77133611	
TPH2	-0.34998164	0.03471220	-2.77076607	
FAM71C	-0.34997498	0.03471220	-2.77070602	
TMEM14A	0.34998695	0.03471220	2.77081398	
ANKRD30B	-0.34999196	0.03471220	-2.77085923	
NUP54	0.34998963	0.03471220	2.77083816	
THNSL1	0.34997902	0.03471220	2.77074242	
RFC5	0.34994040	0.03472533	2.77039406	
TFF1	-0.34994694	0.03472533	-2.77045306	
FARP2	0.34991794	0.03473625	2.77019142	
DBH	-0.34986612	0.03476145	-2.76972395	
HOMER3	-0.34985957	0.03476145	-2.76966485	
WSCD2	-0.34987336	0.03476145	-2.76978921	
PDCD6IP	0.34983807	0.03476395	2.76947091	yes
ALOX15B	-0.34983763	0.03476395	-2.76946698	
PRAMEF12	-0.34982562	0.03476608	-2.76935861	
KLHL17	-0.34979802	0.03478135	-2.76910967	
CTSE	-0.34975927	0.03480604	-2.76876011	
LHX5	-0.34968809	0.03485812	-2.76811820	
TMEM26	-0.34963493	0.03487901	-2.76763877	

LEPROTL1	0.34963952	0.03487901	2.76768015	
RPL29	-0.34964289	0.03487901	-2.76771054	
GRIN3A	-0.34959361	0.03490593	-2.76726614	
FRAT2	-0.34957251	0.03491577	-2.76707587	
TMEM19	0.34956045	0.03491796	2.76696711	
RTP3	-0.34952351	0.03494120	-2.76663403	
ICHTHYIN	-0.34950605	0.03494605	-2.76647659	
NEU2	-0.34949885	0.03494605	-2.76641162	
HSD3B7	-0.34946404	0.03496750	-2.76609777	
LIN28	-0.34939686	0.03501640	-2.76549208	
WDR19	0.34938194	0.03502103	2.76535752	
CDH4	-0.34935671	0.03503440	-2.76513007	
C6orf226	-0.34927805	0.03509313	-2.76442103	
ProSAPiP1	-0.34926686	0.03509460	-2.76432014	yes
RIPK4	0.34925126	0.03509982	2.76417947	
FAM53A	-0.34918788	0.03512956	-2.76360825	
ATP5EP2	0.34919061	0.03512956	2.76363282	
GLB1L	0.34920296	0.03512956	2.76374416	
ZNF585A	0.34917040	0.03513253	2.76345064	
TAS2R1	-0.34916549	0.03513253	-2.76340644	
DNAJC4	-0.34915551	0.03513299	-2.76331646	
VSX1	-0.34914566	0.03513333	-2.76322769	
PEF1	0.34906774	0.03518919	2.76252538	
MTRF1	0.34906109	0.03518919	2.76246552	
DNAH17	-0.34900261	0.03523094	-2.76193852	
LOC100128003	-0.34897646	0.03524010	-2.76170286	
GARNL3	-0.34897298	0.03524010	-2.76167145	
C9orf72	0.34895530	0.03524712	2.76151219	
LOC100131510	-0.34893239	0.03525274	-2.76130574	
SMR3A	-0.34891167	0.03525274	-2.76111904	
MPO	-0.34891148	0.03525274	-2.76111732	
SH2D2A	-0.34891098	0.03525274	-2.76111280	
CRIP1	0.34888746	0.03525671	2.76090086	

C21orf29	-0.34889572	0.03525671	-2.76097535	
ANKRD42	0.34885675	0.03527485	2.76062422	
FLT3LG	-0.34882830	0.03527501	-2.76036788	
DAK	0.34884473	0.03527501	2.76051592	
TRA2A	0.34883004	0.03527501	2.76038354	
CEND1	-0.34873047	0.03535044	-2.75948653	
HORMAD2	-0.34868473	0.03537676	-2.75907450	
GPR97	-0.34866653	0.03537676	-2.75891049	
SLC35D1	0.34865895	0.03537676	2.75884227	
KCNJ3	-0.34866907	0.03537676	-2.75893343	
TTY14	-0.34865258	0.03537676	-2.75878491	
RPP40	0.34858376	0.03541951	2.75816500	yes
DAO	-0.34859261	0.03541951	-2.75824470	
PRR12	-0.34857078	0.03542256	-2.75804808	
DUSP21	-0.34854759	0.03543436	-2.75783920	
VPS33B	0.34851773	0.03544922	2.75757032	
GSTA1	0.34851141	0.03544922	2.75751333	
CHRND	-0.34843778	0.03548738	-2.75685026	
CSTF1	0.34838508	0.03548738	2.75637571	
TICAM1	-0.34832461	0.03548738	-2.75583122	
FGF2	-0.34832256	0.03548738	-2.75581271	
DNMBP	0.34837460	0.03548738	2.75628129	
C6orf15	-0.34831660	0.03548738	-2.75575912	
TREML1	-0.34835327	0.03548738	-2.75608931	
SFT2D2	0.34832197	0.03548738	2.75580747	
CNOT2	0.34838490	0.03548738	2.75637404	
DUS2L	0.34835583	0.03548738	2.75611230	
SPTBN4	-0.34834703	0.03548738	-2.75603309	
TMPRSS5	-0.34845478	0.03548738	-2.75700338	
RILP	-0.34836625	0.03548738	-2.75620617	
TAF1B	0.34834434	0.03548738	2.75600885	
C1orf201	0.34838746	0.03548738	2.75639711	
ZNF536	-0.34838878	0.03548738	-2.75640903	

RBPJL	-0.34830507	0.03548923	-2.75565526
OR51F1	-0.34828619	0.03548935	-2.75548529
C1orf53	-0.34828629	0.03548935	-2.75548618
ACRV1	-0.34825028	0.03551208	-2.75516194
FAM20B	0.34823195	0.03551976	2.75499689
FABP1	-0.34817181	0.03552653	-2.75445551
HDAC1	0.34816788	0.03552653	2.75442011
MYBPC2	-0.34820767	0.03552653	-2.75477830
RTKN	-0.34817120	0.03552653	-2.75445003
SLC18A1	-0.34818770	0.03552653	-2.75459856
XYLB	-0.34817618	0.03552653	-2.75449487
WASF2	-0.34812280	0.03554722	-2.75401431
ATP7B	0.34811567	0.03554722	2.75395014
LMAN1L	-0.34813213	0.03554722	-2.75409826
PPP2R2B	-0.34805724	0.03558021	-2.75342416
SSTR4	-0.34806298	0.03558021	-2.75347585
UQCRFS1	-0.34804915	0.03558021	-2.75335137
HEATR7B2	-0.34801688	0.03559989	-2.75306085
DPM3	-0.34800235	0.03560434	-2.75293006
WNT1	-0.34794892	0.03564219	-2.75244915
MRGPRX1	-0.34793441	0.03564662	-2.75231862
FLJ14100	-0.34790340	0.03565015	-2.75203949
EFCAB7	0.34790776	0.03565015	2.75207879
CEP57	0.34790230	0.03565015	2.75202958
CRYBA4	-0.34788432	0.03565757	-2.75186782
FAM3A	-0.34785939	0.03567097	-2.75164345
P4HA2	0.34780155	0.03571268	2.75112299
PNMA2	-0.34777468	0.03571975	-2.75088114
FXVD7	-0.34777737	0.03571975	-2.75090534
RAP1B	0.34776087	0.03572360	2.75075689
TEX28	-0.34769031	0.03576566	-2.75012201
CLDN18	-0.34769136	0.03576566	-2.75013149
FLJ10213	0.34768404	0.03576566	2.75006558

TMEM53	0.34766983	0.03576986	2.74993780	
TBX2	-0.34762888	0.03579712	-2.74956929	yes
WIPI2	0.34761663	0.03579714	2.74945909	
TUBA1A	0.34761021	0.03579714	2.74940137	
ZNF114	-0.34758247	0.03581302	-2.74915184	
PM20D1	-0.34756039	0.03582402	-2.74895320	
TANC2	0.34753415	0.03583863	2.74871712	
LOC100129455	-0.34751684	0.03584552	-2.74856145	
DSCR10	-0.34749497	0.03585636	-2.74836464	
HARS2	0.34746176	0.03586895	2.74806599	
IL2RA	-0.34746986	0.03586895	-2.74813881	yes
BIRC8	-0.34745238	0.03586902	-2.74798158	
SLC35D2	0.34742573	0.03588152	2.74774190	
LEP	-0.34741929	0.03588152	-2.74768395	
NUP85	0.34740681	0.03588426	2.74757172	
SLC30A10	-0.34736759	0.03591010	-2.74721897	
BTNL9	-0.34733659	0.03592605	-2.74694018	
FLJ35424	-0.34733053	0.03592605	-2.74688566	
PARD3	0.34731476	0.03593165	2.74674380	
SERPINA9	-0.34730254	0.03593418	-2.74663392	
CLEC4D	-0.34725346	0.03596858	-2.74619256	
RHPN2	0.34723260	0.03597859	2.74600500	
WDR49	0.34719657	0.03599369	2.74568094	
DENR	0.34719935	0.03599369	2.74570599	
JDP2	-0.34718632	0.03599374	-2.74558884	
ARMCX2	-0.34717795	0.03599374	-2.74551349	
LONP2	0.34713917	0.03601927	2.74516483	
SERPINA13	-0.34709076	0.03605316	-2.74472955	
ATG3	0.34704832	0.03608190	2.74434803	
C22orf24	-0.34702762	0.03609180	-2.74416191	
MOG	-0.34693964	0.03616011	-2.74337101	
C2orf61	-0.34691070	0.03617720	-2.74311082	
NOSTRIN	-0.34690017	0.03617828	-2.74301620	

STK38	0.34688547	0.03618300	2.74288404	
C6orf1	-0.34686620	0.03618363	-2.74271081	
C16orf57	-0.34687126	0.03618363	-2.74275627	
CLIC1	0.34681615	0.03621908	2.74226096	
DIO1	0.34676532	0.03623871	2.74180413	
PGLYRP1	-0.34675652	0.03623871	-2.74172500	
MTMR6	0.34677055	0.03623871	2.74185109	
MED17	0.34677954	0.03623871	2.74193192	
INSL3	-0.34674621	0.03623961	-2.74163236	
DLX6	-0.34672114	0.03624840	-2.74140704	
OR6C74	-0.34668392	0.03624840	-2.74107253	
GNG4	-0.34671066	0.03624840	-2.74131289	
MYB	0.34668056	0.03624840	2.74104237	yes
TNRC6C	-0.34668913	0.03624840	-2.74111942	
KCNK16	-0.34669120	0.03624840	-2.74113801	
LOC100132625	0.34660655	0.03627675	2.74037733	
TXNIP	0.34659305	0.03627675	2.74025600	
LYPD6	-0.34662665	0.03627675	-2.74055787	
KRTAP21-2	-0.34659704	0.03627675	-2.74029180	
MAST4	-0.34661311	0.03627675	-2.74043627	
NRXN2	-0.34659250	0.03627675	-2.74025102	
MAPK11	-0.34654161	0.03631302	-2.73979381	yes
PIWIL3	-0.34648023	0.03635848	-2.73924229	
NUDT16	-0.34645744	0.03636223	-2.73903752	
BSCL2	0.34646379	0.03636223	2.73909461	
YIPF6	0.34640308	0.03640161	2.73854921	
C10orf110	-0.34638337	0.03641075	-2.73837212	
SC4MOL	0.34637177	0.03641282	2.73826785	
C20orf201	-0.34633814	0.03641918	-2.73796581	
SNORD4A	0.34633652	0.03641918	2.73795123	
GNAI3	0.34632756	0.03641918	2.73787076	
IFT81	0.34635198	0.03641918	2.73809016	
TIMM17A	0.34627695	0.03643920	2.73741616	

IFT122	0.34628341	0.03643920	2.73747415	
ZIC3	-0.34629297	0.03643920	-2.73756008	
OR1I1	-0.34624141	0.03644716	-2.73709689	
SERPIND1	-0.34624331	0.03644716	-2.73711397	
LY6G6E	-0.34624018	0.03644716	-2.73708588	
ACOXL	-0.34622253	0.03645453	-2.73692737	
CXorf41	0.34616877	0.03647515	2.73644453	
RHOJ	-0.34617292	0.03647515	-2.73648176	
UPK2	-0.34616208	0.03647515	-2.73638439	
KEAP1	0.34617746	0.03647515	2.73652252	
MAB21L2	-0.34614601	0.03648115	-2.73624010	
LOC100130872	-0.34612757	0.03648922	-2.73607445	
FAM177A1	0.34608544	0.03651802	2.73569613	
UGT2A1	0.34606868	0.03652463	2.73554560	
TFG	0.34602704	0.03654496	2.73517174	
SLC39A8	-0.34603468	0.03654496	-2.73524034	
TAT	-0.34591079	0.03663878	-2.73412789	
SESN1	0.34588491	0.03665247	2.73389555	
MLLT4	0.34587180	0.03665247	2.73377784	yes
CLRN2	-0.34585082	0.03665247	-2.73358947	
FLJ33544	-0.34586202	0.03665247	-2.73369003	
C3orf39	-0.34584919	0.03665247	-2.73357487	
GMEB1	0.34579169	0.03668978	2.73305866	
CCDC110	-0.34578831	0.03668978	-2.73302827	
SYN3	-0.34576847	0.03669913	-2.73285020	
WDR3	0.34575660	0.03669916	2.73274359	
CD300LF	-0.34574315	0.03669916	-2.73262293	
SERPINB1	0.34573680	0.03669916	2.73256586	
WDR41	0.34573168	0.03669916	2.73251996	
GPR84	-0.34572151	0.03670003	-2.73242861	
RPL3L	-0.34568753	0.03672056	-2.73212360	
EBF2	-0.34567978	0.03672056	-2.73205402	
SERPINA4	-0.34563137	0.03672650	-2.73161958	

RPGR	0.34562714	0.03672650	2.73158157	
FLJ35776	0.34564272	0.03672650	2.73172141	
AKR1D1	-0.34564158	0.03672650	-2.73171119	
SULT1C2	-0.34562844	0.03672650	-2.73159321	
ZNF702P	0.34552308	0.03680996	2.73064764	
BAAT	-0.34551345	0.03681037	-2.73056119	
BRCC3	0.34548845	0.03682430	2.73033688	
DOC2BL	-0.34540269	0.03689181	-2.72956726	
PADI4	-0.34532727	0.03695028	-2.72889058	
UNQ6490	-0.34524998	0.03701049	-2.72819716	
C21orf84	-0.34520448	0.03702908	-2.72778897	
TTC12	0.34520146	0.03702908	2.72776189	
RTCD1	0.34521534	0.03702908	2.72788640	yes
FLG2	-0.34518720	0.03703010	-2.72763393	
ATP6V0B	0.34518198	0.03703010	2.72758712	
C7orf43	-0.34516215	0.03703143	-2.72740925	
NAT1	0.34517114	0.03703143	2.72748986	
LIX1	-0.34513431	0.03703986	-2.72715952	
MCCC2	0.34513481	0.03703986	2.72716399	
LOC389137	0.34511211	0.03704331	2.72696030	
CHST2	-0.34511644	0.03704331	-2.72699916	
WARS2	0.34509187	0.03704503	2.72677878	
BEST1	-0.34509208	0.03704503	-2.72678069	
GLI2	-0.34506473	0.03706095	-2.72653537	
LOC100131054	-0.34502813	0.03708525	-2.72620711	
VSIG4	-0.34500158	0.03709277	-2.72596896	
DYRK1A	0.34500135	0.03709277	2.72596693	yes
TMEM38A	-0.34497107	0.03711151	-2.72569529	yes
COL6A2	-0.34492919	0.03714053	-2.72531968	yes
PCDH15	-0.34491572	0.03714436	-2.72519891	
CLEC4GP1	-0.34489182	0.03715745	-2.72498461	
HSDL2	0.34486069	0.03717696	2.72470544	
SNRNP200	0.34482328	0.03720206	2.72436997	

PIGX	0.34481305	0.03720303	2.72427822	
DHX16	0.34479418	0.03721168	2.72410903	
HRASLS2	0.34475535	0.03723805	2.72376088	
HSPH1	0.34473128	0.03724321	2.72354508	
NAGS	-0.34473279	0.03724321	-2.72355857	
STX12	0.34467976	0.03727552	2.72308315	
TRPC3	-0.34467669	0.03727552	-2.72305559	
COX15	0.34463663	0.03727868	2.72269648	
ATP5D	-0.34464683	0.03727868	-2.72278794	
PRKAR1A	0.34464262	0.03727868	2.72275020	
SMO	-0.34465637	0.03727868	-2.72287343	
BBS9	0.34460625	0.03729759	2.72242416	
ZBTB33	0.34455074	0.03732187	2.72192653	
VN1R2	-0.34452428	0.03732187	-2.72168935	
KRTAP6-2	-0.34454873	0.03732187	-2.72190846	
SMEK2	0.34453001	0.03732187	2.72174073	
RARRES2	-0.34453287	0.03732187	-2.72176633	
ADAMTSL2	-0.34453840	0.03732187	-2.72181587	
OR51Q1	-0.34448746	0.03734560	-2.72135925	
ADAM33	-0.34447941	0.03734560	-2.72128710	yes
SYNC	-0.34445838	0.03735621	-2.72109863	
IQCK	0.34443393	0.03736988	2.72087952	
TCP10L	-0.34441710	0.03737676	-2.72072864	
AP3M2	0.34438359	0.03737961	2.72042830	
OBSL1	-0.34437683	0.03737961	-2.72036773	
AMHR2	-0.34437588	0.03737961	-2.72035924	
LOC388387	-0.34438362	0.03737961	-2.72042857	
CLEC11A	-0.34436842	0.03737961	-2.72029232	yes
DSC1	-0.34430469	0.03741209	-2.71972124	
FGF8	-0.34430621	0.03741209	-2.71973486	
ASB18	-0.34430590	0.03741209	-2.71973201	
PRDM16	-0.34429030	0.03741682	-2.71959222	
TRIM10	-0.34423895	0.03744641	-2.71913207	

MFSD5	0.34424515	0.03744641	2.71918763
GLIS1	-0.34420206	0.03747121	-2.71880154
LACRT	-0.34413527	0.03752275	-2.71820307
YTHDF3	0.34411700	0.03752830	2.71803944
MYH16	-0.34411089	0.03752830	-2.71798470
PAX2	-0.34408932	0.03753946	-2.71779145
EMP2	0.34404593	0.03756569	2.71740270
TRAK1	0.34404183	0.03756569	2.71736597
ZBTB25	0.34398943	0.03760446	2.71689648
PTPMT1	0.34395480	0.03762156	2.71658633
TBC1D19	0.34395218	0.03762156	2.71656281
CMTM1	-0.34389570	0.03763208	-2.71605693
VWDE	-0.34390454	0.03763208	-2.71613607
LOC389493	-0.34391444	0.03763208	-2.71622474
SCAF1	-0.34389507	0.03763208	-2.71605130
PRDM6	-0.34391656	0.03763208	-2.71624381
LRIT1	-0.34387619	0.03764087	-2.71588216
C19orf71	-0.34383865	0.03766000	-2.71554592
ZNF440	0.34383671	0.03766000	2.71552852
CD300LD	-0.34379674	0.03768771	-2.71517053
SDC4	0.34371202	0.03775559	2.71441183
PALM2	-0.34367925	0.03776875	-2.71411838
RGS8	-0.34368445	0.03776875	-2.71416490
C20orf191	-0.34363505	0.03780032	-2.71372257
SLC38A6	0.34359438	0.03780349	2.71335842
OR8K5	-0.34359194	0.03780349	-2.71333659
LARS2	0.34358626	0.03780349	2.71328571
TRAPPC3	0.34359122	0.03780349	2.71333008
SLC13A1	-0.34360075	0.03780349	-2.71341540
GNG7	-0.34355898	0.03781450	-2.71304140
BAI3	-0.34354687	0.03781450	-2.71293303
BHLHA9	-0.34354807	0.03781450	-2.71294376
KCTD11	0.34351768	0.03783261	2.71267165

SIGLEC8	-0.34346337	0.03787257	-2.71218546	
FLJ46321	-0.34345517	0.03787257	-2.71211204	
ADA	-0.34343756	0.03788029	-2.71195434	
ADRA1B	-0.34334189	0.03795834	-2.71109793	
POU2F2	-0.34331477	0.03797464	-2.71085520	
IMP3	0.34328685	0.03799168	2.71060522	
ZMYND10	0.34327128	0.03799758	2.71046586	
IGSF9B	-0.34320092	0.03805295	-2.70983610	
LCA5	0.34314211	0.03809617	2.70930985	
SNORD6	0.34313504	0.03809617	2.70924654	
HTR1A	-0.34312556	0.03809657	-2.70916170	
ADARB2	-0.34303080	0.03816946	-2.70831373	
C5orf15	0.34302696	0.03816946	2.70827939	
VPS35	0.34301379	0.03817322	2.70816148	
INTU	0.34296091	0.03821295	2.70768838	
MAPK14	0.34292037	0.03821878	2.70732562	
C1orf213	-0.34291838	0.03821878	-2.70730784	
OXSM	0.34292689	0.03821878	2.70738394	
C6orf64	0.34293873	0.03821878	2.70748991	
FLJ44817	-0.34290896	0.03821914	-2.70722356	
WNT10A	-0.34289351	0.03822448	-2.70708533	
CER1	-0.34288503	0.03822448	-2.70700943	
IGFBP2	0.34280455	0.03826732	2.70628945	
FAM178B	-0.34279338	0.03826732	-2.70618956	
PRIM2	0.34279272	0.03826732	2.70618368	
RAB11A	0.34280271	0.03826732	2.70627304	yes
KLHL13	0.34280983	0.03826732	2.70633666	
WFDC12	-0.34276791	0.03828166	-2.70596173	
CXorf1	-0.34272560	0.03831191	-2.70558321	
ARHGDI3	-0.34267065	0.03834920	-2.70509174	
NACAP1	-0.34265754	0.03834920	-2.70497444	
GJA10	-0.34266133	0.03834920	-2.70500837	
XPR1	0.34262496	0.03837063	2.70468307	

TBPL2	-0.34261442	0.03837202	-2.70458882
NXPH3	-0.34258975	0.03838628	-2.70436815
FMOD	-0.34251263	0.03844010	-2.70367840
WFDC11	-0.34251938	0.03844010	-2.70373876
KRTAP4-3	-0.34250358	0.03844014	-2.70359750
LRFN4	-0.34248029	0.03845316	-2.70338922
RTTN	0.34245978	0.03845545	2.70320582
ZNF608	0.34246590	0.03845545	2.70326055
DLGAP1	-0.34242776	0.03847644	-2.70291948
SH2B3	-0.34240776	0.03847827	-2.70274065
RPS13	0.34240944	0.03847827	2.70275569
C9orf53	-0.34237630	0.03848824	-2.70245934
ZFAND5	0.34237586	0.03848824	2.70245542
C21orf70	-0.34236986	0.03848824	-2.70240177
CASS4	-0.34234735	0.03850057	-2.70220055
RPS26P11	-0.34232724	0.03851071	-2.70202073
IMP5	-0.34227810	0.03853915	-2.70158142
KIAA1712	0.34227846	0.03853915	2.70158462
ATCAY	-0.34226751	0.03854063	-2.70148670
WDR13	0.34221207	0.03858304	2.70099107
PRPSAP1	0.34215321	0.03861222	2.70046486
RP5-1077B9.4	-0.34215909	0.03861222	-2.70051744
OR6W1P	-0.34216226	0.03861222	-2.70054575
TMEM205	0.34212335	0.03863130	2.70019801
C5orf43	0.34210478	0.03864008	2.70003196
C4orf23	0.34202503	0.03870485	2.69931913
CKMT2	-0.34201278	0.03870785	-2.69920969
EBF4	-0.34197131	0.03873762	-2.69883907
MFGE8	-0.34192176	0.03877481	-2.69839627
TTC30B	0.34188628	0.03879091	2.69807916
MAGEA3	0.34189398	0.03879091	2.69814796
GK2	-0.34180919	0.03885264	-2.69739027
WFDC10B	-0.34179776	0.03885264	-2.69728817

C17orf71	0.34179213	0.03885264	2.69723784
PPEF2	-0.34173818	0.03889398	-2.69675584
C10orf140	-0.34168524	0.03892684	-2.69628282
EXOC1	0.34167557	0.03892684	2.69619645
SEP15	0.34168371	0.03892684	2.69626912
OR2AG1	-0.34164974	0.03893412	-2.69596569
FOLR1	-0.34165480	0.03893412	-2.69601090
TRAFD1	0.34162717	0.03893688	2.69576400
SGPP2	0.34162211	0.03893688	2.69571888
ACTR10	0.34161675	0.03893688	2.69567098
SFRS3	0.34161092	0.03893688	2.69561889
MIPEP	0.34155938	0.03897460	2.69515842
FLJ20464	-0.34155204	0.03897460	-2.69509293
CST5	-0.34154253	0.03897512	-2.69500798
CETN3	0.34149790	0.03898328	2.69460929
CCDC87	-0.34152026	0.03898328	-2.69480904
ISY1	0.34150376	0.03898328	2.69466160
SLC6A11	-0.34151096	0.03898328	-2.69472595
C6orf195	-0.34147995	0.03898335	-2.69444891
RSPRY1	0.34148708	0.03898335	2.69451268
RNF41	0.34144509	0.03899899	2.69413759
ZNF44	0.34145206	0.03899899	2.69419981
KRTAP6-3	-0.34142296	0.03901115	-2.69393992
LOC284009	-0.34136347	0.03905774	-2.69340865
C21orf45	0.34131410	0.03909506	2.69296767
TRIM60	-0.34129538	0.03910409	-2.69280054
KATNAL2	0.34126738	0.03912169	2.69255047
SAP18	0.34113768	0.03918381	2.69139238
LMAN2	0.34116825	0.03918381	2.69166530
A3GALT2	-0.34116075	0.03918381	-2.69159834
GYPE	-0.34116622	0.03918381	-2.69164719
METTL13	0.34114516	0.03918381	2.69145912
TAGLN	-0.34119101	0.03918381	-2.69186859

UBE3C	0.34114216	0.03918381	2.69143240	
OR52A1	-0.34110208	0.03920848	-2.69107455	
IL1F5	-0.34102928	0.03926760	-2.69042463	
OSBPL8	0.34098541	0.03928593	2.69003296	
C2orf52	0.34098803	0.03928593	2.69005634	
HEYL	-0.34098274	0.03928593	-2.69000913	
SARDH	-0.34097370	0.03928604	-2.68992846	
ZNF32	0.34092743	0.03932067	2.68951540	
GPRASP2	-0.34090249	0.03933553	-2.68929275	
CTNNA1	0.34082808	0.03939631	2.68862864	
MAP4K3	0.34079384	0.03941984	2.68832300	
CCDC27	-0.34078111	0.03942339	-2.68820937	
LOC100128751	-0.34068989	0.03948335	-2.68739528	
HHLA3	-0.34069691	0.03948335	-2.68745799	
ACTL6A	0.34070412	0.03948335	2.68752227	
ELOVL1	0.34064004	0.03952145	2.68695049	
WIZ	-0.34061219	0.03953909	-2.68670197	
SEMA3C	0.34055421	0.03955993	2.68618461	
MOCS3	0.34056664	0.03955993	2.68629557	yes
BEST2	-0.34055998	0.03955993	-2.68623610	
MINPP1	0.34055976	0.03955993	2.68623415	
MS4A15	-0.34053978	0.03956126	-2.68605590	
PART1	-0.34053499	0.03956126	-2.68601309	
NTM	-0.34048922	0.03959562	-2.68560476	
DEPDC6	-0.34046769	0.03960007	-2.68541264	
LOC100133439	0.34046666	0.03960007	2.68540351	
CYP3A7	-0.34045138	0.03960532	-2.68526718	
PSAP	0.34044325	0.03960532	2.68519468	
TSG101	0.34039448	0.03964252	2.68475958	
GNAL	0.34034612	0.03967937	2.68432817	
DACT1	-0.34032063	0.03969487	-2.68410081	
CES7	-0.34026808	0.03970365	-2.68363205	
B3GNT8	-0.34026682	0.03970365	-2.68362081	

OR4D10	-0.34030223	0.03970365	-2.68393665	
C10orf85	-0.34028045	0.03970365	-2.68374243	
LOC645769	-0.34027890	0.03970365	-2.68372854	
IL29	-0.34018700	0.03976167	-2.68290885	
RP11-35N6.1	-0.34018934	0.03976167	-2.68292978	
AVL9	0.34017107	0.03976826	2.68276685	
LOC100129969	-0.34009849	0.03978715	-2.68211954	
LOC100133397	-0.34004916	0.03978715	-2.68167964	yes
C19orf41	-0.34002677	0.03978715	-2.68147997	
RBM45	0.34009547	0.03978715	2.68209256	
RPIA	0.34008018	0.03978715	2.68195627	
VCX	-0.34004058	0.03978715	-2.68160310	
GSN	0.34012151	0.03978715	2.68232480	
EHD4	0.34008672	0.03978715	2.68201459	
KCNA6	-0.34006198	0.03978715	-2.68179392	
MS4A13	-0.34009033	0.03978715	-2.68204679	
LUZP4	-0.34002984	0.03978715	-2.68150735	
SNX14	0.34003767	0.03978715	2.68157713	
FAM96A	0.34003621	0.03978715	2.68156412	
EFCAB2	0.34003928	0.03978715	2.68159155	
PPP1R14C	0.34000394	0.03980023	2.68127637	
SNORD48	-0.33997468	0.03980276	-2.68101553	
PABPC3	-0.33998129	0.03980276	-2.68107447	
RARS2	0.33997987	0.03980276	2.68106178	
LOC441208	-0.33992886	0.03982081	-2.68060693	
NUP133	0.33993496	0.03982081	2.68066133	
C3orf52	0.33994164	0.03982081	2.68072087	yes
LMLN	0.33991838	0.03982234	2.68051352	
NRM	-0.33987373	0.03985587	-2.68011543	
MBD6	-0.33982355	0.03985802	-2.67966809	
SPATA13	0.33983973	0.03985802	2.67981229	
GNG10	-0.33983489	0.03985802	-2.67976917	
C16orf86	-0.33981841	0.03985802	-2.67962223	

IL26	-0.33986152	0.03985802	-2.68000660	
POPDC3	-0.33983763	0.03985802	-2.67979358	
TMOD3	0.33979670	0.03987008	2.67942873	yes
GBE1	0.33976715	0.03988950	2.67916525	
C1orf104	-0.33974911	0.03989285	-2.67900444	
FCRL4	-0.33974591	0.03989285	-2.67897597	
SPINK2	-0.33972048	0.03990842	-2.67874925	
C20orf152	-0.33968866	0.03991343	-2.67846564	
POTEA	-0.33968974	0.03991343	-2.67847522	
VPS11	0.33970054	0.03991343	2.67857147	
LOC100131506	-0.33966629	0.03992614	-2.67826620	
SLC1A2	-0.33963862	0.03994382	-2.67801957	
OR1Q1	-0.33958922	0.03998189	-2.67757931	
RASGEF1B	0.33956904	0.03999256	2.67739948	
NAT6	-0.33955527	0.03999721	-2.67727672	
CCDC104	0.33950018	0.04001136	2.67678572	
MYO1E	0.33950509	0.04001136	2.67682949	
SERPINF2	-0.33952157	0.04001136	-2.67697639	
ACSBG2	-0.33950720	0.04001136	-2.67684832	
USP10	0.33949614	0.04001136	2.67674976	yes
LOC139431	-0.33946353	0.04001190	-2.67645913	
MDGA2	-0.33946735	0.04001190	-2.67649319	
PEG3	-0.33945513	0.04001190	-2.67638430	
PSMA1	0.33945155	0.04001190	2.67635239	
ZNF136	0.33946379	0.04001190	2.67646148	
KIAA1614	-0.33938637	0.04006487	-2.67577164	
GCLM	0.33933426	0.04010560	2.67530730	
OR5AK2	-0.33931588	0.04011461	-2.67514354	
EPYC	-0.33929006	0.04013064	-2.67491350	
ADAM20	0.33926073	0.04014997	2.67465215	
TMEM160	-0.33918926	0.04018416	-2.67401548	
INTS2	0.33919064	0.04018416	2.67402776	
LOC644037	-0.33919119	0.04018416	-2.67403265	

FAM164C	0.33919436	0.04018416	2.67406089	
LOC494141	-0.33912032	0.04024087	-2.67340134	
IFNA8	-0.33909908	0.04025262	-2.67321213	
ZHX2	-0.33906302	0.04027007	-2.67289089	
ARL3	0.33906827	0.04027007	2.67293771	
TM6SF2	-0.33903072	0.04028397	-2.67260327	
LOC649445	-0.33902991	0.04028397	-2.67259599	
SPRY4	-0.33902193	0.04028397	-2.67252496	
LOC100131792	-0.33901297	0.04028414	-2.67244517	
UXS1	0.33898661	0.04030074	2.67221033	
KPNA6	0.33895512	0.04032219	2.67192987	
GDPD5	-0.33893343	0.04033439	-2.67173671	
PMPCA	0.33891731	0.04033518	2.67159320	
TKTL1	-0.33891504	0.04033518	-2.67157297	
EVI5	0.33887883	0.04035282	2.67125047	
FAM108A1	-0.33888074	0.04035282	-2.67126750	
EML4	0.33886028	0.04035377	2.67108531	
ENTPD8	-0.33886573	0.04035377	-2.67113380	
ARMC3	0.33876285	0.04043766	2.67021768	
TMEM148	-0.33873994	0.04045105	-2.67001370	
BHMT	-0.33870505	0.04046749	-2.66970307	
MMEL1	-0.33870804	0.04046749	-2.66972969	
TPPP3	0.33868893	0.04047446	2.66955956	
TDRKH	-0.33866416	0.04048963	-2.66933903	
C5orf38	-0.33863811	0.04050602	-2.66910706	
FLJ40142	-0.33858859	0.04052505	-2.66866624	
MFAP3	0.33857569	0.04052505	2.66855144	
BOLA1	0.33858868	0.04052505	2.66866702	
VCP	0.33857424	0.04052505	2.66853854	
F2RL3	-0.33858527	0.04052505	-2.66863665	yes
RPS16	0.33853856	0.04055060	2.66822086	
ETNK1	0.33851040	0.04056070	2.66797021	
QTRTD1	0.33851701	0.04056070	2.66802906	

OR5T3	-0.33849569	0.04056636	-2.66783927	
SH2D6	-0.33846574	0.04058649	-2.66757267	
SYT13	-0.33844212	0.04060061	-2.66736243	
MT4	-0.33843024	0.04060359	-2.66725668	
SFTP8	-0.33838966	0.04063383	-2.66689552	
LOC729756	-0.33836331	0.04065057	-2.66666100	
ACTR2	0.33830814	0.04068640	2.66617001	
ACTN3	-0.33830837	0.04068640	-2.66617201	
HHIPL2	-0.33827669	0.04070802	-2.66589008	
IFNAR2	0.33824094	0.04072791	2.66557200	
COX16	0.33823831	0.04072791	2.66554860	
GIN1	0.33821208	0.04074457	2.66531514	
OR13H1	-0.33817666	0.04076999	-2.66499995	
C12orf42	-0.33815549	0.04078183	-2.66481164	
TLL2	-0.33814598	0.04078258	-2.66472696	
ABI1	0.33812942	0.04079003	2.66457968	yes
hCG_1993592	-0.33811038	0.04079986	-2.66441028	
ZNF267	0.33808327	0.04081739	2.66416900	
SEP14	-0.33804899	0.04084176	-2.66386406	
IRAK1BP1	0.33801411	0.04085912	2.66355376	
GTPBP8	0.33801334	0.04085912	2.66354691	
CPNE8	0.33800121	0.04086092	2.66343900	
MYH13	-0.33799400	0.04086092	-2.66337487	
GLRA3	-0.33796900	0.04087647	-2.66315238	
OR6C1	-0.33795907	0.04087762	-2.66306404	
KCNH2	-0.33786536	0.04095050	-2.66223045	
RBM3	0.33787043	0.04095050	2.66227562	
OR6F1	-0.33784762	0.04095912	-2.66207266	
MAMLD1	-0.33782357	0.04096397	-2.66185881	
APOF	-0.33781639	0.04096397	-2.66179491	
OR4K5	-0.33782913	0.04096397	-2.66190825	
C21orf87	-0.33780423	0.04096727	-2.66168674	
MUC4	0.33774679	0.04101389	2.66117591	

ART4	-0.33769735	0.04105290	-2.66073617	yes
SNORA71C	-0.33766529	0.04107527	-2.66045111	
SMCR5	-0.33760647	0.04111497	-2.65992803	
SCPEP1	0.33761339	0.04111497	2.65998954	
DHX8	0.33758894	0.04112343	2.65977217	
RAB31	0.33753962	0.04113734	2.65933363	
LOC388931	-0.33754116	0.04113734	-2.65934727	
CAT	0.33754002	0.04113734	2.65933715	
CCDC149	-0.33756540	0.04113734	-2.65956287	
SRP19	-0.33748931	0.04117729	-2.65888626	
POM121L2	-0.33747611	0.04118161	-2.65876892	
HIST1H4F	0.33746232	0.04118650	2.65864627	
ZMPSTE24	0.33740402	0.04123416	2.65812797	
TSPAN15	0.33738281	0.04123783	2.65793939	
TOMM20	0.33738956	0.04123783	2.65799946	
ATP1A4	-0.33737136	0.04124047	-2.65783765	
BCDIN3D	0.33734348	0.04125892	2.65758978	
INHBA	-0.33730703	0.04127726	-2.65726575	
TNKS	0.33730771	0.04127726	2.65727179	
BHLHE41	-0.33728640	0.04128875	-2.65708238	
OR5M1	-0.33721450	0.04134962	-2.65644330	
TMEM70	0.33717443	0.04136501	2.65608716	
LNX1	0.33717848	0.04136501	2.65612315	
MSC	-0.33717246	0.04136501	-2.65606966	
PROK1	-0.33715228	0.04137610	-2.65589023	
MDM1	0.33714320	0.04137647	2.65580959	
OR52B4	-0.33712867	0.04138211	-2.65568046	
FXC1	0.33703538	0.04146375	2.65485133	
MAGEE2	-0.33701943	0.04147077	-2.65470962	
COL11A1	-0.33698895	0.04149183	-2.65443878	
CORO6	-0.33697501	0.04149690	-2.65431495	
NUTF2	0.33691492	0.04152982	2.65378097	
KLHL20	0.33691632	0.04152982	2.65379338	

C10orf28	0.33692839	0.04152982	2.65390069	
KLHL10	-0.33686267	0.04153842	-2.65331671	
TRAPPC4	0.33687357	0.04153842	2.65341359	
C20orf43	0.33689727	0.04153842	2.65362414	
PIGC	0.33686801	0.04153842	2.65336419	
ISX	-0.33687291	0.04153842	-2.65340769	
SLC29A2	-0.33684131	0.04155069	-2.65312692	
PDZRN3	-0.33681137	0.04155459	-2.65286092	
TNPO3	0.33680336	0.04155459	2.65278975	
IRS4	-0.33682367	0.04155459	-2.65297019	
RECQL4	-0.33680262	0.04155459	-2.65278318	
CSNK1A1L	-0.33676269	0.04157496	-2.65242852	
SRrp35	-0.33675282	0.04157496	-2.65234081	
RPA1	0.33674692	0.04157496	2.65228834	
FUZ	0.33674838	0.04157496	2.65230137	
PNPLA1	-0.33673123	0.04158176	-2.65214900	
MMAA	0.33671168	0.04159230	2.65197535	
ATP1B4	-0.33657692	0.04171235	-2.65077829	
PITPNM2	-0.33657048	0.04171235	-2.65072110	yes
FAM26F	-0.33656034	0.04171379	-2.65063107	
MYH8	-0.33652618	0.04173854	-2.65032766	
LETMD1	0.33649871	0.04175681	2.65008370	
TRIP13	0.33643008	0.04181507	2.64947424	yes
NICN1	0.33641509	0.04182123	2.64934113	
SRP68	0.33640422	0.04182340	2.64924455	
CLN5	0.33635166	0.04186610	2.64877784	
LMBRD2	0.33632927	0.04187948	2.64857901	
KRT71	-0.33630958	0.04189000	-2.64840417	
LAMB4	-0.33630116	0.04189000	-2.64832945	
KANK3	-0.33625888	0.04192276	-2.64795407	
CNGA4	0.33621652	0.04192967	2.64757791	
LOC148003	-0.33621198	0.04192967	-2.64753768	
EXT1	0.33623402	0.04192967	2.64773329	

EIF3L	0.33616993	0.04192967	2.64716433	
PSMB8	0.33620836	0.04192967	2.64750551	
RAD51C	0.33615679	0.04192967	2.64704763	
SKP2	0.33619460	0.04192967	2.64738332	yes
TPR	0.33617895	0.04192967	2.64724443	
TRIM48	-0.33622002	0.04192967	-2.64760906	
C14orf45	0.33616339	0.04192967	2.64710628	
CLDN2	-0.33617805	0.04192967	-2.64723641	
KCNH4	-0.33604363	0.04203158	-2.64604313	
NMB	-0.33602723	0.04203916	-2.64589757	
SLC6A12	-0.33596940	0.04208692	-2.64538428	
SLC22A4	0.33596107	0.04208692	2.64531035	
FAM131C	-0.33593362	0.04210531	-2.64506673	
LOC152118	-0.33592217	0.04210807	-2.64496510	
PPP1R3F	-0.33588822	0.04213283	-2.64466374	
IREB2	0.33585801	0.04215394	2.64439566	
FLT4	-0.33582970	0.04217320	-2.64414444	yes
PCOLCE	-0.33578480	0.04220872	-2.64374600	
HIST1H2BN	-0.33577238	0.04221088	-2.64363575	
MORF4L2	0.33576535	0.04221088	2.64357342	yes
OR4N2	-0.33574289	0.04222445	-2.64337404	
CPLP	-0.33569789	0.04226009	-2.64297477	
GPR55	-0.33566834	0.04228062	-2.64271257	
HMGB1L10	0.33565212	0.04228808	2.64256866	
CDKN2C	0.33561480	0.04231314	2.64223752	
RP11-345P4.4	0.33560934	0.04231314	2.64218914	
CYP2W1	-0.33560024	0.04231362	-2.64210835	
WDR7	0.33556437	0.04234037	2.64179020	
MARCH11	-0.33555509	0.04234103	-2.64170785	
HIG2	0.33553366	0.04235362	2.64151769	
CTHRC1	-0.33545771	0.04241978	-2.64084397	
SLC26A1	-0.33541551	0.04244435	-2.64046964	
LOC554206	0.33542191	0.04244435	2.64052638	

CYP27B1	-0.33539115	0.04245985	-2.64025357	
OR4D11	-0.33534234	0.04249375	-2.63982061	
OGG1	-0.33533950	0.04249375	-2.63979543	
SH2D3C	-0.33524601	0.04253979	-2.63896626	
CLDN16	0.33528198	0.04253979	2.63928531	
CDH23	-0.33525668	0.04253979	-2.63906094	yes
BST1	-0.33525016	0.04253979	-2.63900309	
VRK1	0.33524816	0.04253979	2.63898536	
ASXL3	-0.33523697	0.04253979	-2.63888612	
CHMP4C	0.33523257	0.04253979	2.63884709	
RHBDD3	-0.33521677	0.04254689	-2.63870699	
C10orf113	0.33520554	0.04254950	2.63860736	
WDSUB1	0.33519463	0.04255178	2.63851065	
PAPOLA	0.33508845	0.04258030	2.63756909	yes
DACH2	-0.33513420	0.04258030	-2.63797473	
TTBK2	0.33509112	0.04258030	2.63759275	
OTOA	-0.33513613	0.04258030	-2.63799192	
KRTAP5-6	-0.33510685	0.04258030	-2.63773223	
KPRP	-0.33511853	0.04258030	-2.63783579	
TRPV5	-0.33515691	0.04258030	-2.63817618	
RPS6KA3	0.33509555	0.04258030	2.63763208	
SYTL3	0.33509097	0.04258030	2.63759147	
FLJ32810	0.33506076	0.04259069	2.63732360	
THY1	-0.33506878	0.04259069	-2.63739465	yes
COX6B2	-0.33503029	0.04259729	-2.63705346	
SOSTDC1	-0.33502836	0.04259729	-2.63703626	
RUNX3	-0.33504231	0.04259729	-2.63715994	
CCR9	-0.33497630	0.04263250	-2.63657473	
OR8B3	-0.33497505	0.04263250	-2.63656362	
FXVD8	-0.33496694	0.04263250	-2.63649179	
IFNA16	-0.33491499	0.04267533	-2.63603117	
C3orf45	-0.33490270	0.04267900	-2.63592228	
ZNF207	0.33488057	0.04269241	2.63572603	

VAT1L	-0.33483514	0.04272883	-2.63532334	
IL17B	-0.33468948	0.04284754	-2.63403231	
LTC4S	-0.33469689	0.04284754	-2.63409791	
ANKMY1	0.33469063	0.04284754	2.63404246	
TRIM72	-0.33465628	0.04287195	-2.63373806	
SNORD115-8	-0.33462807	0.04288656	-2.63348803	
C3orf22	-0.33462442	0.04288656	-2.63345571	
OR2T1	-0.33459173	0.04291050	-2.63316598	
LRRC38	-0.33455716	0.04291084	-2.63285965	
APITD1	0.33456304	0.04291084	2.63291169	
PCDH19	-0.33456164	0.04291084	-2.63289937	
PSMD6	0.33456996	0.04291084	2.63297307	
ZNF469	-0.33452476	0.04293450	-2.63257256	
LOC100129484	-0.33450817	0.04293815	-2.63242554	
TMEM9	0.33450399	0.04293815	2.63238843	
MED6	0.33448023	0.04294305	2.63217792	yes
GBAP	0.33445505	0.04294305	2.63195480	
TCL6	-0.33444779	0.04294305	-2.63189050	
ANK3	0.33447582	0.04294305	2.63213888	yes
C7orf46	0.33447113	0.04294305	2.63209727	
RSPH3	0.33445367	0.04294305	2.63194259	
C1orf110	0.33430733	0.04307410	2.63064602	yes
CNGB1	-0.33429191	0.04308093	-2.63050949	
FBXO47	-0.33424929	0.04311485	-2.63013188	
LOC389199	-0.33421981	0.04313570	-2.62987076	
GRTP1	0.33419728	0.04314963	2.62967121	
C2orf63	0.33417829	0.04315746	2.62950296	
AQP2	-0.33417235	0.04315746	-2.62945039	
GABRQ	-0.33406436	0.04324812	-2.62849386	
CAPNS1	0.33406469	0.04324812	2.62849678	
RHOA	0.33404840	0.04325553	2.62835252	
ALG10B	0.33399981	0.04329553	2.62792216	
C2orf57	-0.33398567	0.04329846	-2.62779700	

C17orf68	-0.33397981	0.04329846	-2.62774506	
ODF2L	0.33396534	0.04330440	2.62761692	
DUSP19	0.33394937	0.04331183	2.62747548	
PEX5L	-0.33392719	0.04332547	-2.62727912	
TOR1AIP2	0.33388368	0.04336044	2.62689386	
SNORD115-38	-0.33384982	0.04337725	-2.62659403	
HRG	-0.33385107	0.04337725	-2.62660510	
FAM167B	-0.33382562	0.04339294	-2.62637971	
KIAA0232	0.33380951	0.04340053	2.62623710	yes
PAQR9	-0.33377165	0.04342223	-2.62590189	
PSMB7	0.33377079	0.04342223	2.62589425	
POU5F1P1	-0.33375189	0.04342785	-2.62572694	
RLF	0.33373962	0.04342785	2.62561834	
MRPL19	0.33373974	0.04342785	2.62561934	
MAZ	-0.33372870	0.04343026	-2.62552165	
FLJ42291	-0.33365866	0.04349189	-2.62490161	
SIGLEC10	-0.33364249	0.04349957	-2.62475844	
COL4A3BP	0.33361963	0.04351395	2.62455608	
C9orf98	0.33360475	0.04352034	2.62442436	
LANCL1	0.33356978	0.04352129	2.62411475	
PFKFB3	0.33358931	0.04352129	2.62428769	
ZNF20	0.33357609	0.04352129	2.62417063	
PNPLA4	0.33357625	0.04352129	2.62417206	
FOXA2	-0.33354770	0.04353490	-2.62391933	
FAM155B	-0.33349870	0.04357553	-2.62348563	
RAI2	-0.33347258	0.04358600	-2.62325444	
RNF44	-0.33345428	0.04358600	-2.62309245	
C1orf146	-0.33346408	0.04358600	-2.62317927	
TEX13B	-0.33346241	0.04358600	-2.62316445	
NEU4	-0.33344324	0.04358854	-2.62299479	
CUL1	0.33339893	0.04360745	2.62260264	
SYAP1	0.33341218	0.04360745	2.62271989	
GNA14	0.33340082	0.04360745	2.62261938	

FAM182A	-0.33335409	0.04364396	-2.62220579	
PPP1CB	0.33331352	0.04367620	2.62184681	
NLGN1	-0.33330350	0.04367774	-2.62175812	
ABHD2	0.33322626	0.04373670	2.62107463	
RTP1	-0.33321942	0.04373670	-2.62101415	
TIGD2	0.33322936	0.04373670	2.62110210	
MOCS1	-0.33317205	0.04377586	-2.62059500	
GALM	0.33313364	0.04378037	2.62025517	
GABBR1	-0.33314232	0.04378037	-2.62033198	
CISD1	0.33313418	0.04378037	2.62025993	
HIST1H4E	0.33315565	0.04378037	2.62044992	
IL9	-0.33308172	0.04382415	-2.61979579	
MRGPRE	-0.33306244	0.04383503	-2.61962528	
RNASE1	-0.33304514	0.04384392	-2.61947225	yes
RNF11	0.33303441	0.04384619	2.61937730	
RPL12P16	0.33300795	0.04386433	2.61914327	
SSTR5	-0.33299099	0.04387289	-2.61899323	
FGFBP3	-0.33293456	0.04392107	-2.61849405	
OR8D1	-0.33292143	0.04392107	-2.61837793	
KRTAP11-1	-0.33291784	0.04392107	-2.61834615	
ELMOD2	0.33288248	0.04393967	2.61803339	
KIAA0753	0.33288334	0.04393967	2.61804096	
YIPF5	0.33284156	0.04397247	2.61767146	
HADH	0.33282328	0.04398239	2.61750976	
LINS1	0.33266523	0.04413382	2.61611208	
MID1	0.33262104	0.04417005	2.61572134	
MYBL2	-0.33257896	0.04419556	-2.61534928	
CALM2	0.33258389	0.04419556	2.61539282	
CYLC1	-0.33253971	0.04422682	-2.61500222	
APOE	-0.33252655	0.04423159	-2.61488586	
C21orf90	-0.33251602	0.04423368	-2.61479278	
ZNF695	-0.33248632	0.04425527	-2.61453015	
ANXA2P3	-0.33246919	0.04425547	-2.61437873	

PAPD5	0.33247364	0.04425547	2.61441806	
ARL6IP1	0.33244249	0.04426541	2.61414273	
SSBP1	0.33244853	0.04426541	2.61419606	
CLTCL1	-0.33241863	0.04428107	-2.61393175	yes
SATB2	-0.33240037	0.04429103	-2.61377038	
ERLIN2	0.33239056	0.04429241	2.61368364	
DMRTC2	-0.33236246	0.04430415	-2.61343520	
VWA1	-0.33236211	0.04430415	-2.61343212	yes
TBL1XR1	0.33234392	0.04431405	2.61327135	
CNN1	-0.33229011	0.04433441	-2.61279568	
GPR113	-0.33229185	0.04433441	-2.61281104	
EME2	-0.33231371	0.04433441	-2.61300431	
BCS1L	0.33229783	0.04433441	2.61286396	
OR8D4	-0.33220582	0.04441162	-2.61205074	
SNORA7B	0.33218024	0.04442908	2.61182465	
MARCH6	0.33216112	0.04443996	2.61165568	
NXF4	-0.33213829	0.04445463	-2.61145391	
UTX	0.33210312	0.04448189	2.61114305	yes
GPR25	-0.33207919	0.04449769	-2.61093158	
CDS1	0.33202068	0.04454880	2.61041458	yes
NHSL2	-0.33190320	0.04466029	-2.60937654	
KRTAP1-1	-0.33186731	0.04468838	-2.60905951	
OR2C1	-0.33184135	0.04470633	-2.60883011	
CENPV	-0.33181261	0.04472226	-2.60857626	
HPS3	0.33180892	0.04472226	2.60854365	
DAOA	-0.33178311	0.04474007	-2.60831560	
PQLC3	0.33173545	0.04476821	2.60789457	
SNORD113-4	-0.33173035	0.04476821	-2.60784955	
NUP153	0.33173271	0.04476821	2.60787044	yes
FAM90A1	-0.33167217	0.04481924	-2.60733567	
JMJD3	-0.33163846	0.04484219	-2.60703791	
FBXO24	-0.33163295	0.04484219	-2.60698923	
SSTR2	-0.33160391	0.04486336	-2.60673271	

RPL30P8	-0.33150911	0.04494657	-2.60589549	
VPS13C	0.33150610	0.04494657	2.60586895	
PACRGL	0.33147198	0.04497301	2.60556764	
AURKC	-0.33144936	0.04498762	-2.60536784	
NEDD1	0.33141426	0.04499707	2.60505785	
PPP2R5A	0.33140648	0.04499707	2.60498915	
ZP4	-0.33141976	0.04499707	-2.60510644	
TRPC4	-0.33141948	0.04499707	-2.60510402	
GALK1	-0.33136053	0.04503571	-2.60458350	
WFDC6	0.33134708	0.04504090	2.60446468	
PADI6	-0.33132345	0.04505658	-2.60425602	
RP11-35F15.2	-0.33128779	0.04508466	-2.60394122	
CLDN4	0.33125067	0.04511427	2.60361346	
FSCB	-0.33124045	0.04511613	-2.60352321	
C3orf53	-0.33122706	0.04512125	-2.60340504	
SNRPB	0.33119655	0.04513537	2.60313567	
CUL3	0.33119700	0.04513537	2.60313963	
LOC441795	-0.33114508	0.04517983	-2.60268130	
IL3	-0.33111239	0.04520491	-2.60239271	
ARPC4	0.33100864	0.04528679	2.60147697	
C1orf58	0.33100109	0.04528679	2.60141033	yes
DEFB1	-0.33099462	0.04528679	-2.60135320	
PLVAP	-0.33100117	0.04528679	-2.60141101	yes
FNDC1	-0.33099116	0.04528679	-2.60132266	
GS85	-0.33089858	0.04534418	-2.60050558	
GCKR	-0.33089399	0.04534418	-2.60046504	
C5orf28	0.33090747	0.04534418	2.60058405	
HESX1	-0.33089370	0.04534418	-2.60046253	
C4orf42	0.33092322	0.04534418	2.60072305	
LOC100130089	-0.33087713	0.04535265	-2.60031625	
SACM1L	0.33086406	0.04535748	2.60020097	
CRYGA	-0.33081948	0.04538364	-2.59980752	
C1orf150	-0.33081260	0.04538364	-2.59974682	

OR2T8	-0.33080522	0.04538364	-2.59968172	
NETO1	-0.33082390	0.04538364	-2.59984651	
GRIK4	-0.33078970	0.04539103	-2.59954474	
CCDC17	0.33076924	0.04540036	2.59936425	
CST7	-0.33076392	0.04540036	-2.59931725	
ELFN2	-0.33064256	0.04550889	-2.59824647	
ICMT	0.33064649	0.04550889	2.59828115	
COL8A2	-0.33062877	0.04551090	-2.59812484	yes
FGF17	-0.33062384	0.04551090	-2.59808133	
WIT1	-0.33060839	0.04551823	-2.59794502	
NKAIN2	-0.33058068	0.04553832	-2.59770052	
SEPW1	0.33056715	0.04554366	2.59758117	
TRIM61	-0.33055265	0.04555001	-2.59745330	
NIPSNAP3A	0.33047271	0.04560700	2.59674810	
KIR2DL4	-0.33048491	0.04560700	-2.59685572	
BBOX1	0.33047294	0.04560700	2.59675008	
TTY11	-0.33046358	0.04560778	-2.59666755	
OR2L3	-0.33043494	0.04562886	-2.59641492	
CHST3	-0.33042337	0.04563218	-2.59631285	
CCDC34	0.33038068	0.04566791	2.59593635	
GSTK1	0.33037120	0.04566906	2.59585270	
MSH3	0.33028123	0.04574538	2.59505920	
CCDC70	-0.33028941	0.04574538	-2.59513134	
RAB3IL1	-0.33027059	0.04574774	-2.59496539	
RPS26P2	-0.33024585	0.04576481	-2.59474722	
HTR1D	-0.33021192	0.04579148	-2.59444797	
NF-E4	-0.33018080	0.04581524	-2.59417353	
TRIM37	0.33014692	0.04584188	2.59387482	yes
TET2	0.33013122	0.04584954	2.59373635	yes
DIABLO	0.33010694	0.04586617	2.59352227	
C19orf42	0.33008655	0.04587874	2.59334244	
MMD2	-0.33007170	0.04588551	-2.59321153	
CPN1	-0.33003260	0.04591765	-2.59286680	

CCT4	0.32997849	0.04593052	2.59238971	
ACVR1C	-0.32999476	0.04593052	-2.59253321	
DOM3Z	-0.33000347	0.04593052	-2.59261000	
TMEM87A	0.32999285	0.04593052	2.59251636	
SERGEF	0.32998607	0.04593052	2.59245659	
C7orf33	-0.32996573	0.04593512	-2.59227727	
PP8961	-0.32993297	0.04596066	-2.59198841	
FAM71D	-0.32990980	0.04597616	-2.59178422	
MLH1	0.32989927	0.04597844	2.59169138	
FAM9C	-0.32984964	0.04601292	-2.59125390	yes
EIF6	0.32985517	0.04601292	2.59130257	
NME5	0.32979664	0.04605972	2.59078670	
FLJ46838	-0.32978753	0.04606051	-2.59070639	yes
HIST3H3	-0.32975040	0.04609070	-2.59037909	
BTBD16	-0.32973128	0.04610123	-2.59021056	
CYP4F2	-0.32972366	0.04610123	-2.59014347	
SOX14	-0.32969237	0.04612531	-2.58986769	
COPS8	0.32966594	0.04614429	2.58963475	
OR5D16	-0.32963305	0.04617008	-2.58934484	
SERPINA2	-0.32962005	0.04617085	-2.58923028	
TMEM121	-0.32961562	0.04617085	-2.58919127	
GPR17	-0.32959730	0.04618133	-2.58902985	
GIPC3	-0.32957469	0.04619633	-2.58883053	
hCG_1994895	-0.32956474	0.04619801	-2.58874291	
ITIH4	-0.32953364	0.04621318	-2.58846882	
SRM	-0.32953706	0.04621318	-2.58849899	
KLKB1	0.32944715	0.04629508	2.58770674	
NARG2	0.32943911	0.04629508	2.58763584	
GJA5	-0.32941399	0.04631274	-2.58741460	
MRPL2	0.32938599	0.04633346	2.58716790	
CSF2	-0.32934577	0.04636530	-2.58681349	
DDX56	0.32933911	0.04636530	2.58675484	
SYS1	0.32932704	0.04636924	2.58664848	

MYL12A	0.32931074	0.04637635	2.58650489
SNAP29	0.32930363	0.04637635	2.58644223
MAEA	0.32927291	0.04637779	2.58617162
PTH2	-0.32927263	0.04637779	-2.58616919
CATSPER2	0.32926062	0.04637779	2.58606341
LOC100133415	-0.32926416	0.04637779	-2.58609458
EIF3I	0.32926922	0.04637779	2.58613918
DPY19L2P2	0.32924930	0.04638095	2.58596368
PCM1	0.32919600	0.04642262	2.58549413
RNF150	-0.32919314	0.04642262	-2.58546898
NPR1	-0.32916884	0.04643949	-2.58525491
SPAG6	0.32914999	0.04645060	2.58508885
UTP6	0.32913880	0.04645161	2.58499029
PAPOLB	-0.32913240	0.04645161	-2.58493392
ZMYM5	0.32908196	0.04649608	2.58448966
PIK3AP1	-0.32900450	0.04656916	-2.58380750
ALS2CR11	-0.32897314	0.04659353	-2.58353136
TNFAIP3	0.32894823	0.04661110	2.58331195
RP11-90M2.3	-0.32892209	0.04662996	-2.58308179
FMR1NB	-0.32890914	0.04663487	-2.58296773
MRFAP1L1	0.32884920	0.04668957	2.58243990
MATN1	-0.32883081	0.04669480	-2.58227801
CAMK1D	0.32882764	0.04669480	2.58225008
SNORA71A	-0.32881656	0.04669773	-2.58215258
SNORD116-2	-0.32870611	0.04676229	-2.58118009
UNQ5836	-0.32870585	0.04676229	-2.58117782
OR52M1	-0.32871873	0.04676229	-2.58129118
FAM148A	-0.32874387	0.04676229	-2.58151251
TAAR8	-0.32871710	0.04676229	-2.58127686
KRBA1	-0.32871724	0.04676229	-2.58127811
GRID1	-0.32866220	0.04679981	-2.58079350
FRG1	0.32863631	0.04681706	2.58056561
KIF21A	0.32862105	0.04681706	2.58043130

C16orf70	0.32862106	0.04681706	2.58043136	
TAF13	0.32858642	0.04684503	2.58012641	
DBN1	-0.32850835	0.04690156	-2.57943922	yes
DLX5	-0.32852444	0.04690156	-2.57958085	
IQCJ	-0.32850984	0.04690156	-2.57945240	
NPY5R	-0.32847711	0.04691498	-2.57916430	
OPCML	-0.32847085	0.04691498	-2.57910921	
HKDC1	-0.32847817	0.04691498	-2.57917366	
TARDBP	0.32843407	0.04694530	2.57878545	
F12	-0.32839568	0.04696851	-2.57844763	
ABHD7	-0.32839646	0.04696851	-2.57845451	
GRM2	-0.32837110	0.04698586	-2.57823131	
OR2K2	-0.32835796	0.04699103	-2.57811566	
PLCH2	-0.32833897	0.04700243	-2.57794854	
CSF1	-0.32832077	0.04701106	-2.57778838	
SLC39A4	-0.32831430	0.04701106	-2.57773141	
KRT79	-0.32829617	0.04702155	-2.57757189	
E2F5	0.32825982	0.04704401	2.57725200	
FAM124A	-0.32825853	0.04704401	-2.57724072	
NDUFC1	0.32823411	0.04705814	2.57702577	
VTA1	0.32822872	0.04705814	2.57697838	yes
KTELC1	0.32821328	0.04706577	2.57684255	
ODF3L2	-0.32819977	0.04707136	-2.57672363	
PHACTR3	-0.32818871	0.04707433	-2.57662635	
DENND2A	-0.32812031	0.04713623	-2.57602451	
BRWD2	0.32810833	0.04713623	2.57591912	
ALLC	-0.32810588	0.04713623	-2.57589752	
C17orf47	-0.32807696	0.04715205	-2.57564315	
PDHB	0.32807452	0.04715205	2.57562164	
ADAMTS19	-0.32803364	0.04718098	-2.57526202	
NCOA3	0.32802262	0.04718098	2.57516507	
LRP5L	-0.32802614	0.04718098	-2.57519602	
C21orf125	-0.32801222	0.04718327	-2.57507357	

PMS1	0.32788092	0.04731484	2.57391864	
HSPB7	-0.32786873	0.04731904	-2.57381144	
EXOSC3	0.32783576	0.04734550	2.57352144	
LCMT2	0.32781938	0.04735419	2.57337739	
TBCB	0.32776751	0.04740094	2.57292116	
FBXO36	0.32774986	0.04741100	2.57276596	
ERI2	0.32771304	0.04744164	2.57244212	
PCSK2	-0.32768566	0.04746216	-2.57220139	
HBXIP	0.32766223	0.04747233	2.57199533	
C15orf26	0.32765967	0.04747233	2.57197277	
NME7	0.32762344	0.04748463	2.57165421	
NECAB2	-0.32762653	0.04748463	-2.57168138	
USP4	0.32762581	0.04748463	2.57167501	
C6orf122	-0.32759036	0.04749369	-2.57136337	
USP11	0.32760375	0.04749369	2.57148104	
EIF4A3	0.32759025	0.04749369	2.57136238	
PNMA5	-0.32758138	0.04749436	-2.57128435	
TCTN2	0.32751459	0.04755725	2.57069711	
COX7B2	-0.32747977	0.04756808	-2.57039098	
HOXC6	-0.32748477	0.04756808	-2.57043494	
ZNF845	0.32749560	0.04756808	2.57053014	
ADCY10	-0.32743069	0.04761200	-2.56995949	
LOC100129648	-0.32741619	0.04761873	-2.56983200	
PVR	-0.32738456	0.04764389	-2.56955399	
GPSM1	-0.32735053	0.04767166	-2.56925481	
FGF	-0.32733129	0.04768351	-2.56908565	
ACTG2	-0.32730517	0.04770277	-2.56885603	
ZNF273	0.32726594	0.04772729	2.56851127	
HNRPLL	0.32727088	0.04772729	2.56855470	
TPO	-0.32723226	0.04775472	-2.56821517	yes
CYP8B1	-0.32721539	0.04775514	-2.56806696	
SNCG	-0.32721946	0.04775514	-2.56810273	
IDH3B	0.32718890	0.04777484	2.56783407	

CLEC1B	-0.32715459	0.04777633	-2.56753254	
BBS7	0.32716046	0.04777633	2.56758411	
NMNAT1	0.32716878	0.04777633	2.56765730	
KRTAP4-1	-0.32716691	0.04777633	-2.56764082	
ADAD1	-0.32713890	0.04778437	-2.56739470	
IPO11	0.32712163	0.04779413	2.56724285	
NAE1	0.32710278	0.04780559	2.56707721	
DLC1	-0.32704828	0.04783858	-2.56659828	
GHRL	-0.32702288	0.04783858	-2.56637506	
CHDH	-0.32705991	0.04783858	-2.56670049	
TMEM25	-0.32702722	0.04783858	-2.56641321	
CARTPT	-0.32703223	0.04783858	-2.56645720	
MRC2	-0.32702403	0.04783858	-2.56638522	yes
CCDC106	-0.32701164	0.04784184	-2.56627630	
FAM107A	-0.32698368	0.04784976	-2.56603060	
DDX20	0.32697966	0.04784976	2.56599532	
KIAA0528	0.32699283	0.04784976	2.56611102	
WDR68	0.32694933	0.04785291	2.56572877	
SRD5A2	0.32694389	0.04785291	2.56568102	
NEK11	0.32696633	0.04785291	2.56587820	
DNAL1	0.32695308	0.04785291	2.56576177	
FAM109A	-0.32693090	0.04785807	-2.56556688	
IGF2BP3	0.32689455	0.04787075	2.56524745	
C1orf163	0.32690119	0.04787075	2.56530579	
CALCR	-0.32690013	0.04787075	-2.56529647	
DDX23	0.32687835	0.04787938	2.56510512	
C12orf41	0.32686609	0.04788377	2.56499740	
MAGEB10	-0.32684735	0.04789515	-2.56483277	
METTL5	0.32682148	0.04791424	2.56460548	yes
CHI3L2	-0.32677068	0.04796028	-2.56415919	
RAN	0.32676249	0.04796028	2.56408724	
RASGEF1C	-0.32675222	0.04796252	-2.56399702	
BCL2L1	0.32672131	0.04798709	2.56372549	

HEPN1	-0.32661885	0.04808918	-2.56282543	
SHE	-0.32660530	0.04809498	-2.56270642	
C11orf72	-0.32656944	0.04812497	-2.56239149	
LOC404266	-0.32655729	0.04812926	-2.56228479	
KCNJ5	-0.32653939	0.04813978	-2.56212758	
NOXA1	-0.32651640	0.04815584	-2.56192560	
FAF1	0.32644902	0.04820230	2.56133389	
KCMF1	0.32645239	0.04820230	2.56136346	
C19orf67	-0.32646232	0.04820230	-2.56145066	
OR1A2	-0.32636771	0.04827567	-2.56061990	
KLHL6	0.32636512	0.04827567	2.56059713	
KRTAP17-1	-0.32633306	0.04830163	-2.56031557	
LOC120824	-0.32629819	0.04830394	-2.56000945	
EDN2	-0.32631396	0.04830394	-2.56014785	
ART3	-0.32632074	0.04830394	-2.56020746	
PRKAR1B	-0.32629994	0.04830394	-2.56002482	
C6orf170	0.32627214	0.04832338	2.55978067	
KIFAP3	0.32623455	0.04835538	2.55945068	
HOXA2	-0.32621771	0.04836481	-2.55930280	
SGMS2	0.32618668	0.04837414	2.55903041	yes
CLDN14	-0.32619479	0.04837414	-2.55910153	
TAS1R2	-0.32618460	0.04837414	-2.55901210	
PLEKHF2	0.32617211	0.04837883	2.55890248	
USP32	0.32615557	0.04838795	2.55875721	
VPS29	0.32614716	0.04838813	2.55868341	
SLC25A11	0.32613905	0.04838813	2.55861221	
ARPC1A	0.32611010	0.04839342	2.55835811	
GPR111	-0.32610767	0.04839342	-2.55833676	
OR52L1	-0.32610151	0.04839342	-2.55828267	
TNNT1	-0.32611972	0.04839342	-2.55844252	
DEFB115	-0.32607037	0.04840955	-2.55800933	
ATP6V1H	0.32607784	0.04840955	2.55807490	
RBM5	0.32603394	0.04841981	2.55768954	

SIRPA	-0.32604154	0.04841981	-2.55775622	
CCDC126	0.32605042	0.04841981	2.55783417	
PKMYT1	-0.32602830	0.04841981	-2.55764003	
TH	-0.32597953	0.04846406	-2.55721195	
TDH	-0.32592735	0.04850317	-2.55675391	
FAM170A	-0.32593431	0.04850317	-2.55681503	
RAPGEF3	-0.32582541	0.04853388	-2.55585922	yes
HBS1L	0.32583834	0.04853388	2.55597277	
PIWIL4	-0.32586383	0.04853388	-2.55619643	
C20orf186	-0.32580051	0.04853388	-2.55564071	
XRN2	0.32578510	0.04853388	2.55550556	
TMEM59L	-0.32581599	0.04853388	-2.55577657	
N6AMT1	0.32580461	0.04853388	2.55567675	
APOB	-0.32586434	0.04853388	-2.55620096	
NBPF7	-0.32580167	0.04853388	-2.55565091	
OR4M2	-0.32581902	0.04853388	-2.55580319	
BCL2L15	0.32583501	0.04853388	2.55594350	
NXT2	0.32586549	0.04853388	2.55621103	yes
BCCIP	0.32579067	0.04853388	2.55555440	
MRPL47	0.32579834	0.04853388	2.55562171	
SEMA6C	-0.32577449	0.04853657	-2.55541245	
CALHM3	-0.32572721	0.04857129	-2.55499749	
ZNF280A	-0.32572640	0.04857129	-2.55499045	
WDR38	0.32571732	0.04857232	2.55491074	
ADAM30	-0.32567511	0.04857411	-2.55454038	
CNOT10	0.32566689	0.04857411	2.55446819	
GPR37	-0.32567386	0.04857411	-2.55452935	
AMTN	-0.32568464	0.04857411	-2.55462397	
TEKT3	0.32568867	0.04857411	2.55465931	
MTMR9	0.32567339	0.04857411	2.55452527	
TSGA10	0.32554306	0.04870054	2.55338175	
KRT76	-0.32551296	0.04872457	-2.55311773	
CYLC2	-0.32548738	0.04872570	-2.55289331	

HTR4	-0.32550047	0.04872570	-2.55300815	
ALOXE3	-0.32548204	0.04872570	-2.55284648	
CALML4	0.32547942	0.04872570	2.55282341	
ICOSLG	-0.32541609	0.04878466	-2.55226792	
C17orf80	0.32540119	0.04878466	2.55213723	
RAD51L1	0.32540346	0.04878466	2.55215714	
COX5B	0.32536846	0.04881163	2.55185007	
PPIL6	0.32535579	0.04881522	2.55173896	
C8orf82	-0.32534894	0.04881522	-2.55167885	yes
MAP4	-0.32533948	0.04881668	-2.55159593	
IFNA2	-0.32531021	0.04883097	-2.55133918	
TNFRSF11A	-0.32531155	0.04883097	-2.55135096	
GMPR	-0.32529297	0.04883208	-2.55118793	
SLCO1C1	-0.32529699	0.04883208	-2.55122324	
WDR35	0.32526045	0.04885884	2.55090271	
SAG	-0.32524786	0.04886375	-2.55079229	
C9orf5	0.32522364	0.04888141	2.55057993	
HSF5	-0.32514296	0.04893163	-2.54987236	
KLKBL4	-0.32515828	0.04893163	-2.55000667	
LCN10	-0.32513637	0.04893163	-2.54981457	yes
LOC440015	-0.32512112	0.04893163	-2.54968085	
DPEP2	-0.32516801	0.04893163	-2.55009205	
MRPL40	0.32512807	0.04893163	2.54974181	
SYNGR3	-0.32514933	0.04893163	-2.54992826	
C3orf58	0.32506354	0.04898597	2.54917590	
C14orf105	-0.32504733	0.04899488	-2.54903375	
BCL2L11	0.32502823	0.04900696	2.54886634	
CLCN1	-0.32500619	0.04901338	-2.54867302	
ZPBP2	-0.32501261	0.04901338	-2.54872937	
VEGFC	-0.32496975	0.04904454	-2.54835352	
PSMC2	0.32494355	0.04906444	2.54812387	
LRRC8B	0.32491921	0.04908231	2.54791047	yes
C4orf29	0.32490569	0.04908828	2.54779193	

OR13G1	-0.32488494	0.04909835	-2.54761002	
GCNT4	0.32488036	0.04909835	2.54756982	
OR6C75	-0.32487029	0.04910052	-2.54748158	
LOC100128884	-0.32477289	0.04919889	-2.54662771	
CHPF	-0.32475549	0.04920916	-2.54647519	
NDRG2	-0.32473793	0.04921067	-2.54632130	
RINT1	0.32474407	0.04921067	2.54637507	
C14orf126	0.32472385	0.04921276	2.54619785	
YEATS4	0.32471986	0.04921276	2.54616288	
ARL13B	0.32469205	0.04921835	2.54591914	
ACADM	0.32469099	0.04921835	2.54590979	
PVALB	-0.32468615	0.04921835	-2.54586741	
ZNF132	0.32468245	0.04921835	2.54583501	
LYG2	-0.32467072	0.04922237	-2.54573220	
CCNY	0.32465640	0.04922926	2.54560663	yes
IHH	-0.32464714	0.04923056	-2.54552547	
LRGUK	0.32462486	0.04923730	2.54533025	
TFRC	0.32463168	0.04923730	2.54538999	
CC2D2A	0.32458712	0.04927003	2.54499948	
LOC645225	-0.32450086	0.04935637	-2.54424347	
RGS20	-0.32448124	0.04936912	-2.54407154	
LCE3C	-0.32446778	0.04937507	-2.54395363	
FAM55A	-0.32442386	0.04940401	-2.54356877	
RRM2B	0.32442835	0.04940401	2.54360810	
LOC647597	-0.32441329	0.04940401	-2.54347612	
TNFRSF18	-0.32440932	0.04940401	-2.54344131	yes
ZNF544	0.32436526	0.04944381	2.54305532	
ZNF579	-0.32432405	0.04947423	-2.54269422	
RIPK1	0.32432164	0.04947423	2.54267311	
DGKK	-0.32429327	0.04949671	-2.54242456	
SLC30A6	0.32423045	0.04955737	2.54187420	
USP30	0.32420354	0.04957827	2.54163844	
LYN	0.32417582	0.04960007	2.54139559	

KIAA1543	-0.32415479	0.04961445	-2.54121134
CACNG2	-0.32413768	0.04961554	-2.54106152
NACA	0.32413959	0.04961554	2.54107819
OR9A2	-0.32410688	0.04964077	-2.54079173
KRTAP20-2	-0.32406935	0.04967169	-2.54046298
SERPINB11	0.32406291	0.04967169	2.54040656
ZNF627	0.32404150	0.04968652	2.54021899
GBP3	0.32402030	0.04970112	2.54003333
NPAL2	0.32400098	0.04970468	2.53986410
LZIC	0.32400833	0.04970468	2.53992846
HAVCR1	-0.32394342	0.04975967	-2.53935999
LSM1	0.32393540	0.04975967	2.53928972
HK3	-0.32391445	0.04977401	-2.53910624
MPP4	-0.32385998	0.04982566	-2.53862929
OR6X1	-0.32384334	0.04983522	-2.53848352
PTK2	0.32383377	0.04983691	2.53839977
PHIP	0.32380501	0.04985553	2.53814793
FAM175A	0.32380095	0.04985553	2.53811231
HS3ST5	-0.32377746	0.04986376	-2.53790668
CSPP1	0.32377945	0.04986376	2.53792410
C16orf52	0.32376140	0.04987269	2.53776601
KLB	-0.32374220	0.04987586	-2.53759788
PLA2R1	-0.32374673	0.04987586	-2.53763760
ACAP2	0.32373442	0.04987586	2.53752979
RCAN3	0.32369701	0.04990116	2.53720224
MCF2	-0.32368556	0.04990116	-2.53710195
UQCRC1	0.32367955	0.04990116	2.53704932
TNFSF11	-0.32368117	0.04990116	-2.53706356
CD97	0.32364878	0.04992650	2.53677993
CALB2	-0.32364019	0.04992711	-2.53670474
TMEM92	-0.32359478	0.04996879	-2.53630722
CARS2	0.32358068	0.04997556	2.53618375
BRI3BP	0.32356283	0.04998323	2.53602745

TMLHE	0.32355773	0.04998323	2.53598284	
NWD1	0.32352292	0.05001177	2.53567808	
C14orf101	0.32351610	0.05001177	2.53561838	
NKX2-6	-0.32346010	0.05006534	-2.53512818	
BIN1	-0.32338943	0.05010842	-2.53450966	
AQP6	-0.32340429	0.05010842	-2.53463969	
OR4D9	-0.32341292	0.05010842	-2.53471520	
AGMAT	-0.32339108	0.05010842	-2.53452403	
EFS	-0.32332791	0.05016826	-2.53397116	
AQP8	-0.32325363	0.05024243	-2.53332114	
MGC33407	-0.32323350	0.05025249	-2.53314498	
NCOA5	0.32322058	0.05025249	2.53303190	
RASGRF1	-0.32322670	0.05025249	-2.53308547	
KRTAP12-2	-0.32320320	0.05025398	-2.53287982	
PCK1	-0.32320441	0.05025398	-2.53289035	
ZNF610	0.32315297	0.05027959	2.53244022	
PGC	-0.32315286	0.05027959	-2.53243927	
BRUNOL4	-0.32315160	0.05027959	-2.53242823	
hCG_1776980	0.32314828	0.05027959	2.53239916	
ABI2	0.32312549	0.05029615	2.53219974	
IDI1	0.32309885	0.05031703	2.53196665	
MS4A10	-0.32306761	0.05033305	-2.53169334	
GRAMD1A	-0.32307099	0.05033305	-2.53172294	
SNORA62	-0.32306053	0.05033305	-2.53163136	
CPB2	-0.32300038	0.05039156	-2.53110510	
DRD5	-0.32298328	0.05040176	-2.53095554	
RMND5A	0.32296538	0.05040626	2.53079887	yes
ANGEL2	0.32296326	0.05040626	2.53078033	
FAM168A	-0.32292578	0.05042558	-2.53045246	
SETMAR	-0.32293048	0.05042558	-2.53049362	
SOAT1	0.32292204	0.05042558	2.53041972	
C6orf118	0.32291003	0.05043007	2.53031466	
STOX1	0.32285559	0.05048226	2.52983846	

SYCE2	-0.32284327	0.05048711	-2.52973067
CTBS	0.32282174	0.05048852	2.52954232
C4orf7	-0.32282034	0.05048852	-2.52953013
MC3R	-0.32281509	0.05048852	-2.52948419
RPA2	0.32281002	0.05048852	2.52943979
FAM170B	-0.32273123	0.05056367	-2.52875062
CLDN22	-0.32272722	0.05056367	-2.52871556
NR2C2	0.32270315	0.05057707	2.52850506
LOC93622	0.32269932	0.05057707	2.52847160
ASB8	0.32268009	0.05058973	2.52830334
WDR55	0.32265849	0.05059605	2.52811443
NARS2	0.32266270	0.05059605	2.52815129
C3orf10	0.32263831	0.05060977	2.52793801
CPNE2	0.32261366	0.05062853	2.52772245
TSGA14	0.32260110	0.05063369	2.52761256
TMEM201	-0.32256727	0.05066282	-2.52731668
ZNF816A	0.32253100	0.05068159	2.52699952
BMP2K	0.32252314	0.05068159	2.52693081
CALD1	-0.32251866	0.05068159	-2.52689168
MFSD2	0.32253489	0.05068159	2.52703352
OR10V1	-0.32247107	0.05072627	-2.52647552
C16orf73	-0.32241958	0.05077539	-2.52602529
ATAD1	0.32239890	0.05078973	2.52584443
CPT2	0.32235698	0.05081003	2.52547793
ZFP14	0.32236225	0.05081003	2.52552401
ZYX	-0.32236550	0.05081003	-2.52555245
DLEU7	-0.32233959	0.05082067	-2.52532589
DYSFIP1	-0.32231807	0.05082794	-2.52513775
COL11A2	-0.32231505	0.05082794	-2.52511139
PYGO1	-0.32230922	0.05082794	-2.52506041
TMED4	0.32229714	0.05083134	2.52495477
LCE2D	-0.32225751	0.05083134	-2.52460835
LOC440733	-0.32226322	0.05083134	-2.52465828

PTPN1	0.32228106	0.05083134	2.52481425
RPS4X	0.32224597	0.05083134	2.52450749
SIX3	-0.32224244	0.05083134	-2.52447659
DEFB126	-0.32227499	0.05083134	-2.52476116
RB1CC1	0.32224662	0.05083134	2.52451316
UNQ1870	-0.32218127	0.05086771	-2.52394190
CNGA2	-0.32218992	0.05086771	-2.52401749
FLJ46481	-0.32220224	0.05086771	-2.52412515
SPATA9	-0.32217841	0.05086771	-2.52391688
ZNF529	0.32216985	0.05086838	2.52384203
FAM71B	-0.32213006	0.05090083	-2.52349425
TRIM25	0.32212523	0.05090083	2.52345203
SDR16C5	0.32204726	0.05097105	2.52277060
C10orf108	-0.32205360	0.05097105	-2.52282598
TTC29	0.32202387	0.05098853	2.52256615
DPH3B	-0.32196239	0.05100833	-2.52202878
ZNF296	-0.32198238	0.05100833	-2.52220352
C10orf125	-0.32196430	0.05100833	-2.52204550
OR6C4	-0.32196487	0.05100833	-2.52205047
SPINK6	-0.32196581	0.05100833	-2.52205872
ATP6V1C1	0.32195867	0.05100833	2.52199628
HOOK1	0.32191374	0.05105023	2.52160368
STK4	0.32184814	0.05111563	2.52103039
KLK2	-0.32183329	0.05111665	-2.52090067
ZDHHC16	0.32183133	0.05111665	2.52088355
C9orf93	0.32170927	0.05124629	2.51981702
PAQR7	0.32166657	0.05128582	2.51944403
NOTCH4	-0.32164017	0.05130682	-2.51921333
CEBPG	0.32162964	0.05130975	2.51912141
DHX9	0.32161058	0.05132042	2.51895486
FBXO34	0.32160438	0.05132042	2.51890070
DNAH5	0.32158232	0.05132651	2.51870800
ATP5S	0.32156146	0.05132651	2.51852575

EAPP	0.32157032	0.05132651	2.51860318	
DPYSL5	-0.32157752	0.05132651	-2.51866605	
NEUROG2	-0.32155931	0.05132651	-2.51850700	
FAM172A	0.32151567	0.05136718	2.51812577	
LMCD1	-0.32144975	0.05140788	-2.51754999	yes
STRA8	-0.32146510	0.05140788	-2.51768407	
UPF3A	-0.32145422	0.05140788	-2.51758907	
OTOF	-0.32144820	0.05140788	-2.51753642	
C17orf78	-0.32138765	0.05146788	-2.51700760	
TMEM14C	0.32137551	0.05147267	2.51690160	
AVPR2	-0.32135359	0.05148863	-2.51671016	
GAD2	-0.32129581	0.05154556	-2.51620552	
FAM159A	-0.32125382	0.05157541	-2.51583881	
IPO13	0.32125844	0.05157541	2.51587919	
ROBO4	-0.32124209	0.05157975	-2.51573640	yes
YPEL5	0.32120132	0.05161729	2.51538040	
MFN1	0.32115650	0.05165950	2.51498900	
RLIM	0.32110601	0.05170822	2.51454818	
C14orf135	0.32108100	0.05172779	2.51432978	
C6orf97	0.32107015	0.05173113	2.51423508	
GPR39	0.32106110	0.05173242	2.51415605	
SFXN3	0.32105001	0.05173603	2.51405928	
ZNF644	0.32099039	0.05179529	2.51353878	
CPA1	-0.32096786	0.05179926	-2.51334208	
BEGAIN	-0.32096315	0.05179926	-2.51330095	
HOMER2	-0.32096438	0.05179926	-2.51331165	
LILRA1	-0.32089940	0.05185972	-2.51274447	
FAM169A	0.32089462	0.05185972	2.51270270	
MIB1	0.32088357	0.05186331	2.51260625	
ABHD10	0.32085966	0.05188167	2.51239751	
C13orf38	-0.32084497	0.05188944	-2.51226933	
ENO3	-0.32082045	0.05190851	-2.51205526	
ANXA2P2	0.32078959	0.05192659	2.51178594	yes

OR8H2	-0.32078887	0.05192659	-2.51177970	
PSMC6	0.32077621	0.05193204	2.51166919	
ZNF304	0.32075321	0.05194028	2.51146845	
SPATA16	-0.32075580	0.05194028	-2.51149099	
AGER	-0.32073902	0.05194750	-2.51134453	
ELA2A	-0.32072711	0.05195209	-2.51124064	
NSL1	0.32070271	0.05197105	2.51102770	
RABL3	0.32067396	0.05199502	2.51077674	
PRTN3	-0.32066252	0.05199908	-2.51067689	
ZNF683	-0.32060929	0.05205121	-2.51021245	
LGALS8	0.32059355	0.05206024	2.51007506	
CIDEC	-0.32051911	0.05213688	-2.50942548	
EPAH5	-0.32048077	0.05217196	-2.50909096	
RCC1	-0.32041124	0.05224092	-2.50848434	
PLA2G2D	-0.32040520	0.05224092	-2.50843161	
ELF1	0.32036976	0.05226425	2.50812239	yes
NBAS	0.32036870	0.05226425	2.50811319	
PKIA	-0.32036128	0.05226425	-2.50804839	
C14orf79	0.32030015	0.05232575	2.50751512	
STX7	0.32028457	0.05233462	2.50737921	
SNX29	0.32026319	0.05235021	2.50719268	
HFE2	-0.32018965	0.05242616	-2.50655122	
ARFGEF1	0.32017869	0.05242850	2.50645566	
SNAPC2	-0.32017183	0.05242850	-2.50639580	yes
TEX14	-0.32013327	0.05246400	-2.50605949	
ASZ1	-0.32011223	0.05247922	-2.50587600	
ANKRA2	0.32010266	0.05248116	2.50579254	
IL28A	-0.32003038	0.05252834	-2.50516210	
H2BFM	-0.32004170	0.05252834	-2.50526087	
NOL7	0.32004102	0.05252834	2.50525493	
OTUD7B	0.32003342	0.05252834	2.50518860	
HTRA3	-0.31995556	0.05260599	-2.50450960	
PIK3R5	-0.31991859	0.05263975	-2.50418721	

ASB17	-0.31989272	0.05266064	-2.50396161	
CRK	0.31986417	0.05268464	2.50371269	
LOC100129395	-0.31982284	0.05272352	-2.50335231	
SULT1C4	-0.31981025	0.05272898	-2.50324260	
C18orf25	0.31978910	0.05274440	2.50305819	
CLRN3	-0.31970089	0.05282872	-2.50228910	
TMPRSS12	-0.31970419	0.05282872	-2.50231786	
ADAM2	-0.31965395	0.05283620	-2.50187989	
HSF1	-0.31963139	0.05283620	-2.50168325	
KRTAP5-9	-0.31966249	0.05283620	-2.50195432	
OR5H15	-0.31963819	0.05283620	-2.50174250	
SMAD2	0.31963640	0.05283620	2.50172692	
PIK3CA	0.31967729	0.05283620	2.50208332	
C21orf91	0.31963857	0.05283620	2.50174580	
AGBL2	0.31965154	0.05283620	2.50185887	
ANO2	-0.31957219	0.05289601	-2.50116714	
C15orf43	-0.31956137	0.05289943	-2.50107288	
ZNF214	0.31954220	0.05291260	2.50090579	
SLC37A2	-0.31951916	0.05292110	-2.50070490	
OR4K17	-0.31952682	0.05292110	-2.50077171	
C16orf78	-0.31947623	0.05294362	-2.50033073	
HTR3D	-0.31948234	0.05294362	-2.50038404	
CDR2L	-0.31948520	0.05294362	-2.50040890	yes
CIC	-0.31943569	0.05298174	-2.49997740	
MMADHC	0.31940832	0.05300450	2.49973885	
DKK4	-0.31939417	0.05301183	-2.49961555	
KCNIP3	-0.31935315	0.05305056	-2.49925802	
GUCA1A	-0.31930858	0.05305366	-2.49886965	yes
KIR3DL1	-0.31931091	0.05305366	-2.49888999	
NDUFS4	0.31930338	0.05305366	2.49882433	
ADPRHL2	0.31930328	0.05305366	2.49882348	
C8B	-0.31930636	0.05305366	-2.49885031	
COQ10B	0.31932081	0.05305366	2.49897621	

PPP1R14D	-0.31928583	0.05306486	-2.49867144	
ANXA2	0.31927264	0.05307109	2.49855650	yes
STAG2	0.31925559	0.05308183	2.49840789	
WDR16	0.31924420	0.05308595	2.49830866	
ALKBH4	-0.31923603	0.05308632	-2.49823744	
ANKRD18B	0.31918996	0.05312664	2.49783605	
SLC16A3	0.31918582	0.05312664	2.49779998	
NMI	0.31915690	0.05315128	2.49754798	
NKX3-1	-0.31907417	0.05323895	-2.49682718	
GRAMD1C	0.31906353	0.05324056	2.49673448	
hCG_1983896	-0.31905708	0.05324056	-2.49667830	
CEP290	0.31900524	0.05329212	2.49622662	
ANKRD10	0.31894344	0.05335539	2.49568834	
IRF6	0.31893276	0.05335872	2.49559522	
LOC645188	-0.31887708	0.05340184	-2.49511029	
SOLH	-0.31888636	0.05340184	-2.49519105	
DLK1	-0.31887247	0.05340184	-2.49507009	
OR2D3	-0.31886364	0.05340299	-2.49499319	
MYL3	-0.31876554	0.05350906	-2.49413879	
CLTC	0.31860842	0.05367565	2.49277043	
OR2T11	-0.31861396	0.05367565	-2.49281869	
XKRX	0.31858430	0.05369483	2.49256047	
DGCR5	-0.31855772	0.05371693	-2.49232902	
LOC100129540	-0.31852240	0.05374936	-2.49202145	
STOML3	0.31844089	0.05383640	2.49131172	
CSNK1A1	0.31842410	0.05384696	2.49116562	yes
LOC134505	-0.31839681	0.05386996	-2.49092799	
LOC285550	0.31833546	0.05393181	2.49039388	
REXO1	-0.31832530	0.05393181	-2.49030548	yes
PLEKHG2	-0.31832100	0.05393181	-2.49026804	
CLUAP1	0.31830468	0.05394184	2.49012599	
NDUFC2	0.31827223	0.05397099	2.48984347	
RGAG1	-0.31824512	0.05399381	-2.48960750	

SNCB	-0.31821071	0.05402530	-2.48930795	
NPC1L1	-0.31818336	0.05403912	-2.48906994	
FLJ42393	-0.31818492	0.05403912	-2.48908351	
ABCB4	-0.31817149	0.05404390	-2.48896661	
HCCS	0.31813871	0.05407349	2.48868129	yes
RPL29P31	-0.31812104	0.05408085	-2.48852750	
IRS2	-0.31811682	0.05408085	-2.48849081	
LOC100130633	0.31806079	0.05411944	2.48800319	
CLEC17A	-0.31807056	0.05411944	-2.48808817	
CAPS2	0.31806800	0.05411944	2.48806592	
DGKQ	-0.31804730	0.05412217	-2.48788574	
CXXC5	-0.31803931	0.05412217	-2.48781626	
RDH16	-0.31803498	0.05412217	-2.48777857	
CIB3	-0.31800605	0.05412466	-2.48752682	
TMEM188	0.31799366	0.05412466	2.48741898	
ZDHHC7	0.31798591	0.05412466	2.48735151	
TAS2R38	-0.31800057	0.05412466	-2.48747907	
ZNF26	0.31802075	0.05412466	2.48765468	
KRTAP4-6	-0.31798745	0.05412466	-2.48736494	
POLR3D	-0.31797001	0.05413424	-2.48721315	
LOC100133406	0.31795738	0.05413994	2.48710327	
FXD4	-0.31794524	0.05414354	-2.48699763	
UBE2CBP	0.31793088	0.05414354	2.48687269	
HS3ST4	-0.31793434	0.05414354	-2.48690279	
SPTY2D1	0.31790194	0.05415934	2.48662079	
FAM151A	-0.31790752	0.05415934	-2.48666940	
ECE2	-0.31789229	0.05416151	-2.48653688	
C15orf55	-0.31784933	0.05417459	-2.48616302	
WDR40C	-0.31787031	0.05417459	-2.48634562	
TRMT61B	0.31785443	0.05417459	2.48620745	
STIL	0.31784220	0.05417459	2.48610103	
RNF39	-0.31786326	0.05417459	-2.48628431	
ATP2B2	-0.31782919	0.05418076	-2.48598782	

BCMO1	-0.31781766	0.05418518	-2.48588750
AKAP10	0.31776494	0.05422925	2.48542881
FNTA	0.31776549	0.05422925	2.48543363
SC22CB-1E7.1	-0.31773481	0.05423857	-2.48516668
KIAA1219	0.31773368	0.05423857	2.48515686
HMG3	0.31774089	0.05423857	2.48521956
NINJ2	-0.31769084	0.05428022	-2.48478418
OR1G1	-0.31761170	0.05436511	-2.48409571
GLRX3	0.31758810	0.05437462	2.48389045
CAV3	-0.31759037	0.05437462	-2.48391018
LOC390424	-0.31757422	0.05437710	-2.48376969
C16orf61	0.31756261	0.05437710	2.48366877
ZDHHC14	-0.31756798	0.05437710	-2.48371544
OR1L8	-0.31754911	0.05437831	-2.48355129
RARB	0.31753820	0.05437831	2.48345638
SNORD59B	0.31754230	0.05437831	2.48349208
LOC388965	-0.31752888	0.05438013	-2.48337532
GRAP	-0.31750535	0.05439886	-2.48317072
FAM120B	0.31747949	0.05442038	2.48294578
OR5AN1	-0.31745282	0.05442430	-2.48271385
NGFR	-0.31745292	0.05442430	-2.48271472
PSMD1	0.31745680	0.05442430	2.48274847
ACTA2	-0.31743905	0.05443142	-2.48259406
FRMPD4	-0.31742317	0.05444107	-2.48245596
POP5	0.31741272	0.05444424	2.48236507
COG5	0.31737944	0.05444808	2.48207567
ZNF804B	-0.31737991	0.05444808	-2.48207970
FAM89A	-0.31737181	0.05444808	-2.48200927
C15orf29	0.31737056	0.05444808	2.48199844
KIAA0408	-0.31739152	0.05444808	-2.48218068
MRPS33	0.31734538	0.05445955	2.48177941
WDR82	0.31735162	0.05445955	2.48183367
HOXC8	-0.31731969	0.05447162	-2.48155605

PGGT1B	0.31732019	0.05447162	2.48156041
HVCN1	-0.31731178	0.05447178	-2.48148727
RTDR1	0.31728925	0.05448936	2.48129137
CIDCEP	-0.31723979	0.05453908	-2.48086129
KLHL14	-0.31722102	0.05454869	-2.48069805
KCNK5	-0.31721618	0.05454869	-2.48065600
ASB7	0.31719457	0.05456521	2.48046807
FECH	0.31716418	0.05459221	2.48020386
AADAT	0.31714436	0.05460660	2.48003153
LMX1A	-0.31711092	0.05463727	-2.47974073
EPHB3	-0.31709436	0.05464777	-2.47959677
CLDN24	-0.31706228	0.05464896	-2.47931792
NPM1	0.31706945	0.05464896	2.47938028
RAB6C	-0.31708300	0.05464896	-2.47949801
STK17A	0.31706988	0.05464896	2.47938397
LOC440993	0.31703526	0.05467198	2.47908298
HINT3	0.31701950	0.05468153	2.47894604
MAMDC4	-0.31697456	0.05472599	-2.47855533
SLC19A2	0.31687648	0.05480621	2.47770283
C8orf74	-0.31688872	0.05480621	-2.47780920
C7orf36	0.31688219	0.05480621	2.47775245
MOSC1	-0.31688334	0.05480621	-2.47776246
FZD10	-0.31682559	0.05484859	-2.47726045
PSMB2	0.31683091	0.05484859	2.47730672
ADAM5P	-0.31681602	0.05485076	-2.47717727
AKR7A2	0.31679014	0.05487248	2.47695232
DCTN4	0.31678165	0.05487335	2.47687858
CDO1	-0.31669640	0.05494414	-2.47613773
FAM9A	-0.31670367	0.05494414	-2.47620089
AMY2B	0.31669161	0.05494414	2.47609605
APOA4	-0.31670005	0.05494414	-2.47616945
SAMD13	-0.31663899	0.05499005	-2.47563885
TMEM165	0.31662389	0.05499005	2.47550761

GOPC	0.31663436	0.05499005	2.47559861	
PSMD11	0.31662235	0.05499005	2.47549420	
SCARNA22	-0.31657265	0.05504044	-2.47506234	
APOD	-0.31655535	0.05505191	-2.47491205	
HCRTR2	-0.31652979	0.05507332	-2.47468992	
PLSCR2	-0.31651410	0.05508287	-2.47455359	
ESPN	-0.31649080	0.05510156	-2.47435121	
IZUMO1	-0.31646962	0.05511772	-2.47416718	
PPP1R2	0.31640412	0.05518722	2.47359815	
SRD5A2L2	-0.31638394	0.05520220	-2.47342280	
ABHD6	0.31635629	0.05522619	2.47318255	yes
FRMPD3	-0.31634797	0.05522687	-2.47311030	
OR5L2	-0.31628367	0.05523646	-2.47255177	
OCA2	-0.31632215	0.05523646	-2.47288603	
LOC100133422	0.31627809	0.05523646	2.47250326	yes
PPP2CA	0.31628954	0.05523646	2.47260276	
PCID2	0.31630563	0.05523646	2.47274250	
PSMB6	0.31627812	0.05523646	2.47250351	
POGK	0.31631540	0.05523646	2.47282734	
C14orf156	0.31630742	0.05523646	2.47275806	
ORMDL2	0.31619820	0.05532345	2.47180932	
HOXC10	-0.31618324	0.05533216	-2.47167942	
ALKBH3	0.31613989	0.05536556	2.47130288	
MAGEA11	-0.31614246	0.05536556	-2.47132526	
GRPEL1	0.31613236	0.05536556	2.47123748	
C7orf38	0.31607158	0.05542962	2.47070963	
ANKRD16	0.31604399	0.05545362	2.47047001	
KRTAP19-2	-0.31602232	0.05546699	-2.47028190	
MLL4	-0.31601746	0.05546699	-2.47023962	
EIF2B1	0.31600072	0.05547788	2.47009429	
C1QTNF2	-0.31597917	0.05549459	-2.46990715	
CXorf22	0.31596486	0.05550255	2.46978286	
C3orf36	-0.31592751	0.05552903	-2.46945858	

B9D2	0.31592903	0.05552903	2.46947177	
SNORD113-3	-0.31588213	0.05557460	-2.46906453	
TTY12	-0.31587328	0.05557596	-2.46898768	
CD320	-0.31583329	0.05561503	-2.46864047	
HMGCLL1	-0.31581347	0.05562968	-2.46846841	
MCM3AP	0.31577560	0.05566622	2.46813957	
EIF4EBP1	-0.31573336	0.05569260	-2.46777291	
FLJ43950	-0.31573181	0.05569260	-2.46775947	
ZNF426	0.31573068	0.05569260	2.46774959	
KRT27	-0.31571880	0.05569763	-2.46764653	
OCIAD2	0.31569826	0.05571319	2.46746815	
CNTD2	-0.31568209	0.05572343	-2.46732785	
PARK7	0.31564744	0.05574420	2.46702698	
LPAR4	-0.31565269	0.05574420	-2.46707261	yes
TAS2R42	-0.31563880	0.05574420	-2.46695200	
ZNF462	-0.31563410	0.05574420	-2.46691126	
BCL9L	-0.31558730	0.05579165	-2.46650501	
RHOBTB1	0.31555248	0.05582457	2.46620276	
CRIPAK	0.31551286	0.05586334	2.46585889	
PARP8	0.31549324	0.05587782	2.46568853	
MRPL54	-0.31542871	0.05589066	-2.46512852	
GANC	0.31543508	0.05589066	2.46518382	
HSPA9	0.31546152	0.05589066	2.46541329	
ATP2A2	0.31543739	0.05589066	2.46520383	
REL	0.31545879	0.05589066	2.46538957	
HSPB9	-0.31544189	0.05589066	-2.46524289	
GDA	0.31545019	0.05589066	2.46531490	
SHC4	-0.31540049	0.05591561	-2.46488363	
SAMD10	-0.31536623	0.05592812	-2.46458630	
HAL	-0.31535353	0.05592812	-2.46447612	
TMEM144	0.31536409	0.05592812	2.46456768	
SDC2	-0.31536654	0.05592812	-2.46458896	
TMTC4	0.31535169	0.05592812	2.46446013	

HAMP	-0.31527871	0.05600757	-2.46382678	
GOLGA2L1	0.31523140	0.05605582	2.46341633	
SCO1	0.31522103	0.05605907	2.46332635	
HYI	-0.31521266	0.05605990	-2.46325368	
C4orf35	-0.31519362	0.05607371	-2.46308853	
ZNF28	0.31518012	0.05608079	2.46297140	
P2RY12	-0.31511518	0.05615060	-2.46240795	
GPA33	-0.31509273	0.05616861	-2.46221319	
VRK2	0.31507729	0.05617806	2.46207921	yes
JPH3	-0.31502212	0.05623410	-2.46160065	
CELSR1	0.31501601	0.05623410	2.46154765	
SLC16A10	-0.31495282	0.05628624	-2.46099943	
MORC3	0.31495027	0.05628624	2.46097736	
OR4A15	-0.31496216	0.05628624	-2.46108047	
C10orf71	-0.31492831	0.05630369	-2.46078685	
STX2	0.31490226	0.05631673	2.46056092	
ATP1A2	-0.31490388	0.05631673	-2.46057491	
ACADL	-0.31487676	0.05633852	-2.46033975	
OTC	-0.31486573	0.05634261	-2.46024402	
STK39	-0.31480541	0.05640703	-2.45972089	
KRTAP13-1	-0.31476019	0.05644862	-2.45932870	
L1CAM	-0.31475608	0.05644862	-2.45929307	
SMOX	-0.31473414	0.05646609	-2.45910282	
EGFLAM	-0.31470261	0.05649532	-2.45882939	
WDR66	0.31467551	0.05651067	2.45859435	
NHP2L1	0.31467473	0.05651067	2.45858754	
GPR126	-0.31463241	0.05655315	-2.45822062	
GABRB1	-0.31458608	0.05660060	-2.45781884	
SPATA21	-0.31454405	0.05664279	-2.45745440	
MAT2B	0.31453002	0.05665058	2.45733280	
ATP1A1	0.31451117	0.05666431	2.45716931	
CEACAM4	-0.31448666	0.05666801	-2.45695687	
S100A1L	0.31447212	0.05666801	2.45683076	

KRT8	0.31448020	0.05666801	2.45690080
TMEM180	-0.31448840	0.05666801	-2.45697187
TAAR2	-0.31446977	0.05666801	-2.45681039
ATP13A3	0.31444590	0.05667849	2.45660344
SNX22	-0.31444808	0.05667849	-2.45662233
WDR64	-0.31429021	0.05685119	-2.45525380
ENSA	0.31429647	0.05685119	2.45530803
GAFA2	-0.31426892	0.05685852	-2.45506921
XFLT1	-0.31426955	0.05685852	-2.45507472
LOC100133322	-0.31424051	0.05686597	-2.45482298
FBXO15	0.31423986	0.05686597	2.45481735
RPE	0.31424736	0.05686597	2.45488235
TRIM63	-0.31422750	0.05687175	-2.45471023
SNORD116-12	-0.31414126	0.05688615	-2.45396271
LILRA3	-0.31418265	0.05688615	-2.45432150
TMEM198	-0.31413153	0.05688615	-2.45387837
GRIP1	-0.31414514	0.05688615	-2.45399634
ZMYND8	0.31417971	0.05688615	2.45429597
DNAJB13	0.31413982	0.05688615	2.45395023
OR5M9	-0.31415251	0.05688615	-2.45406019
RNASE9	-0.31415200	0.05688615	-2.45405583
SPATA7	0.31414276	0.05688615	2.45397571
SYCP1	-0.31413541	0.05688615	-2.45391205
C1orf170	-0.31415293	0.05688615	-2.45406388
TBCCD1	0.31411932	0.05689176	2.45377262
DBX1	-0.31411086	0.05689250	-2.45369922
FAM127B	-0.31407790	0.05689250	-2.45341357
GFRA2	-0.31408109	0.05689250	-2.45344123
ATP1B1	0.31408445	0.05689250	2.45347034
C22orf28	0.31407280	0.05689250	2.45336944
TMF1	0.31408411	0.05689250	2.45346743
LYPLAL1	0.31404662	0.05689650	2.45314253
PAQR3	0.31405121	0.05689650	2.45318229

GHRHR	-0.31405021	0.05689650	-2.45317364
UNQ5814	-0.31402931	0.05690235	-2.45299249
VSTM1	-0.31402658	0.05690235	-2.45296888
LIM2	-0.31401563	0.05690642	-2.45287399
IFT140	0.31399999	0.05691629	2.45273840
CCDC123	0.31398974	0.05691949	2.45264965
ARFIP1	0.31396817	0.05692895	2.45246268
TREML3	-0.31396679	0.05692895	-2.45245074
KCNQ2	-0.31393796	0.05695508	-2.45220090
C1QBP	0.31392904	0.05695666	2.45212362
C2orf21	-0.31388430	0.05699299	-2.45173601
PCDH20	0.31389125	0.05699299	2.45179616
GEMIN5	0.31384609	0.05703073	2.45140487
MYPOP	-0.31380905	0.05706703	-2.45108400
OR13C4	-0.31376371	0.05711361	-2.45069120
CCDC113	0.31372807	0.05714823	2.45038239
INTS8	0.31369425	0.05717117	2.45008943
DLGAP3	-0.31369611	0.05717117	-2.45010554
TCL1A	-0.31366404	0.05719910	-2.44982769
WDR40B	-0.31365525	0.05720053	-2.44975159
CCL7	-0.31363720	0.05721342	-2.44959520
F11	-0.31359737	0.05724623	-2.44925016
MYST3	0.31359543	0.05724623	2.44923341
MAK	0.31349495	0.05736128	2.44836308
INSRR	-0.31344442	0.05740503	-2.44792548
VANGL1	0.31344826	0.05740503	2.44795867
LRFN2	-0.31343259	0.05741024	-2.44782302
C5orf20	-0.31333638	0.05752025	-2.44698983
FLJ90680	-0.31332875	0.05752025	-2.44692375
SPATA19	-0.31330919	0.05753509	-2.44675433
HCG4	-0.31329607	0.05754191	-2.44664076
C11orf87	-0.31328157	0.05754326	-2.44651517
ANKRD7	-0.31327974	0.05754326	-2.44649929

CEBPE	-0.31321711	0.05758607	-2.44595705	
NES	-0.31321482	0.05758607	-2.44593724	yes
NSUN7	0.31322061	0.05758607	2.44598731	
THOC5	0.31321962	0.05758607	2.44597873	
GNAT2	-0.31318986	0.05760765	-2.44572106	
FAM91A1	0.31316292	0.05763168	2.44548784	
SCRG1	-0.31310441	0.05766975	-2.44498123	
JMJD2C	0.31310094	0.05766975	2.44495118	
RPGRIP1L	0.31311356	0.05766975	2.44506045	
SALL4	-0.31311612	0.05766975	-2.44508263	
SLC13A2	-0.31309426	0.05766975	-2.44489337	
DDX6	0.31308418	0.05767282	2.44480611	
OR51A4	-0.31306288	0.05768986	-2.44462172	
DLEU2L	0.31304336	0.05770469	2.44445273	
TEF	-0.31302885	0.05771329	-2.44432709	
ASF1A	0.31302100	0.05771359	2.44425914	
RASGRP2	-0.31291161	0.05781526	-2.44331222	yes
PROSC	0.31288376	0.05781526	2.44307117	
KLHDC9	0.31288944	0.05781526	2.44312039	
CNR2	-0.31289321	0.05781526	-2.44315296	
C6orf224	0.31288462	0.05781526	2.44307861	
WDTC1	0.31288798	0.05781526	2.44310768	
LCE1A	-0.31293111	0.05781526	-2.44348107	
PYCR1	-0.31287858	0.05781526	-2.44302635	
TAX1BP1	0.31281998	0.05787891	2.44251911	yes
CLEC4C	-0.31279217	0.05790345	-2.44227843	
APLP2	0.31278512	0.05790345	2.44221741	
UGT3A2	-0.31272174	0.05797034	-2.44166896	
CCDC89	0.31271484	0.05797034	2.44160921	
LOX	0.31270878	0.05797034	2.44155677	
FLJ45721	-0.31269625	0.05797149	-2.44144837	
RHBG	-0.31269266	0.05797149	-2.44141728	
CGA	-0.31266128	0.05800122	-2.44114573	

GALNT10	-0.31264285	0.05801478	-2.44098619	
RIN1	-0.31262627	0.05802601	-2.44084278	
HCN3	-0.31260857	0.05803865	-2.44068958	
BRCA1	0.31259234	0.05804946	2.44054917	
ALCAM	0.31255247	0.05808404	2.44020420	
GTF2H1	0.31254952	0.05808404	2.44017863	
HBII-52-24	-0.31246771	0.05816750	-2.43947080	
ARV1	0.31247118	0.05816750	2.43950086	
CXorf59	0.31244963	0.05818065	2.43931438	
CCR3	-0.31239746	0.05823655	-2.43886302	
GLP2R	-0.31238094	0.05824775	-2.43872012	
OSBPL9	0.31235329	0.05827293	2.43848094	
ANKRD9	-0.31234093	0.05827394	-2.43837399	
RPUSD3	0.31232972	0.05827394	2.43827700	
CPA6	-0.31233131	0.05827394	-2.43829080	
CASP14	-0.31232155	0.05827466	-2.43820638	
DNTT	-0.31228556	0.05830080	-2.43789507	
FLJ46365	-0.31229221	0.05830080	-2.43795257	
PAEP	-0.31223961	0.05834319	-2.43749754	
LARGE	-0.31223664	0.05834319	-2.43747185	
AK3L1	-0.31222730	0.05834539	-2.43739111	
ZSCAN21	-0.31221311	0.05835370	-2.43726836	
TTC30A	0.31219878	0.05835879	2.43714439	
DAZAP2	0.31219390	0.05835879	2.43710215	yes
KIAA0895	0.31217332	0.05836559	2.43692422	
LIPF	-0.31217456	0.05836559	-2.43693493	
ATPIF1	0.31213574	0.05840331	2.43659916	
PIGL	0.31211006	0.05842606	2.43637708	
SCARNA11	-0.31209956	0.05842974	-2.43628628	
KRTAP10-9	-0.31208659	0.05843653	-2.43617407	
C15orf40	0.31204680	0.05845458	2.43582991	
LCN6	-0.31204878	0.05845458	-2.43584704	yes
HMGCS1	0.31204195	0.05845458	2.43578799	

JPH2	-0.31206112	0.05845458	-2.43595381	yes
MARCH5	0.31203045	0.05845952	2.43568855	
TMIGD2	-0.31197339	0.05851196	-2.43519509	
C17orf50	-0.31197868	0.05851196	-2.43524088	
RAB37	0.31196607	0.05851196	2.43513185	
LOC727721	-0.31195600	0.05851511	-2.43504472	
GLRX	0.31192037	0.05855044	2.43473669	
NIPA1	0.31190781	0.05855674	2.43462801	
C14orf23	-0.31186596	0.05859040	-2.43426618	
C1orf220	-0.31186642	0.05859040	-2.43427020	
CDC26	0.31183465	0.05861079	2.43399550	
TMC5	0.31183540	0.05861079	2.43400197	
ZNF732	-0.31181606	0.05862469	-2.43383477	
ANXA1	0.31177977	0.05866091	2.43352102	
MNS1	0.31177107	0.05866236	2.43344576	
ENPP1	-0.31175691	0.05866977	-2.43332334	
RFWD2	0.31175007	0.05866977	2.43326425	
EMID1	-0.31172237	0.05867611	-2.43302478	
SLC44A1	0.31172565	0.05867611	2.43305307	
hCG_1640171	0.31172796	0.05867611	2.43307308	
FAM184B	-0.31167071	0.05873177	-2.43257815	
LOC100129876	-0.31155564	0.05886762	-2.43158344	
YME1L1	0.31151536	0.05889947	2.43123527	
CENPM	-0.31152112	0.05889947	-2.43128508	
IGKV5-2	-0.31149637	0.05891393	-2.43107116	
RPL32P3	0.31148112	0.05891412	2.43093933	
PDYN	-0.31148623	0.05891412	-2.43098353	
NUDT2	0.31144887	0.05894065	2.43066061	
TIMP3	-0.31144505	0.05894065	-2.43062759	
RP5-1000E10.4	0.31142528	0.05895612	2.43045677	
COLEC10	-0.31140555	0.05897154	-2.43028625	
SRGAP2	0.31137569	0.05899980	2.43002820	
GABRB2	-0.31134156	0.05902392	-2.42973322	

FBXO4	0.31134262	0.05902392	2.42974236	
FUSIP1	0.31131666	0.05904592	2.42951804	
AGR3	0.31129149	0.05906069	2.42930050	
IRAK4	0.31128992	0.05906069	2.42928695	
OR6M1	-0.31123367	0.05912246	-2.42880094	
RBM43	0.31121441	0.05913733	2.42863449	
HOXB9	-0.31116471	0.05919085	-2.42820510	
LOC100129940	-0.31115142	0.05919816	-2.42809021	
ADAM10	0.31111495	0.05921574	2.42777514	
TXNL4A	0.31111806	0.05921574	2.42780201	
NASP	0.31112675	0.05921574	2.42787706	
MOS	-0.31107848	0.05925250	-2.42746006	
GJB1	-0.31105161	0.05927708	-2.42722793	
UNQ5840	-0.31103941	0.05928300	-2.42712257	
SYNE2	0.31101250	0.05930764	2.42689003	
OR5C1	-0.31096852	0.05935402	-2.42651009	
POL3S	-0.31094765	0.05937099	-2.42632982	
LOC100133325	-0.31081256	0.05950673	-2.42516300	
LOC100131170	-0.31082307	0.05950673	-2.42525372	
IL1F8	-0.31083054	0.05950673	-2.42531829	
FLJ43080	0.31081098	0.05950673	2.42514931	
C1QTNF6	-0.31079044	0.05950965	-2.42497196	
HEATR7B1	-0.31078368	0.05950965	-2.42491356	
NEK1	0.31076566	0.05950965	2.42475792	
ATP5B	0.31078235	0.05950965	2.42490207	
TMX3	0.31076876	0.05950965	2.42478473	
C1orf112	0.31076349	0.05950965	2.42473920	
ARNTL	0.31075544	0.05950977	2.42466967	
PRLH	-0.31074082	0.05950977	-2.42454335	
NUP37	0.31074162	0.05950977	2.42455027	
LMO7	0.31071211	0.05953679	2.42429541	
ECHDC1	0.31057743	0.05969918	2.42313241	yes
C3orf26	0.31056791	0.05970173	2.42305021	

WDFY2	0.31051500	0.05970204	2.42259339	
CRYGB	-0.31051653	0.05970204	-2.42260656	
MRPL22	0.31052605	0.05970204	2.42268879	
LOC339483	-0.31054491	0.05970204	-2.42285163	
IL22	-0.31053030	0.05970204	-2.42272541	
C17orf85	0.31053062	0.05970204	2.42272824	
CHAF1B	-0.31053063	0.05970204	-2.42272827	
CCDC9	-0.31049123	0.05972282	-2.42238811	yes
FBXL3	0.31047917	0.05972863	2.42228395	
TNFSF8	-0.31045462	0.05975042	-2.42207197	
PAX4	-0.31044435	0.05975394	-2.42198332	
SFRS8	-0.31042062	0.05977468	-2.42177850	
SCN3B	-0.31038778	0.05980709	-2.42149496	
CRYGC	-0.31032873	0.05986347	-2.42098516	
LIPE	-0.31033537	0.05986347	-2.42104248	
CYP20A1	0.31031872	0.05986666	2.42089878	
LOC100133363	-0.31030317	0.05987696	-2.42076451	
CHIT1	-0.31023741	0.05995164	-2.42019686	
FOLR3	-0.31020787	0.05997990	-2.41994188	
TLX3	-0.31017046	0.06000862	-2.41961900	
PCDHB9	-0.31017159	0.06000862	-2.41962872	
ARAP2	0.31015791	0.06001509	2.41951066	
ERN1	-0.31013489	0.06002537	-2.41931201	
LOC257039	-0.31011987	0.06002537	-2.41918237	
CSNK2A1P	0.31012323	0.06002537	2.41921134	
SLC10A5	0.31012852	0.06002537	2.41925697	
PFDN5	0.31010974	0.06002874	2.41909488	
ERP29	-0.31009219	0.06004164	-2.41894340	
DDX17	0.31008060	0.06004688	2.41884341	
LOC100128233	-0.31002927	0.06010318	-2.41840043	
SNAPC3	0.31002143	0.06010362	2.41833273	
COMTD1	-0.31000367	0.06010646	-2.41817947	
CHSY1	-0.30999671	0.06010646	-2.41811943	

GUF1	0.31000596	0.06010646	2.41819921	
FLJ13224	-0.30998864	0.06010719	-2.41804981	
SOX4	-0.30998086	0.06010756	-2.41798261	
TMTC3	0.30988154	0.06021599	2.41712558	
LOC440786	-0.30988738	0.06021599	-2.41717600	
SIVA1	-0.30983931	0.06025105	-2.41676117	
B4GALT5	0.30984072	0.06025105	2.41677340	
DENND4A	0.30977675	0.06026034	2.41622147	
ZNF211	0.30972209	0.06026034	2.41574986	
EDAR	-0.30976740	0.06026034	-2.41614078	
RAET1E	0.30974060	0.06026034	2.41590957	
CRYBB2	-0.30971340	0.06026034	-2.41567489	
OSTCL	-0.30967802	0.06026034	-2.41536961	
NT5DC1	0.30971983	0.06026034	2.41573037	
LOC221442	0.30968717	0.06026034	2.41544855	
ANKRD26	0.30981534	0.06026034	2.41655440	
FASTKD2	0.30976017	0.06026034	2.41607840	
ALOX12B	-0.30969106	0.06026034	-2.41548218	
PIGW	0.30977481	0.06026034	2.41620470	
RTP2	-0.30974883	0.06026034	-2.41598055	
KCNC2	-0.30971414	0.06026034	-2.41568128	
KCNJ13	-0.30966742	0.06026034	-2.41527817	
CHST7	-0.30975859	0.06026034	-2.41606478	
MRPS22	0.30969051	0.06026034	2.41547743	
C12orf4	0.30966865	0.06026034	2.41528881	
RAB13	-0.30967181	0.06026034	-2.41531609	
UGP2	0.30968705	0.06026034	2.41544758	
FLJ22374	0.30969339	0.06026034	2.41550222	
CHST10	-0.30968427	0.06026034	-2.41542360	yes
COPS3	0.30962057	0.06030744	2.41487406	
KIAA0494	0.30961588	0.06030744	2.41483363	
RBM7	0.30955299	0.06036415	2.41429113	
C1orf61	-0.30954944	0.06036415	-2.41426046	

NLGN4X	-0.30955004	0.06036415	-2.41426566
ETV3L	-0.30954078	0.06036568	-2.41418578
CGN	0.30952499	0.06037640	2.41404961
COL10A1	-0.30947698	0.06041904	-2.41363548
TWIST1	-0.30947998	0.06041904	-2.41366134
LCE3E	-0.30946894	0.06041979	-2.41356610
MPP7	0.30945686	0.06042574	2.41346190
IKBKB	0.30944743	0.06042826	2.41338064
CPA2	-0.30940002	0.06046966	-2.41297166
TARBP1	0.30939836	0.06046966	2.41295739
NUP93	0.30939295	0.06046966	2.41291073
C9orf78	0.30938087	0.06047561	2.41280658
EFCAB3	-0.30934042	0.06051490	-2.41245767
ANAPC4	0.30933551	0.06051490	2.41241535
LRRC49	0.30932420	0.06051987	2.41231785
LOC113230	-0.30928042	0.06052825	-2.41194029
CLCN2	-0.30928833	0.06052825	-2.41200849
DKK2	-0.30928423	0.06052825	-2.41197316
ARSI	-0.30930774	0.06052825	-2.41217591
NONO	0.30928193	0.06052825	2.41195332
CYP11B1	-0.30925332	0.06054435	-2.41170658
DMRTA2	-0.30925305	0.06054435	-2.41170422
BCAT1	-0.30922036	0.06057065	-2.41142234
PLEKHN1	-0.30921778	0.06057065	-2.41140010
STATH	-0.30914001	0.06066153	-2.41072955
C3orf47	-0.30908949	0.06071725	-2.41029400
GIP	-0.30901366	0.06074377	-2.40964019
DPPA5	-0.30900942	0.06074377	-2.40960362
C2orf79	0.30902497	0.06074377	2.40973771
MCM10	-0.30902732	0.06074377	-2.40975801
ENPP5	0.30904459	0.06074377	2.40990688
CYP3A43	-0.30904433	0.06074377	-2.40990460
UQCRC2	0.30901920	0.06074377	2.40968795

PABPC4	0.30902056	0.06074377	2.40969972
SNORD59A	0.30900153	0.06074434	2.40953563
ZNF434	0.30898478	0.06074675	2.40939125
PTPN5	-0.30898572	0.06074675	-2.40939931
GUCY2C	-0.30895439	0.06077646	-2.40912929
FLVCR2	-0.30890418	0.06083187	-2.40869644
GRPR	-0.30887678	0.06085775	-2.40846022
LRRC41	0.30886421	0.06086439	2.40835189
TMEM86A	-0.30884864	0.06087494	-2.40821765
PHF1	-0.30880680	0.06091956	-2.40785703
KCNJ2	0.30877414	0.06094264	2.40757551
METT10D	0.30877912	0.06094264	2.40761844
OR2F2	-0.30873554	0.06097343	-2.40724286
PAX1	-0.30873785	0.06097343	-2.40726278
MAS1	-0.30871295	0.06099310	-2.40704817
TTC18	0.30869853	0.06100217	2.40692393
FAM71F2	-0.30866842	0.06103163	-2.40666443
RPAP3	0.30863668	0.06106322	2.40639087
NACAD	-0.30862638	0.06106694	-2.40630211
OR4C11	-0.30859962	0.06109207	-2.40607147
TMCO4	0.30857264	0.06109817	2.40583900
USF1	0.30857337	0.06109817	2.40584528
MAPKSP1	0.30857644	0.06109817	2.40587178
LOC119358	-0.30856366	0.06110018	-2.40576163
TCTN1	0.30855349	0.06110374	2.40567403
BRAP	0.30852514	0.06113096	2.40542971
CAMK2A	-0.30850608	0.06114610	-2.40526545
LRIT2	-0.30844883	0.06119083	-2.40477217
SFTA2	-0.30843137	0.06119083	-2.40462171
MEOX2	-0.30842716	0.06119083	-2.40458548
SPATA6	0.30845943	0.06119083	2.40486354
SLC6A1	-0.30843311	0.06119083	-2.40463676
CAPN13	0.30845176	0.06119083	2.40479746

SDHB	0.30841432	0.06119789	2.40447482	
CDK9	0.30835657	0.06125429	2.40397734	
FBXO28	0.30835616	0.06125429	2.40397380	yes
ARL5A	0.30832606	0.06128384	2.40371448	
NTN5	-0.30831573	0.06128764	-2.40362550	
G3BP2	0.30828958	0.06131205	2.40340022	
GUSB	0.30827881	0.06131643	2.40330737	
LSM6	0.30818873	0.06139579	2.40253148	
H2BFWT	-0.30818830	0.06139579	-2.40252777	
TTC21A	0.30819592	0.06139579	2.40259334	
UTF1	-0.30820941	0.06139579	-2.40270960	
ZNF784	-0.30809990	0.06146499	-2.40176627	
NID2	-0.30809824	0.06146499	-2.40175203	
OXA1L	0.30810616	0.06146499	2.40182022	
SLC2A1	0.30811590	0.06146499	2.40190409	
SLC22A13	-0.30810586	0.06146499	-2.40181761	
MAGEA12	-0.30807594	0.06148444	-2.40155996	
OR4E2	-0.30805993	0.06149568	-2.40142205	
FJX1	-0.30800736	0.06155471	-2.40096930	
RSPH9	0.30798059	0.06156462	2.40073875	
TMEM2	0.30798253	0.06156462	2.40075549	
FAM186B	-0.30797756	0.06156462	-2.40071263	
KIF1A	-0.30790681	0.06164749	-2.40010342	
C21orf33	0.30783650	0.06172988	2.39949798	
MYL2	-0.30780188	0.06176556	-2.39919984	
PRR18	-0.30776372	0.06180590	-2.39887129	
SESTD1	0.30774172	0.06182504	2.39868189	
NDUFV2	0.30772354	0.06183919	2.39852533	
TCF23	-0.30770751	0.06184079	-2.39838731	
LOC730167	-0.30771249	0.06184079	-2.39843020	
ECM1	-0.30768608	0.06184949	-2.39820280	
MAK10	0.30769139	0.06184949	2.39824858	yes
MORN2	0.30767320	0.06185668	2.39809190	

C1orf55	0.30765036	0.06187694	2.39789534
WDR62	-0.30764031	0.06188042	-2.39780880
MAN1A2	0.30760355	0.06191194	2.39749234
ZNF805	0.30760152	0.06191194	2.39747484
PATE2	-0.30758905	0.06191300	-2.39736750
TRMT12	0.30758592	0.06191300	2.39734052
NLRP5	-0.30755565	0.06192776	-2.39708000
GHRH	-0.30755249	0.06192776	-2.39705281
MCM8	0.30756456	0.06192776	2.39715672
HABP4	-0.30752269	0.06194490	-2.39679624
ZNF771	-0.30752806	0.06194490	-2.39684249
NAPG	0.30751728	0.06194490	2.39674966
FLJ43692	0.30750001	0.06195788	2.39660100
CTTN	0.30742700	0.06204416	2.39597257
LDOC1	-0.30740951	0.06205744	-2.39582209
STK33	0.30738899	0.06207471	2.39564549
MYOCD	-0.30734501	0.06212288	-2.39526698
COL25A1	-0.30732800	0.06213556	-2.39512056
FANCL	0.30728620	0.06216270	2.39476081
SVIL	-0.30729275	0.06216270	-2.39481720
ARHGAP10	-0.30728524	0.06216270	-2.39475255
TRIP12	0.30725981	0.06218647	2.39453372
ANKRD13B	-0.30723499	0.06220945	-2.39432016
MYOM3	-0.30719218	0.06225616	-2.39395175
UQCRFSL1	0.30714116	0.06229426	2.39351269
MALAT1	0.30714727	0.06229426	2.39356529
C10orf76	0.30714390	0.06229426	2.39353633
ZBBX	0.30712152	0.06231043	2.39334376
NCRNA00082	0.30710243	0.06232589	2.39317948
OR5AR1	-0.30706440	0.06236637	-2.39285224
CYB5RL	-0.30696219	0.06249172	-2.39197291
TNN	-0.30695450	0.06249213	-2.39190672
SPACA1	-0.30693617	0.06250662	-2.39174902

KIAA0746	0.30691580	0.06252381	2.39157380	
MPZ	-0.30689465	0.06253227	-2.39139190	
HIST1H2AG	-0.30690103	0.06253227	-2.39144676	
KCTD20	0.30685701	0.06257235	2.39106805	
DIRAS1	-0.30682619	0.06260339	-2.39080297	
KCNMA1	-0.30676819	0.06267049	-2.39030411	
RLN1	-0.30674942	0.06268561	-2.39014260	
RASAL2	0.30671493	0.06271578	2.38984597	
MATR3	0.30671192	0.06271578	2.38982011	
DMXL2	0.30668868	0.06273683	2.38962022	
HGFAC	-0.30668000	0.06273856	-2.38954558	
ULK1	-0.30653102	0.06292672	-2.38826433	
OR56A5	-0.30648181	0.06298240	-2.38784115	
C16orf38	-0.30642224	0.06305192	-2.38732900	
CDC42SE2	0.30640378	0.06306670	2.38717023	
SCAND3	-0.30639531	0.06306815	-2.38709742	
TIMM9	0.30636951	0.06309272	2.38687556	
RALGDS	0.30634336	0.06311776	2.38665072	
C7orf64	0.30632585	0.06313128	2.38650018	
NBEAL1	0.30631550	0.06313525	2.38641122	yes
SPACA4	-0.30628900	0.06314110	-2.38618343	
KLHL30	-0.30629235	0.06314110	-2.38621217	
OR5W2	-0.30629058	0.06314110	-2.38619701	
MKRN1	0.30626942	0.06315739	2.38601510	
OR6S1	-0.30619154	0.06325153	-2.38534554	
CABP1	-0.30617795	0.06325984	-2.38522877	
TMSB15A	-0.30612515	0.06332056	-2.38477485	
C15orf51	-0.30601567	0.06343747	-2.38383387	
RRAGD	0.30602287	0.06343747	2.38389575	
RRAD	0.30602485	0.06343747	2.38391280	
FBXO39	-0.30599567	0.06344215	-2.38366200	
C1orf103	0.30599874	0.06344215	2.38368836	
PSMA3	0.30598271	0.06344215	2.38355062	

CALCA	-0.30598765	0.06344215	-2.38359303	
NGF	-0.30597527	0.06344226	-2.38348667	
IVNS1ABP	0.30585261	0.06357463	2.38243250	yes
GNB3	-0.30583968	0.06357463	-2.38232143	
C19orf54	-0.30586072	0.06357463	-2.38250225	
DGAT2L6	-0.30584515	0.06357463	-2.38236839	
SIGLEC16	-0.30585080	0.06357463	-2.38241696	
TMPRSS9	-0.30581902	0.06359247	-2.38214390	
INCENP	-0.30580103	0.06360314	-2.38198928	
SMAD4	0.30579620	0.06360314	2.38194782	
CCNT2	0.30578900	0.06360314	2.38188591	
PEX11G	-0.30576184	0.06362971	-2.38165249	
DBP	-0.30574661	0.06364027	-2.38152169	
ARPC1B	0.30573475	0.06364632	2.38141979	
NUMB	0.30572311	0.06365207	2.38131977	
LOC284379	-0.30571418	0.06365420	-2.38124301	
ZNF785	-0.30563558	0.06374989	-2.38056769	
SLC15A4	0.30562542	0.06375366	2.38048038	
NFKB1	0.30560351	0.06376334	2.38029220	
KIAA1210	-0.30560865	0.06376334	-2.38033632	
KIAA1310	0.30559007	0.06376474	2.38017673	
SNRPN	-0.30558778	0.06376474	-2.38015700	
ZNF714	-0.30557225	0.06377573	-2.38002360	
IQCD	0.30549185	0.06387399	2.37933294	
ALPI	-0.30544725	0.06392414	-2.37894986	
LOC729862	-0.30542189	0.06394841	-2.37873196	
S1PR3	-0.30539162	0.06396939	-2.37847202	
IGSF22	-0.30539496	0.06396939	-2.37850067	
SIGLEC6	-0.30538132	0.06397337	-2.37838354	
IQUB	0.30536485	0.06397577	2.37824209	
UNKL	-0.30536489	0.06397577	-2.37824238	yes
ETS2	0.30534901	0.06398723	2.37810597	
ENPP7	-0.30533956	0.06399006	-2.37802485	

MAP7D2	-0.30522178	0.06413296	-2.37701327	
AMMECR1L	0.30521768	0.06413296	2.37697811	
SPPL2A	0.30521160	0.06413296	2.37692590	
LCAT	-0.30517937	0.06416658	-2.37664909	
HORMAD1	0.30516335	0.06417830	2.37651155	
AGTRAP	0.30515052	0.06418571	2.37640139	
ANKRD34A	-0.30514019	0.06418975	-2.37631267	
CCDC148	0.30510472	0.06421831	2.37600802	
UNQ9391	-0.30510438	0.06421831	-2.37600516	
SLC46A3	0.30509270	0.06422418	2.37590488	
CAPN12	-0.30506711	0.06424887	-2.37568509	
RAMP3	-0.30505380	0.06425694	-2.37557082	
GH1	-0.30502828	0.06428153	-2.37535175	
SSTR1	-0.30501161	0.06428425	-2.37520855	
CASP3	0.30501772	0.06428425	2.37526106	
IGF2BP1	-0.30499661	0.06429461	-2.37507981	
PKD2L1	-0.30498705	0.06429763	-2.37499770	
HADHA	0.30497267	0.06430716	2.37487424	
C2orf29	0.30495897	0.06431578	2.37475662	
ADIPOR1	0.30494693	0.06432215	2.37465327	yes
CCDC41	0.30493410	0.06432960	2.37454312	
FAM47E	0.30490850	0.06434978	2.37432332	
TLCD2	-0.30490453	0.06434978	-2.37428927	
TRIM34	-0.30489065	0.06435865	-2.37417011	
OR1D2	-0.30487884	0.06436472	-2.37406871	
EFCAB10	0.30485491	0.06437730	2.37386322	
ACVR1B	0.30486052	0.06437730	2.37391138	
C20orf160	-0.30480964	0.06441151	-2.37347460	yes
P2RX7	-0.30480036	0.06441151	-2.37339494	
NLK	0.30480363	0.06441151	2.37342301	
INPP4B	0.30481011	0.06441151	2.37347865	yes
SLC35B3	0.30478858	0.06441755	2.37329382	
OLR1	-0.30476080	0.06443535	-2.37305538	

TPD52L3	-0.30476810	0.06443535	-2.37311803
LOC100130370	-0.30474325	0.06444920	-2.37290477
LOC440563	-0.30471993	0.06446103	-2.37270457
SNN	-0.30471989	0.06446103	-2.37270427
CHL1	0.30466529	0.06450531	2.37223554
SLC24A4	-0.30466802	0.06450531	-2.37225898
TLR7	-0.30467503	0.06450531	-2.37231914
CLDN7	0.30458663	0.06460208	2.37156047
NRSN1	-0.30457219	0.06461176	-2.37143650
TBK1	0.30455532	0.06461480	2.37129176
C1orf50	0.30455821	0.06461480	2.37131653
ROPN1L	0.30452015	0.06465264	2.37098988
C5orf30	0.30450835	0.06465457	2.37088869
PDCD5	-0.30450410	0.06465457	-2.37085220
CXorf61	-0.30446511	0.06468769	-2.37051755
SLC10A3	-0.30446659	0.06468769	-2.37053026
XKR4	-0.30442137	0.06471733	-2.37014227
MAPK9	0.30442658	0.06471733	2.37018699
KIAA0100	0.30443134	0.06471733	2.37022780
UBE2D1	0.30441093	0.06472160	2.37005264
SLC16A11	-0.30438214	0.06475081	-2.36980561
IGHV7-81	-0.30437230	0.06475425	-2.36972123
PPME1	0.30436417	0.06475537	2.36965147
MTM1	0.30431545	0.06481171	2.36923343
OCIAD1	0.30429949	0.06482349	2.36909647
CSH1	-0.30428538	0.06483276	-2.36897538
RYR2	-0.30425160	0.06486880	-2.36868561
NPC2	0.30422021	0.06490160	2.36841629
INTS7	0.30419716	0.06492305	2.36821858
TPI1	0.30416898	0.06495151	2.36797680
HDAC8	0.30415252	0.06495828	2.36783555
SLC1A6	-0.30414942	0.06495828	-2.36780897
RNF115	0.30411113	0.06497600	2.36748054

THEM5	-0.30409969	0.06497600	-2.36738234
C21orf123	-0.30409266	0.06497600	-2.36732205
ZFX	0.30411239	0.06497600	2.36749130
TAF1A	0.30411195	0.06497600	2.36748753
C1orf105	-0.30410151	0.06497600	-2.36739796
ADRA1D	-0.30405236	0.06501980	-2.36697643
ELOVL2	-0.30404226	0.06501980	-2.36688974
RAGE	0.30403165	0.06501980	2.36679875
NBPF3	0.30403137	0.06501980	2.36679630
LOC100130348	-0.30402238	0.06502211	-2.36671925
LOC100133400	0.30400888	0.06503059	2.36660344
SEC14L4	-0.30398567	0.06505231	-2.36640436
LRRC34	0.30397540	0.06505638	2.36631631
PCP4	-0.30395993	0.06506755	-2.36618355
TEKT1	0.30393176	0.06509605	2.36594195
CDC42EP5	-0.30388168	0.06514107	-2.36551246
APOBEC4	0.30388393	0.06514107	2.36553176
DYRK2	0.30387693	0.06514107	2.36547177
ACTBL2	-0.30386543	0.06514684	-2.36537307
ICA1L	0.30382278	0.06519516	2.36500729
LDLRAD1	0.30379996	0.06520794	2.36481159
TMEM30A	0.30378430	0.06520794	2.36467737
SNORA28	0.30379457	0.06520794	2.36476539
CLDN12	0.30378825	0.06520794	2.36471118
ST6GALNAC6	0.30377179	0.06521509	2.36457007
BCL2L12	-0.30374037	0.06524810	-2.36430063
CXorf57	0.30368691	0.06530131	2.36384222
C20orf7	0.30369074	0.06530131	2.36387506
TTC21B	0.30366441	0.06532213	2.36364933
ZNF223	0.30365231	0.06532875	2.36354553
HADHB	0.30363376	0.06534418	2.36338648
ZIM2	-0.30359643	0.06538533	-2.36306643
ABCA3	-0.30358686	0.06538847	-2.36298438

FOXRED1	0.30353923	0.06544376	2.36257600	
SLC24A5	-0.30348783	0.06550425	-2.36213539	
DSN1	0.30347735	0.06550865	2.36204555	
LOC57228	0.30345647	0.06552732	2.36186652	
WNT16	-0.30344880	0.06552787	-2.36180072	
TEX9	0.30343157	0.06554154	2.36165304	
C7orf29	-0.30339616	0.06558016	-2.36134948	
KIAA1429	0.30334649	0.06561841	2.36092376	
OSTF1	0.30336024	0.06561841	2.36104162	
RPL7AP53	-0.30335349	0.06561841	-2.36098378	
ROR2	-0.30331565	0.06564939	-2.36065937	
HERPUD2	0.30330613	0.06564939	2.36057783	
AIFM1	0.30330214	0.06564939	2.36054358	
UBXN2B	0.30328502	0.06566292	2.36039688	
BRI3	-0.30324352	0.06570997	-2.36004118	
C12orf66	0.30320589	0.06573175	2.35971866	
PCTK2	0.30320615	0.06573175	2.35972091	
TAF11	0.30321538	0.06573175	2.35979997	
MKRN2	0.30318901	0.06574498	2.35957399	
NUDT7	0.30318154	0.06574527	2.35950995	
RUSC2	-0.30315587	0.06577059	-2.35928997	yes
WDR1	0.30313089	0.06579497	2.35907590	
OBP2A	-0.30310504	0.06581056	-2.35885440	
PSMA7	0.30310734	0.06581056	2.35887412	
LOC100128775	-0.30308366	0.06582002	-2.35867115	
CXCL12	-0.30308799	0.06582002	-2.35870826	
MLANA	-0.30306036	0.06584210	-2.35847150	
HIBCH	0.30304679	0.06585080	2.35835520	
GANAB	0.30302585	0.06586965	2.35817574	
SLC8A3	-0.30299629	0.06590037	-2.35792243	
CLIC5	0.30297814	0.06591537	2.35776699	
NPHP1	0.30295922	0.06593145	2.35760488	
FAM173B	0.30293337	0.06595709	2.35738335	

PRMT6	0.30292422	0.06595970	2.35730497	
C1orf175	-0.30290984	0.06596954	-2.35718170	
DEFB112	-0.30288165	0.06599841	-2.35694024	
UCP2	0.30286416	0.06601254	2.35679034	
IDI2	-0.30285571	0.06601419	-2.35671800	
C1orf52	0.30284213	0.06602293	2.35660161	
ANKRD34B	-0.30282461	0.06603711	-2.35645150	
FLJ45831	-0.30280675	0.06603759	-2.35629852	
NFE2L2	0.30280252	0.06603759	2.35626229	
ORC4L	0.30280353	0.06603759	2.35627097	
LOC100130356	-0.30278509	0.06604771	-2.35611294	
GALNTL5	-0.30278071	0.06604771	-2.35607541	
TRUB2	0.30276204	0.06606347	2.35591550	
LOC153684	0.30275120	0.06606488	2.35582260	
DZIP3	0.30274654	0.06606488	2.35578270	
SPATS1	0.30269945	0.06610315	2.35537932	
CES8	0.30271037	0.06610315	2.35547290	
POLR2E	0.30269710	0.06610315	2.35535917	
LOC284837	-0.30266191	0.06614175	-2.35505772	
CNTNAP2	-0.30262322	0.06618520	-2.35472634	
KLHL4	-0.30259649	0.06620311	-2.35449736	yes
CCDC102A	-0.30259579	0.06620311	-2.35449140	
RSBN1L	0.30255069	0.06622546	2.35410509	
AICDA	-0.30256322	0.06622546	-2.35421242	
RPL9	0.30255703	0.06622546	2.35415945	
SCARNA1	-0.30256519	0.06622546	-2.35422927	
SLC25A14	0.30253218	0.06624105	2.35394656	
EIF1B	0.30250439	0.06626948	2.35370857	
KPNA5	0.30249003	0.06627859	2.35358555	
ATXN2	0.30248334	0.06627859	2.35352830	yes
C1orf88	0.30246573	0.06628347	2.35337749	
GABRA6	-0.30245813	0.06628347	-2.35331241	
PIGT	0.30246281	0.06628347	2.35335243	

KRT26	-0.30241212	0.06631713	-2.35291838	
NPHS2	-0.30241390	0.06631713	-2.35293362	
MTSS1	0.30241546	0.06631713	2.35294700	
LHFPL1	-0.30239860	0.06632585	-2.35280258	
DHDH	-0.30239055	0.06632700	-2.35273364	
VN1R5	-0.30236146	0.06633826	-2.35248455	
LRRTM3	-0.30235877	0.06633826	-2.35246151	
ATP6AP1	0.30236668	0.06633826	2.35252923	
PLEKHG1	0.30235353	0.06633826	2.35241661	
OR5B3	-0.30232867	0.06636267	-2.35220376	
EED	0.30231855	0.06636669	2.35211712	
CLNS1A	0.30224715	0.06641493	2.35150577	
ADAMTS18	-0.30223403	0.06641493	-2.35139337	
FRK	0.30225731	0.06641493	2.35159277	yes
TUSC1	-0.30223321	0.06641493	-2.35138637	
RAB1F	0.30225251	0.06641493	2.35155160	
RNF170	0.30224748	0.06641493	2.35150858	
CLDN8	0.30223660	0.06641493	2.35141542	
PLAA	0.30221950	0.06642393	2.35126899	
PLRG1	0.30219663	0.06644562	2.35107319	
SOBP	-0.30218516	0.06645152	-2.35097498	
SNORD77	0.30213905	0.06650544	2.35058016	
PIK3R4	0.30209235	0.06655150	2.35018036	
TROVE2	0.30209141	0.06655150	2.35017236	
ABHD13	0.30207578	0.06656319	2.35003850	
PPIF	0.30204691	0.06659325	2.34979135	
C6orf153	0.30203841	0.06659504	2.34971864	
BEND5	0.30200560	0.06663057	2.34943781	
CDX4	-0.30198668	0.06663683	-2.34927583	
C14orf133	0.30198676	0.06663683	2.34927651	
CAB39	0.30196718	0.06664392	2.34910885	
RIC3	-0.30197158	0.06664392	-2.34914653	
CYP2F1	0.30193769	0.06666723	2.34885647	

MYF6	-0.30193374	0.06666723	-2.34882263	
SMAP2	0.30192507	0.06666723	2.34874843	
GPR68	-0.30192158	0.06666723	-2.34871859	
PLA2G2A	-0.30182793	0.06678737	-2.34791704	
BTBD8	0.30180085	0.06681503	2.34768524	
FLJ34651	-0.30177404	0.06684232	-2.34745583	
RBM39	0.30174863	0.06686767	2.34723836	
FBP2	-0.30173960	0.06687021	-2.34716109	
SEMA4F	-0.30171738	0.06687109	-2.34697093	
DSCAM	-0.30172627	0.06687109	-2.34704700	
LOC440419	-0.30171973	0.06687109	-2.34699102	
OR8B12	-0.30169299	0.06689504	-2.34676216	
ZNF398	0.30161771	0.06698990	2.34611797	yes
IL1RAPL1	-0.30160175	0.06700212	-2.34598140	
AK7	0.30158920	0.06700959	2.34587401	
CIRBP	0.30152865	0.06706224	2.34535594	
WDR17	0.30152268	0.06706224	2.34530484	
OR7C2	-0.30153222	0.06706224	-2.34538650	
OVCH1	-0.30153600	0.06706224	-2.34541887	
ADIG	-0.30150364	0.06707877	-2.34514196	
TRDMT1	0.30148784	0.06708648	2.34500678	
FLJ11506	0.30148373	0.06708648	2.34497165	yes
HIST1H3E	0.30141945	0.06716619	2.34442170	
CSRNP3	-0.30141193	0.06716666	-2.34435731	
OR5AU1	-0.30136022	0.06721724	-2.34391495	
ZNF528	0.30136272	0.06721724	2.34393632	
CCT6A	0.30135416	0.06721724	2.34386315	
LOC100133426	-0.30130340	0.06727817	-2.34342890	
RHOG	-0.30128829	0.06728925	-2.34329965	
IFNA10	-0.30124595	0.06733844	-2.34293750	
CDC14A	0.30122952	0.06735139	2.34279692	
AKR1CL1	-0.30119653	0.06738752	-2.34251472	
TM2D2	0.30118754	0.06739004	2.34243785	

TRBV27	-0.30117725	0.06739439	-2.34234988
C10orf107	0.30116662	0.06739895	2.34225896
ATP2C1	0.30115963	0.06739895	2.34219917
CHURC1	0.30113731	0.06742015	2.34200827
NAMPT	-0.30110060	0.06742130	-2.34169430
CCT6B	0.30110667	0.06742130	2.34174621
TBC1D26	-0.30111427	0.06742130	-2.34181117
SLC25A3	0.30112774	0.06742130	2.34192642
PTH2R	-0.30110522	0.06742130	-2.34173380
BSX	-0.30109197	0.06742334	-2.34162045
LARP7	0.30106071	0.06745709	2.34135308
ZNF295	0.30100359	0.06751704	2.34086463
WDR23	0.30100769	0.06751704	2.34089973
C1orf115	-0.30098969	0.06752647	-2.34074576
LOC100133395	-0.30097396	0.06753121	-2.34061123
GBAS	0.30097196	0.06753121	2.34059416
DULLARD	-0.30096086	0.06753672	-2.34049927
SMG1	0.30087929	0.06763512	2.33980173
GPR61	-0.30087640	0.06763512	-2.33977705
LIPM	-0.30084348	0.06767129	-2.33949552
OR5111	-0.30081825	0.06769667	-2.33927977
OR4D6	-0.30077944	0.06773462	-2.33894800
IQCH	0.30077690	0.06773462	2.33892629
FGD5	-0.30073680	0.06778092	-2.33858346
LAIR2	-0.30071291	0.06779596	-2.33837920
ZNF227	0.30071178	0.06779596	2.33836954
YWHAQ	0.30070167	0.06780010	2.33828312
C3orf33	-0.30068855	0.06780847	-2.33817094
TOR3A	0.30063477	0.06787409	2.33771114
LOC391532	-0.30060294	0.06790882	-2.33743908
TMEM132B	-0.30055552	0.06796553	-2.33703377
ADD3	0.30052930	0.06797221	2.33680957
GOLGA1	0.30052967	0.06797221	2.33681276

WASF4	-0.30054175	0.06797221	-2.33691606
TFDP2	0.30051223	0.06798617	2.33666369
CLC	-0.30049602	0.06799499	-2.33652517
STX18	0.30049165	0.06799499	2.33648781
MRPL12	-0.30046058	0.06802870	-2.33622225
C6orf125	0.30043998	0.06804767	2.33604617
TMEM48	0.30042122	0.06806404	2.33588581
UNC93B1	0.30041254	0.06806567	2.33581164
SCIN	0.30040574	0.06806567	2.33575357
ANKRD43	-0.30037755	0.06809535	-2.33551264
ATXN7L2	-0.30036686	0.06810035	-2.33542121
ZNF57	0.30033336	0.06811216	2.33513498
HTR1E	-0.30032987	0.06811216	-2.33510510
HTR7	-0.30033275	0.06811216	-2.33512977
KCNAB1	-0.30034933	0.06811216	-2.33527147
UBR1	0.30030018	0.06814398	2.33485143
CSRP1	-0.30029006	0.06814817	-2.33476494
WDR69	0.30026695	0.06816352	2.33456740
ATO7	-0.30026489	0.06816352	-2.33454981
GLOD5	-0.30023890	0.06816993	-2.33432776
EXOC4	0.30024049	0.06816993	2.33434128
SCN9A	-0.30024058	0.06816993	-2.33434206
ZSCAN5A	0.30012653	0.06831868	2.33336757
RRAGB	0.30011834	0.06832016	2.33329755
PIH1D2	0.30010439	0.06832978	2.33317842
ZNF496	-0.30009125	0.06833826	-2.33306614
RPS27AP17	-0.30006889	0.06835980	-2.33287506
MRPL42	0.30004150	0.06838140	2.33264106
TP53I11	-0.30003934	0.06838140	-2.33262263
APBA2	-0.30002531	0.06839115	-2.33250275
C14orf115	-0.30001764	0.06839189	-2.33243722
C21orf99	-0.29999232	0.06840753	-2.33222088
DYNLT3	0.29999303	0.06840753	2.33222699

ZNF664	0.29993635	0.06845646	2.33174277
LOC285453	0.29994243	0.06845646	2.33179467
GPATCH2	0.29994493	0.06845646	2.33181605
DOK6	-0.29991198	0.06847542	-2.33153462
LRRK1	0.29990869	0.06847542	2.33150648
C11orf45	-0.29989834	0.06847997	-2.33141807
KRT73	-0.29985716	0.06852824	-2.33106627
BMP15	-0.29983739	0.06854615	-2.33089744
ARPC2	0.29980550	0.06856288	2.33062506
ACTRT1	-0.29980539	0.06856288	-2.33062408
ZFYVE26	0.29980419	0.06856288	2.33061384
CHRNA7	-0.29977444	0.06859496	-2.33035975
ECD	0.29969422	0.06868200	2.32967455
ZNF581	-0.29970246	0.06868200	-2.32974493
LOC90835	0.29969174	0.06868200	2.32965337
TOR1A	0.29963989	0.06872527	2.32921059
C17orf28	-0.29964406	0.06872527	-2.32924621
TDRG1	-0.29965218	0.06872527	-2.32931554
NR2C2AP	0.29960714	0.06874969	2.32893093
OR8B8	-0.29960959	0.06874969	-2.32895181
TXNDC6	0.29960131	0.06874969	2.32888115
GADD45A	0.29958949	0.06875637	2.32878019
CCNB1IP1	0.29958044	0.06875911	2.32870286
LOC100127971	-0.29955915	0.06876911	-2.32852107
SERPINI2	0.29956097	0.06876911	2.32853662
ACAD9	0.29952837	0.06878560	2.32825821
ADAM11	-0.29952117	0.06878560	-2.32819677
BBS1	0.29952260	0.06878560	2.32820894
ITFG1	0.29951905	0.06878560	2.32817869
EIF2C4	0.29949455	0.06880699	2.32796942
GJA3	-0.29948977	0.06880699	-2.32792865
FXYD6	-0.29945549	0.06884563	-2.32763593
SLC16A13	0.29941248	0.06889670	2.32726873

TCEAL7	-0.29940426	0.06889826	-2.32719854
SENP1	0.29932135	0.06900332	2.32649067
KIF5C	-0.29931628	0.06900332	-2.32644733
SNAI1	-0.29929031	0.06903019	-2.32622564
GPR4	-0.29923369	0.06910063	-2.32574228
ZC3H12D	-0.29922669	0.06910063	-2.32568250
LOC100133419	-0.29920108	0.06911835	-2.32546388
RDH5	-0.29920003	0.06911835	-2.32545496
OPLAH	-0.29917495	0.06913927	-2.32524081
CHMP1B	0.29917115	0.06913927	2.32520840
DYDC2	0.29915666	0.06914979	2.32508475
TXLNA	0.29908235	0.06920513	2.32445041
KIAA0776	0.29910228	0.06920513	2.32462056
WDR21B	-0.29909021	0.06920513	-2.32451756
PPP2CB	0.29909144	0.06920513	2.32452804
STAT3	0.29908545	0.06920513	2.32447692
COG2	0.29903483	0.06921957	2.32404487
SRPK3	-0.29904740	0.06921957	-2.32415211
ARF4	0.29903664	0.06921957	2.32406030
MED1	0.29904169	0.06921957	2.32410337
MCCC1	0.29904120	0.06921957	2.32409918
SNX21	-0.29902612	0.06921957	-2.32397050
MED7	0.29902248	0.06921957	2.32393947
PNLIPRP2	-0.29895404	0.06930723	-2.32335536
C1orf177	-0.29889842	0.06936784	-2.32288069
MARCH7	0.29889746	0.06936784	2.32287246
DNER	0.29888163	0.06938032	2.32273740
PPP1R10	0.29882065	0.06945747	2.32221699
OR8K3	-0.29881067	0.06946159	-2.32213184
PNMA3	-0.29880187	0.06946401	-2.32205678
PLD6	-0.29874212	0.06950068	-2.32154687
LANCL2	0.29876298	0.06950068	2.32172492
PTH	-0.29875097	0.06950068	-2.32162244

TSKS	-0.29874078	0.06950068	-2.32153544
KHDC1	-0.29875891	0.06950068	-2.32169014
SNAP47	0.29872546	0.06951246	2.32140473
OR2T10	-0.29870187	0.06951576	-2.32120345
TMEM139	-0.29871375	0.06951576	-2.32130483
LRRC37B2	0.29870594	0.06951576	2.32123818
SMEK3P	-0.29869113	0.06952097	-2.32111185
CCDC150	-0.29863785	0.06958720	-2.32065723
DNM1L	0.29861399	0.06961124	2.32045369
CSTF3	0.29857359	0.06965903	2.32010905
MTERFD1	0.29856084	0.06966715	2.32000027
CNNM4	0.29852351	0.06970038	2.31968183
ERBB2IP	0.29852369	0.06970038	2.31968332
CACNA1C	-0.29850148	0.06971165	-2.31949391
GEMIN6	0.29850746	0.06971165	2.31954485
RPS26P39	-0.29846847	0.06974889	-2.31921226
ZNF681	0.29844811	0.06975776	2.31903864
MUT	0.29845379	0.06975776	2.31908706
LOC100131756	-0.29839301	0.06980847	-2.31856864
DUPD1	-0.29839934	0.06980847	-2.31862259
PDE6A	-0.29838649	0.06980847	-2.31851302
BMPR1B	0.29838448	0.06980847	2.31849584
PIGN	0.29826929	0.06996403	2.31751339
CHRNE	-0.29822394	0.07001916	-2.31712663
NELF	-0.29820461	0.07003680	-2.31696180
SLC14A1	-0.29815174	0.07010282	-2.31651095
DDX52	0.29810937	0.07013328	2.31614962
COMMD4	-0.29812353	0.07013328	-2.31627032
UPP1	-0.29811425	0.07013328	-2.31619121
KRTAP7-1	-0.29809754	0.07014013	-2.31604875
PTPRT	0.29808188	0.07015251	2.31591519
DUS4L	0.29803915	0.07018750	2.31555081
FMR1	0.29804041	0.07018750	2.31556159

TRIM58	-0.29803639	0.07018750	-2.31552731
FLJ32063	-0.29802798	0.07018942	-2.31545560
SNORD116-29	-0.29799350	0.07021474	-2.31516161
CDC42EP2	-0.29796974	0.07021474	-2.31495902
C14orf1	0.29796499	0.07021474	2.31491856
C14orf145	0.29799524	0.07021474	2.31517645
HS6ST3	-0.29797833	0.07021474	-2.31503227
GRIK1	-0.29798843	0.07021474	-2.31511838
PKIB	0.29796090	0.07021474	2.31488364
TAC1	-0.29794337	0.07022983	-2.31473423
ACCN1	-0.29789245	0.07029318	-2.31430008
SPTBN5	-0.29785014	0.07033389	-2.31393938
ARL8B	0.29785689	0.07033389	2.31399690
SLC4A4	0.29775840	0.07045641	2.31315728
ECSIT	-0.29769645	0.07053591	-2.31262922
USP1	0.29768738	0.07053880	2.31255189
EPHX2	0.29762486	0.07061921	2.31201899
ANKLE1	-0.29759740	0.07064878	-2.31178495
RBM44	-0.29757375	0.07067283	-2.31158346
AK3	0.29754114	0.07070992	2.31130548
DCST2	-0.29750250	0.07075576	-2.31097623
TANK	0.29742488	0.07080271	2.31031469
GPR182	-0.29742070	0.07080271	-2.31027910
COL9A3	-0.29744671	0.07080271	-2.31050072
LCA5L	0.29742600	0.07080271	2.31032424
NT5C2	0.29744042	0.07080271	2.31044714
MYO7A	-0.29743362	0.07080271	-2.31038922
CDC40	0.29742912	0.07080271	2.31035089
IFNGR1	0.29740762	0.07080997	2.31016762
EPB41L4A	0.29739342	0.07080997	2.31004665
TMEM133	0.29739253	0.07080997	2.31003907
TNFSF15	-0.29738744	0.07080997	-2.30999568
NFIC	-0.29737729	0.07081446	-2.30990920

OR3A3	-0.29736283	0.07082521	-2.30978597	
FRAT1	-0.29733745	0.07084968	-2.30956976	yes
FAM120C	0.29733187	0.07084968	2.30952218	
SLC9A6	0.29717655	0.07092188	2.30819883	
OR5P3	-0.29721241	0.07092188	-2.30850432	
CYP19A1	-0.29722182	0.07092188	-2.30858451	
GPC5	-0.29720074	0.07092188	-2.30840487	
TNRC6B	0.29721459	0.07092188	2.30852292	
GLE1	0.29718519	0.07092188	2.30827244	
KCNJ10	-0.29719608	0.07092188	-2.30836524	
LIN28B	-0.29720943	0.07092188	-2.30847895	
UFM1	0.29722819	0.07092188	2.30863879	
NUP107	0.29719518	0.07092188	2.30835751	
SEPP1	0.29723964	0.07092188	2.30873635	
FLJ38576	-0.29723122	0.07092188	-2.30866460	
FAM110B	-0.29723001	0.07092188	-2.30865433	
ADIPOQ	-0.29717639	0.07092188	-2.30819746	
LENG9	-0.29719015	0.07092188	-2.30831466	
RCN2	0.29716665	0.07092579	2.30811449	
RANGRF	-0.29713638	0.07095959	-2.30785659	
RMND1	0.29712401	0.07096733	2.30775121	
LOC653198	-0.29709096	0.07100518	-2.30746967	
HNF4G	0.29708216	0.07100774	2.30739468	
KCNK7	-0.29706341	0.07102477	-2.30723501	
ZNF497	-0.29704747	0.07103773	-2.30709924	
C4orf6	-0.29701693	0.07106319	-2.30683901	
SCLT1	0.29698907	0.07106319	2.30660174	
ITPA	0.29698905	0.07106319	2.30660152	
OR3A4	-0.29700347	0.07106319	-2.30672442	
SLCO1A2	-0.29699904	0.07106319	-2.30668670	
NCR1	-0.29698773	0.07106319	-2.30659034	
GGT1	-0.29695724	0.07109169	-2.30633061	
PSPC1	0.29695409	0.07109169	2.30630381	

LOC492303	-0.29693689	0.07110650	-2.30615725
FAM19A3	-0.29691085	0.07113419	-2.30593553
LOC100130858	-0.29686879	0.07113932	-2.30557724
GLRA2	-0.29687702	0.07113932	-2.30564732
SOST	-0.29689398	0.07113932	-2.30579184
POU6F1	-0.29685105	0.07113932	-2.30542616
IL25	-0.29687300	0.07113932	-2.30561314
PYROXD1	0.29685722	0.07113932	2.30547875
FIBP	0.29688221	0.07113932	2.30569154
GOSR1	0.29685533	0.07113932	2.30546261
JMJD1A	0.29684352	0.07114004	2.30536207
SEP2	0.29674347	0.07127575	2.30450999
SPANXN5	-0.29671025	0.07131400	-2.30422709
MYLK	-0.29669307	0.07132882	-2.30408081
C2orf73	0.29666267	0.07134242	2.30382195
TIAM2	-0.29666423	0.07134242	-2.30383523
TFAM	0.29667521	0.07134242	2.30392868
IL17RE	-0.29661901	0.07138997	-2.30345016
C17orf59	-0.29661608	0.07138997	-2.30342519
GAS2L3	-0.29660835	0.07139099	-2.30335940
C6orf62	0.29659763	0.07139638	2.30326813
GIF	-0.29655287	0.07144673	-2.30288703
FLJ22184	-0.29654915	0.07144673	-2.30285533
SLC9A11	0.29653981	0.07145012	2.30277579
OR10Z1	-0.29645555	0.07153372	-2.30205847
ARID3C	-0.29646750	0.07153372	-2.30216016
NCBP2	0.29646209	0.07153372	2.30211415
PRO1768	-0.29645458	0.07153372	-2.30205017
SUGT1	0.29640787	0.07159184	2.30165253
CST9L	-0.29635932	0.07165270	-2.30123921
PLCH1	0.29634967	0.07165655	2.30115705
ACE	-0.29633511	0.07166760	-2.30103314
ZNF175	0.29631099	0.07169267	2.30082783

CERKL	0.29628825	0.07171573	2.30063423	
OR10T2	-0.29625063	0.07174340	-2.30031403	
XCR1	-0.29625420	0.07174340	-2.30034438	
CDA	-0.29624833	0.07174340	-2.30029445	
DCTN5	0.29622286	0.07177047	2.30007770	
GRIN1	-0.29618696	0.07181288	-2.29977210	
YIPF4	0.29617277	0.07182342	2.29965130	
LYPLA1	0.29615098	0.07182451	2.29946583	
LRRC28	0.29615140	0.07182451	2.29946941	
CRTC3	-0.29616372	0.07182451	-2.29957432	
BNIP3L	0.29614279	0.07182623	2.29939616	
XKR8	-0.29610485	0.07186135	-2.29907328	
CCKAR	-0.29610845	0.07186135	-2.29910390	
OR6V1	-0.29606725	0.07190629	-2.29875327	
CCDC125	0.29602409	0.07194694	2.29838602	
KBTBD2	0.29602267	0.07194694	2.29837393	
PRR19	-0.29601856	0.07194694	-2.29833894	
GOLPH3L	0.29596312	0.07201819	2.29786712	yes
SCGB1D1	-0.29594008	0.07202991	-2.29767107	
TMEM214	-0.29593412	0.07202991	-2.29762041	
OR1A1	-0.29594556	0.07202991	-2.29771768	
OR52A4	-0.29590585	0.07206121	-2.29737981	
LEPREL2	-0.29585992	0.07211853	-2.29698904	
OR12D2	-0.29583733	0.07214149	-2.29679677	
ADAM17	0.29579568	0.07218222	2.29644243	
EIF2B5	0.29579825	0.07218222	2.29646428	
GREM2	-0.29578727	0.07218429	-2.29637086	
LINGO2	-0.29572359	0.07225753	-2.29582911	
SS18L2	0.29572483	0.07225753	2.29583965	
C12orf30	0.29565346	0.07234036	2.29523251	
C4orf14	0.29565536	0.07234036	2.29524866	
PAFAH1B2	0.29564460	0.07234310	2.29515716	
MS4A12	-0.29556911	0.07244429	-2.29451498	

ABCD1	-0.29553218	0.07247818	-2.29420089	
TECPR2	0.29553413	0.07247818	2.29421746	
COX8A	0.29548737	0.07248914	2.29381969	
TMEM74	-0.29549341	0.07248914	-2.29387108	
TGDS	0.29548276	0.07248914	2.29378053	
ZKSCAN2	-0.29550438	0.07248914	-2.29396443	
PRKCE	0.29548708	0.07248914	2.29381730	
RAD23B	0.29550442	0.07248914	2.29396479	
KLF11	-0.29544194	0.07252882	-2.29343336	
CRLF1	-0.29544863	0.07252882	-2.29349020	
RIT2	-0.29543276	0.07253205	-2.29335528	
SCCPDH	0.29536379	0.07261343	2.29276865	
IQCG	0.29536552	0.07261343	2.29278340	
HRC	-0.29534811	0.07262629	-2.29263533	
C12orf50	-0.29532747	0.07264650	-2.29245979	
PLXNB2	0.29525381	0.07273493	2.29183344	
CCDC102B	-0.29525736	0.07273493	-2.29186357	
UQCR	0.29518320	0.07279640	2.29123298	
KLHL32	0.29519088	0.07279640	2.29129832	
DDX3X	0.29519648	0.07279640	2.29134595	yes
OR10G3	-0.29519431	0.07279640	-2.29132745	
IPO5	0.29517740	0.07279640	2.29118366	
RIMS1	0.29516088	0.07281053	2.29104323	
SF3B3	0.29511444	0.07286910	2.29064833	
FERD3L	-0.29505962	0.07292976	-2.29018225	
TMED7	0.29505969	0.07292976	2.29018289	
BCL3	-0.29500254	0.07300420	-2.28969702	
POLR3C	0.29498477	0.07302006	2.28954589	yes
GDI2	0.29497790	0.07302006	2.28948752	
CTSD	0.29492125	0.07309394	2.28900598	
C10orf78	0.29486391	0.07315852	2.28851847	
RIBC2	0.29486968	0.07315852	2.28856757	
MDH1B	0.29482787	0.07320180	2.28821216	

KRT86	-0.29480068	0.07323191	-2.28798108
SYT2	-0.29475379	0.07329142	-2.28758250
ASB15	-0.29474306	0.07329700	-2.28749127
CDC42EP1	-0.29470705	0.07332618	-2.28718528
TRAF3IP1	0.29469304	0.07332618	2.28706618
TAGLN3	0.29468125	0.07332618	2.28696594
ANKRD11	-0.29470045	0.07332618	-2.28712919
SGPP1	-0.29467460	0.07332618	-2.28690945
UTP15	0.29468281	0.07332618	2.28697924
CDC2L5	0.29469425	0.07332618	2.28707643
CMC1	0.29464719	0.07334931	2.28667653
RND1	-0.29464514	0.07334931	-2.28665909
TPRKB	0.29461389	0.07338553	2.28639352
TAC3	-0.29460291	0.07339150	-2.28630024
DDX54	-0.29459200	0.07339736	-2.28620752
LOC400940	-0.29457705	0.07340927	-2.28608048
FAM103A1	0.29455957	0.07342495	2.28593190
IL1F10	-0.29446240	0.07355975	-2.28510623
XIAP	0.29443163	0.07359535	2.28484479
LOC100129946	-0.29442072	0.07360123	-2.28475206
TRY6	-0.29437491	0.07365936	-2.28436286
LOC100133091	-0.29436109	0.07366960	-2.28424543
RGS9BP	-0.29433350	0.07367958	-2.28401101
CASP8	0.29433836	0.07367958	2.28405228
SPZ1	-0.29434419	0.07367958	-2.28410187
FAM46B	-0.29432517	0.07368160	-2.28394027
GRM6	-0.29430427	0.07370246	-2.28376270
CT47.13	-0.29429279	0.07370921	-2.28366518
UBXN10	0.29426466	0.07373604	2.28342616
FUCA1	0.29426094	0.07373604	2.28339456
SNHG3-RCC1	0.29423410	0.07375536	2.28316658
FANK1	0.29423811	0.07375536	2.28320066
AKAP11	0.29421820	0.07376876	2.28303144

LEPRE1	-0.29418038	0.07380455	-2.28271020	yes
RIMS3	-0.29418166	0.07380455	-2.28272108	
HIVEP2	0.29416392	0.07381297	2.28257035	
PPAP2C	0.29416083	0.07381297	2.28254410	
ARMC5	-0.29414780	0.07382205	-2.28243349	
SENP5	0.29409741	0.07386630	2.28200541	
LOC100133404	-0.29410083	0.07386630	-2.28203451	yes
RG9MTD2	0.29409765	0.07386630	2.28200751	
SYT6	-0.29407876	0.07388382	-2.28184704	
C9orf75	-0.29405388	0.07390025	-2.28163573	
RXFP4	-0.29405478	0.07390025	-2.28164329	
FLJ10490	-0.29402226	0.07393727	-2.28136711	
EFCAB6	0.29400719	0.07394221	2.28123910	
NKX2-1	-0.29400504	0.07394221	-2.28122091	
ARMC2	0.29398551	0.07396109	2.28105500	
LDHAL6A	-0.29396361	0.07397307	-2.28086903	
COMMD6	0.29396369	0.07397307	2.28086964	
METTL7A	0.29394975	0.07398344	2.28075128	
WNT2	-0.29394063	0.07398668	-2.28067387	
ASB12	-0.29393194	0.07398929	-2.28060002	
SEMA7A	-0.29392156	0.07399443	-2.28051188	
EFHB	0.29390982	0.07400162	2.28041217	
ACSM2B	-0.29388480	0.07402876	-2.28019965	
OR2A14	-0.29387178	0.07403219	-2.28008915	
PDLIM1	0.29386860	0.07403219	2.28006214	
CCDC111	0.29378645	0.07414525	2.27936452	
RPH3A	-0.29374630	0.07419520	-2.27902360	
C12orf32	0.29372870	0.07421123	2.27887415	
OR5K2	-0.29371950	0.07421462	-2.27879601	
LRRC67	0.29368239	0.07426002	2.27848097	
FBXW11	0.29366588	0.07427442	2.27834078	
RIMS4	-0.29361245	0.07434446	-2.27788711	
PHKG1	-0.29358807	0.07437075	-2.27768011	

NDST3	-0.29357441	0.07438086	-2.27756416	
ZP1	-0.29356535	0.07438404	-2.27748726	
COL9A2	-0.29353556	0.07441848	-2.27723437	
TMEM185A	-0.29351458	0.07443966	-2.27705620	
FOXRED2	-0.29349169	0.07446371	-2.27686194	
PHYH	0.29341588	0.07456771	2.27621841	
EIF1	0.29340525	0.07457327	2.27612817	
PTPRK	0.29338138	0.07459885	2.27592557	
MBNL3	0.29329700	0.07471597	2.27520934	
XRRA1	0.29326713	0.07475067	2.27495582	
MRGPRX2	-0.29318570	0.07486351	-2.27426471	
LRP3	-0.29315970	0.07489239	-2.27404410	
HOXD12	-0.29312428	0.07492504	-2.27374348	
RPP25	-0.29313033	0.07492504	-2.27379485	
SPATA18	0.29310504	0.07493315	2.27358021	
CD276	-0.29310652	0.07493315	-2.27359277	
DGKB	-0.29308592	0.07494660	-2.27341800	
P4HA1	0.29306838	0.07494660	2.27326919	
ARMC4	0.29307414	0.07494660	2.27331802	
HEATR6	0.29308184	0.07494660	2.27338338	
WISP1	-0.29305449	0.07495714	-2.27315132	
COL4A4	-0.29303748	0.07497242	-2.27300696	
LIME1	-0.29302628	0.07497887	-2.27291196	
C7orf16	-0.29300359	0.07500279	-2.27271936	
CAGE1	-0.29299097	0.07501141	-2.27261227	
DNAH8	-0.29296333	0.07504283	-2.27237777	
APOA2	-0.29295387	0.07504665	-2.27229756	
DYSF	-0.29293910	0.07505855	-2.27217221	yes
MPHOSPH9	0.29290525	0.07509942	2.27188504	
NAPB	0.29285638	0.07516316	2.27147036	
FLJ32065	0.29283872	0.07517947	2.27132053	
VWA3B	0.29282504	0.07518972	2.27120448	
SLC38A11	-0.29276572	0.07524527	-2.27070128	

CHCHD9	-0.29276077	0.07524527	-2.27065932	
ATF7IP2	0.29276148	0.07524527	2.27066531	
SNX27	0.29277912	0.07524527	2.27081496	
PRUNE	0.29274548	0.07525798	2.27052961	
LYSMD3	0.29271591	0.07528455	2.27027870	
PRRG1	-0.29271416	0.07528455	-2.27026387	
IL13RA1	0.29264104	0.07538536	2.26964362	
LOC728060	-0.29263234	0.07538804	-2.26956988	
CNOT7	0.29260746	0.07541540	2.26935881	yes
UAP1	0.29258267	0.07543205	2.26914855	
STK3	0.29258890	0.07543205	2.26920139	
SLC22A11	-0.29255114	0.07546955	-2.26888119	
CLINT1	0.29249171	0.07554966	2.26837709	
CDT1	-0.29246866	0.07557426	-2.26818167	
CYP17A1	-0.29245068	0.07558656	-2.26802916	
LOC84931	-0.29244675	0.07558656	-2.26799579	
KIF2A	0.29239859	0.07564953	2.26758741	
LOC442245	-0.29235360	0.07570771	-2.26720587	
C16orf63	0.29234411	0.07571162	2.26712544	
SNX3	0.29230651	0.07575852	2.26680662	
OR5T2	-0.29228015	0.07578826	-2.26658308	
CPNE7	-0.29227043	0.07579253	-2.26650067	
RNASL	0.29225544	0.07580487	2.26637356	
CYP7A1	-0.29214936	0.07591428	-2.26547412	
NLRP9	-0.29216944	0.07591428	-2.26564439	
RFWD3	0.29214980	0.07591428	2.26547787	
NLGN2	-0.29215456	0.07591428	-2.26551820	
CCDC65	0.29216685	0.07591428	2.26562246	
COPB1	0.29212870	0.07593532	2.26529900	
C9orf135	0.29211956	0.07593871	2.26522155	
RBM18	0.29210996	0.07594281	2.26514013	
TENC1	-0.29208050	0.07597736	-2.26489040	
C10orf63	0.29206174	0.07598848	2.26473133	

SLC35E4	-0.29205248	0.07598848	-2.26465284
PAK2	0.29205299	0.07598848	2.26465717
CEBPA	-0.29202650	0.07601361	-2.26443259
XPO6	0.29202225	0.07601361	2.26439658
SNX7	0.29199524	0.07604442	2.26416763
ENO1	0.29197192	0.07606960	2.26396988
PTRH2	0.29194014	0.07610775	2.26370051
CABIN1	0.29191841	0.07610925	2.26351635
BIRC5	-0.29192485	0.07610925	-2.26357096
TPD52L1	-0.29192943	0.07610925	-2.26360971
SPDYE4	-0.29189072	0.07613053	-2.26328162
ATXN3L	-0.29189140	0.07613053	-2.26328737
NR2C1	0.29186752	0.07615553	2.26308500
ARAP3	-0.29185140	0.07616966	-2.26294838
HIAT1	0.29183421	0.07618545	2.26280267
C19orf18	0.29181891	0.07619833	2.26267304
FAM5B	-0.29175867	0.07628028	-2.26216249
GOT1L1	-0.29171337	0.07630709	-2.26177855
C6orf199	0.29173129	0.07630709	2.26193043
FHL3	-0.29171052	0.07630709	-2.26175442
TMED5	0.29170669	0.07630709	2.26172193
CYTH2	0.29172555	0.07630709	2.26188180
HERC4	0.29168519	0.07632953	2.26153970
TESK1	-0.29165355	0.07636757	-2.26127162
BTBD10	0.29164189	0.07637489	2.26117282
TMEM45B	0.29162306	0.07639324	2.26101322
SPAG8	0.29160341	0.07641286	2.26084670
LOC399965	-0.29154674	0.07648949	-2.26036657
LOC389257	-0.29152588	0.07649353	-2.26018976
EDEM2	0.29153528	0.07649353	2.26026942
TTC17	0.29152340	0.07649353	2.26016879
SLC31A2	-0.29149200	0.07651900	-2.25990276
LOC152667	-0.29148616	0.07651900	-2.25985324

MBL2	-0.29149886	0.07651900	-2.25996081	
PNPLA8	0.29147409	0.07652696	2.25975101	
ADCK2	0.29142442	0.07658846	2.25933018	
PKHD1L1	-0.29142040	0.07658846	-2.25929606	yes
CAMTA2	-0.29139160	0.07662223	-2.25905212	
BTG4	0.29138430	0.07662284	2.25899029	
DLG2	-0.29137579	0.07662533	-2.25891815	
RGS22	0.29126507	0.07678563	2.25798016	
MAGEB16	-0.29124486	0.07679371	-2.25780899	
PTRF	-0.29124544	0.07679371	-2.25781391	yes
OR5K3	-0.29123914	0.07679371	-2.25776054	
TBC1D29	-0.29121313	0.07682324	-2.25754026	
PSMD8	0.29119627	0.07683864	2.25739743	
METTL14	0.29117514	0.07686065	2.25721840	
RNF103	0.29115732	0.07687754	2.25706749	
KLHL8	0.29112225	0.07692112	2.25677047	
MPG	-0.29111096	0.07692792	-2.25667485	
HOXA7	-0.29108040	0.07695779	-2.25641601	
GDAP2	0.29107787	0.07695779	2.25639455	
C11orf84	-0.29104923	0.07698957	-2.25615204	
EFCAB1	0.29104356	0.07698957	2.25610396	
B4GALNT2	-0.29095518	0.07706241	-2.25535548	
CLSTN1	0.29098369	0.07706241	2.25559699	
OR10R2	-0.29097631	0.07706241	-2.25553445	
OCLN	0.29096771	0.07706241	2.25546159	
LOC728285	-0.29095712	0.07706241	-2.25537198	
TRIM11	-0.29096892	0.07706241	-2.25547192	
FTL	0.29091569	0.07711291	2.25502113	
TOR2A	-0.29090267	0.07712242	-2.25491087	
CORO2A	0.29084457	0.07720184	2.25441886	
OR5M8	-0.29082240	0.07721014	-2.25423114	
C4orf3	0.29080694	0.07721014	2.25410025	
COL5A3	-0.29080763	0.07721014	-2.25410612	

SLC9A5	-0.29080924	0.07721014	-2.25411975
TXNRD1	0.29080479	0.07721014	2.25408202
SH2B2	-0.29079119	0.07722055	-2.25396689
C15orf44	0.29073743	0.07729331	2.25351174
LZTS1	-0.29064387	0.07742800	-2.25271956
STK17B	0.29063593	0.07742963	2.25265239
OXER1	-0.29062524	0.07743555	-2.25256189
DLEU1	0.29057510	0.07749213	2.25213744
FH	0.29057910	0.07749213	2.25217125
TBRG1	0.29056447	0.07749796	2.25204742
C8orf48	-0.29055597	0.07750047	-2.25197549
C17orf53	-0.29051787	0.07754906	-2.25165297
C9orf116	0.29049514	0.07755833	2.25146059
FLJ25770	-0.29049743	0.07755833	-2.25147996
JAM3	-0.29049127	0.07755833	-2.25142781
PAN2	0.29048113	0.07756341	2.25134197
MRPS23	0.29046425	0.07756827	2.25119910
TLR1	0.29046465	0.07756827	2.25120245
IARS2	0.29040068	0.07765482	2.25066100
LOC728554	-0.29039493	0.07765482	-2.25061238
SCUBE1	-0.29037029	0.07767684	-2.25040379
KCNK6	-0.29036705	0.07767684	-2.25037636
SLC30A3	-0.29034762	0.07769640	-2.25021196
ISM2	-0.29033836	0.07770013	-2.25013354
SH3BP1	-0.29029989	0.07771925	-2.24980800
GABRR1	-0.29031660	0.07771925	-2.24994941
GPR142	-0.29028638	0.07771925	-2.24969362
KRT77	-0.29028135	0.07771925	-2.24965106
FLJ41327	-0.29029835	0.07771925	-2.24979494
ACTR3B	0.29027692	0.07771925	2.24961358
RAB34	0.29027219	0.07771925	2.24957353
KRT36	-0.29027112	0.07771925	-2.24956451
TEKT2	0.29025459	0.07773431	2.24942460

C12orf63	0.29023459	0.07774441	2.24925537	
OTUD4	0.29023438	0.07774441	2.24925358	yes
PLEKHO1	-0.29022323	0.07775109	-2.24915919	
MYH2	-0.29020958	0.07775914	-2.24904365	
C5orf22	0.29020434	0.07775914	2.24899931	
FOLR2	-0.29013952	0.07784956	-2.24845083	
TMC2	-0.29011877	0.07787124	-2.24827521	
RAC1	0.29008295	0.07790759	2.24797211	
SEC1	-0.29008176	0.07790759	-2.24796206	
PODNL1	-0.29006065	0.07792985	-2.24778343	
NKIRAS1	0.29005253	0.07793181	2.24771474	
ROS1	-0.29004061	0.07793970	-2.24761393	
tAKR	-0.29001530	0.07796853	-2.24739976	
PRKCDBP	-0.28997961	0.07801360	-2.24709776	
MEP1A	-0.28992159	0.07808287	-2.24660692	
NEUROD2	-0.28992583	0.07808287	-2.24664279	
TRAPPC6B	0.28989724	0.07810254	2.24640088	
BTN2A3	-0.28989530	0.07810254	-2.24638449	yes
MYL10	-0.28987172	0.07812870	-2.24618505	
CDH10	-0.28985302	0.07813914	-2.24602687	
SPINK4	-0.28985134	0.07813914	-2.24601263	
JAK1	0.28982714	0.07816629	2.24580791	
C2orf15	0.28981427	0.07817284	2.24569901	
ENTPD2	-0.28980925	0.07817284	-2.24565653	
ACP1	0.28978661	0.07819755	2.24546505	
PRR15	0.28977521	0.07820466	2.24536865	
DLD	0.28976173	0.07821504	2.24525461	
TF	-0.28973474	0.07824659	-2.24502626	
CRYAB	-0.28972287	0.07825007	-2.24492586	
ATP5J2	0.28971882	0.07825007	2.24489159	
PTPN14	-0.28967961	0.07830077	-2.24455996	
CIB4	-0.28965140	0.07831528	-2.24432133	
VPS54	0.28965180	0.07831528	2.24432472	

C19orf2	0.28964980	0.07831528	2.24430786	
PNLIP	-0.28962282	0.07834684	-2.24407967	
RNF145	0.28956613	0.07842504	2.24360020	
DCLRE1C	0.28954828	0.07844230	2.24344927	
TMEM147	0.28952783	0.07846366	2.24327629	
PLK4	0.28951676	0.07847030	2.24318265	
CXCR5	-0.28946674	0.07853050	-2.24275965	
SPOP	0.28946473	0.07853050	2.24274269	
CEPT1	0.28943299	0.07853735	2.24247423	
C3orf49	-0.28943555	0.07853735	-2.24249593	
DPY19L4	0.28943871	0.07853735	2.24252263	
WDR67	0.28944118	0.07853735	2.24254352	
L1TD1	-0.28942181	0.07854416	-2.24237973	
TPM3	0.28940676	0.07855130	2.24225246	
WBSCR16	-0.28940358	0.07855130	-2.24222555	
C1orf212	0.28937647	0.07856165	2.24199637	
EIF2AK1	0.28938151	0.07856165	2.24203893	
LCNL1	-0.28938662	0.07856165	-2.24208219	
TMEM126A	0.28936531	0.07856845	2.24190194	
RFX2	0.28933107	0.07861150	2.24161247	
SNX4	0.28930658	0.07862123	2.24140541	
FAM105B	0.28930437	0.07862123	2.24138672	
COQ10A	0.28930856	0.07862123	2.24142210	
AKR1A1	0.28928517	0.07862630	2.24122432	
CLEC3B	-0.28928600	0.07862630	-2.24123135	yes
L3MBTL2	0.28928064	0.07862630	2.24118603	
SH3GLB1	0.28924681	0.07866874	2.24090006	
GPR141	-0.28920520	0.07872346	-2.24054820	
IKZF4	0.28919699	0.07872563	2.24047879	
RPS12P9	-0.28918731	0.07873011	-2.24039696	
LEMD3	0.28917919	0.07873214	2.24032830	
CRYL1	-0.28914596	0.07877369	-2.24004737	
CRHBP	-0.28909503	0.07884314	-2.23961684	yes

EBF3	-0.28904989	0.07890351	-2.23923525	yes
C1orf157	-0.28903040	0.07892347	-2.23907049	
SUB1	0.28901688	0.07893400	2.23895627	
CD1B	-0.28896379	0.07900697	-2.23850751	
OR11A1	-0.28886458	0.07912936	-2.23766900	
MRPL32	0.28886821	0.07912936	2.23769965	
C7orf49	0.28886943	0.07912936	2.23770996	
CNDP1	-0.28885896	0.07912936	-2.23762148	
ATOH8	-0.28881371	0.07919009	-2.23723903	
UBR5	0.28878599	0.07922312	2.23700473	
USP16	0.28875242	0.07926541	2.23672111	
SPATA5L1	0.28873682	0.07927929	2.23658925	
ST6GAL2	-0.28869237	0.07933883	-2.23621365	
PCDHGA4	-0.28866432	0.07937244	-2.23597662	
RIN3	-0.28861153	0.07942621	-2.23553050	
SEMA6D	-0.28860990	0.07942621	-2.23551674	
C8orf12	-0.28861558	0.07942621	-2.23556472	
PES1	0.28859106	0.07943443	2.23535757	
LOC348926	-0.28859482	0.07943443	-2.23538930	
PIGF	0.28858197	0.07943802	2.23528076	yes
NUP155	0.28855858	0.07946428	2.23508309	
SLC39A9	0.28851665	0.07951993	2.23472889	
PTGIR	-0.28848486	0.07954871	-2.23446030	
HIST1H2BO	-0.28849097	0.07954871	-2.23451189	
SPATA4	0.28845734	0.07958155	2.23422775	
TTLL5	0.28843702	0.07960297	2.23405608	yes
GYLTL1B	-0.28841806	0.07962224	-2.23389592	
CEP70	0.28837869	0.07967393	2.23356330	
BMP2	-0.28835017	0.07970839	-2.23332241	
C15orf23	0.28830966	0.07976194	2.23298018	
LRRC48	0.28824872	0.07984801	2.23246541	
LOC388946	-0.28823928	0.07984839	-2.23238574	
MYH11	-0.28823483	0.07984839	-2.23234814	

MUC7	-0.28822285	0.07985661	-2.23224694
ZER1	0.28820914	0.07986113	2.23213112
CRP	-0.28820477	0.07986113	-2.23209421
DPP8	0.28819956	0.07986113	2.23205017
ARRDC4	0.28819107	0.07986379	2.23197846
FAM46D	-0.28813475	0.07994258	-2.23150282
LOC619207	-0.28812000	0.07995521	-2.23137824
TAX1BP3	0.28809798	0.07995772	2.23119226
OR5D13	-0.28810959	0.07995772	-2.23129031
ACOX1	0.28809929	0.07995772	2.23120334
LRTM2	-0.28808362	0.07996974	-2.23107098
FLJ32682	-0.28806514	0.07998833	-2.23091489
RPRD1A	0.28800919	0.08005576	2.23044243
LOC730098	-0.28801500	0.08005576	-2.23049152
TNRC4	-0.28799742	0.08006366	-2.23034305
OR2AK2	-0.28798253	0.08007219	-2.23021726
MED9	-0.28797845	0.08007219	-2.23018285
CCL26	-0.28792435	0.08014760	-2.22972602
UBAC1	0.28789011	0.08017368	2.22943685
OR9A4	-0.28788758	0.08017368	-2.22941552
TRIM41	0.28788833	0.08017368	2.22942181
TPP2	0.28787338	0.08018279	2.22929558
LPCAT1	-0.28786826	0.08018279	-2.22925232
RPL13AP5	0.28784676	0.08020623	2.22907086
IFNA21	-0.28783568	0.08021305	-2.22897731
LOC147645	-0.28774999	0.08032666	-2.22825378
HYAL1	-0.28774196	0.08032666	-2.22818601
SMAD9	-0.28773733	0.08032666	-2.22814686
FAM134B	0.28774912	0.08032666	2.22824644
RPP30	0.28770970	0.08035994	2.22791364
ZNF516	0.28769778	0.08036812	2.22781299
PPP2R4	0.28767622	0.08039171	2.22763100
DBX2	-0.28765702	0.08041153	-2.22746890

C12orf69	-0.28763165	0.08042120	-2.22725472
TMEM50B	0.28763677	0.08042120	2.22729796
DNAH11	0.28763057	0.08042120	2.22724562
VASP	-0.28761870	0.08042931	-2.22714542
EP400NL	-0.28760667	0.08043768	-2.22704385
LOC648987	0.28753276	0.08053419	2.22641994
ZNF146	0.28753660	0.08053419	2.22645235
CCNE1	-0.28751387	0.08055355	-2.22626052
C21orf58	0.28741850	0.08069549	2.22545553
MKL1	-0.28740036	0.08070277	-2.22530245
FBXL20	0.28740512	0.08070277	2.22534258
SEMA3B	-0.28738438	0.08070659	-2.22516758
ERI1	0.28739063	0.08070659	2.22522029
C1orf94	-0.28734310	0.08076191	-2.22481918
PLEKHM3	0.28730057	0.08081926	2.22446026
KRTAP10-3	-0.28727352	0.08085179	-2.22423195
NSMCE1	0.28725834	0.08085484	2.22410389
GSTA2	0.28725446	0.08085484	2.22407115
ULK2	0.28725123	0.08085484	2.22404386
ZNF192	0.28723475	0.08087041	2.22390474
SWAP70	0.28717021	0.08095228	2.22336015
FFAR1	-0.28717044	0.08095228	-2.22336207
KLF6	0.28715493	0.08096591	2.22323126
ADRB1	-0.28709821	0.08101343	-2.22275266
KCNH5	-0.28711562	0.08101343	-2.22289953
PCDH17	-0.28710774	0.08101343	-2.22283301
TPST2	-0.28709912	0.08101343	-2.22276027
SEC14L3	0.28707646	0.08101566	2.22256914
PDF	-0.28707958	0.08101566	-2.22259541
TM2D3	0.28708448	0.08101566	2.22263682
LSM3	0.28705966	0.08102086	2.22242733
C1orf118	-0.28706627	0.08102086	-2.22248315
TMEM212	0.28700609	0.08109611	2.22197542

CLCNKB	-0.28698654	0.08111665	-2.22181050	
G6PC2	-0.28695550	0.08115571	-2.22154856	
DAAM1	0.28692965	0.08118641	2.22133054	
ADAMTS5	-0.28684781	0.08130739	-2.22064011	
OR5112	-0.28681911	0.08134273	-2.22039802	
B3GNT2	0.28676530	0.08141146	2.21994411	
TIPARP	0.28676296	0.08141146	2.21992435	
AQR	0.28674519	0.08142919	2.21977447	
TXNDC3	-0.28673242	0.08143885	-2.21966675	
CFHR3	-0.28671005	0.08146401	-2.21947813	
MRAP	-0.28667963	0.08150221	-2.21922148	
OR2M5	-0.28665256	0.08153499	-2.21899318	
ZCCHC24	-0.28664080	0.08154304	-2.21889399	
KIF3A	0.28657291	0.08164185	2.21832147	
C8orf38	0.28655310	0.08164234	2.21815441	
ACBD4	-0.28653909	0.08164234	-2.21803625	
ZMYND12	0.28653870	0.08164234	2.21803292	
RAB11FIP4	0.28654038	0.08164234	2.21804714	
RSPH1	0.28654629	0.08164234	2.21809699	
EML1	0.28650822	0.08166765	2.21777588	
TTC33	0.28650596	0.08166765	2.21775684	
JRKL	0.28650272	0.08166765	2.21772952	
EXTL2	0.28648147	0.08168010	2.21755034	
DHX40	0.28648677	0.08168010	2.21759500	
GCK	-0.28634501	0.08189019	-2.21639964	
USP39	0.28632603	0.08189898	2.21623963	
EIF4E2	0.28632976	0.08189898	2.21627112	
VAV3	0.28623615	0.08201184	2.21548183	
DMP1	-0.28624403	0.08201184	-2.21554832	
ARID2	0.28624183	0.08201184	2.21552976	yes
MUTED	0.28621597	0.08203359	2.21531173	
ARRDC3	0.28619746	0.08205266	2.21515565	
TMC4	0.28615860	0.08210477	2.21482811	

LOC100133388	-0.28613096	0.08213869	-2.21459505	yes
RBM24	0.28612351	0.08213978	2.21453228	
HEPHL1	-0.28608173	0.08217043	-2.21418010	
GPR149	-0.28608317	0.08217043	-2.21419224	
POLD2	0.28609133	0.08217043	2.21426096	
ST13	0.28607756	0.08217043	2.21414491	
NEK7	0.28604975	0.08220212	2.21391053	
PMCH	-0.28604453	0.08220212	-2.21386648	
SALL1	-0.28601917	0.08223236	-2.21365273	
VWA2	0.28600109	0.08225076	2.21350033	
FAM63B	0.28596401	0.08228907	2.21318777	
SBNO1	0.28596420	0.08228907	2.21318935	
CCDC124	-0.28594925	0.08230130	-2.21306340	
LOC728450	-0.28594295	0.08230130	-2.21301031	
FBXO41	-0.28585073	0.08242846	-2.21223300	
ZBTB41	0.28584458	0.08242846	2.21218121	
CD1D	-0.28585522	0.08242846	-2.21227087	
TBC1D22B	0.28582346	0.08245186	2.21200319	
CEP120	0.28580307	0.08246599	2.21183140	
CASP10	0.28580125	0.08246599	2.21181607	
ASB14	0.28578313	0.08247348	2.21166334	
MPZL1	-0.28578445	0.08247348	-2.21167446	
MAFF	-0.28572817	0.08255208	-2.21120020	
CLN8	0.28571481	0.08256285	2.21108760	
SNORA73A	-0.28569934	0.08257706	-2.21095723	
ETV2	-0.28568952	0.08258205	-2.21087448	
C11orf58	0.28560194	0.08265405	2.21013652	
STH	-0.28560291	0.08265405	-2.21014470	
LOC257358	-0.28560271	0.08265405	-2.21014306	
NPBWR1	-0.28559844	0.08265405	-2.21010702	
DBNL	0.28560185	0.08265405	2.21013575	
KRT32	-0.28559808	0.08265405	-2.21010405	
SHISA5	0.28563026	0.08265405	2.21037516	

NAT8B	-0.28555945	0.08270612	-2.20977851
TCEB3B	-0.28554587	0.08271197	-2.20966412
MS4A5	-0.28554235	0.08271197	-2.20963447
ANKFN1	0.28553196	0.08271386	2.20954696
LHX8	-0.28552092	0.08271386	-2.20945395
SERINC4	-0.28552203	0.08271386	-2.20946328
ZBTB3	0.28550004	0.08273694	2.20927801
SMARCAL1	0.28545039	0.08280707	2.20885966
AMELX	-0.28542853	0.08281667	-2.20867555
KIF3C	-0.28541750	0.08281667	-2.20858264
C11orf55	-0.28541929	0.08281667	-2.20859773
RPL36AP46	-0.28543508	0.08281667	-2.20873071
SPTLC1	0.28534888	0.08291788	2.20800456
UBIAD1	-0.28533776	0.08292503	-2.20791089
IL13RA2	-0.28533034	0.08292612	-2.20784842
GPR31	-0.28531325	0.08294306	-2.20770439
CA5BP	-0.28530091	0.08295221	-2.20760044
C11orf64	-0.28527947	0.08297626	-2.20741988
C20orf74	0.28526191	0.08298291	2.20727199
TMEM62	0.28526809	0.08298291	2.20732401
SNORD114-26	-0.28524155	0.08300521	-2.20710046
C2orf67	0.28522146	0.08302389	2.20693128
CLEC9A	-0.28521532	0.08302389	-2.20687952
OR13J1	-0.28520990	0.08302389	-2.20683392
FAM179A	0.28518716	0.08303904	2.20664239
FTHL18	-0.28518949	0.08303904	-2.20666195
TMEM71	0.28517511	0.08304774	2.20654090
ERO1L	0.28512292	0.08311117	2.20610133
LRFN3	-0.28512679	0.08311117	-2.20613390
MTMR1	0.28508713	0.08315880	2.20579989
TES	0.28505767	0.08319607	2.20555176
HES2	-0.28501238	0.08325933	-2.20517039
PON1	-0.28500533	0.08325983	-2.20511102

ITGB6	0.28498778	0.08326979	2.20496322	
HIST2H2BF	0.28498578	0.08326979	2.20494640	
IL5RA	0.28493163	0.08332551	2.20449044	
MGST3	0.28494427	0.08332551	2.20459686	
RNASE12	-0.28493517	0.08332551	-2.20452018	
C9orf84	0.28491395	0.08333482	2.20434155	
ZNF140	0.28491249	0.08333482	2.20432923	
PTGR1	0.28487654	0.08338281	2.20402654	yes
NEBL	0.28483402	0.08342441	2.20366848	yes
ASNSD1	0.28483102	0.08342441	2.20364328	
CAST	0.28483409	0.08342441	2.20366907	yes
NRXN1	-0.28480857	0.08345024	-2.20345426	
ATXN10	0.28478961	0.08347035	2.20329459	
FAM92B	0.28477283	0.08348688	2.20315329	
TMEM50A	0.28473356	0.08354040	2.20282270	
DNAH10	0.28472473	0.08354386	2.20274833	
ATO1	-0.28468572	0.08358727	-2.20241995	
CAMK1	-0.28468488	0.08358727	-2.20241291	
UNQ1887	0.28466909	0.08360219	2.20227997	
LOC100129899	-0.28465018	0.08362224	-2.20212079	
CSNK1G3	0.28462439	0.08364212	2.20190365	
IL11RA	-0.28461792	0.08364212	-2.20184919	
OR4N5	-0.28462391	0.08364212	-2.20189964	
BFAR	0.28455612	0.08373286	2.20132897	
POU6F2	-0.28452609	0.08376605	-2.20107618	
SQRDL	0.28451580	0.08376605	2.20098960	
SNORD114-2	-0.28452050	0.08376605	-2.20102911	
ARFGAP2	0.28448738	0.08380183	2.20075035	
DYX1C1	0.28444866	0.08385461	2.20042447	
A1BG	-0.28441444	0.08389487	-2.20013647	yes
THPO	-0.28440622	0.08389487	-2.20006727	
IRG1	-0.28440409	0.08389487	-2.20004936	
LOC400657	-0.28439684	0.08389575	-2.19998826	

ZNF266	0.28437756	0.08390243	2.19982604	
OR2Z1	-0.28437261	0.08390243	-2.19978439	
LOC646976	-0.28438514	0.08390243	-2.19988981	
SORL1	0.28426130	0.08407524	2.19884760	
CUL5	0.28422676	0.08412125	2.19855693	
TSPYL4	0.28418714	0.08415342	2.19822355	
OR4F15	-0.28419178	0.08415342	-2.19826263	
DERL2	0.28419645	0.08415342	2.19830194	
PLXNA4	-0.28417142	0.08416831	-2.19809131	
TRIM35	-0.28412999	0.08421149	-2.19774270	
HNRNPH3	0.28412517	0.08421149	2.19770212	
EML6	0.28413313	0.08421149	2.19776912	
PLEKHG4	-0.28406528	0.08429956	-2.19719817	
GPBP1	0.28403941	0.08433129	2.19698052	
SERPINE1	-0.28401204	0.08434324	-2.19675027	
EFHC2	0.28402290	0.08434324	2.19684168	
PITPNM1	0.28401508	0.08434324	2.19677583	
MTF2	0.28394920	0.08441057	2.19622158	
C22orf36	-0.28396253	0.08441057	-2.19633374	
ACY3	-0.28394927	0.08441057	-2.19622216	
RP1L1	-0.28394456	0.08441057	-2.19618253	
RPL36AP49	-0.28387295	0.08451824	-2.19558016	
NBEA	0.28384366	0.08455574	2.19533372	
RNF187	-0.28383624	0.08455690	-2.19527133	
JAKMIP3	-0.28381450	0.08458185	-2.19508847	
INTS9	0.28379464	0.08460368	2.19492143	
LUZP2	-0.28378270	0.08461237	-2.19482096	
SORCS2	-0.28377404	0.08461561	-2.19474807	
ICK	0.28375999	0.08462779	2.19462993	
FYTTD1	0.28375193	0.08463003	2.19456213	yes
VWA3A	0.28372713	0.08466010	2.19435350	
C4orf44	-0.28370952	0.08467821	-2.19420541	
CD55	0.28362933	0.08478460	2.19353093	

C6orf66	0.28362542	0.08478460	2.19349808	
FREM2	0.28363431	0.08478460	2.19357285	
OR5A1	-0.28359763	0.08479734	-2.19326438	
CCL15	0.28360716	0.08479734	2.19334453	
SLC7A2	0.28359990	0.08479734	2.19328346	
ACAN	-0.28356340	0.08483198	-2.19297652	
ZNF134	0.28356843	0.08483198	2.19301881	
GPR119	-0.28354873	0.08483407	-2.19285314	
PRPF40A	0.28354931	0.08483407	2.19285802	
PIGU	0.28353499	0.08484578	2.19273759	yes
IFI27L2	-0.28350509	0.08487323	-2.19248612	
VWA5B2	-0.28350980	0.08487323	-2.19252576	
GNPDA2	0.28348944	0.08488813	2.19235452	
C5orf42	0.28347102	0.08490764	2.19219964	
PRSS27	-0.28346312	0.08490963	-2.19213319	
SPATA17	0.28343889	0.08491650	2.19192944	
AFTPH	0.28344253	0.08491650	2.19196006	yes
CASP1	0.28344575	0.08491650	2.19198716	
SNORA14B	-0.28337711	0.08500829	-2.19140995	
RIPPLY2	-0.28332781	0.08504761	-2.19099545	
RNF113B	-0.28332719	0.08504761	-2.19099021	
NCR3	-0.28332672	0.08504761	-2.19098628	
FRMD7	-0.28334189	0.08504761	-2.19111377	
CCDC153	0.28331926	0.08504888	2.19092354	
LRTOMT	0.28329667	0.08507539	2.19073357	
SHOC2	0.28328891	0.08507716	2.19066834	
SMURF2	0.28322090	0.08517948	2.19009654	
GPR180	0.28319060	0.08520092	2.18984180	
KIAA0841	-0.28318975	0.08520092	-2.18983467	
CCDC66	0.28317903	0.08520092	2.18974457	
VPS53	0.28317457	0.08520092	2.18970709	
GDF3	-0.28318410	0.08520092	-2.18978721	
HKR1	0.28312309	0.08527574	2.18927427	

KHDRBS1	0.28311566	0.08527696	2.18921184	
GPR179	-0.28308227	0.08532159	-2.18893114	
RAB36	0.28306845	0.08533350	2.18881495	
RWDD2B	0.28300596	0.08542682	2.18828972	
MRPL46	0.28297354	0.08543416	2.18801719	
ONECUT1	-0.28296811	0.08543416	-2.18797155	
NEK3	0.28298385	0.08543416	2.18810383	
BAIAP2L1	0.28299458	0.08543416	2.18819404	yes
SHANK3	-0.28298097	0.08543416	-2.18807965	yes
DGKH	0.28292957	0.08548430	2.18764766	
SULT6B1	-0.28292477	0.08548430	-2.18760729	
NCBP1	0.28289534	0.08552238	2.18735993	
C22orf23	0.28287716	0.08554162	2.18720715	
PRDM9	-0.28286852	0.08554489	-2.18713452	
TSR2	0.28284102	0.08557975	2.18690340	
SSX2IP	0.28281696	0.08560886	2.18670116	
PDCL	0.28278831	0.08563445	2.18646046	
C11orf24	-0.28279381	0.08563445	-2.18650667	
ANKRD45	0.28278080	0.08563584	2.18639733	
EPHA6	-0.28274486	0.08565323	-2.18609527	
FAM64A	-0.28274499	0.08565323	-2.18609641	
DPPA4	-0.28275567	0.08565323	-2.18618611	
ANKRD33B	-0.28274369	0.08565323	-2.18608541	
RPS27P13	-0.28269658	0.08572102	-2.18568953	
ADAMTS13	-0.28265404	0.08578118	-2.18533208	
KIAA1377	0.28263364	0.08580420	2.18516069	
C6orf146	-0.28261615	0.08581809	-2.18501377	
RARS	0.28261200	0.08581809	2.18497888	
ZNF596	0.28252958	0.08593408	2.18428639	
UBXN4	0.28253277	0.08593408	2.18431313	
TDRD5	-0.28249855	0.08597502	-2.18402561	
ZNF480	0.28248046	0.08599420	2.18387365	
PTGER1	-0.28246571	0.08600777	-2.18374973	yes

TJP2	0.28243384	0.08605013	2.18348203	
STK11IP	0.28242203	0.08605876	2.18338280	
MEIS3P1	0.28240925	0.08606902	2.18327545	
KIAA0196	0.28239093	0.08608861	2.18312153	
DEFB118	-0.28237253	0.08610834	-2.18296697	
COPB2	0.28236490	0.08610994	2.18290287	
FLJ44313	-0.28235298	0.08611877	-2.18280272	
ATP5A1	0.28232602	0.08615292	2.18257622	
SLC30A9	0.28230119	0.08615912	2.18236770	
OR51E1	-0.28228229	0.08615912	-2.18220889	
IGHE	-0.28231232	0.08615912	-2.18246119	
LOC651503	-0.28230778	0.08615912	-2.18242305	
SSTR3	-0.28229401	0.08615912	-2.18230736	
TMOD1	-0.28228736	0.08615912	-2.18225151	
WNK1	0.28222551	0.08624351	2.18173198	
CCT8L2	-0.28219135	0.08628983	-2.18144506	
SLC25A37	-0.28215456	0.08632937	-2.18113604	
USP5	0.28215598	0.08632937	2.18114799	
EMID2	-0.28212675	0.08636501	-2.18090251	
A1CF	-0.28211894	0.08636694	-2.18083685	
RPS2P35	-0.28206815	0.08643189	-2.18041034	
KLHL12	0.28206710	0.08643189	2.18040153	
GC	-0.28202457	0.08649244	-2.18004430	
MGC45922	-0.28200432	0.08650411	-2.17987425	
PDE1B	-0.28200974	0.08650411	-2.17991982	
URB2	0.28199691	0.08650536	2.17981207	
G2E3	0.28194279	0.08658553	2.17935756	
IFT74	0.28187598	0.08667595	2.17879653	
TUBB6	-0.28188194	0.08667595	-2.17884660	yes
RASSF5	0.28181869	0.08676160	2.17831553	
CSMD3	-0.28178925	0.08679064	-2.17806830	
HMGB4	-0.28177549	0.08679064	-2.17795285	
BEND2	-0.28177208	0.08679064	-2.17792420	

GCNT7	-0.28178780	0.08679064	-2.17805618
LOC284912	-0.28176820	0.08679064	-2.17789163
DENND1B	0.28173308	0.08683882	2.17759677
KLC4	0.28171645	0.08685570	2.17745716
OPA3	-0.28166210	0.08693652	-2.17700087
RBM4B	0.28164652	0.08695164	2.17687005
WNT9B	-0.28162537	0.08697620	-2.17669252
C1orf189	0.28158540	0.08703270	2.17635695
MRPS18C	0.28149077	0.08718206	2.17556265
OR14A16	-0.28146005	0.08721163	-2.17530474
CDCA3	-0.28146400	0.08721163	-2.17533791
LOC100132394	-0.28144685	0.08722274	-2.17519395
ELP2P	-0.28142259	0.08723263	-2.17499036
MUC20	0.28142104	0.08723263	2.17497732
GFI1	-0.28143365	0.08723263	-2.17508318
KRTAP10-5	-0.28140291	0.08725213	-2.17482513
GRIA3	-0.28139488	0.08725446	-2.17475773
AURKB	-0.28136703	0.08729048	-2.17452403
MYH7	-0.28125254	0.08747401	-2.17356319
C21orf122	-0.28124543	0.08747478	-2.17350353
OR7A5	-0.28121518	0.08751497	-2.17324964
ATE1	0.28118109	0.08754086	2.17296362
TBC1D9	0.28118001	0.08754086	2.17295453
TACSTD2	0.28118629	0.08754086	2.17300719
C16orf85	-0.28116654	0.08755247	-2.17284150
GJA8	-0.28113514	0.08759466	-2.17257797
MEFV	-0.28110430	0.08763590	-2.17231919
C6orf81	-0.28108870	0.08765115	-2.17218834
P11	-0.28108160	0.08765191	-2.17212872
OLFM3	-0.28105646	0.08768344	-2.17191783
UPF1	0.28098217	0.08779891	2.17129455
MYOC	-0.28095655	0.08783133	-2.17107954
CLK1	0.28094189	0.08783643	2.17095654

ADK	0.28094025	0.08783643	2.17094281	
C20orf95	-0.28092677	0.08783671	-2.17082974	
MSGN1	-0.28093143	0.08783671	-2.17086880	
SNPH	-0.28089226	0.08788432	-2.17054022	
TTC27	0.28086316	0.08792270	2.17029611	
DHX57	0.28084754	0.08792665	2.17016509	
TGS1	0.28085245	0.08792665	2.17020625	
NPL	0.28083384	0.08793871	2.17005012	
DNAH3	0.28077132	0.08803431	2.16952563	
HNRNPA1L2	0.28072761	0.08809101	2.16915902	
LPPR2	-0.28072489	0.08809101	-2.16913623	
DAP3	0.28071555	0.08809562	2.16905789	yes
KLHL7	0.28069915	0.08811232	2.16892030	
STRAP	0.28065937	0.08816572	2.16858662	
GK5	0.28065468	0.08816572	2.16854732	
TCN1	-0.28064327	0.08817388	-2.16845160	
THAP3	-0.28059098	0.08824878	-2.16801303	
DEPDC5	0.28058628	0.08824878	2.16797363	
PAK3	-0.28053354	0.08832784	-2.16753136	
MAP9	0.28050707	0.08836186	2.16730937	
ZNF831	-0.28048578	0.08838628	-2.16713080	
C20orf12	0.28047955	0.08838628	2.16707856	
ATRNL1	-0.28045255	0.08842124	-2.16685209	
CA6	-0.28044506	0.08842268	-2.16678934	
MOBK1B	0.28043304	0.08843190	2.16668855	
MYH4	-0.28041845	0.08844556	-2.16656615	
SLC39A5	-0.28039812	0.08845765	-2.16639566	
USP40	0.28040019	0.08845765	2.16641304	
TRIML2	-0.28037136	0.08849221	-2.16617127	
MRPL11	-0.28034953	0.08851831	-2.16598822	
DNAJB3	-0.28032769	0.08853301	-2.16580514	
PZP	0.28033420	0.08853301	2.16585973	
ELAVL4	-0.28031017	0.08853618	-2.16565826	

FURIN	-0.28030592	0.08853618	-2.16562257
USP36	-0.28031081	0.08853618	-2.16566361
AP4E1	0.28028987	0.08855236	2.16548800
EIF4E	-0.28027877	0.08856002	-2.16539495
CSRP2	-0.28026602	0.08856597	-2.16528807
APOBEC3G	0.28026203	0.08856597	2.16525460
C11orf53	-0.28022707	0.08861468	-2.16496144
ZCCHC18	-0.28021043	0.08863187	-2.16482199
SLC16A14	-0.28016802	0.08869343	-2.16446642
ZDHHC21	0.28015156	0.08869891	2.16432845
ZNF287	0.28015682	0.08869891	2.16437255
KCTD3	0.28014341	0.08870152	2.16426008
COL2A1	-0.28010903	0.08874928	-2.16397188
MBTPS1	0.28010096	0.08875176	2.16390421
SLC18A3	-0.28007824	0.08877946	-2.16371374
RPGRIP1	-0.28006919	0.08878361	-2.16363792
FBLN7	-0.28004843	0.08880794	-2.16346388
VAV1	0.28003403	0.08882133	2.16334313
C6orf218	-0.28002068	0.08883290	-2.16323125
FGF6	-0.28000808	0.08884319	-2.16312561
XPO4	0.27998006	0.08886862	2.16289073
GPR128	-0.27998514	0.08886862	-2.16293329
ARHGAP6	-0.27997071	0.08887331	-2.16281236
EBI3	-0.27990109	0.08898192	-2.16222886
ADAM18	-0.27986311	0.08903603	-2.16191047
CDH2	-0.27983371	0.08905968	-2.16166411
TMTC2	0.27983663	0.08905968	2.16168857
GNRH1	-0.27981632	0.08905968	-2.16151837
DNAJB1	0.27981626	0.08905968	2.16151782
RIOK3	0.27981849	0.08905968	2.16153657
OR6N2	-0.27978432	0.08910338	-2.16125017
ZNF846	0.27973307	0.08918047	2.16082065
NEURL2	-0.27970417	0.08921897	-2.16057844

LOC100128663	-0.27967482	0.08925827	-2.16033247
DNAH7	0.27964528	0.08929789	2.16008494
ATP8B4	0.27961228	0.08934352	2.15980844
C12orf28	-0.27958365	0.08935866	-2.15956856
PTX3	-0.27959274	0.08935866	-2.15964474
ABCE1	0.27958643	0.08935866	2.15959186
ZNF321	0.27955548	0.08939596	2.15933254
C6orf167	0.27952555	0.08943632	2.15908172
MAPRE1	0.27949555	0.08946790	2.15883039
DLL4	-0.27949407	0.08946790	-2.15881796
AMZ2	0.27948449	0.08947302	2.15873773
LOC100128653	-0.27946620	0.08948455	-2.15858450
ST8SIA4	0.27946459	0.08948455	2.15857099
C11orf54	0.27944967	0.08949893	2.15844596
KRT31	-0.27943882	0.08950626	-2.15835506
WDR59	0.27940647	0.08955086	2.15808401
DEFA6	-0.27935390	0.08963052	-2.15764367
LHX6	-0.27933972	0.08964364	-2.15752485
DPH5	0.27933120	0.08964695	2.15745342
ORAI2	0.27929744	0.08969403	2.15717068
ZNF770	0.27921519	0.08982538	2.15648168
MPST	-0.27920431	0.08983279	-2.15639051
C4orf40	-0.27918413	0.08985635	-2.15622150
KRTAP12-3	-0.27917438	0.08986180	-2.15613979
DIS3L	0.27914709	0.08989774	2.15591122
RP11-165H20.1	-0.27911973	0.08989928	-2.15568208
OR4C16	-0.27913467	0.08989928	-2.15580718
PRDX1	0.27913151	0.08989928	2.15578075
ZNF616	0.27912343	0.08989928	2.15571306
SNRPE	0.27910635	0.08991105	2.15557000
TLL9	0.27909046	0.08992154	2.15543692
OTUD5	-0.27908436	0.08992154	-2.15538588
SCGB1A1	0.27907386	0.08992154	2.15529787

BSND	-0.27908015	0.08992154	-2.15535061	
LOC440957	0.27903481	0.08993197	2.15497082	
MUPCDH	-0.27904626	0.08993197	-2.15506672	
hCG_2019139	-0.27904436	0.08993197	-2.15505084	
C6orf103	0.27903895	0.08993197	2.15500552	
DENND1C	-0.27904803	0.08993197	-2.15508155	
SOX12	-0.27899614	0.08998773	-2.15464695	
NFATC4	-0.27897595	0.09001134	-2.15447795	yes
USP34	0.27895337	0.09003914	2.15428878	
SUPT4H1	0.27891748	0.09009011	2.15398826	
ABCA5	0.27887779	0.09013426	2.15365593	
CNRIP1	-0.27888148	0.09013426	-2.15368679	
GAPDHS	-0.27886570	0.09013426	-2.15355465	
FAM154B	0.27886783	0.09013426	2.15357248	
DET1	0.27884776	0.09015400	2.15340442	
CCDC103	0.27883921	0.09015738	2.15333285	
PSD	-0.27882793	0.09016553	-2.15323838	
CDK8	0.27879088	0.09019087	2.15292816	
TBC1D8	0.27876192	0.09019087	2.15268569	
ZIM3	-0.27877290	0.09019087	-2.15277762	
DNAH2	0.27876925	0.09019087	2.15274706	
CD177	-0.27880149	0.09019087	-2.15301700	
TRA2B	0.27876990	0.09019087	2.15275246	
MYLK2	-0.27878660	0.09019087	-2.15289230	
SLC6A5	-0.27876057	0.09019087	-2.15267436	
RBM47	0.27873922	0.09020388	2.15249558	
KIAA1370	0.27873331	0.09020388	2.15244612	
PSMC3	0.27874020	0.09020388	2.15250383	
RALGPS1	0.27872375	0.09020904	2.15236608	
BCL2L10	-0.27868036	0.09027149	-2.15200282	
C10orf93	0.27867472	0.09027149	2.15195560	
PCF11	0.27866174	0.09028262	2.15184694	
SLC25A12	0.27864085	0.09030756	2.15167198	

NAP5	-0.27858586	0.09039196	-2.15121167	
YWHAE	0.27857453	0.09040024	2.15111676	yes
OR8K1	-0.27855148	0.09042896	-2.15092382	
C16orf46	0.27850188	0.09050404	2.15050866	
SIGLECP3	-0.27849321	0.09050766	-2.15043608	
PACRG	0.27845598	0.09054968	2.15012437	
ARMC9	0.27845957	0.09054968	2.15015442	
OR8G2	-0.27842143	0.09059197	-2.14983524	
GUSBL2	0.27841859	0.09059197	2.14981146	
MYO6	0.27840989	0.09059566	2.14973863	yes
EEF1E1	0.27839219	0.09061507	2.14959048	
FOXF2	-0.27835018	0.09067702	-2.14923884	
HPN	-0.27832277	0.09071345	-2.14900938	
DDX18	0.27830822	0.09072737	2.14888762	
FIT1	-0.27825166	0.09081485	-2.14841424	
OSGIN1	-0.27821002	0.09086469	-2.14806579	
C10orf119	0.27821243	0.09086469	2.14808598	
ZNF696	-0.27818046	0.09090493	-2.14781845	
KRTAP27-1	-0.27816539	0.09091980	-2.14769233	
SLC10A4	-0.27815003	0.09093033	-2.14756375	
GHDC	-0.27814620	0.09093033	-2.14753175	
FRMPD2	0.27812440	0.09095700	2.14734932	
HJURP	-0.27811178	0.09096758	-2.14724370	
LAYN	0.27807935	0.09100136	2.14697227	
NPAS3	-0.27808101	0.09100136	-2.14698617	
SHBG	-0.27806755	0.09101050	-2.14687356	
MAP7D3	-0.27803933	0.09104846	-2.14663742	
RGL2	0.27801487	0.09107981	2.14643280	
FAM165B	0.27796819	0.09115020	2.14604223	
NAALADL1	-0.27792267	0.09121860	-2.14566132	
ZNF337	0.27790545	0.09123729	2.14551727	
UPK1A	-0.27787103	0.09128621	-2.14522932	
FGF20	-0.27784580	0.09131900	-2.14501823	

RAB9A	0.27779238	0.09140139	2.14457135	
SAPS3	0.27776955	0.09141926	2.14438032	yes
THBS1	-0.27776906	0.09141926	-2.14437624	
CREB5	-0.27774653	0.09144733	-2.14418780	
NARG1	0.27772368	0.09147597	2.14399663	
DZIP1L	0.27770920	0.09148988	2.14387550	
MSH6	0.27767496	0.09152222	2.14358907	
IFNA6	-0.27767992	0.09152222	-2.14363058	
FBXO42	0.27766645	0.09152222	2.14351786	
SCARNA6	-0.27766452	0.09152222	-2.14350173	
SCGN	-0.27765163	0.09153332	-2.14339396	
TRIM6	-0.27763875	0.09154443	-2.14328620	
CYFIP1	0.27761922	0.09156725	2.14312281	
GLIS3	0.27757840	0.09162760	2.14278140	
PRPF19	0.27754004	0.09167205	2.14246054	
KIAA1609	0.27754017	0.09167205	2.14246163	
IDUA	-0.27750940	0.09168052	-2.14220432	
IL18	0.27751929	0.09168052	2.14228701	
ANKRD20A5	-0.27750894	0.09168052	-2.14220044	
PRRX2	-0.27750893	0.09168052	-2.14220038	
RPL13AP17	-0.27750095	0.09168298	-2.14213368	
SPAST	0.27746578	0.09173344	2.14183949	
RCVRN	-0.27745040	0.09174897	-2.14171089	
ELP4	0.27741620	0.09179773	2.14142490	
OR10A5	-0.27737602	0.09185708	-2.14108884	
LST-3TM12	-0.27735027	0.09189094	-2.14087356	
USP22	0.27733290	0.09189840	2.14072831	
MRPL51	0.27733839	0.09189840	2.14077415	
LYPD4	-0.27731483	0.09191873	-2.14057717	
SLC39A2	-0.27727210	0.09197222	-2.14021985	
GPIHBP1	-0.27727142	0.09197222	-2.14021421	
CASQ1	-0.27724175	0.09201305	-2.13996614	
DCLRE1A	0.27722341	0.09203388	2.13981277	

MTMR12	0.27717761	0.09210329	2.13942980	
GNAQ	0.27712467	0.09218152	2.13898721	
PPP1R3C	-0.27711371	0.09218152	-2.13889558	
DOCK4	0.27711401	0.09218152	2.13889805	
TASP1	0.27710292	0.09218899	2.13880536	
CRYZL1	0.27709241	0.09219598	2.13871745	
BACE1	-0.27704942	0.09226050	-2.13835807	
BRD4	-0.27702142	0.09227913	-2.13812402	
MORN5	0.27702683	0.09227913	2.13816925	
IQSEC3	-0.27701920	0.09227913	-2.13810545	
CES1	0.27688842	0.09244449	2.13701220	
BEAN	-0.27688924	0.09244449	-2.13701909	
C9orf142	-0.27688459	0.09244449	-2.13698018	yes
PION	0.27690057	0.09244449	2.13711379	
ITFG2	0.27691529	0.09244449	2.13723681	
LOC643406	-0.27688001	0.09244449	-2.13694188	
HINT2	0.27688754	0.09244449	2.13700483	
FAM69B	-0.27683965	0.09250446	-2.13660460	yes
PLUNC	-0.27681029	0.09254494	-2.13635921	
C3orf67	0.27680133	0.09254920	2.13628432	
GCG	-0.27678801	0.09256121	-2.13617294	
UCHL5IP	-0.27677707	0.09256899	-2.13608151	
RECQL	0.27675070	0.09259251	2.13586115	
NAV2	0.27675525	0.09259251	2.13589910	
BPIL2	-0.27672509	0.09262182	-2.13564710	
LOC401233	-0.27672109	0.09262182	-2.13561364	
RIBC1	0.27664734	0.09274129	2.13499726	
TBC1D20	0.27662914	0.09276199	2.13484522	
ADAT2	-0.27660583	0.09276846	-2.13465039	
HTT	0.27661022	0.09276846	2.13468709	
ZBTB8OS	0.27660636	0.09276846	2.13465486	
PF4	-0.27657134	0.09279363	-2.13436215	
KLHL28	0.27657055	0.09279363	2.13435555	

C1orf191	-0.27656545	0.09279363	-2.13431298	
RPL31P4	-0.27657185	0.09279363	-2.13436641	
RGS17	-0.27655467	0.09280116	-2.13422288	
GPR153	-0.27654268	0.09281083	-2.13412267	
ALKBH5	0.27647827	0.09291383	2.13358452	
CLASP1	0.27646943	0.09291790	2.13351064	
FBXO27	-0.27645266	0.09293609	-2.13337054	
SNORD81	0.27639645	0.09302461	2.13290081	
FAM186A	-0.27638586	0.09303179	-2.13281239	
C20orf111	0.27635584	0.09306694	2.13256159	
ZNF574	0.27635305	0.09306694	2.13253822	
PRDM8	-0.27633847	0.09308125	-2.13241643	
PRMT8	-0.27632066	0.09310133	-2.13226763	
SHARPIN	-0.27630999	0.09310868	-2.13217850	
RPS2P11	-0.27627946	0.09315146	-2.13192342	
OR10H1	-0.27624652	0.09316348	-2.13164829	
LOC387885	0.27625598	0.09316348	2.13172732	
MYO1D	0.27625154	0.09316348	2.13169022	
CCPG1	0.27625145	0.09316348	2.13168943	
TMEM131	0.27619428	0.09324506	2.13121184	yes
SNORD80	0.27618564	0.09324880	2.13113968	
RNF19B	0.27616938	0.09326614	2.13100387	
SNX17	0.27615794	0.09327488	2.13090832	
MRE11A	0.27610585	0.09335626	2.13047317	
RAVER1	-0.27608161	0.09338790	-2.13027067	
TFCP2	0.27606936	0.09339809	2.13016839	
SLC22A24	-0.27604920	0.09342244	-2.12999995	
ALDH1L1	-0.27600386	0.09348013	-2.12962127	
CABP5	-0.27600573	0.09348013	-2.12963690	
FAM183A	0.27596080	0.09354548	2.12926166	
CSAG1	-0.27594086	0.09355775	-2.12909509	
GNPAT	0.27594087	0.09355775	2.12909519	
OGDHL	-0.27590734	0.09360605	-2.12881514	

TM9SF4	0.27584929	0.09369833	2.12833041	
C20orf79	-0.27579467	0.09377281	-2.12787424	
RNF141	0.27579713	0.09377281	2.12789483	
SOCS6	0.27578031	0.09378683	2.12775433	
PDIA5	-0.27571467	0.09388113	-2.12720626	
ZFP3	0.27571479	0.09388113	2.12720722	
FAM128B	-0.27567504	0.09394055	-2.12687531	
NDUFB8	0.27565183	0.09397048	2.12668157	
AGPS	0.27562020	0.09401557	2.12641744	
TPCN2	-0.27560110	0.09403814	-2.12625795	
KCNE1	0.27556559	0.09409021	2.12596154	
PJA1	-0.27555893	0.09409044	-2.12590587	
KRTAP24-1	-0.27555129	0.09409241	-2.12584208	
LOC646799	-0.27553844	0.09410375	-2.12573486	
CECR4	-0.27551402	0.09410399	-2.12553099	
DR1	0.27551330	0.09410399	2.12552494	
FMO3	0.27552166	0.09410399	2.12559477	
RNASE2	-0.27551214	0.09410399	-2.12551531	
NLRP11	-0.27547219	0.09416410	-2.12518177	
ZCCHC12	-0.27546043	0.09417349	-2.12508361	
RBPMS	-0.27544327	0.09417766	-2.12494033	
GALNS	0.27543850	0.09417766	2.12490054	
SLC33A1	0.27544022	0.09417766	2.12491487	
CTNND1	0.27542589	0.09418861	2.12479521	
HNRNPCL1	-0.27541483	0.09419674	-2.12470292	
MSL3	0.27539381	0.09422280	2.12452749	yes
OR2H2	-0.27537220	0.09424995	-2.12434706	
NGLY1	0.27535831	0.09426319	2.12423115	
C9orf131	-0.27533826	0.09428298	-2.12406375	
SLC22A2	-0.27532772	0.09428298	-2.12397580	
ITGBL1	-0.27533363	0.09428298	-2.12402514	
RIPPLY1	-0.27531577	0.09429274	-2.12387601	
LOC100133373	0.27530426	0.09430170	2.12377999	

KCNV1	-0.27528750	0.09432014	-2.12364002
ASB3	0.27526513	0.09434867	2.12345332
PDE4B	-0.27525197	0.09436060	-2.12334354
FAM128A	-0.27523328	0.09438253	-2.12318748
MRPL34	-0.27522008	0.09439454	-2.12307733
ME2	0.27516920	0.09447449	2.12265272
PLOD1	-0.27511561	0.09455500	-2.12220546
FAM12B	-0.27511152	0.09455500	-2.12217127
MED4	0.27509947	0.09456496	2.12207073
FBXL15	-0.27505894	0.09462634	-2.12173250
METTL4	0.27503796	0.09465243	2.12155747
NUDT21	0.27500577	0.09469879	2.12128881
ZNF460	0.27497471	0.09474312	2.12102963
CNKSR3	0.27496759	0.09474420	2.12097019
TREH	-0.27494766	0.09474601	-2.12080389
PYCR2	0.27494701	0.09474601	2.12079846
NPR2	-0.27495427	0.09474601	-2.12085903
C1orf102	0.27493093	0.09476234	2.12066435
PAGE2B	-0.27492492	0.09476234	-2.12061418
CCDC5	0.27488586	0.09478580	2.12028821
GIPR	0.27488818	0.09478580	2.12030759
C11orf16	0.27489479	0.09478580	2.12036279
OR5H2	-0.27490235	0.09478580	-2.12042580
FAM81B	0.27482963	0.09487567	2.11981911
LMBR1	0.27480602	0.09488300	2.11962212
LHX3	-0.27481082	0.09488300	-2.11966213
LRRC46	0.27481589	0.09488300	2.11970441
CATSPER3	0.27479178	0.09489697	2.11950330
SLFN12	0.27478277	0.09490147	2.11942815
POLR1E	0.27477408	0.09490540	2.11935564
ALG11	0.27475325	0.09492407	2.11918184
CTSA	0.27475073	0.09492407	2.11916080
WDR78	0.27473994	0.09493180	2.11907080

PLAUR	-0.27473004	0.09493793	-2.11898817
KU-MEL-3	-0.27472217	0.09494038	-2.11892255
RPS9	-0.27469026	0.09498634	-2.11865634
EVI5L	-0.27463228	0.09507954	-2.11817269
GTF2I	0.27462253	0.09508541	2.11809132
C7orf57	0.27457895	0.09514104	2.11772782
CCDC37	0.27457440	0.09514104	2.11768983
OGDH	0.27455926	0.09514104	2.11756355
CASC1	0.27456160	0.09514104	2.11758305
BARD1	0.27456198	0.09514104	2.11758625
TXLNB	0.27454570	0.09515382	2.11745042
COMMD9	0.27452063	0.09518746	2.11724133
GDPD2	-0.27449397	0.09522399	-2.11701900
C1orf86	-0.27447529	0.09523141	-2.11686313
FAM120A	0.27447035	0.09523141	2.11682196
TMEM75	-0.27447696	0.09523141	-2.11687708
RUNX1T1	-0.27441736	0.09531574	-2.11638002
SERPINB3	0.27439254	0.09534897	2.11617302
ITGA2B	-0.27438242	0.09535554	-2.11608856
DSE	0.27433587	0.09542826	2.11570033
CFHR5	-0.27431941	0.09544632	-2.11556312
AGTPBP1	0.27428926	0.09545462	2.11531167
SNORA42	-0.27429153	0.09545462	-2.11533060
GLB1L2	0.27428882	0.09545462	2.11530798
GCNT3	-0.27428952	0.09545462	-2.11531385
AHR	0.27418505	0.09563145	2.11444265
MEIG1	0.27417301	0.09564153	2.11434223
KRT83	-0.27415121	0.09566935	-2.11416049
JMJD1B	0.27412342	0.09570809	2.11392878
NOTUM	-0.27411474	0.09571206	-2.11385635
LGALS13	-0.27410653	0.09571516	-2.11378791
PIBF1	0.27407783	0.09573418	2.11354862
WDR63	0.27407657	0.09573418	2.11353812

MTFR1	0.27407748	0.09573418	2.11354570
SLC12A5	-0.27406449	0.09574434	-2.11343738
LOC388282	-0.27405081	0.09575740	-2.11332337
OR51E2	-0.27402504	0.09579250	-2.11310849
TMED2	0.27398434	0.09583420	2.11276916
DPM1	0.27398265	0.09583420	2.11275507
MOBKL1A	0.27398754	0.09583420	2.11279581
FLJ42258	-0.27396444	0.09584369	-2.11260326
ACOT6	-0.27396691	0.09584369	-2.11262382
GFOD1	-0.27394593	0.09586559	-2.11244889
SLC47A2	-0.27390285	0.09593227	-2.11208979
SLC25A13	0.27386913	0.09596543	2.11180867
GDE1	0.27387650	0.09596543	2.11187015
CSRP2BP	0.27386518	0.09596543	2.11177574
MRPL14	0.27384996	0.09598134	2.11164887
FAM49B	0.27378509	0.09608787	2.11110811
ELP3	0.27376880	0.09610574	2.11097236
GNA15	0.27375487	0.09611931	2.11085626
ZNF33A	0.27368788	0.09622985	2.11029782
SRFBP1	0.27365518	0.09627775	2.11002530
WRAP53	0.27360097	0.09636502	2.10957352
DIS3L2	0.27351794	0.09650515	2.10888156
IVD	0.27348939	0.09654556	2.10864361
CREB1	0.27347634	0.09655758	2.10853480
SYF2	0.27344020	0.09660000	2.10823369
TTC25	0.27344457	0.09660000	2.10827009
NAF1	0.27342377	0.09661822	2.10809675
ABCB5	-0.27340801	0.09663520	-2.10796548
CYP4V2	0.27336755	0.09669750	2.10762834
ITPRIPL1	-0.27332154	0.09677002	-2.10724496
hCG_1644301	-0.27324611	0.09689666	-2.10661644
PI4KB	0.27314416	0.09707221	2.10576708
MEF2D	-0.27313762	0.09707228	-2.10571262

MTX3	0.27312163	0.09708977	2.10557935	
SPDYE7P	-0.27308766	0.09714035	-2.10529635	
PTGR2	0.27300532	0.09726811	2.10461049	
CACNA1I	-0.27300815	0.09726811	-2.10463409	
PAPSS2	-0.27299015	0.09728410	-2.10448411	
OR56A4	-0.27298348	0.09728441	-2.10442858	
SRY	-0.27294161	0.09734966	-2.10407976	yes
RNF160	0.27293218	0.09735506	2.10400129	
GLRA1	-0.27290787	0.09737595	-2.10379875	
MPDU1	0.27291400	0.09737595	2.10384979	
SNX13	0.27289415	0.09738928	2.10368447	
NDRG3	0.27288271	0.09739841	2.10358920	
ZBTB22	-0.27285545	0.09743673	-2.10336216	
RASA3	0.27284243	0.09744878	2.10325370	
BAMBI	0.27282258	0.09747343	2.10308843	
PPFIA3	-0.27278893	0.09752359	-2.10280813	
LOC136242	-0.27269690	0.09768166	-2.10204176	
YY1AP1	-0.27265251	0.09775178	-2.10167204	
TUBGCP3	0.27263100	0.09777588	2.10149292	
PRICKLE3	-0.27262000	0.09777588	-2.10140138	
MAP2K4	0.27262416	0.09777588	2.10143604	
INADL	0.27257640	0.09784459	2.10103829	yes
ASPRV1	-0.27254364	0.09789323	-2.10076554	
ANKRD54	0.27246641	0.09800824	2.10012251	
LRRC6	0.27245287	0.09800824	2.10000979	
LOC255411	-0.27245397	0.09800824	-2.10001889	
COG6	0.27244913	0.09800824	2.09997860	
LOC728175	0.27246590	0.09800824	2.10011828	
RFX6	-0.27242796	0.09803546	-2.09980235	
REG1P	-0.27240091	0.09807359	-2.09957717	
C4orf15	0.27238760	0.09808625	2.09946631	
SNX16	0.27236804	0.09811049	2.09930351	
ORC1L	-0.27233844	0.09815337	-2.09905712	

ATP2B1	0.27232724	0.09816212	2.09896386
LRRIQ1	0.27231112	0.09818000	2.09882967
TAS2R60	-0.27230262	0.09818198	-2.09875892
TOMM7	0.27229708	0.09818198	2.09871280
SFRS1	0.27227761	0.09820609	2.09855069
FGL1	-0.27223376	0.09827550	-2.09818563
TAF2	0.27222362	0.09828227	2.09810129
ATP5E	0.27219440	0.09832452	2.09785802
SFTPC	-0.27216475	0.09836758	-2.09761122
GALNTL4	0.27209467	0.09848587	2.09702789
CDH19	-0.27208251	0.09849643	-2.09692669
RAB40A	-0.27206825	0.09851089	-2.09680803
OR5B2	-0.27202365	0.09857454	-2.09643684
C8orf22	-0.27200239	0.09857454	-2.09625991
C21orf59	0.27200975	0.09857454	2.09632117
LOC643330	-0.27200164	0.09857454	-2.09625368
SMS	0.27201334	0.09857454	2.09635104
PROZ	-0.27198655	0.09859058	-2.09612803
KRTAP19-1	-0.27185646	0.09882096	-2.09504549
C7orf47	-0.27184110	0.09883754	-2.09491761
TLL1	-0.27183180	0.09884279	-2.09484026
SPANXD	-0.27176238	0.09896029	-2.09426258
KCNG4	-0.27175076	0.09896989	-2.09416590
C9orf9	0.27171256	0.09902914	2.09384808
GPI	0.27165587	0.09911089	2.09337637
UBAC2	0.27165707	0.09911089	2.09338637
FAM73A	0.27162948	0.09914810	2.09315689
FLJ36070	-0.27161784	0.09915776	-2.09306000
OR5M10	-0.27160855	0.09916302	-2.09298268
C3orf25	0.27160038	0.09916618	2.09291472
C6orf25	-0.27158807	0.09917707	-2.09281236
CCDC146	0.27157547	0.09918853	2.09270748
ASCC3	0.27154687	0.09922991	2.09246960

ST3GAL6	-0.27146502	0.09935892	-2.09178865	
THAP5	0.27147143	0.09935892	2.09184204	
FUT1	-0.27144996	0.09937373	-2.09166338	
TP53INP2	-0.27144415	0.09937373	-2.09161511	
PAN3	0.27141699	0.09941250	2.09138911	
MIOS	0.27139970	0.09943276	2.09124534	
OR10G2	-0.27137997	0.09945759	-2.09108125	
C5orf45	0.27134460	0.09951178	2.09078701	
ZUFSP	0.27131949	0.09954673	2.09057816	
C22orf34	-0.27131034	0.09955175	-2.09050205	
FPGT	0.27129921	0.09956048	2.09040948	
FOXI2	-0.27124438	0.09964763	-2.08995341	
SERPINF1	0.27123983	0.09964763	2.08991557	
REM2	-0.27122797	0.09965773	-2.08981697	
SLC25A31	-0.27121928	0.09966188	-2.08974471	
TECPR1	-0.27119479	0.09969048	-2.08954103	
ZFP106	0.27118770	0.09969048	2.08948206	
BTAF1	0.27118463	0.09969048	2.08945654	
TSFM	0.27110462	0.09981649	2.08879112	
POLR2K	0.27110639	0.09981649	2.08880586	
INHBC	-0.27106326	0.09988210	-2.08844717	
TMEM167A	0.27104536	0.09990358	2.08829835	
ARIH2	0.27095795	0.10005593	2.08757152	
HIBADH	0.27093968	0.10007611	2.08741956	
FLJ42289	-0.27093351	0.10007611	-2.08736833	
SNORA20	-0.27092782	0.10007611	-2.08732096	yes
ZYG11B	0.27087912	0.10015567	2.08691607	
CHAC1	-0.27084811	0.10020192	-2.08665827	
TP53BP1	0.27083944	0.10020607	2.08658616	
TIGD1	0.27082212	0.10021967	2.08644218	
RNGTT	0.27081928	0.10021967	2.08641858	
ZNF474	0.27077996	0.10027278	2.08609169	
PRTG	-0.27077818	0.10027278	-2.08607690	

OR8A1	-0.27076969	0.10027661	-2.08600625
C2orf39	0.27076098	0.10028083	2.08593385
GNAS	-0.27073535	0.10031698	-2.08572079
GATA4	-0.27069551	0.10037996	-2.08538964
HSF2	0.27062891	0.10049353	2.08483599
DUSP13	-0.27061539	0.10049464	-2.08472356
PDGFA	-0.27061938	0.10049464	-2.08475677
UBE2E1	0.27059860	0.10051414	2.08458404
SLC4A1AP	0.27058264	0.10053208	2.08445136
C6orf165	0.27055131	0.10057909	2.08419093
DUSP11	0.27053466	0.10059834	2.08405257
PEPD	0.27049628	0.10065870	2.08373357
COL14A1	-0.27048157	0.10067430	-2.08361129
OR4C15	-0.27047363	0.10067709	-2.08354529
TFAP2A	-0.27046446	0.10068221	-2.08346905
ADSS	0.27044134	0.10071373	2.08327691
SAMD12	0.27041388	0.10074795	2.08304875
SSB	0.27041033	0.10074795	2.08301921
GTF2H3	0.27040207	0.10075134	2.08295059
HAT1	0.27038860	0.10076462	2.08283860
C22orf31	-0.27032618	0.10085864	-2.08231985
KIR3DX1	-0.27032602	0.10085864	-2.08231859
MXD1	0.27028863	0.10090501	2.08200782
CPSF2	0.27029253	0.10090501	2.08204024
DCDC5	0.27028037	0.10090842	2.08193918
LTA4H	0.27026772	0.10092015	2.08183409
SH3D19	0.27024742	0.10094639	2.08166537
AGXT	-0.27023050	0.10096621	-2.08152481
ZPBP	-0.27020552	0.10100133	-2.08131722
WISP3	-0.27016629	0.10106350	-2.08099124
LINGO1	-0.27014231	0.10109675	-2.08079197
MST1R	0.27012534	0.10111669	2.08065102
C16orf88	-0.27011434	0.10112532	-2.08055959

KIAA0907	0.27008045	0.10117740	2.08027800
MICALL1	-0.27002600	0.10126856	-2.07982565
DNAI2	0.27001721	0.10127300	2.07975258
PLA2G12B	-0.27000354	0.10128669	-2.07963907
KLHDC6	-0.26997732	0.10131858	-2.07942123
THUMPD1	0.26996740	0.10131858	2.07933878
SLC8A2	-0.26996978	0.10131858	-2.07935854
PCBD2	0.26994280	0.10135308	2.07913439
DNAL4	0.26991456	0.10139451	2.07889980
PNOC	-0.26989288	0.10141974	-2.07871974
TAF4	-0.26988838	0.10141974	-2.07868235
RGS19	-0.26986589	0.10142774	-2.07849549
OR10J5	-0.26986482	0.10142774	-2.07848660
RP1	0.26986703	0.10142774	2.07850495
F3	0.26984854	0.10144643	2.07835138
IPO4	0.26983110	0.10146734	2.07820650
LOC100128612	0.26980330	0.10150797	2.07797556
TMEM209	0.26975375	0.10159003	2.07756399
FBXO22	0.26974055	0.10160287	2.07745440
INO80E	-0.26971795	0.10161102	-2.07726667
UBE2B	0.26971693	0.10161102	2.07725816
CD19	-0.26972243	0.10161102	-2.07730387
CNR1	-0.26964194	0.10174163	-2.07663535
CXADR	0.26957905	0.10184929	2.07611307
GULP1	0.26957248	0.10184953	2.07605845
PABPCP2	-0.26951009	0.10195632	-2.07554039
IGFBP4	-0.26948172	0.10198587	-2.07530475
ZNF143	0.26948576	0.10198587	2.07533835
MSRB3	-0.26945828	0.10201833	-2.07511011
SPSB2	-0.26945139	0.10201918	-2.07505289
C21orf88	-0.26941767	0.10207023	-2.07477293
PTS	0.26941177	0.10207023	2.07472396
GTSF1L	-0.26938971	0.10209128	-2.07454072

NOX1	-0.26938787	0.10209128	-2.07452547	
BEND3	-0.26937925	0.10209543	-2.07445390	
IL21	-0.26934929	0.10214039	-2.07420512	
CSTB	0.26928622	0.10224873	2.07368142	yes
C19orf30	-0.26927642	0.10225514	-2.07360009	
ZC3H18	-0.26925078	0.10228850	-2.07338723	
TCP11L1	-0.26924610	0.10228850	-2.07334838	
ALDH3B1	0.26917955	0.10240362	2.07279585	
SLC22A15	0.26912202	0.10250155	2.07231825	
RP5-1033B10.18	-0.26908840	0.10255368	-2.07203912	
C22orf15	0.26907382	0.10256927	2.07191812	
TMC1	-0.26906602	0.10257187	-2.07185338	
CNGB3	-0.26904220	0.10260520	-2.07165567	
PAQR8	0.26899015	0.10269276	2.07122357	
SLC24A3	-0.26897315	0.10270584	-2.07108249	
CNBP	0.26897045	0.10270584	2.07106004	
POTED	-0.26894711	0.10272591	-2.07086636	
AVP	-0.26894911	0.10272591	-2.07088293	
CETN2	0.26892354	0.10273497	2.07067065	
KLC3	-0.26892307	0.10273497	-2.07066680	
SLC25A46	0.26893436	0.10273497	2.07076049	
YSK4	0.26888938	0.10278732	2.07038714	
CTSL3	-0.26885428	0.10284239	-2.07009587	
SLC22A7	-0.26884725	0.10284353	-2.07003747	
HSPA12A	-0.26883911	0.10284680	-2.06996990	
LOC100128655	-0.26882987	0.10285218	-2.06989322	
ALOX12P2	0.26881423	0.10286986	2.06976346	
RAB6B	-0.26880572	0.10287385	-2.06969280	
MLH3	0.26879604	0.10288008	2.06961247	
LST1	-0.26875463	0.10294734	-2.06926882	
C19orf24	-0.26873937	0.10296430	-2.06914219	
GPR151	-0.26873047	0.10296904	-2.06906833	
EMILIN1	-0.26870562	0.10298549	-2.06886212	

TEX11	-0.26870261	0.10298549	-2.06883712	
PRPF4	0.26871375	0.10298549	2.06892955	
DLEC1	0.26869537	0.10298705	2.06877701	
MANBA	0.26867668	0.10301062	2.06862198	
ALG10	-0.26860290	0.10314029	-2.06800971	
MCCD1	-0.26858252	0.10316716	-2.06784058	
C15orf41	0.26856140	0.10319545	2.06766534	
YTHDF1	0.26847131	0.10335675	2.06691789	
OR8I2	-0.26844467	0.10339575	-2.06669684	
CD5	-0.26840773	0.10345463	-2.06639039	
NCRNA00095	-0.26838292	0.10348244	-2.06618456	
C11orf17	0.26838046	0.10348244	2.06616416	
LOC642776	-0.26835904	0.10351138	-2.06598645	
C4orf46	-0.26833775	0.10354009	-2.06580981	
LRRC4	0.26832657	0.10354926	2.06571705	
ZNF606	0.26831401	0.10356110	2.06561286	
DSG4	-0.26830644	0.10356329	-2.06555006	
HBE1	-0.26826858	0.10360530	-2.06523600	
GTDC1	0.26827315	0.10360530	2.06527390	
FAR1	0.26826541	0.10360530	2.06520970	
OR9Q1	-0.26825284	0.10361715	-2.06510547	
C12orf70	-0.26824640	0.10361717	-2.06505204	
CHST6	0.26822033	0.10365514	2.06483579	
ABCD2	0.26817012	0.10370251	2.06441928	
SERINC5	0.26818515	0.10370251	2.06454397	
NDUFA8	0.26817629	0.10370251	2.06447042	
C11orf30	0.26818064	0.10370251	2.06450652	yes
PF4V1	-0.26815944	0.10371074	-2.06433070	
FBXO43	-0.26814461	0.10372699	-2.06420767	yes
SPHKAP	-0.26809511	0.10381035	-2.06379707	
MATN3	-0.26808056	0.10382607	-2.06367641	
LOC100130924	-0.26807065	0.10383281	-2.06359422	
SPEF2	0.26805993	0.10384111	2.06350536	

CAMKK1	-0.26802868	0.10388918	-2.06324614
INHBE	-0.26801008	0.10391277	-2.06309187
EFHD1	-0.26798774	0.10394358	-2.06290665
IBTK	0.26794124	0.10402126	2.06252097
ADRB3	-0.26791592	0.10404543	-2.06231102
WDR42A	0.26792071	0.10404543	2.06235074
KARS	0.26790368	0.10405670	2.06220952
NYX	-0.26789508	0.10406093	-2.06213816
OR6C65	-0.26788167	0.10406202	-2.06202700
MBTPS2	0.26788521	0.10406202	2.06205629
NFATC3	0.26785460	0.10410207	2.06180248
CYP2B7P1	0.26780674	0.10412018	2.06140563
C4orf22	0.26780680	0.10412018	2.06140616
ZNF808	0.26782251	0.10412018	2.06153640
MCART6	-0.26781654	0.10412018	-2.06148692
SGCE	-0.26783773	0.10412018	-2.06166261
ITGB1BP1	0.26780793	0.10412018	2.06141548
SDK2	-0.26778232	0.10415511	-2.06120311
STAC	-0.26777215	0.10416238	-2.06111881
OR2M7	-0.26775076	0.10417899	-2.06094144
STK19	0.26775492	0.10417899	2.06097593
RLN3	-0.26774330	0.10418101	-2.06087959
EGR2	-0.26769246	0.10426723	-2.06045808
KIF19	0.26767876	0.10428137	2.06034450
SVOP	-0.26766418	0.10429724	-2.06022355
C14orf166B	-0.26765596	0.10430075	-2.06015539
C5orf23	-0.26764212	0.10431516	-2.06004067
DDB1	0.26762074	0.10434422	2.05986346
CDH26	0.26760801	0.10435650	2.05975786
TUBB3	-0.26759798	0.10436352	-2.05967473
ZNF17	0.26758810	0.10437026	2.05959281
DNAJC6	0.26754253	0.10444635	2.05921505
SNORD58A	0.26753280	0.10445281	2.05913433

PAPOLG	0.26750875	0.10448709	2.05893502	
B4GALNT4	-0.26749456	0.10448977	-2.05881732	
EGFL7	-0.26749614	0.10448977	-2.05883045	yes
TRPM5	-0.26747951	0.10450656	-2.05869258	
BAT5	0.26744382	0.10456352	2.05839670	
SRPX	-0.26740035	0.10463562	-2.05803642	
SNORD32A	-0.26739314	0.10463719	-2.05797661	
ZNF473	0.26736651	0.10464567	2.05775591	
SYTL2	0.26736315	0.10464567	2.05772802	
KLHL11	0.26736786	0.10464567	2.05776711	
SUCLG1	0.26737004	0.10464567	2.05778516	
AMFR	0.26735478	0.10464920	2.05765863	
HILS1	-0.26734212	0.10464920	-2.05755371	
PCYT1B	0.26734764	0.10464920	2.05759951	
CXCR3	-0.26731235	0.10469467	-2.05730701	
RNF185	0.26728684	0.10473188	2.05709552	
SCOC	0.26725936	0.10476969	2.05686776	
MUC5B	-0.26725462	0.10476969	-2.05682847	
LHX4	-0.26724480	0.10477634	-2.05674712	
LSM5	0.26723769	0.10477773	2.05668816	
LY6G6D	-0.26721954	0.10480061	-2.05653774	
SRRD	0.26720673	0.10480067	2.05643155	
NOL4	-0.26720670	0.10480067	-2.05643137	
CMTM4	0.26719499	0.10481103	2.05633427	
MRPS7	0.26717278	0.10484183	2.05615023	
SFRS2IP	0.26709820	0.10497476	2.05553216	
LOC100130233	-0.26708003	0.10499773	-2.05538158	
AHDC1	-0.26701784	0.10509301	-2.05486627	
MDM2	0.26702008	0.10509301	2.05488478	
TSNAX	0.26701201	0.10509301	2.05481791	
GALR2	-0.26691859	0.10526301	-2.05404388	
AEBP1	-0.26688563	0.10530242	-2.05377079	
OR7A10	-0.26689068	0.10530242	-2.05381260	

CDH12	-0.26686251	0.10532262	-2.05357918
ESM1	-0.26686700	0.10532262	-2.05361636
CFDP1	0.26680837	0.10541602	2.05313061
ZNF366	-0.26673646	0.10551920	-2.05253492
TIPRL	0.26674180	0.10551920	2.05257909
FLJ16165	-0.26674177	0.10551920	-2.05257884
LOC100129581	-0.26671932	0.10553961	-2.05239293
HLA-C	0.26671325	0.10553961	2.05234260
CNP	-0.26669082	0.10557101	-2.05215680
POLI	0.26663739	0.10565065	2.05171419
KIF27	0.26664303	0.10565065	2.05176093
NFKBIZ	0.26662223	0.10566782	2.05158864
SLC12A6	0.26660270	0.10569357	2.05142686
LOC389936	-0.26650066	0.10588127	-2.05058159
C10orf47	-0.26648592	0.10589764	-2.05045954
FLJ40448	-0.26647774	0.10590114	-2.05039178
PABPC5	-0.26646043	0.10591001	-2.05024843
PPP4C	0.26646393	0.10591001	2.05027736
PRKDC	0.26632145	0.10617067	2.04909737
ALS2CR8	0.26629597	0.10620823	2.04888634
ENO2	0.26624287	0.10630018	2.04844665
ZNF35	0.26622421	0.10632433	2.04829216
PIK3IP1	0.26621632	0.10632727	2.04822683
ZFP64	0.26620385	0.10633923	2.04812357
FBXL17	0.26619424	0.10634558	2.04804393
NRBF2	-0.26615937	0.10640168	-2.04775524
C1orf135	-0.26613914	0.10642883	-2.04758767
TP53I13	-0.26613281	0.10642883	-2.04753530
POLR2B	0.26611564	0.10645008	2.04739311
CLDN23	-0.26609982	0.10646865	-2.04726216
STAG3L4	0.26609240	0.10647068	2.04720072
HIGD2BP	-0.26605427	0.10652233	-2.04688503
COMMD1	0.26602147	0.10652233	2.04661343

CYP21A2	-0.26603210	0.10652233	-2.04670141	
ZNF740	0.26604748	0.10652233	2.04682874	
ITPR2	-0.26602778	0.10652233	-2.04666568	
LDHB	0.26604350	0.10652233	2.04679582	
C9orf24	0.26603289	0.10652233	2.04670797	
CPEB4	0.26598426	0.10658313	2.04630536	
BEX5	-0.26597574	0.10658733	-2.04623486	
FBXO38	0.26588796	0.10674805	2.04550808	
ADAMTS1	-0.26586519	0.10678042	-2.04531959	
MRRF	0.26585849	0.10678102	2.04526419	
MSL2	0.26578699	0.10690145	2.04467229	
ULBP2	-0.26578480	0.10690145	-2.04465413	
KIF18B	-0.26570306	0.10703791	-2.04397758	
RPL35P1	-0.26570514	0.10703791	-2.04399483	
TBC1D23	0.26564934	0.10713165	2.04353294	
HTN1	-0.26556014	0.10729582	-2.04279466	
RGS10	-0.26551887	0.10736501	-2.04245317	
ANKAR	0.26548133	0.10742684	2.04214250	
RNF111	0.26544535	0.10747292	2.04184474	
DHX33	0.26544882	0.10747292	2.04187348	
TGFA	0.26543215	0.10748645	2.04173547	yes
TIMM8B	0.26540967	0.10751841	2.04154946	
PIGA	0.26538204	0.10756061	2.04132083	
CAPSL	0.26534969	0.10761221	2.04105317	
SLITRK6	0.26533294	0.10762462	2.04091453	
CBR4	0.26533067	0.10762462	2.04089578	
FGFR1	-0.26531080	0.10765143	-2.04073134	
CMA1	-0.26527810	0.10768432	-2.04046079	
IL21R	-0.26528411	0.10768432	-2.04051050	
TAS2R9	-0.26527510	0.10768432	-2.04043596	
PLA2G10	0.26525243	0.10771670	2.04024844	
SPG20	0.26523690	0.10772220	2.04011989	
CBX4	-0.26524032	0.10772220	-2.04014821	

C13orf26	0.26522762	0.10772796	2.04004312	
GEFT	-0.26519258	0.10777226	-2.03975325	yes
CD81	0.26519475	0.10777226	2.03977121	
TCP10L2	-0.26517948	0.10778564	-2.03964482	
NRCAM	-0.26516022	0.10779856	-2.03948548	
C7orf10	-0.26516053	0.10779856	-2.03948807	
LOC441601	-0.26513486	0.10783634	-2.03927567	
OR13A1	-0.26512329	0.10784667	-2.03917996	
RC3H2	0.26511668	0.10784712	2.03912530	
IL17A	-0.26510754	0.10784955	-2.03904972	
NIPA2	0.26510193	0.10784955	2.03900326	
SHF	-0.26509067	0.10784955	-2.03891013	
LPPR4	-0.26508994	0.10784955	-2.03890409	
ZNF766	0.26507307	0.10787043	2.03876452	
C11orf88	0.26500786	0.10796220	2.03822510	
ZNF532	-0.26501438	0.10796220	-2.03827904	
EAF2	0.26501273	0.10796220	2.03826540	
FAM58A	-0.26498278	0.10799946	-2.03801765	
CHTF18	-0.26493363	0.10808459	-2.03761102	
SRPR	-0.26492733	0.10808459	-2.03755891	
PMP2	-0.26482843	0.10822049	-2.03674095	
MBTD1	0.26483758	0.10822049	2.03681658	
BOK	-0.26483292	0.10822049	-2.03677808	
MUL1	0.26482732	0.10822049	2.03673176	
ADAMTS10	-0.26483855	0.10822049	-2.03682459	yes
MIB2	-0.26481449	0.10823337	-2.03662566	
SIPA1L1	0.26480661	0.10823639	2.03656041	
CCDC67	0.26478854	0.10824097	2.03641097	
INPP4A	0.26478595	0.10824097	2.03638959	
TMEM132A	-0.26478519	0.10824097	-2.03638330	
STRA13	-0.26470536	0.10837494	-2.03572308	
ANKRD36B	0.26470709	0.10837494	2.03573741	
RNF25	0.26469222	0.10838846	2.03561441	

PPHLN1	0.26466656	0.10841427	2.03540220
GPR123	-0.26466932	0.10841427	-2.03542500
FTH1	0.26462918	0.10847624	2.03509312
LAT2	-0.26461047	0.10849664	-2.03493838
CAMKV	-0.26460624	0.10849664	-2.03490339
SGMS1	0.26458706	0.10852225	2.03474479
C6orf70	0.26454806	0.10858752	2.03442231
CTNNA2	-0.26446951	0.10873201	-2.03377280
SH3YL1	0.26442706	0.10880429	2.03342182
NAALAD2	-0.26439486	0.10884537	-2.03315560
TRAPPC5	-0.26438745	0.10884537	-2.03309434
NEK10	0.26439073	0.10884537	2.03312147
OSTN	-0.26436491	0.10887780	-2.03290794
GPR161	-0.26435827	0.10887833	-2.03285311
H2AFZ	0.26433929	0.10889085	2.03269618
FBXL8	-0.26433986	0.10889085	-2.03270083
ILF3	0.26431088	0.10893505	2.03246128
CR1	-0.26427886	0.10898652	-2.03219654
RP11-167P23.2	-0.26423245	0.10905409	-2.03181290
RPRD2	0.26423375	0.10905409	2.03182364
ACYP2	0.26419947	0.10910751	2.03154029
RCBTB2	0.26419218	0.10910937	2.03148000
SPATA8	-0.26413281	0.10921583	-2.03098928
PROX1	-0.26407796	0.10931331	-2.03053585
CNBD1	-0.26406317	0.10933023	-2.03041366
GKAP1	0.26404738	0.10934920	2.03028311
LACTB2	0.26403069	0.10936997	2.03014513
EIF4A2	0.26400947	0.10939984	2.02996981
CD209	-0.26398871	0.10941601	-2.02979819
TIPIN	0.26399155	0.10941601	2.02982167
FOXO1	-0.26394869	0.10947121	-2.02946747
PDXP	-0.26394855	0.10947121	-2.02946630
METTL3	0.26393351	0.10948867	2.02934202

CEACAM21	-0.26392603	0.10949092	-2.02928019	
DYNC1H1	0.26391022	0.10950994	2.02914950	
TSSK3	-0.26390300	0.10951168	-2.02908980	
ZBED5	0.26388704	0.10953100	2.02895795	
ODF4	-0.26385521	0.10956947	-2.02869492	
CGGBP1	0.26385747	0.10956947	2.02871355	
SLC35A4	0.26383691	0.10957308	2.02854368	
OR2Y1	-0.26384030	0.10957308	-2.02857170	
ARMETL1	0.26383434	0.10957308	2.02852244	
MMP17	-0.26382612	0.10957684	-2.02845446	
DMXL1	0.26380698	0.10960258	2.02829633	
SLC17A3	-0.26378936	0.10962526	-2.02815073	
DRGX	-0.26377560	0.10964017	-2.02803705	
HOPX	-0.26376695	0.10964481	-2.02796551	
PTCD3	0.26374603	0.10967231	2.02779269	
FAM62B	0.26373591	0.10967231	2.02770907	
SNORA37	-0.26373423	0.10967231	-2.02769515	
SLCO2A1	-0.26371995	0.10968828	-2.02757716	
CCDC48	-0.26370780	0.10969996	-2.02747679	
SCFD1	0.26364120	0.10979687	2.02692650	
ARSE	-0.26364067	0.10979687	-2.02692210	
STX16	0.26364093	0.10979687	2.02692426	
COL9A1	-0.26362157	0.10982260	-2.02676424	
FAM123B	-0.26359793	0.10985747	-2.02656895	
NUDC	0.26355854	0.10992414	2.02624352	
NAT5	0.26354741	0.10993379	2.02615153	
CEACAM1	-0.26353961	0.10993671	-2.02608710	
C20orf106	-0.26352092	0.10996162	-2.02593268	
UIMC1	0.26349561	0.10999989	2.02572365	
NEK5	0.26347114	0.11003649	2.02552148	
GGT5	-0.26340601	0.11015528	-2.02498342	yes
WFDC8	-0.26338479	0.11018536	-2.02480809	
R3HDM2	0.26337033	0.11019346	2.02468869	

LTV1	0.26336808	0.11019346	2.02467008	
ZDHC20	0.26336079	0.11019535	2.02460989	
LOC100131232	-0.26333004	0.11023187	-2.02435584	
NFX1	0.26333040	0.11023187	2.02435880	yes
RBBP5	0.26331822	0.11024293	2.02425821	
ARPC5	0.26330248	0.11026193	2.02412821	
LEKR1	0.26323756	0.11038048	2.02359196	
TRIM47	-0.26322036	0.11040245	-2.02344992	
YTHDC2	0.26316211	0.11050761	2.02296877	
IFLTD1	0.26312976	0.11054744	2.02270159	
GKN1	-0.26313585	0.11054744	-2.02275194	
GLO1	0.26311892	0.11055655	2.02261208	
RNF166	-0.26307414	0.11062160	-2.02224229	
KIAA1033	0.26307544	0.11062160	2.02225304	
VT11B	0.26305517	0.11064720	2.02208562	
NPTN	0.26304545	0.11065405	2.02200534	
IL15RA	-0.26303637	0.11065960	-2.02193032	
CRYBB3	-0.26300922	0.11066320	-2.02170611	
TMEM127	0.26302642	0.11066320	2.02184816	
SMEK1	0.26301514	0.11066320	2.02175503	
ZNF250	0.26301308	0.11066320	2.02173805	
LOC100129449	-0.26297813	0.11071340	-2.02144941	
ARPC3	0.26295553	0.11074639	2.02126278	
BET1	0.26291942	0.11080682	2.02096460	
C5orf44	0.26290560	0.11082200	2.02085049	
AIPL1	-0.26289175	0.11083725	-2.02073611	
C12orf55	0.26286585	0.11087698	2.02052223	
YPEL4	-0.26285494	0.11088625	-2.02043221	
USP29	-0.26278546	0.11101459	-2.01985847	
C1orf96	-0.26276447	0.11103147	-2.01968522	
LOC202227	-0.26276974	0.11103147	-2.01972869	
ABCA4	-0.26271717	0.11111480	-2.01929465	
ALPP	-0.26266249	0.11119900	-2.01884320	

HNRNPA2B1	0.26266546	0.11119900	2.01886774	
PDE1C	-0.26265677	0.11119900	-2.01879605	
MRPL35	0.26264304	0.11120712	2.01868267	
HES6	-0.26264010	0.11120712	-2.01865843	
OR4C13	-0.26263048	0.11121382	-2.01857896	
GRINL1A	-0.26259010	0.11128314	-2.01824561	
SNAP23	0.26255895	0.11133369	2.01798848	
NIPBL	0.26254445	0.11134840	2.01786877	
RSPH4A	0.26253271	0.11134840	2.01777190	
LOC791120	-0.26253790	0.11134840	-2.01781469	
TMEM119	-0.26251946	0.11136250	-2.01766249	
MYADM12	-0.26247969	0.11143066	-2.01733419	
UFSP2	0.26246444	0.11143590	2.01720835	
PPP2R2D	0.26246505	0.11143590	2.01721336	
ELAC2	0.26243481	0.11148199	2.01696374	
RPL5	0.26242917	0.11148199	2.01691720	
KIF24	0.26242096	0.11148582	2.01684943	
OGFRL1	-0.26241111	0.11149298	-2.01676818	
OR2A5	-0.26239312	0.11151677	-2.01661963	
KIAA0317	0.26237423	0.11154237	2.01646376	yes
FAM120AOS	-0.26236445	0.11154941	-2.01638303	
KLRB1	0.26235303	0.11155978	2.01628880	
CROT	0.26231311	0.11162835	2.01595927	
DHX36	0.26228930	0.11166162	2.01576283	
CYSLTR2	-0.26228092	0.11166162	-2.01569363	
PDLIM4	0.26227781	0.11166162	2.01566798	
FAM162B	-0.26227055	0.11166353	-2.01560804	
C10orf82	-0.26224482	0.11169547	-2.01539568	
ASB4	-0.26224224	0.11169547	-2.01537444	
DDT	0.26219545	0.11176521	2.01498825	
VNN2	0.26220145	0.11176521	2.01503784	
EPC2	0.26214137	0.11186280	2.01454197	
ELA3A	-0.26210260	0.11192914	-2.01422206	

SORBS1	-0.26207717	0.11196821	-2.01401222	
SLC6A6	0.26206111	0.11197516	2.01387976	
TAAR5	-0.26206512	0.11197516	-2.01391283	
RNF14	0.26203611	0.11201338	2.01367341	
SLC35F5	0.26202577	0.11202159	2.01358810	
VEZF1	0.26198886	0.11207694	2.01328361	
MFAP5	-0.26198608	0.11207694	-2.01326060	
DNAH1	0.26194789	0.11211626	2.01294557	
RPL12P2	-0.26195915	0.11211626	-2.01303845	
TMEM14B	0.26195020	0.11211626	2.01296459	yes
DDX53	-0.26193463	0.11212769	-2.01283617	
ATP2B4	0.26192966	0.11212769	2.01279514	
KIF13B	0.26189471	0.11215944	2.01250674	
LOC375337	-0.26188886	0.11215944	-2.01245855	
PTPN3	0.26189912	0.11215944	2.01254312	
SNORA38	-0.26189432	0.11215944	-2.01250356	
GTSE1	-0.26186607	0.11219317	-2.01227052	
TBX4	-0.26182950	0.11225517	-2.01196877	
SLC37A1	0.26178576	0.11233186	2.01160799	
GABRR2	-0.26174351	0.11240556	-2.01125942	
PABPN1	-0.26170391	0.11246087	-2.01093277	
KCNAB3	-0.26170916	0.11246087	-2.01097602	
C12orf54	-0.26168238	0.11249036	-2.01075516	
FBXO11	0.26167691	0.11249036	2.01070999	
TIMM23	0.26164614	0.11252756	2.01045625	
PRL	-0.26165038	0.11252756	-2.01049118	
ACOX3	0.26161338	0.11258186	2.01018601	
SETBP1	-0.26158892	0.11261913	-2.00998427	
OR6K6	-0.26156314	0.11265912	-2.00977159	
ADORA2A	-0.26150587	0.11275163	-2.00929928	
CDRT4	0.26150550	0.11275163	2.00929618	
IMPACT	0.26149257	0.11276522	2.00918956	
hCG_2033311	-0.26147991	0.11277826	-2.00908514	

MPL	-0.26144826	0.11283036	-2.00882416
SLIT3	-0.26137434	0.11296952	-2.00821450
RPS12P4	-0.26135196	0.11298958	-2.00802998
GTPBP10	0.26135274	0.11298958	2.00803637
SPRR2E	-0.26131710	0.11304837	-2.00774252
DNAJC11	0.26130869	0.11305269	2.00767316
PPM1G	0.26128711	0.11307112	2.00749521
RTN4IP1	0.26128729	0.11307112	2.00749670
LOC100133413	0.26125126	0.11310549	2.00719954
TARBP2	-0.26124517	0.11310549	-2.00714935
TOP2B	0.26124659	0.11310549	2.00716107
CD34	-0.26125420	0.11310549	-2.00722381
FIGF	-0.26116571	0.11325632	-2.00649416
CAPN5	0.26115852	0.11325813	2.00643489
KATNB1	0.26112335	0.11330465	2.00614487
C1orf14	-0.26112936	0.11330465	-2.00619449
SNORA55	-0.26111549	0.11330783	-2.00608008
SPA17	0.26104673	0.11343250	2.00551323
WDR12	0.26104248	0.11343250	2.00547814
CACNB3	0.26103494	0.11343503	2.00541600
OAZ3	-0.26097286	0.11355026	-2.00490423
ZFAND6	0.26095839	0.11355408	2.00478488
INS-IGF2	-0.26096449	0.11355408	-2.00483521
ERVWE1	-0.26093229	0.11359498	-2.00456975
OR10K2	-0.26092502	0.11359696	-2.00450982
PDE11A	-0.26090908	0.11360159	-2.00437840
TBC1D7	0.26089754	0.11360159	2.00428327
ALS2CR4	0.26090497	0.11360159	2.00434453
CYP7B1	-0.26090252	0.11360159	-2.00432437
PNPLA7	-0.26087252	0.11361919	-2.00407706
MAP1LC3B2	-0.26087010	0.11361919	-2.00405709
C19orf43	0.26088073	0.11361919	2.00414474
POF1B	0.26085030	0.11364708	2.00389389

C1orf192	0.26073296	0.11387689	2.00292672	
PEX26	-0.26069638	0.11392655	-2.00262516	
PCDHB16	-0.26069822	0.11392655	-2.00264038	
C2orf3	0.26068081	0.11393539	2.00249690	
C6	0.26067949	0.11393539	2.00248602	
TBCKL	0.26066052	0.11396163	2.00232967	
CHAD	-0.26063271	0.11400622	-2.00210040	
KIAA1024L	-0.26060630	0.11403615	-2.00188279	
TNFAIP8	0.26059840	0.11403615	2.00181765	
C1orf123	0.26059304	0.11403615	2.00177353	
SNORA9	-0.26059476	0.11403615	-2.00178770	
DLK2	-0.26057962	0.11405090	-2.00166293	yes
CYBA	0.26053718	0.11411276	2.00131320	
RNF135	0.26054245	0.11411276	2.00135662	
ZNF280B	-0.26051083	0.11413937	-2.00109603	
ACADSB	0.26051348	0.11413937	2.00111788	
USP28	0.26050545	0.11413937	2.00105165	
C22orf26	-0.26049189	0.11415442	-2.00093995	
CENPB	-0.26046889	0.11418906	-2.00075044	
FAM110C	-0.26044417	0.11422729	-2.00054673	
PROX2	-0.26043730	0.11422847	-2.00049012	
C10orf81	0.26041364	0.11426451	2.00029517	
RBM27	0.26039745	0.11428505	2.00016173	
SNORD25	0.26037141	0.11432605	1.99994716	
C15orf27	-0.26036244	0.11433158	-1.99987328	
DENND2C	0.26033205	0.11436854	1.99962288	
LOC253724	0.26033722	0.11436854	1.99966548	
PCDHB5	-0.26031585	0.11438912	-1.99948937	
CSPG5	-0.26029183	0.11439977	-1.99929145	
CEP76	0.26029957	0.11439977	1.99935528	
KIAA1539	-0.26029743	0.11439977	-1.99933765	
TBC1D30	-0.26027924	0.11441284	-1.99918776	
LOC100133338	0.26024912	0.11446236	1.99893956	

EPR1	-0.26023969	0.11446887	-1.99886187
OR7D2	-0.26020821	0.11450813	-1.99860256
C10orf91	-0.26020940	0.11450813	-1.99861232
TMCC2	-0.26017476	0.11456462	-1.99832692
MDFI	-0.26016743	0.11456677	-1.99826654
KANK2	-0.26014918	0.11459163	-1.99811624
NUP62	0.26013687	0.11460415	1.99801479
ASPHD1	-0.26012059	0.11462492	-1.99788069
VPS39	0.26011356	0.11462646	1.99782277
FKBP2	-0.26008051	0.11466461	-1.99755049
MTO1	0.26007634	0.11466461	1.99751621
KLKP1	-0.26007815	0.11466461	-1.99753108
COLEC12	-0.26006729	0.11467035	-1.99744166
AP2M1	0.26004787	0.11467700	1.99728169
ISM1	-0.26005477	0.11467700	-1.99733846
ZDHH8	-0.26004523	0.11467700	-1.99725989
FTSJ2	0.26001462	0.11472762	1.99700778
C6orf222	-0.25997019	0.11479621	-1.99664175
IP6K2	0.25996908	0.11479621	1.99663267
COL21A1	0.25996282	0.11479621	1.99658105
OR10AD1	-0.25991572	0.11488122	-1.99619315
ZMAT2	0.25989798	0.11490252	1.99604702
RAB3GAP1	0.25989293	0.11490252	1.99600537
MDH1	0.25987992	0.11491652	1.99589828
DERL1	0.25986873	0.11492674	1.99580610
CCDC91	0.25985099	0.11495062	1.99565999
C3orf65	-0.25983883	0.11496287	-1.99555979
ADH6	0.25976002	0.11508791	1.99491080
ERV3	0.25976137	0.11508791	1.99492190
YPEL2	0.25976988	0.11508791	1.99499194
FAM131B	-0.25973712	0.11512258	-1.99472221
CLEC4M	-0.25972919	0.11512481	-1.99465688
LILRA5	-0.25972348	0.11512481	-1.99460988

KIAA0556	0.25970099	0.11515864	1.99442467	
EFNA1	0.25967273	0.11520453	1.99419193	
EXOC5	0.25965085	0.11522906	1.99401173	
MTMR2	0.25964842	0.11522906	1.99399170	
GSK3B	0.25962188	0.11527136	1.99377319	yes
TMEM150	-0.25953539	0.11543901	-1.99306102	yes
ASAM	-0.25951426	0.11547006	-1.99288705	
OR4S1	-0.25949954	0.11548156	-1.99276580	
NSDHL	0.25949620	0.11548156	1.99273830	
CCDC69	0.25943971	0.11553861	1.99227318	
KRT35	-0.25943125	0.11553861	-1.99220351	
RELN	-0.25943564	0.11553861	-1.99223966	
PGAP1	0.25945114	0.11553861	1.99236733	
CDC23	0.25944010	0.11553861	1.99227641	
ACCN3	-0.25944227	0.11553861	-1.99229425	
CLDN3	0.25941060	0.11556866	1.99203357	
LSM14B	-0.25936700	0.11564680	-1.99167458	
ABCC5	0.25931810	0.11573607	1.99127204	
RNF13	-0.25925854	0.11579343	-1.99078166	
OR7D4	-0.25926578	0.11579343	-1.99084127	
C10orf67	0.25927732	0.11579343	1.99093629	
HEXDC	-0.25926860	0.11579343	-1.99086453	yes
OR2AT4	-0.25925306	0.11579343	-1.99073656	
NTF4	-0.25926133	0.11579343	-1.99080461	
POLR2I	0.25915866	0.11597824	1.98995952	
FAM76A	0.25913547	0.11601373	1.98976866	
EXOC8	0.25910897	0.11605619	1.98955050	
KLHL26	-0.25909831	0.11606199	-1.98946279	
RSAD1	-0.25909365	0.11606199	-1.98942442	
PCDH24	-0.25906280	0.11611359	-1.98917048	
ADRBK2	0.25904922	0.11612893	1.98905873	
CCDC85B	-0.25903277	0.11613133	-1.98892334	
MCAM	-0.25902925	0.11613133	-1.98889437	

STYX	0.25903577	0.11613133	1.98894801
hCG_1644323	-0.25901655	0.11614484	-1.98878979
ZFP42	-0.25898338	0.11620135	-1.98851677
DHPS	0.25896189	0.11622013	1.98833996
SFRS12IP1	0.25896247	0.11622013	1.98834475
UBE2G1	0.25892821	0.11627774	1.98806275
FOXJ2	-0.25891656	0.11628905	-1.98796686
KHK	-0.25890858	0.11629264	-1.98790119
KCNMB2	0.25886799	0.11633949	1.98756716
AHSA2	0.25887738	0.11633949	1.98764442
PPP1R8	0.25886748	0.11633949	1.98756296
PRKX	0.25885532	0.11635188	1.98746289
RASGRP1	0.25880356	0.11644758	1.98703696
LOC728361	-0.25877439	0.11648258	-1.98679692
DNALI1	0.25877992	0.11648258	1.98684244
WDR74	0.25870567	0.11661410	1.98623145
CREM	0.25868346	0.11662307	1.98604869
BNIP1	0.25867817	0.11662307	1.98600516
C15orf33	0.25868816	0.11662307	1.98608736
RPLP1	0.25867633	0.11662307	1.98599004
HSD17B12	0.25865160	0.11666196	1.98578660
HEATR1	0.25859774	0.11676228	1.98534346
C14orf83	0.25856932	0.11678349	1.98510965
DUSP9	-0.25856262	0.11678349	-1.98505445
MOV10L1	-0.25856865	0.11678349	-1.98510407
RPL29P15	-0.25857159	0.11678349	-1.98512825
ME3	0.25854208	0.11678715	1.98488549
CSNK1G2	0.25854481	0.11678715	1.98490795
CCDC81	0.25854368	0.11678715	1.98489863
STEAP4	0.25851471	0.11683167	1.98466030
CEP170	0.25850425	0.11684051	1.98457427
C17orf91	-0.25849214	0.11685285	-1.98447462
SLC10A1	-0.25847799	0.11686949	-1.98435821

LOC441239	-0.25844125	0.11693380	-1.98405596
MAP3K9	-0.25843358	0.11693677	-1.98399288
ZNF730	-0.25837404	0.11704927	-1.98350308
MGC57346	0.25831318	0.11716464	1.98300247
C10orf49	-0.25829929	0.11718076	-1.98288822
APBA1	-0.25825971	0.11725121	-1.98256266
PLA2G4A	0.25825344	0.11725122	1.98251109
RAB1A	0.25821475	0.11731983	1.98219283
KCNB2	-0.25818316	0.11737343	-1.98193304
AGPAT9	0.25816090	0.11740730	1.98174995
HBP1	0.25814917	0.11741887	1.98165347
OR5V1	-0.25813051	0.11744512	-1.98150002
CD46	0.25811495	0.11746481	1.98137206
ETFA	0.25809782	0.11748783	1.98123118
KIF21B	-0.25807756	0.11751416	-1.98106457
NUDT9	0.25807083	0.11751416	1.98100919
OR8J3	-0.25806661	0.11751416	-1.98097446
CCDC40	0.25805613	0.11752310	1.98088829
C1orf59	0.25802487	0.11756281	1.98063121
DBR1	0.25803107	0.11756281	1.98068220
ELF2	0.25801820	0.11756368	1.98057637
SCD	-0.25798874	0.11761285	-1.98033412
C7orf23	0.25794539	0.11769149	1.97997765
LOC100129827	0.25787561	0.11781300	1.97940382
LOC728748	0.25787669	0.11781300	1.97941270
ARL1	0.25781129	0.11792255	1.97887502
TFDP1	0.25780523	0.11792255	1.97882521
UBTD1	-0.25780833	0.11792255	-1.97885068
TIMM13	0.25778692	0.11794815	1.97867465
CPSF6	0.25776301	0.11798567	1.97847802
LEPROT	0.25771889	0.11805379	1.97811533
HPS4	0.25771844	0.11805379	1.97811159
GCA	0.25767825	0.11811264	1.97778118

C1orf223	-0.25768169	0.11811264	-1.97780948	
TMEM106B	0.25765773	0.11814298	1.97761244	
PC	-0.25764596	0.11815471	-1.97751570	
SPI1	-0.25762855	0.11817843	-1.97737256	
U2AF1	0.25761832	0.11818689	1.97728847	
MORF4	-0.25758711	0.11823998	-1.97703194	
PCBP4	-0.25750351	0.11840468	-1.97634469	yes
FAM65A	-0.25749681	0.11840564	-1.97628958	yes
ZNF577	-0.25747925	0.11842972	-1.97614524	
PRMT7	0.25744914	0.11848055	1.97589779	
SLC37A4	0.25741583	0.11853823	1.97562397	
CCR10	-0.25740265	0.11855300	-1.97551565	
CSNK2A1	0.25735011	0.11860417	1.97508380	yes
hCG_17324	0.25735836	0.11860417	1.97515158	
OR2J3	-0.25735332	0.11860417	-1.97511023	
CLIP1	0.25734739	0.11860417	1.97506144	yes
SNAPC1	0.25735072	0.11860417	1.97508879	
CENPA	-0.25732939	0.11861774	-1.97491351	
OR52I2	-0.25732852	0.11861774	-1.97490640	
C20orf134	-0.25732137	0.11861965	-1.97484764	
C18orf16	-0.25725061	0.11875732	-1.97426608	
TMSB10	0.25722000	0.11880934	1.97401452	
ELA1	-0.25720930	0.11881884	-1.97392658	
USP26	-0.25716012	0.11891057	-1.97352239	
SERINC3	0.25714892	0.11892115	1.97343035	
C1orf62	-0.25712299	0.11895671	-1.97321732	
C11orf92	0.25711978	0.11895671	1.97319090	
HBD	-0.25710535	0.11897420	-1.97307229	
CPT1A	0.25709118	0.11899113	1.97295588	
TMEM145	-0.25706361	0.11902633	-1.97272930	
PPIL3	0.25706222	0.11902633	1.97271790	
FXR1	0.25705294	0.11903282	1.97264164	
TADA3L	0.25704056	0.11904592	1.97253996	

KLHL5	0.25703375	0.11904712	1.97248401
PMCHL2	-0.25702045	0.11906222	-1.97237466
DPRX	-0.25701102	0.11906901	-1.97229725
UNQ9419	-0.25694503	0.11918350	-1.97175501
MCART3P	-0.25695065	0.11918350	-1.97180118
MSH5	0.25692696	0.11920880	1.97160657
GRIK2	0.25691903	0.11921241	1.97154140
NAPEPLD	0.25689682	0.11924660	1.97135890
ZNF512B	-0.25688610	0.11925617	-1.97127085
BFSP2	-0.25687962	0.11925668	-1.97121760
KDSR	0.25687227	0.11925905	1.97115719
C9orf79	-0.25684856	0.11929646	-1.97096239
RPS2P9	-0.25683990	0.11930163	-1.97089127
SPANXN4	-0.25682008	0.11933073	-1.97072840
SPIN2A	-0.25681105	0.11933670	-1.97065422
SNX20	-0.25679955	0.11934795	-1.97055979
TMCC1	0.25675373	0.11943278	1.97018333
C6orf10	-0.25671585	0.11944709	-1.96987214
C20orf27	-0.25671788	0.11944709	-1.96988889
SEL1L	0.25671757	0.11944709	1.96988632
SHH	-0.25673099	0.11944709	-1.96999651
LOC728844	0.25673376	0.11944709	1.97001932
DENND4C	0.25666320	0.11954660	1.96943968
C1orf173	0.25665492	0.11954873	1.96937166
P4HA3	-0.25664973	0.11954873	-1.96932905
WDR52	0.25660241	0.11963688	1.96894031
RASSF1	-0.25659140	0.11964712	-1.96884991
FLT1	-0.25657661	0.11966548	-1.96872839
IQCA1	0.25654223	0.11972590	1.96844602
SFT2D1	0.25652922	0.11973823	1.96833915
ST7L	0.25651932	0.11973823	1.96825788
CCDC109B	0.25651777	0.11973823	1.96824514
TRIM62	-0.25650535	0.11975152	-1.96814309

TRMT5	0.25646093	0.11983354	1.96777827
C8orf41	0.25644923	0.11984529	1.96768217
AMACR	0.25641872	0.11988404	1.96743166
RPS6KA5	0.25642053	0.11988404	1.96744650
ACTN1	-0.25637987	0.11995415	-1.96711261
TTN	-0.25635756	0.11998874	-1.96692932
BBS2	0.25633846	0.12001640	1.96677251
TOX4	0.25631438	0.12005479	1.96657475
DNAH9	0.25628390	0.12010696	1.96632447
PSMD12	0.25626800	0.12011436	1.96619389
FGF16	-0.25627117	0.12011436	-1.96621992
FLJ42280	-0.25622342	0.12019692	-1.96582780
CXorf65	-0.25619609	0.12020450	-1.96560337
ZDHHHC5	0.25619496	0.12020450	1.96559416
PCDH9	-0.25620551	0.12020450	-1.96568077
FSCN1	-0.25620849	0.12020450	-1.96570518
ANO8	-0.25616293	0.12026008	-1.96533113
KIAA1407	0.25615576	0.12026210	1.96527227
TMC8	-0.25611909	0.12031426	-1.96497118
FAM150B	-0.25611919	0.12031426	-1.96497201
C1orf158	0.25610155	0.12033863	1.96482716
DYM	0.25603969	0.12044514	1.96431923
DCLK3	-0.25604275	0.12044514	-1.96434439
KLHL23	-0.25602744	0.12045811	-1.96421870
ZNF326	0.25600012	0.12050362	1.96399435
INSL6	-0.25598128	0.12053083	-1.96383967
RDH12	-0.25595918	0.12056506	-1.96365830
RP3-474I12.5	-0.25593679	0.12059996	-1.96347443
BRWD3	0.25590221	0.12060738	1.96319061
HIST1H1C	0.25592254	0.12060738	1.96335749
OVCH2	-0.25590746	0.12060738	-1.96323367
TMPO	0.25591617	0.12060738	1.96330519
RP4-692D3.1	0.25590426	0.12060738	1.96320740

C14orf169	-0.25587210	0.12065896	-1.96294337	
LRRCC1	0.25585579	0.12068072	1.96280955	
RPLP1P3	-0.25583225	0.12071811	-1.96261630	
TFB1M	0.25580061	0.12077302	1.96235658	
OSBPL10	-0.25576786	0.12083035	-1.96208773	
KLF1	-0.25574361	0.12086932	-1.96188866	
RAB2A	0.25572108	0.12090457	1.96170375	
AGPAT3	0.25571362	0.12090723	1.96164254	
CYP11B2	-0.25565851	0.12100937	-1.96119021	
LYAR	0.25565396	0.12100937	1.96115282	
TJP3	0.25564358	0.12101835	1.96106769	
USP9X	0.25561909	0.12105789	1.96086665	
PQLC2	-0.25559659	0.12109313	-1.96068199	
AGXT2L1	-0.25556770	0.12112873	-1.96044488	
TULP3	0.25556818	0.12112873	1.96044881	
SLC35E3	0.25555522	0.12114228	1.96034249	
C6orf201	-0.25552981	0.12115767	-1.96013396	
ZCCHC10	0.25553234	0.12115767	1.96015468	
RFX1	-0.25552945	0.12115767	-1.96013097	
TRPA1	-0.25550168	0.12120434	-1.95990309	
C21orf119	0.25549441	0.12120663	1.95984340	
ANKS1A	0.25548743	0.12120738	1.95978617	
C8orf86	-0.25547540	0.12120738	-1.95968743	
TMX2	0.25548077	0.12120738	1.95973146	
ACTR1A	0.25544187	0.12123961	1.95941227	
KIAA1279	0.25544241	0.12123961	1.95941672	yes
LIPG	-0.25544982	0.12123961	-1.95947750	
OR52N5	-0.25537127	0.12137917	-1.95883289	
HERC5	-0.25535827	0.12139386	-1.95872628	
ZNF689	-0.25532824	0.12144552	-1.95847981	
RIMS2	-0.25528386	0.12152833	-1.95811567	
SYNPR	-0.25523193	0.12161379	-1.95768962	
ISCU	0.25522383	0.12161379	1.95762315	

TAF5L	0.25521341	0.12161379	1.95753766	yes
CD200R1L	-0.25521482	0.12161379	-1.95754926	
LOC729627	-0.25522876	0.12161379	-1.95766364	
OR10X1	-0.25519816	0.12163340	-1.95741256	
ST8SIA2	-0.25518270	0.12165348	-1.95728572	
EXOSC4	-0.25516642	0.12167536	-1.95715209	
KIAA1529	0.25515581	0.12168490	1.95706509	
PIK3C3	0.25513772	0.12171071	1.95691664	
OR4B1	-0.25510968	0.12175813	-1.95668663	
MED23	0.25507065	0.12182946	1.95636646	
OR8G5	-0.25505394	0.12185228	-1.95622938	
TINAG	-0.25504421	0.12185993	-1.95614954	
NPEPPS	0.25501694	0.12190574	1.95592579	
LOC100133409	0.25498755	0.12195614	1.95568478	
TSGA10IP	-0.25493808	0.12199622	-1.95527895	
C1QTNF8	-0.25494884	0.12199622	-1.95536724	
SGCD	-0.25493890	0.12199622	-1.95528569	
SCARNA17	-0.25495353	0.12199622	-1.95540564	
GJA9	0.25494276	0.12199622	1.95531732	
ITGAV	0.25490568	0.12205322	1.95501321	
DES	-0.25487339	0.12211002	-1.95474830	
STK32B	-0.25486610	0.12211237	-1.95468851	
COL13A1	-0.25469065	0.12243169	-1.95324955	
RDH10	0.25468593	0.12243169	1.95321086	
PGBD4	0.25469611	0.12243169	1.95329429	
LOC285696	-0.25469336	0.12243169	-1.95327174	
UGT2A3	-0.25471322	0.12243169	-1.95343465	
TGM5	-0.25468236	0.12243169	-1.95318154	
ESRRB	-0.25464327	0.12248989	-1.95286102	
RP5-1022P6.2	0.25464439	0.12248989	1.95287015	
ZNF557	0.25460710	0.12255531	1.95256439	
LILRB4	-0.25458521	0.12258956	-1.95238486	
ZMAT3	0.25457010	0.12260901	1.95226096	

C19orf46	-0.25454902	0.12264149	-1.95208812
PECAM1	-0.25450622	0.12272146	-1.95173714
LAP3	0.25449624	0.12272971	1.95165529
DDA1	-0.25448454	0.12274172	-1.95155937
FCHO1	-0.25443857	0.12282439	-1.95118243
PGP	-0.25443432	0.12282439	-1.95114756
ATP6V1G1	0.25437897	0.12293192	1.95069373
DCDC1	0.25436978	0.12293845	1.95061837
C14orf174	0.25436337	0.12293890	1.95056581
CNIH4	0.25431238	0.12300976	1.95014778
LOC440934	-0.25431323	0.12300976	-1.95015474
C1orf217	0.25431682	0.12300976	1.95018418
AHRR	-0.25429988	0.12302354	-1.95004534
C3orf44	-0.25429039	0.12303074	-1.94996749
XRCC5	0.25427268	0.12305593	1.94982235
OSBPL1A	-0.25426092	0.12306363	-1.94972594
C6orf174	-0.25425056	0.12306363	-1.94964095
C10orf79	0.25425224	0.12306363	1.94965472
CCDC39	0.25419466	0.12317249	1.94918274
ZNF793	0.25418513	0.12317980	1.94910457
CNNM1	-0.25417282	0.12319318	-1.94900370
NUDT8	-0.25414272	0.12321116	-1.94875691
RNASEN	0.25413981	0.12321116	1.94873308
PRR13	-0.25414976	0.12321116	-1.94881462
RPS6KL1	-0.25414182	0.12321116	-1.94874954
LITAF	0.25411898	0.12324325	1.94856228
OGT	0.25408672	0.12330038	1.94829790
BTBD3	0.25407508	0.12331231	1.94820250
C4orf36	0.25404529	0.12336406	1.94795829
AKIRIN2	0.25402556	0.12339376	1.94779654
MRPS30	0.25401525	0.12340277	1.94771206
DNAJB4	0.25399770	0.12341409	1.94756819
OTUB2	-0.25400045	0.12341409	-1.94759071

ARF6	-0.25393969	0.12351841	-1.94709273	
OXTR	0.25393778	0.12351841	1.94707708	
NRK	-0.25392612	0.12353040	-1.94698155	
HRSP12	0.25390010	0.12357395	1.94676826	
MPRIP	-0.25387231	0.12360899	-1.94654046	
GAS8	0.25387176	0.12360899	1.94653596	
GCC2	0.25385391	0.12363457	1.94638974	
FAM171A1	-0.25384018	0.12365114	-1.94627720	
CCDC43	0.25381017	0.12370136	1.94603127	
HIST1H1T	-0.25379875	0.12370136	-1.94593763	
PLP1	-0.25380308	0.12370136	-1.94597314	
LOC100133319	0.25379199	0.12370260	1.94588225	
GRIA4	-0.25375879	0.12375914	-1.94561019	
APOL5	-0.25375388	0.12375914	-1.94556998	
TTC39C	0.25374561	0.12376371	1.94550217	yes
STYK1	0.25372689	0.12379125	1.94534881	
KLHL29	-0.25368330	0.12387353	-1.94499157	
RAD21	0.25367116	0.12388662	1.94489205	
RAPSN	-0.25364670	0.12392682	-1.94469166	
ID4	-0.25362406	0.12396302	-1.94450616	
CXorf48	-0.25361370	0.12397072	-1.94442128	
CIRH1A	0.25360818	0.12397072	1.94437604	
ARL8A	-0.25351974	0.12412460	-1.94365140	
MXI1	-0.25352056	0.12412460	-1.94365813	
TMEM22	-0.25352864	0.12412460	-1.94372434	
ZFP161	0.25347997	0.12419861	1.94332557	
MYOM2	-0.25346462	0.12421882	-1.94319976	
SERTAD2	0.25343993	0.12425961	1.94299750	
GCH1	0.25341297	0.12429447	1.94277665	
GCLC	0.25341175	0.12429447	1.94276660	yes
GSDMB	0.25340206	0.12430123	1.94268729	
hCG_18290	0.25339630	0.12430123	1.94264007	
RASSF8	-0.25337289	0.12433923	-1.94244825	

AKAP9	0.25334680	0.12438315	1.94223451
APOBEC3A	-0.25326524	0.12454955	-1.94156644
DIS3	0.25324594	0.12457853	1.94140830
LOC646851	0.25322730	0.12460604	1.94125563
ZNF71	-0.25316906	0.12472111	-1.94077859
STXBP5	0.25309353	0.12480147	1.94015990
MIPOL1	0.25308942	0.12480147	1.94012627
ZC3H4	-0.25309580	0.12480147	-1.94017856
FAM162A	0.25310120	0.12480147	1.94022280
NVL	0.25309065	0.12480147	1.94013631
CAPZB	0.25312025	0.12480147	1.94037875
NAV3	-0.25310031	0.12480147	-1.94021546
TSPYL3	-0.25299309	0.12499443	-1.93933734
CCDC147	0.25298369	0.12499443	1.93926034
MURC	-0.25298426	0.12499443	-1.93926497
PTGES	-0.25296788	0.12501574	-1.93913089
PFN3	-0.25295188	0.12503749	-1.93899985
VASH1	-0.25293537	0.12505467	-1.93886464
CENPP	-0.25291939	0.12505467	-1.93873374
FAM160B1	0.25292138	0.12505467	1.93875002
HIST1H4H	0.25292290	0.12505467	1.93876251
BBS10	0.25289783	0.12508874	1.93855721
LATS1	0.25289036	0.12509159	1.93849603
CCT8L1	-0.25283368	0.12518982	-1.93803189
KIRREL	-0.25283958	0.12518982	-1.93808022
EXOC7	0.25282739	0.12519007	1.93798034
ANKRD24	-0.25278823	0.12524948	-1.93765971
GPRC6A	-0.25278906	0.12524948	-1.93766654
AKAP14	0.25277473	0.12526572	1.93754915
TWSG1	0.25276599	0.12526681	1.93747764
PSMF1	0.25276188	0.12526681	1.93744393
CCL24	-0.25274455	0.12529153	-1.93730207
CLEC4F	-0.25267751	0.12542660	-1.93675316

RIMKLB	0.25262721	0.12552459	1.93634132	
RAB27A	0.25261066	0.12554763	1.93620581	
VPS26A	0.25257888	0.12560453	1.93594560	
RAP1GAP	-0.25256789	0.12561521	-1.93585565	
SNORD52	0.25254796	0.12564579	1.93569246	
MTCP1	0.25253661	0.12565728	1.93559956	
C10orf46	0.25250966	0.12570346	1.93537894	yes
LOC100131507	-0.25246325	0.12570948	-1.93499897	
CLCN3	0.25245748	0.12570948	1.93495177	
TMEM192	0.25248549	0.12570948	1.93518105	
OR10J1	-0.25249811	0.12570948	-1.93528436	
MRPL50	0.25246811	0.12570948	1.93503881	
ARNTL2	0.25245136	0.12570948	1.93490166	
ZNF826	-0.25248499	0.12570948	-1.93517693	
RP3-402G11.5	-0.25245660	0.12570948	-1.93494459	
EIF3H	0.25248141	0.12570948	1.93514767	
FOXE1	-0.25239522	0.12582062	-1.93444212	
LOC150622	-0.25234527	0.12591807	-1.93403322	
HN1	0.25231634	0.12596873	1.93379645	
GLCC1	0.25229247	0.12600815	1.93360103	
PRMT3	0.25227189	0.12604025	1.93343258	
STK32A	-0.25221790	0.12612243	-1.93299068	
FLJ42177	0.25221649	0.12612243	1.93297916	
C8A	-0.25221772	0.12612243	-1.93298923	
SOCS4	0.25220400	0.12613651	1.93287694	
LOC100133396	-0.25218659	0.12614741	-1.93273447	
KIAA1486	-0.25218470	0.12614741	-1.93271897	
HHIP	-0.25218059	0.12614741	-1.93268534	
FAM32A	0.25217312	0.12615031	1.93262418	
PRPF38A	0.25216505	0.12615455	1.93255811	
WDFY3	0.25211080	0.12624798	1.93211420	
NDUFA12	0.25211454	0.12624798	1.93214480	
TSPAN32	-0.25208857	0.12628381	-1.93193227	

PAGE2	-0.25204179	0.12636067	-1.93154940
VPS8	0.25204367	0.12636067	1.93156477
LOC90826	0.25202976	0.12637374	1.93145099
KREMEN1	0.25200774	0.12640912	1.93127079
HYLS1	0.25197417	0.12645743	1.93099602
KIAA1009	0.25197377	0.12645743	1.93099281
ENOX2	0.25189123	0.12660049	1.93031740
ADRM1	0.25189205	0.12660049	1.93032410
CCDC135	0.25189654	0.12660049	1.93036085
C3orf23	0.25186391	0.12664777	1.93009387
OLAH	-0.25184408	0.12665074	-1.92993161
ZDBF2	0.25184426	0.12665074	1.92993304
EI24	0.25185595	0.12665074	1.93002867
SERPING1	-0.25177409	0.12679349	-1.92935895
PLA2G2E	-0.25170653	0.12692978	-1.92880621
C2orf70	-0.25169471	0.12692978	-1.92870946
KRT3	-0.25169705	0.12692978	-1.92872865
MPZL2	0.25167773	0.12695335	1.92857060
MCHR2	-0.25167185	0.12695335	-1.92852243
PRMT1	0.25165019	0.12698805	1.92834524
PPM2C	0.25161768	0.12704707	1.92807931
KCTD1	0.25160909	0.12704976	1.92800900
ACACA	0.25159798	0.12704976	1.92791818
UNC119	-0.25160308	0.12704976	-1.92795988
BCAS2	0.25157650	0.12705646	1.92774245
RGL3	-0.25158824	0.12705646	-1.92783847
LOC728545	-0.25157821	0.12705646	-1.92775645
LOC442028	-0.25155482	0.12709123	-1.92756509
THUMPD2	0.25153487	0.12712215	1.92740186
C5orf26	-0.25151747	0.12713352	-1.92725953
SNORA45	-0.25151862	0.12713352	-1.92726894
ADARB1	-0.25149553	0.12715555	-1.92708007
ZNF827	-0.25148194	0.12715555	-1.92696892

LEMD2	-0.25147982	0.12715555	-1.92695162	
MOBK13	0.25147627	0.12715555	1.92692259	
MAGEB2	-0.25148241	0.12715555	-1.92697280	
NARS	0.25147068	0.12715555	1.92687683	
WNT8A	-0.25143386	0.12721048	-1.92657566	
CES2	0.25143723	0.12721048	1.92660325	
HUS1B	-0.25142427	0.12721819	-1.92649719	
GLCE	0.25141140	0.12723323	1.92639195	
KCNA4	-0.25138600	0.12726259	-1.92618415	
LOC644083	-0.25139118	0.12726259	-1.92622656	
GRK4	-0.25136496	0.12726836	-1.92601209	
NUDT12	0.25136745	0.12726836	1.92603247	
ISG15	-0.25137661	0.12726836	-1.92610740	
C19orf25	-0.25135096	0.12727423	-1.92589761	
TTF1	0.25135003	0.12727423	1.92589001	
ATP5L	0.25127992	0.12741775	1.92531656	
PSORS1C1	-0.25124322	0.12748633	-1.92501642	
CDH9	-0.25119972	0.12755640	-1.92466066	
ZWILCH	0.25119989	0.12755640	1.92466208	
SNORD50A	-0.25115678	0.12763907	-1.92430950	
IFNE	0.25113394	0.12767658	1.92412273	
SIAH1	0.25109962	0.12773991	1.92384209	
NENF	-0.25107760	0.12776465	-1.92366209	yes
CYTH1	0.25107631	0.12776465	1.92365150	
GNMT	-0.25106498	0.12777175	-1.92355887	
ARR3	-0.25106085	0.12777175	-1.92352508	
MRPL1	0.25097275	0.12794233	1.92280470	
GPR137B	0.25097334	0.12794233	1.92280954	
PPARGC1B	-0.25093479	0.12800427	-1.92249438	
PIGY	0.25093294	0.12800427	1.92247924	
LASS5	0.25091442	0.12803213	1.92232781	
HINFP	0.25090038	0.12804991	1.92221299	
IL12B	-0.25086145	0.12809604	-1.92189472	

ERAF	-0.25086589	0.12809604	-1.92193103
C8orf49	-0.25086781	0.12809604	-1.92194675
MED12L	-0.25084581	0.12810356	-1.92176689
COL16A1	-0.25084912	0.12810356	-1.92179390
CAPN7	0.25081746	0.12815067	1.92153512
TRGV5	-0.25081261	0.12815067	-1.92149545
IL8	0.25076047	0.12825437	1.92106922
ADCY2	0.25073094	0.12826552	1.92082776
RPL18AP6	-0.25073154	0.12826552	-1.92083270
MRPS14	0.25073762	0.12826552	1.92088234
RPL27P2	-0.25074084	0.12826552	-1.92090870
HES1	-0.25071012	0.12828474	-1.92065759
DYNLRB2	0.25071148	0.12828474	1.92066874
PIN1L	-0.25068460	0.12832845	-1.92044897
C1orf186	-0.25067103	0.12833134	-1.92033800
ZNF224	0.25067716	0.12833134	1.92038816
C1GALT1	0.25065855	0.12834563	1.92023601
SNX12	0.25064264	0.12836766	1.92010596
DSCR8	-0.25063449	0.12837219	-1.92003934
MGC16703	0.25059815	0.12841262	1.91974227
CCDC96	0.25059853	0.12841262	1.91974537
MED21	0.25059838	0.12841262	1.91974421
USP37	0.25058770	0.12842232	1.91965691
FAM13A	0.25057025	0.12844786	1.91951424
RIOK2	0.25054845	0.12848322	1.91933602
PHYHIP	-0.25051109	0.12855371	-1.91903072
OR6C3	-0.25047207	0.12861412	-1.91871177
PAGE1	-0.25047713	0.12861412	-1.91875314
LRRC20	-0.25041894	0.12872034	-1.91827752
HMBS	0.25040106	0.12874688	1.91813141
RPL24	0.25037846	0.12877021	1.91794674
SELENBP1	0.25038364	0.12877021	1.91798906
FLJ35409	-0.25034961	0.12880770	-1.91771092

FAM110A	-0.25034982	0.12880770	-1.91771265
PP14571	-0.25030119	0.12890336	-1.91731525
RAB3IP	0.25026339	0.12897504	1.91700634
ZNF391	0.25025344	0.12898367	1.91692503
ST8SIA6	-0.25021055	0.12906692	-1.91657452
SNORD41	-0.25018779	0.12910456	-1.91638859
OR1S2	-0.25016732	0.12912508	-1.91622131
TMEM80	0.25015898	0.12912508	1.91615317
C10orf84	0.25016080	0.12912508	1.91616806
SLC30A1	0.25014804	0.12912508	1.91606379
EIF2B2	0.25015228	0.12912508	1.91609846
ODF2	0.25010192	0.12921572	1.91568693
ACVR2A	0.25008756	0.12923435	1.91556964
UBE2K	0.25005600	0.12927810	1.91531175
IFNW1	-0.25005880	0.12927810	-1.91533466
FGF14	0.24999261	0.12940800	1.91479387
TMEM65	0.24997793	0.12942740	1.91467391
MIA	-0.24993407	0.12951306	-1.91431557
ZNF189	0.24992121	0.12952834	1.91421049
TGM2	0.24989425	0.12957467	1.91399023
SGIP1	-0.24988853	0.12957467	-1.91394358
CUBN	0.24986951	0.12959002	1.91378814
CHCHD5	0.24987186	0.12959002	1.91380738
UTP23	0.24985826	0.12960165	1.91369622
NEDD4L	0.24981697	0.12966760	1.91335895
SCD5	-0.24982015	0.12966760	-1.91338492
KCNIP2	-0.24974358	0.12982053	-1.91275951
RPS15A	0.24972395	0.12985124	1.91259916
C11orf85	-0.24966982	0.12996050	-1.91215701
C6orf115	0.24963005	0.13003710	1.91183219
FLJ43826	-0.24962303	0.13003913	-1.91177481
KIAA0090	0.24958347	0.13011529	1.91145172
GRSF1	0.24951061	0.13023119	1.91085668

OR2W3	-0.24950809	0.13023119	-1.91083610	
NDUFB1	0.24950849	0.13023119	1.91083938	
MBOAT4	-0.24951904	0.13023119	-1.91092549	
NUP35	0.24947202	0.13029949	1.91054150	
MOSPD2	0.24945890	0.13030793	1.91043433	
CCDC60	0.24945605	0.13030793	1.91041107	
PRSS35	-0.24943932	0.13031810	-1.91027448	
LCN12	-0.24944537	0.13031810	-1.91032383	
LIPJ	-0.24942054	0.13034698	-1.91012107	
FAM168B	0.24936667	0.13042794	1.90968117	
IQCF1	-0.24936782	0.13042794	-1.90969057	
DNTTIP2	0.24937682	0.13042794	1.90976407	
KCNJ6	-0.24924761	0.13068594	-1.90870904	
C14orf50	0.24922529	0.13072191	1.90852672	
VHLL	-0.24921895	0.13072191	-1.90847500	
RPL28	0.24921349	0.13072191	1.90843039	
LOC100132014	-0.24917662	0.13077865	-1.90812935	
ACAT2	0.24917641	0.13077865	1.90812769	
KNG1	-0.24914258	0.13084203	-1.90785146	
ZNF226	0.24912679	0.13086414	1.90772253	
C11orf86	-0.24910210	0.13090661	-1.90752099	
CHUK	0.24906886	0.13096868	1.90724961	
SLC7A6	0.24903494	0.13103235	1.90697263	
FSIP1	0.24902576	0.13103934	1.90689770	
KLHDC7A	-0.24901840	0.13104214	-1.90683764	
RICS	0.24899942	0.13107159	1.90668269	yes
UGT2B7	-0.24898313	0.13109487	-1.90654971	
SNORD36A	0.24896040	0.13111886	1.90636416	
THYN1	0.24896239	0.13111886	1.90638038	
FLJ20444	-0.24892870	0.13117748	-1.90610538	
JOSD2	-0.24891994	0.13118005	-1.90603390	
LIN7C	0.24891532	0.13118005	1.90599617	
FLJ44477	-0.24887102	0.13126758	-1.90563458	

SMARCAD1	0.24886071	0.13127717	1.90555043
TULP4	0.24882083	0.13135463	1.90522484
PTPRZ1	0.24881085	0.13136346	1.90514341
MEGF10	-0.24876956	0.13144417	-1.90480641
KRT12	-0.24876273	0.13144578	-1.90475069
CLK2P	-0.24869774	0.13158099	-1.90422024
CCL16	-0.24868118	0.13160496	-1.90408509
C10orf97	0.24864750	0.13166830	1.90381020
SNX5	0.24860550	0.13175080	1.90346740
CIB2	-0.24857455	0.13180790	-1.90321483
SIRPB2	-0.24856130	0.13181018	-1.90310673
PMS2L4	0.24856647	0.13181018	1.90314889
MAPRE3	0.24854363	0.13183676	1.90296249
FBXL5	0.24852854	0.13185737	1.90283938
B4GALT4	0.24848928	0.13193364	1.90251902
HAO2	-0.24843394	0.13203287	-1.90206746
ZFAND2A	0.24843817	0.13203287	1.90210191
CSN2	-0.24842119	0.13204813	-1.90196341
SPEF1	0.24841393	0.13205074	1.90190418
SFRS2	0.24839060	0.13209040	1.90171376
MRGPRX3	-0.24828902	0.13219659	-1.90088494
AGAP11	-0.24831638	0.13219659	-1.90110816
TPRX1	-0.24829993	0.13219659	-1.90097396
KRTAP13-4	-0.24832416	0.13219659	-1.90117170
C19orf51	0.24828329	0.13219659	1.90083826
RAB8A	0.24831675	0.13219659	1.90111125
C8orf55	-0.24828953	0.13219659	-1.90088916
hCG_1732469	-0.24830809	0.13219659	-1.90104060
OR2G3	-0.24832672	0.13219659	-1.90119257
BANF1	-0.24829350	0.13219659	-1.90092154
C21orf30	-0.24826136	0.13223306	-1.90065927
EHMT1	0.24824524	0.13225610	1.90052780
PTGER4	0.24822394	0.13229112	1.90035398

FRS3	-0.24821604	0.13229522	-1.90028954	
ATL3	0.24818342	0.13235636	1.90002341	
DEGS2	0.24817070	0.13237159	1.89991963	
PRPF4B	0.24815271	0.13239898	1.89977289	
CCNYL3	-0.24811150	0.13248000	-1.89943667	
FBXO9	0.24806447	0.13257447	1.89905306	
ITGA7	-0.24800846	0.13268978	-1.89859614	yes
LRPPRC	0.24790020	0.13291190	1.89771312	
CRH	-0.24790105	0.13291190	-1.89772008	yes
CLCNKA	-0.24779392	0.13314392	-1.89684625	
OK/SW-CL.36	-0.24773865	0.13325786	-1.89639555	
KIAA0040	0.24769219	0.13335145	1.89601668	
ZNF618	-0.24755109	0.13364114	-1.89486602	
RPL36	-0.24754911	0.13364114	-1.89484984	
PTCHD3	-0.24756006	0.13364114	-1.89493918	
PIGK	0.24751825	0.13368440	1.89459827	
HEATR4	-0.24752395	0.13368440	-1.89464474	
SETX	0.24749154	0.13373228	1.89438044	
CASP12	-0.24746106	0.13375025	-1.89413190	
RHOBTB2	-0.24744708	0.13375025	-1.89401795	
KRT9	-0.24746365	0.13375025	-1.89415307	
NRL	-0.24745156	0.13375025	-1.89405448	
C11orf57	0.24745586	0.13375025	1.89408956	
PSG3	-0.24747460	0.13375025	-1.89424230	
RPL23AP12	-0.24740982	0.13382269	-1.89371415	
PIM2	0.24738163	0.13385980	1.89348431	
C11orf74	0.24738738	0.13385980	1.89353120	
EPS8L3	-0.24735163	0.13391537	-1.89323976	
ZFP30	0.24732640	0.13395987	1.89303404	
AGFG1	0.24728972	0.13403105	1.89273498	
GADD45B	-0.24728137	0.13403623	-1.89266696	
SLC25A20	0.24721149	0.13418484	1.89209725	
HCG9	-0.24720368	0.13418878	-1.89203358	

LTB	-0.24718197	0.13422512	-1.89185662	
RGNEF	0.24716390	0.13424214	1.89170932	
CSRP3	-0.24716244	0.13424214	-1.89169738	
B2M	0.24713789	0.13427085	1.89149728	
FUBP1	0.24714185	0.13427085	1.89152960	
ACSL1	-0.24712336	0.13429047	-1.89137884	
SOD1	0.24710951	0.13430849	1.89126599	yes
FAM123A	-0.24707090	0.13438003	-1.89095124	
VAC14	0.24706480	0.13438003	1.89090150	
BXDC5	0.24706050	0.13438003	1.89086648	
PGA5	-0.24703986	0.13441393	-1.89069823	
OR7E24	-0.24701922	0.13444783	-1.89053001	
CLEC12B	-0.24701179	0.13445092	-1.89046940	
UBXN11	0.24700286	0.13445748	1.89039665	
ZNF383	0.24698886	0.13447075	1.89028257	
SYT8	-0.24698495	0.13447075	-1.89025063	
OR56A1	-0.24697019	0.13447665	-1.89013037	
KRT81	-0.24697477	0.13447665	-1.89016772	
FLJ25006	0.24690682	0.13459609	1.88961390	
C6orf48	0.24691203	0.13459609	1.88965633	
MIER3	0.24687015	0.13463562	1.88931504	
PHGDH	-0.24688187	0.13463562	-1.88941055	
ODAM	-0.24686545	0.13463562	-1.88927675	
TEAD1	0.24687466	0.13463562	1.88935175	
RAB3C	-0.24677893	0.13482360	-1.88857165	
SEMA6B	-0.24675920	0.13485547	-1.88841083	yes
PIGZ	-0.24674309	0.13487885	-1.88827960	
AHNAK2	0.24672940	0.13489659	1.88816803	
RBL2	0.24669741	0.13495716	1.88790732	
C20orf85	0.24668212	0.13497864	1.88778273	
GPR162	0.24664594	0.13504905	1.88748791	
C5orf37	0.24662776	0.13507731	1.88733980	
CARD10	-0.24660169	0.13510934	-1.88712739	yes

ATP7A	0.24659575	0.13510934	1.88707901	
WHSC1L1	0.24659719	0.13510934	1.88709073	
CD22	-0.24657814	0.13513629	-1.88693551	yes
RAPGEF6	0.24651256	0.13527569	1.88640116	
LILRB5	-0.24650009	0.13529061	-1.88629954	
C8orf31	-0.24646058	0.13534026	-1.88597771	
C17orf97	0.24646246	0.13534026	1.88599300	
ADAMTSL1	-0.24647218	0.13534026	-1.88607218	yes
GSG2	-0.24640515	0.13545600	-1.88552608	
CDR1	-0.24638987	0.13547752	-1.88540162	
USP15	0.24637110	0.13550725	1.88524868	
UPB1	-0.24635376	0.13553361	-1.88510743	
ELMO1	-0.24627494	0.13570442	-1.88446539	
CD160	-0.24624690	0.13575597	-1.88423697	
CLPX	0.24622086	0.13576058	1.88402482	
PWWP2A	-0.24622051	0.13576058	-1.88402196	
USP43	0.24622983	0.13576058	1.88409793	
MBOAT7	0.24622391	0.13576058	1.88404964	
SLC30A8	-0.24620275	0.13578797	-1.88387733	
C15orf45	-0.24618985	0.13580395	-1.88377223	
TTC19	0.24617956	0.13581378	1.88368844	
GART	0.24617151	0.13581835	1.88362286	
POU4F3	-0.24616251	0.13582517	-1.88354951	
MFSD8	0.24612151	0.13590722	1.88321563	
MANEA	0.24607904	0.13599280	1.88286972	
CDC37L1	0.24600387	0.13615545	1.88225745	
CCDC52	0.24598057	0.13619596	1.88206770	
GRIP2	-0.24595474	0.13624244	-1.88185735	
OR7G1	-0.24593653	0.13627097	-1.88170904	
NFIB	-0.24585725	0.13644355	-1.88106345	
ADFP	-0.24582117	0.13648265	-1.88076967	
PCNX	0.24583275	0.13648265	1.88086393	
C6orf191	-0.24581626	0.13648265	-1.88072963	

NPFF	-0.24582269	0.13648265	-1.88078198
DAPK1	-0.24580948	0.13648424	-1.88067441
SNCAIP	0.24578757	0.13652154	1.88049603
B3GALT5	-0.24574889	0.13658404	-1.88018106
VPS45	0.24575429	0.13658404	1.88022502
ORC2L	0.24572768	0.13661972	1.88000834
C16orf35	0.24572013	0.13662312	1.87994692
C1QTNF3	-0.24570280	0.13664964	-1.87980579
EPHB2	-0.24569140	0.13666215	-1.87971296
POLH	0.24567694	0.13668190	1.87959519
PCDHGA2	-0.24563251	0.13677247	-1.87923346
LIMS1	0.24562495	0.13677590	1.87917194
TSP50	-0.24560661	0.13680483	-1.87902262
KLHL9	0.24555530	0.13689731	1.87860484
S100A10	0.24555795	0.13689731	1.87862640
ATP9A	0.24544706	0.13713904	1.87772371
GRIA2	-0.24541901	0.13719102	-1.87749538
KTN1	0.24537030	0.13729201	1.87709880
ZNF286A	0.24532467	0.13738571	1.87672744
SNORD115-7	-0.24529334	0.13744555	-1.87647241
TUBA3E	-0.24525731	0.13748882	-1.87617910
ANAPC13	0.24525656	0.13748882	1.87617305
ADAMTSL5	-0.24525857	0.13748882	-1.87618935
OR3A1	-0.24524007	0.13748882	-1.87603877
CABP4	-0.24524100	0.13748882	-1.87604638
SOD2	0.24523849	0.13748882	1.87602592
CSNK2A2	0.24523048	0.13749334	1.87596077
MYH6	-0.24517737	0.13757595	-1.87552848
SP1	0.24518023	0.13757595	1.87555174
ATPBD4	0.24518381	0.13757595	1.87558085
TMPRSS3	0.24515807	0.13760729	1.87537139
GOLSYN	0.24513974	0.13763632	1.87522223
CDH15	-0.24509486	0.13772844	-1.87485694

TNNC2	-0.24508863	0.13772875	-1.87480624
OR4L1	-0.24507962	0.13773567	-1.87473289
TPRG1L	0.24503450	0.13782840	1.87436570
TNNI2	-0.24499482	0.13790822	-1.87404284
BCL7B	-0.24491543	0.13806808	-1.87339682
MED14	0.24491629	0.13806808	1.87340379
PRDM7	-0.24489975	0.13808957	-1.87326918
TALDO1	0.24489421	0.13808957	1.87322407
UBA3	0.24486568	0.13814296	1.87299195
CYP4A11	-0.24475505	0.13839203	-1.87209181
MRPL20	0.24473358	0.13842868	1.87191713
BIRC6	0.24470771	0.13847584	1.87170663
C10orf134	0.24468854	0.13850701	1.87155069
CCDC19	0.24465156	0.13856615	1.87124980
FLJ16686	0.24465371	0.13856615	1.87126727
COPS2	0.24461327	0.13864299	1.87093832
DTX2	0.24459992	0.13866031	1.87082967
BRD8	0.24459232	0.13866388	1.87076790
MAPK1	0.24454434	0.13876390	1.87037759
SQSTM1	0.24453769	0.13876524	1.87032343
CYP51A1	-0.24450981	0.13878582	-1.87009668
ZDHHC17	0.24451162	0.13878582	1.87011137
AOC2	-0.24452279	0.13878582	-1.87020227
CENPT	-0.24450468	0.13878582	-1.87005491
SPINT2	0.24449707	0.13878944	1.86999300
LOC129293	-0.24448708	0.13879874	-1.86991175
EIF4A1	0.24447391	0.13881564	1.86980462
XCL2	-0.24444290	0.13887296	-1.86955235
C12orf62	0.24443773	0.13887296	1.86951035
LAGE3	-0.24442977	0.13887742	-1.86944559
FLJ40194	-0.24440340	0.13892588	-1.86923112
FLJ45256	-0.24438064	0.13896575	-1.86904592
SUCLA2	0.24435150	0.13900668	1.86880895

INTS4	0.24435133	0.13900668	1.86880757
MAP2K6	0.24430157	0.13911114	1.86840287
HAPLN1	-0.24428885	0.13911242	-1.86829939
SLC24A2	-0.24429391	0.13911242	-1.86834057
C16orf81	-0.24427522	0.13913046	-1.86818850
C1orf144	0.24426476	0.13914090	1.86810348
C5	0.24423190	0.13920499	1.86783617
SLCO4C1	0.24417644	0.13932322	1.86738516
KIAA1147	0.24414116	0.13939314	1.86709829
ABHD11	0.24413487	0.13939362	1.86704710
MCM9	0.24411601	0.13942422	1.86689372
EID1	0.24405379	0.13954419	1.86638778
CAND1	0.24405500	0.13954419	1.86639759
ZNF420	0.24402086	0.13959396	1.86611997
SLC7A14	-0.24402233	0.13959396	-1.86613194
ITPKA	-0.24395356	0.13974087	-1.86557272
DFFB	-0.24392562	0.13976408	-1.86534551
DNAI1	0.24393012	0.13976408	1.86538217
FBXO18	0.24392859	0.13976408	1.86536969
C8orf84	-0.24388533	0.13981829	-1.86501792
CPAMD8	-0.24389525	0.13981829	-1.86509859
TMEM14E	-0.24388477	0.13981829	-1.86501339
LOC645978	-0.24382343	0.13995103	-1.86451471
PAQR5	-0.24380051	0.13999149	-1.86432835
IMP4	0.24378478	0.14001467	1.86420044
POM121L3P	-0.24375368	0.14007482	-1.86394757
SPO11	-0.24370568	0.14017565	-1.86355735
SDCCAG1	0.24367610	0.14023217	1.86331693
KCNH7	-0.24366573	0.14024247	-1.86323263
PMM1	0.24365465	0.14025449	1.86314254
GIMAP1	-0.24364234	0.14026947	-1.86304245
LOC100130285	-0.24361940	0.14031005	-1.86285594
LRRC23	0.24360095	0.14033980	1.86270601

C6orf27	0.24358861	0.14035486	1.86260569
TSNAXIP1	0.24353940	0.14045875	1.86220567
TMEM61	-0.24352514	0.14047845	-1.86208975
PENK	-0.24350139	0.14052101	-1.86189674
C7orf25	0.24349437	0.14052327	1.86183962
MAX	0.24343472	0.14062734	1.86135479
LOC729808	-0.24343294	0.14062734	-1.86134036
WNT8B	-0.24344039	0.14062734	-1.86140093
TNMD	-0.24342369	0.14063497	-1.86126520
PPP3R1	0.24341657	0.14063746	1.86120732
GATM	-0.24338052	0.14070975	-1.86091432
LOC100133337	0.24333110	0.14077027	1.86051264
LOC100129737	-0.24333661	0.14077027	-1.86055739
SMAD5	0.24334749	0.14077027	1.86064583
MARK3	0.24333793	0.14077027	1.86056811
WNK3	-0.24331601	0.14079199	-1.86039003
PUS10	0.24327469	0.14087708	1.86005418
CDRT15	-0.24326190	0.14089328	-1.85995020
MCTS1	0.24325451	0.14089642	1.85989018
FOXJ1	0.24324104	0.14090329	1.85978069
DCP1A	0.24323950	0.14090329	1.85976817
APOM	-0.24322347	0.14091411	-1.85963794
LOC645195	-0.24322285	0.14091411	-1.85963292
LOC100129503	-0.24319250	0.14096112	-1.85938626
MEST	-0.24319123	0.14096112	-1.85937591
SCN2A	-0.24307510	0.14122715	-1.85843227
PVRL4	0.24305239	0.14126738	1.85824772
TFCP2L1	-0.24301375	0.14133144	-1.85793380
MRO	-0.24301960	0.14133144	-1.85798128
BLZF1	0.24297250	0.14141658	1.85759865
SCARNA7	0.24295521	0.14144374	1.85745810
LOC100133372	-0.24293361	0.14146336	-1.85728263
DDX10	0.24292625	0.14146336	1.85722285

SPAG17	0.24292254	0.14146336	1.85719270
USP12	-0.24292752	0.14146336	-1.85723314
C9orf47	-0.24291061	0.14146336	-1.85709581
DRG1	0.24291494	0.14146336	1.85713097
C1orf122	-0.24289427	0.14148822	-1.85696301
CDH17	-0.24288412	0.14148870	-1.85688055
SRXN1	0.24288191	0.14148870	1.85686264
YIPF1	0.24284401	0.14155259	1.85655471
SNORD49B	0.24284338	0.14155259	1.85654958
C14orf182	-0.24278061	0.14164836	-1.85603967
RELL2	-0.24279513	0.14164836	-1.85615757
LOC348840	-0.24277955	0.14164836	-1.85603104
RAB3D	-0.24278573	0.14164836	-1.85608125
MAS1L	-0.24277342	0.14164850	-1.85598123
RNF152	-0.24275104	0.14168802	-1.85579941
KCTD2	-0.24273120	0.14172140	-1.85563823
C18orf20	-0.24270669	0.14176610	-1.85543913
ZNF137	0.24268759	0.14179684	1.85528398
ZNF503	-0.24268186	0.14179684	-1.85523746
LOC100131195	-0.24266039	0.14181693	-1.85506305
RAB32	-0.24265344	0.14181693	-1.85500659
DPPA2	-0.24263891	0.14181693	-1.85488852
PRKCD	0.24263714	0.14181693	1.85487415
LOC729800	-0.24266067	0.14181693	-1.85506528
ITGA10	-0.24263888	0.14181693	-1.85488829
MERTK	-0.24263042	0.14181703	-1.85481957
KIAA1881	-0.24261064	0.14181703	-1.85465890
CRELD2	-0.24261738	0.14181703	-1.85471368
CAPN6	-0.24260674	0.14181703	-1.85462723
LDOC1L	0.24261384	0.14181703	1.85468488
EPB41L1	0.24257903	0.14186952	1.85440217
GLMN	0.24253420	0.14196357	1.85403808
PTPRU	0.24250389	0.14202244	1.85379183

NDRG1	-0.24242441	0.14220076	-1.85314637
SORBS3	-0.24236457	0.14232241	-1.85266036
TMEM108	-0.24236224	0.14232241	-1.85264141
C2orf76	0.24231995	0.14241050	1.85229802
CDH18	-0.24230511	0.14241532	-1.85217750
ATP6VOD2	-0.24230146	0.14241532	-1.85214783
RASA1	0.24229976	0.14241532	1.85213405
KAT5	0.24226490	0.14248538	1.85185095
LMBRD1	0.24223295	0.14253361	1.85159151
COQ5	0.24223523	0.14253361	1.85161002
TRAPPC2L	0.24222572	0.14253642	1.85153283
MRI1	0.24221378	0.14255071	1.85143588
LOC342541	-0.24219532	0.14257272	-1.85128593
RALA	0.24219261	0.14257272	1.85126392
WDR53	0.24216622	0.14262221	1.85104963
BTBD6	-0.24215527	0.14263409	-1.85096077
F2	-0.24213966	0.14265734	-1.85083399
RPLP0	0.24211001	0.14271478	1.85059329
TMEM49	0.24206888	0.14280025	1.85025930
ILK	-0.24204119	0.14285297	-1.85003447
RAB38	0.24202887	0.14286823	1.84993442
C8orf80	-0.24201086	0.14289734	-1.84978825
RUNDC1	0.24198400	0.14293326	1.84957018
ZRANB1	0.24198644	0.14293326	1.84958994
SOX30	-0.24195732	0.14298225	-1.84935359
RGR	-0.24195179	0.14298225	-1.84930866
OR8G1	-0.24194478	0.14298456	-1.84925172
RSL24D1	0.24191847	0.14300572	1.84903819
EP400	0.24192522	0.14300572	1.84909293
ZNF41	-0.24191791	0.14300572	-1.84903360
LY9	-0.24189964	0.14303552	-1.84888525
PIGQ	0.24189065	0.14304265	1.84881230
KRTAP1-5	-0.24187516	0.14305085	-1.84868659

TOX	-0.24188094	0.14305085	-1.84873349
GPR81	-0.24185568	0.14308361	-1.84852840
RBM19	-0.24183206	0.14312647	-1.84833667
ATP6V1A	0.24181476	0.14314669	1.84819620
ZNF235	0.24181165	0.14314669	1.84817101
ALMS1	0.24178949	0.14317123	1.84799106
KALRN	-0.24179451	0.14317123	-1.84803184
C20orf26	0.24173048	0.14330055	1.84751210
ORC5L	0.24170814	0.14332551	1.84733078
LAPTM4A	0.24171317	0.14332551	1.84737155
FCHO2	0.24165766	0.14340093	1.84692103
OR1J4	-0.24165654	0.14340093	-1.84691189
LRRC10	-0.24165601	0.14340093	-1.84690758
DGAT2	-0.24165305	0.14340093	-1.84688360
BPGM	0.24159581	0.14351127	1.84641898
EFTUD1	0.24159732	0.14351127	1.84643128
REV1	0.24157639	0.14353461	1.84626136
SMARCA5	0.24157415	0.14353461	1.84624320
OR6K3	-0.24155513	0.14356631	-1.84608887
PLCG1	-0.24151507	0.14364953	-1.84576369
FKBP15	0.24150185	0.14366706	1.84565640
HPD	-0.24149339	0.14367294	-1.84558778
PGLYRP2	-0.24148095	0.14368856	-1.84548683
KCNE3	0.24147380	0.14369125	1.84542875
C2orf77	0.24145034	0.14373385	1.84523839
PAQR6	-0.24140641	0.14382660	-1.84488191
PGK2	-0.24137899	0.14385479	-1.84465937
RFK	0.24137674	0.14385479	1.84464109
SGCG	-0.24138544	0.14385479	-1.84471172
HRH2	-0.24135824	0.14388527	-1.84449100
PET112L	0.24133691	0.14392271	1.84431790
KIAA2026	0.24129658	0.14400673	1.84399066
TLL3	0.24126090	0.14407939	1.84370108

SNX15	-0.24122856	0.14414386	-1.84343871	yes
EVC	-0.24121455	0.14416338	-1.84332506	
MLLT10	0.24120480	0.14417246	1.84324588	
C6orf72	0.24117957	0.14419341	1.84304118	
C2orf60	0.24118442	0.14419341	1.84308059	
CPNE3	0.24117810	0.14419341	1.84302928	
ISCA1	-0.24115347	0.14423899	-1.84282947	
LOC391081	-0.24114374	0.14424802	-1.84275053	
CCDC88B	-0.24111161	0.14431206	-1.84248979	
NSMAF	0.24109205	0.14434522	1.84233112	
BAZ1A	0.24106085	0.14440699	1.84207799	yes
GARNL1	0.24100200	0.14452711	1.84160054	
GSDMC	0.24099987	0.14452711	1.84158323	
FILIP1	0.24097962	0.14454643	1.84141899	
RNF186	-0.24097385	0.14454643	-1.84137220	
NMRAL1	-0.24097862	0.14454643	-1.84141084	
FAM82A2	0.24095918	0.14456762	1.84125317	
RCAN2	-0.24092025	0.14464847	-1.84093738	
UQCRQ	0.24090890	0.14466151	1.84084529	
DCHS1	-0.24086414	0.14475674	-1.84048221	
ZNF19	0.24085463	0.14476525	1.84040509	
BHMT2	-0.24082725	0.14481777	-1.84018294	
SFRS16	-0.24080439	0.14484425	-1.83999755	
FLYWCH1	-0.24080885	0.14484425	-1.84003371	
METAP1	0.24077238	0.14490816	1.83973792	
SPIN3	-0.24072617	0.14500060	-1.83936304	
PIGH	0.24072276	0.14500060	1.83933542	
OSBPL6	0.24068727	0.14507316	1.83904753	
BOP1	-0.24066301	0.14511805	-1.83885078	
ERP27	-0.24061939	0.14519577	-1.83849702	
EPB41L4B	0.24062396	0.14519577	1.83853413	
NOP58	0.24059102	0.14525083	1.83826693	
TRIM23	0.24058077	0.14526120	1.83818380	

CEACAM6	0.24055627	0.14530671	1.83798515
LOC100131017	-0.24051809	0.14538602	-1.83767552
ZCCHC17	0.24050475	0.14540404	1.83756728
TRPM7	0.24049425	0.14541503	1.83748214
GBP6	0.24048050	0.14543404	1.83737064
TRAV9-2	-0.24045641	0.14547860	-1.83717528
EPHB4	-0.24044740	0.14548592	-1.83710220
SEPHS1	0.24035010	0.14571143	1.83631323
DPYD	0.24033211	0.14574097	1.83616733
LGR6	-0.24029914	0.14580754	-1.83590007
MCHR1	-0.24027033	0.14586386	-1.83566647
HSD17B3	0.24026007	0.14587429	1.83558326
IRF9	0.24020962	0.14598422	1.83517419
C5orf34	0.24015983	0.14609256	1.83477052
TLE2	-0.24013274	0.14614470	-1.83455091
DCPS	0.24008318	0.14623756	1.83414914
CYTSB	-0.24008529	0.14623756	-1.83416622
ARSH	-0.24005680	0.14625928	-1.83393526
ANKDD1A	-0.24005628	0.14625928	-1.83393104
LRRC4C	-0.24006206	0.14625928	-1.83397787
NUP43	0.24004383	0.14627514	1.83383016
PDPN	-0.23999816	0.14636773	-1.83345987
MAP3K7	0.23998436	0.14636773	1.83334805
KIFC2	-0.23998232	0.14636773	-1.83333148
FIG4	0.23999057	0.14636773	1.83339840
NCKAP1	0.23993941	0.14645604	1.83298365
GPN3	0.23993464	0.14645604	1.83294498
LOC100049716	0.23992463	0.14646589	1.83286381
CYP4F8	-0.23991102	0.14648464	-1.83275356
ALG6	0.23990202	0.14649199	1.83268057
CCDC76	0.23987464	0.14654495	1.83245865
DUSP12	0.23986754	0.14654757	1.83240110
CLCA2	0.23985470	0.14656445	1.83229702

C12orf40	-0.23980562	0.14665633	-1.83189921
UBFD1	-0.23980935	0.14665633	-1.83192940
LCN1L1	-0.23977188	0.14672516	-1.83162570
TNRC18	-0.23976110	0.14673692	-1.83153836
SLC36A4	0.23971023	0.14684836	1.83112605
DSCR3	0.23968837	0.14688768	1.83094892
SCARNA8	-0.23967611	0.14690314	-1.83084957
LOC100133336	-0.23965314	0.14694526	-1.83066337
STX6	0.23964623	0.14694741	1.83060741
ALPPL2	-0.23962933	0.14696663	-1.83047042
LOC399744	-0.23961563	0.14696663	-1.83035939
NAP1L1	0.23961146	0.14696663	1.83032558
CXCR7	0.23960830	0.14696663	1.83030001
PSME1	0.23962054	0.14696663	1.83039924
SAAL1	0.23959490	0.14698495	1.83019138
NOC3L	0.23954543	0.14704792	1.82979056
CCDC28B	-0.23955409	0.14704792	-1.82986068
CD36	-0.23954982	0.14704792	-1.82982609
RNF10	0.23955423	0.14704792	1.82986179
CYP11A1	-0.23949472	0.14715913	-1.82937959
MAGEA8	-0.23948826	0.14716018	-1.82932726
C19orf59	-0.23946317	0.14720500	-1.82912396
SMAD5OS	-0.23945819	0.14720500	-1.82908355
C18orf51	-0.23944182	0.14723073	-1.82895093
OR5D18	-0.23933393	0.14748458	-1.82807678
SLC5A1	-0.23930154	0.14755032	-1.82781433
DMC1	-0.23925134	0.14763039	-1.82740759
OR10H2	-0.23926176	0.14763039	-1.82749205
RBP4	-0.23925450	0.14763039	-1.82743320
C1orf168	0.23920355	0.14773463	1.82702039
TCEA3	-0.23918940	0.14775489	-1.82690576
KLHL24	0.23917003	0.14778817	1.82674888
OR10A6	-0.23916260	0.14779167	-1.82668864

SNORA75	-0.23914958	0.14780909	-1.82658322	
FLJ39061	0.23912242	0.14784679	1.82636316	
HOXA1	-0.23912295	0.14784679	-1.82636747	
ZBTB1	0.23910420	0.14787723	1.82621556	
ATP11B	0.23909539	0.14788417	1.82614419	
MAGI2	-0.23908289	0.14790032	-1.82604291	
ZNF737	0.23903509	0.14799838	1.82565575	
ODZ4	0.23903159	0.14799838	1.82562735	
EMG1	0.23900242	0.14805622	1.82539110	
RNF169	0.23899202	0.14806713	1.82530689	
TIFAB	-0.23893836	0.14818630	-1.82487218	
MFSD7	-0.23889772	0.14827290	-1.82454306	
LILRP2	-0.23888348	0.14829345	-1.82442768	
CH25H	0.23885677	0.14834522	1.82421139	
CKB	0.23882798	0.14837199	1.82397817	
NODAL	-0.23883131	0.14837199	-1.82400517	
MAP3K14	-0.23882999	0.14837199	-1.82399443	
RAB42	-0.23881650	0.14837633	-1.82388517	
BUB3	0.23881418	0.14837633	1.82386641	
BRD1	0.23877232	0.14846608	1.82352740	
ATP6V1E1	0.23876580	0.14846731	1.82347457	
FAM19A1	-0.23872221	0.14856143	-1.82312159	
ANO5	-0.23869807	0.14860685	-1.82292605	
ANKRD19	-0.23864729	0.14870617	-1.82251487	
EIF4G2	0.23864640	0.14870617	1.82250765	yes
C9orf126	0.23863536	0.14871873	1.82241827	
RGS21	-0.23858232	0.14882157	-1.82198871	
ZNFX1	0.23858765	0.14882157	1.82203186	
FTSJ3	0.23855606	0.14885720	1.82177610	
HMGCR	0.23855640	0.14885720	1.82177886	
C13orf30	0.23854463	0.14886979	1.82168354	
GALP	-0.23853899	0.14886979	-1.82163784	
CHRNA6	-0.23850327	0.14894433	-1.82134864	

CARD18	-0.23847499	0.14900022	-1.82111964	
LRRC68	-0.23846261	0.14901618	-1.82101938	
LIN7B	-0.23845263	0.14902609	-1.82093860	
CACNA1E	-0.23841204	0.14911294	-1.82060998	
CCL23	-0.23839597	0.14913818	-1.82047983	
C11orf63	0.23829414	0.14937916	1.81965542	
TUBG2	-0.23826179	0.14941560	-1.81939351	
SMAD3	0.23826158	0.14941560	1.81939176	
ZNF468	0.23826596	0.14941560	1.81942730	
FAM9B	-0.23824234	0.14943365	-1.81923607	
AKAP12	-0.23824710	0.14943365	-1.81927461	
ZBTB7A	-0.23821893	0.14947743	-1.81904652	
FLJ40504	-0.23818538	0.14954672	-1.81877497	
HTR3C	-0.23813733	0.14962223	-1.81838592	
PNMAL1	-0.23813943	0.14962223	-1.81840293	
SLC12A8	-0.23813771	0.14962223	-1.81838907	
NXF3	-0.23810080	0.14969911	-1.81809022	
SEPN1	-0.23808101	0.14973379	-1.81793005	
IL5	-0.23806635	0.14975556	-1.81781138	
B3GALT1	-0.23803048	0.14983082	-1.81752102	
LOC100131581	0.23797557	0.14995414	1.81707663	
PRNT	-0.23795158	0.14999948	-1.81688246	
TFAP4	-0.23785277	0.15023385	-1.81608275	
MAGEB17	-0.23782992	0.15027637	-1.81589780	
KPTN	-0.23779035	0.15036120	-1.81557752	
CSN1S2A	-0.23776503	0.15040998	-1.81537264	
FAM5C	-0.23771788	0.15050454	-1.81499112	
ZNF662	-0.23771560	0.15050454	-1.81497262	
SH3BP2	-0.23769397	0.15054402	-1.81479760	yes
BZW2	0.23766838	0.15059356	1.81459048	
SELM	-0.23761188	0.15072139	-1.81413330	yes
ZNF652	-0.23755612	0.15084744	-1.81368211	
C1orf69	-0.23752042	0.15089208	-1.81339326	

MARCH8	0.23753136	0.15089208	1.81348181	
ZNF133	-0.23752243	0.15089208	-1.81340956	
SAPS1	0.23750907	0.15090512	1.81330142	
DTWD2	0.23750322	0.15090512	1.81325407	
KRTAP19-3	-0.23741874	0.15110416	-1.81257057	
NSMCE2	0.23740156	0.15111716	1.81243159	
OR6Y1	-0.23740736	0.15111716	-1.81247852	
SYNE1	0.23739228	0.15112541	1.81235650	
DFFA	0.23737426	0.15115585	1.81221071	
TNS1	-0.23735847	0.15118062	-1.81208302	
RIT1	0.23732685	0.15124562	1.81182720	
CC2D1A	-0.23726283	0.15136232	-1.81130930	
DHTKD1	-0.23726321	0.15136232	-1.81131235	
ITM2B	0.23726325	0.15136232	1.81131265	
MAP1A	0.23725069	0.15137786	1.81121107	
TSSK1B	-0.23720830	0.15147031	-1.81086813	
CDKN2A	-0.23718897	0.15150413	-1.81071181	
DOK1	-0.23717331	0.15151330	-1.81058512	yes
VPS36	0.23717821	0.15151330	1.81062476	
NIN	0.23715516	0.15154059	1.81043832	
ZNF154	-0.23715053	0.15154059	-1.81040084	
SFTPD	-0.23709901	0.15165633	-1.80998411	
RBP2	-0.23707530	0.15170132	-1.80979239	
CDC20B	0.23706781	0.15170506	1.80973175	
SERPINB12	-0.23699583	0.15187301	-1.80914957	
SLC2A12	0.23694398	0.15197442	1.80873025	
CLLU1	-0.23694462	0.15197442	-1.80873543	
TNFSF10	0.23692330	0.15201178	1.80856298	
HSD3B2	-0.23690658	0.15202367	-1.80842779	
C10orf92	0.23690804	0.15202367	1.80843957	
REPS1	0.23687081	0.15209953	1.80813845	
SCFD2	0.23679878	0.15226791	1.80755600	
BARX2	-0.23674453	0.15239105	-1.80711729	

KIAA1468	0.23672420	0.15242759	1.80695288	yes
ZNF738	0.23669133	0.15249616	1.80668712	
ZNF510	0.23664785	0.15257649	1.80633550	
WDR77	0.23665204	0.15257649	1.80636940	
LOC100131613	-0.23662788	0.15261213	-1.80617406	
C16orf62	0.23661643	0.15262599	1.80608148	
DUSP5P	-0.23658614	0.15268807	-1.80583650	
HYDIN	0.23654825	0.15275414	1.80553021	
REG1B	-0.23655044	0.15275414	-1.80554786	
LIG4	0.23653790	0.15276521	1.80544650	
PLCZ1	-0.23651216	0.15281565	-1.80523842	
ENAM	-0.23644551	0.15297086	-1.80469956	
PPARA	-0.23641919	0.15302246	-1.80448679	
CACNA1B	-0.23641331	0.15302246	-1.80443925	
UBA6	0.23639113	0.15306387	1.80425988	
LOC222699	-0.23638126	0.15307370	-1.80418014	
DDR2	-0.23630951	0.15324218	-1.80360012	
TAS2R16	-0.23628880	0.15327866	-1.80343272	
LYNX1	-0.23628324	0.15327866	-1.80338773	
HMHA1	-0.23623628	0.15338367	-1.80300814	
SYT9	-0.23620616	0.15344552	-1.80276467	
UNC50	0.23613264	0.15360336	1.80217044	
INSL4	-0.23613338	0.15360336	-1.80217638	
NLRP13	-0.23604359	0.15381675	-1.80145071	
CDH6	-0.23602254	0.15385540	-1.80128056	
SPSB1	0.23600531	0.15388422	1.80114129	
FKTN	0.23598472	0.15392168	1.80097491	
USP24	0.23596644	0.15395323	1.80082712	
SLC30A4	-0.23595621	0.15396404	-1.80074445	
ANKRD13C	0.23595018	0.15396406	1.80069570	
TTC14	0.23593118	0.15398382	1.80054215	
DICER1	0.23593045	0.15398382	1.80053626	
ZNF790	0.23590135	0.15404320	1.80030113	

LOC100132728	0.23587620	0.15406142	1.80009788
VPS13B	0.23588479	0.15406142	1.80016732
PSG11	-0.23588120	0.15406142	-1.80013827
ALDH1B1	-0.23582060	0.15416031	-1.79964855
IQCF2	-0.23581370	0.15416031	-1.79959283
LIMK2	0.23581783	0.15416031	1.79962621
SIX6	-0.23582099	0.15416031	-1.79965173
EIF3F	0.23574786	0.15431443	1.79906081
TMBIM4	0.23573849	0.15432306	1.79898508
ITLN2	-0.23566739	0.15445790	-1.79841055
CYP2E1	-0.23567613	0.15445790	-1.79848118
SLC5A12	-0.23566210	0.15445790	-1.79836785
AP1M1	0.23566853	0.15445790	1.79841978
TBC1D22A	0.23560971	0.15457752	1.79794454
XDH	-0.23559443	0.15460141	-1.79782109
ARSB	-0.23557431	0.15462225	-1.79765855
NEFM	-0.23557862	0.15462225	-1.79769337
EFCAB4A	-0.23556000	0.15464364	-1.79754296
ATAD2B	0.23553965	0.15468065	1.79737847
ZHX3	-0.23552641	0.15469928	-1.79727153
PRKCI	-0.23548118	0.15480053	-1.79690615
CXorf42	0.23546947	0.15481522	1.79681157
FAM12A	-0.23543546	0.15485645	-1.79653674
SCUBE2	-0.23543651	0.15485645	-1.79654523
ORMDL1	0.23543656	0.15485645	1.79654566
WDR8	0.23540254	0.15492595	1.79627082
ADAM28	0.23539604	0.15492720	1.79621829
CD300E	-0.23537886	0.15495604	-1.79607954
MED18	0.23534522	0.15501188	1.79580781
TGIF1	-0.23534680	0.15501188	-1.79582053
MAP3K4	0.23530547	0.15509912	1.79548669
NHLRC2	0.23526887	0.15515436	1.79519105
C10orf31	-0.23526936	0.15515436	-1.79519499

REV3L	0.23526047	0.15515436	1.79512322	
CCDC90B	0.23525403	0.15515436	1.79507116	
STXBP3	0.23525505	0.15515436	1.79507943	
FASTKD1	0.23524341	0.15516626	1.79498541	
hCG_1776007	-0.23522336	0.15520257	-1.79482346	
OR52E6	-0.23519826	0.15523249	-1.79462072	
TMEM167B	0.23520160	0.15523249	1.79464772	
TRPC7	-0.23519375	0.15523249	-1.79458431	
MTAP	0.23517055	0.15527012	1.79439689	
CLEC6A	-0.23516718	0.15527012	-1.79436971	
PPM1J	-0.23516063	0.15527151	-1.79431679	
SNORD115-33	-0.23513032	0.15533439	-1.79407200	
WDR60	0.23509559	0.15540876	1.79379147	
LOC100131373	-0.23507336	0.15542991	-1.79361192	
UBOX5	0.23506938	0.15542991	1.79357982	
EYS	-0.23507075	0.15542991	-1.79359090	
C8orf45	0.23504868	0.15546795	1.79341265	
TBCEL	0.23503910	0.15547719	1.79333528	
GP6	-0.23502088	0.15550882	-1.79318814	
UNC13B	0.23500367	0.15552227	1.79304911	
OR1B1	-0.23500849	0.15552227	-1.79308803	
PACSIN2	0.23497721	0.15557524	1.79283547	
ZFPM2	-0.23495084	0.15561244	-1.79262249	
TMPPE	0.23495430	0.15561244	1.79265042	
HAO1	-0.23490258	0.15570640	-1.79223275	
JMJD2D	-0.23490776	0.15570640	-1.79227459	
ARID5A	-0.23484022	0.15585255	-1.79172924	
MS4A3	-0.23482876	0.15586671	-1.79163663	
INA	-0.23480957	0.15590092	-1.79148167	
ERCC6	0.23479909	0.15591251	1.79139709	
LRRC33	-0.23476480	0.15598591	-1.79112025	
LOC401433	-0.23474044	0.15603357	-1.79092351	
GPR124	-0.23472898	0.15604771	-1.79083103	yes

LOC100128178	-0.23471224	0.15605999	-1.79069583
SCARB1	-0.23471809	0.15605999	-1.79074307
PLEKHA2	0.23470568	0.15606143	1.79064284
PGM1	-0.23469345	0.15607759	-1.79054410
KIAA0947	0.23468083	0.15609475	1.79044225
METRNL	-0.23467211	0.15610181	-1.79037180
FLJ39639	-0.23461137	0.15622840	-1.78988143
C17orf90	-0.23461171	0.15622840	-1.78988414
PI4K2A	0.23456588	0.15633105	1.78951417
ITCH	0.23449206	0.15650747	1.78891822
MIF	0.23448101	0.15652059	1.78882899
CTRL	-0.23445472	0.15657338	-1.78861678
DHFRL1	0.23438651	0.15673539	1.78806615
TMEM149	-0.23437366	0.15675322	-1.78796241
FLJ13197	0.23420788	0.15716996	1.78662432
PTPN4	0.23419052	0.15719958	1.78648424
CCDC46	0.23417179	0.15723281	1.78633303
OR6C6	-0.23413767	0.15727483	-1.78605765
IGFBP6	-0.23414607	0.15727483	-1.78612549
AGK	0.23414078	0.15727483	1.78608277
PRPF18	0.23412675	0.15728766	1.78596951
LRRTM2	-0.23411708	0.15729723	-1.78589148
SFRS14	0.23409223	0.15733073	1.78569097
RAB5A	0.23409400	0.15733073	1.78570527
FLJ45743	-0.23408101	0.15734436	-1.78560041
ORM1	-0.23405655	0.15739258	-1.78540301
CCDC11	0.23403192	0.15740985	1.78520423
CXCL1	0.23403396	0.15740985	1.78522072
ZNF436	0.23403613	0.15740985	1.78523820
EXOC2	0.23401941	0.15741115	1.78510326
CLIP2	-0.23402073	0.15741115	-1.78511392
CNPY2	-0.23397110	0.15744228	-1.78471345
ATP5H	0.23397089	0.15744228	1.78471173

CHM	0.23397150	0.15744228	1.78471661	
HIGD2A	0.23397562	0.15744228	1.78474992	
TCTEX1D2	0.23396547	0.15744228	1.78466797	
GIMAP2	0.23398038	0.15744228	1.78478830	
C2orf58	-0.23396804	0.15744228	-1.78468875	
RNF5P1	-0.23393224	0.15751343	-1.78439986	
GNB1L	-0.23392037	0.15752879	-1.78430403	
KBTBD10	0.23387641	0.15762804	1.78394934	
PPP1R9B	-0.23386691	0.15763718	-1.78387271	
LRRC36	0.23385127	0.15763908	1.78374645	
KIAA1462	-0.23385444	0.15763908	-1.78377206	
SCYE1	0.23384818	0.15763908	1.78372156	
LOC100128693	0.23381829	0.15770158	1.78348037	
RNMT	0.23380858	0.15771129	1.78340200	
SEC61G	0.23378839	0.15774841	1.78323911	
POLE3	0.23376796	0.15775478	1.78307425	
WDR93	0.23377808	0.15775478	1.78315589	
TUFM	0.23376891	0.15775478	1.78308197	
NCAPD3	0.23375188	0.15776741	1.78294453	
UBE2Z	0.23375113	0.15776741	1.78293850	
PTPN23	-0.23372577	0.15781197	-1.78273388	
HSPA1L	0.23371771	0.15781197	1.78266881	
CWC15	0.23371012	0.15781197	1.78260757	
HOMER1	0.23371561	0.15781197	1.78265187	
ARID4B	0.23370228	0.15781677	1.78254438	
LOC284900	-0.23368754	0.15783968	-1.78242539	
SURF6	-0.23363414	0.15796379	-1.78199459	
CLK3	-0.23361313	0.15799942	-1.78182510	
PHOSPHO1	-0.23360854	0.15799942	-1.78178810	
GATAD2B	-0.23357660	0.15806741	-1.78153038	
ATG2B	0.23356893	0.15807179	1.78146851	
ENPEP	-0.23350009	0.15819384	-1.78091323	yes
WAPAL	0.23349838	0.15819384	1.78089941	

RNASEH2B	0.23350338	0.15819384	1.78093976
SLC16A4	-0.23351013	0.15819384	-1.78099415
ATP2A3	-0.23349010	0.15819984	-1.78083258
GPS2	-0.23345571	0.15827428	-1.78055522
SLC3A2	0.23342923	0.15832802	1.78034158
OR2M3	-0.23338414	0.15839586	-1.77997791
SLC31A1	0.23338278	0.15839586	1.77996689
PPP6C	0.23337940	0.15839586	1.77993961
RAB11FIP3	-0.23338605	0.15839586	-1.77999331
CCNC	0.23337092	0.15840239	1.77987122
WDR65	0.23335154	0.15843751	1.77971493
PROL1	-0.23328975	0.15858399	-1.77921656
ARL4A	0.23326828	0.15862465	1.77904336
KIF3B	0.23324264	0.15867627	1.77883654
LOC100131848	-0.23316501	0.15886454	-1.77821052
SNORD30	0.23315339	0.15887935	1.77811676
C20orf4	0.23314134	0.15887951	1.77801961
SPANXN1	-0.23314538	0.15887951	-1.77805218
C1orf92	0.23312831	0.15889803	1.77791450
RHOU	0.23312163	0.15889983	1.77786064
CLEC1A	-0.23307556	0.15900526	-1.77748912
OR51B2	-0.23305276	0.15904949	-1.77730524
TMEM115	0.23302644	0.15910298	1.77709303
DVL1	-0.23301132	0.15912702	-1.77697106
HOXB8	-0.23297835	0.15919806	-1.77670518
IGFL4	-0.23296575	0.15921547	-1.77660357
C9orf153	-0.23295975	0.15921550	-1.77655518
IAPP	-0.23294126	0.15923607	-1.77640613
MAML2	0.23293995	0.15923607	1.77639558
AASDH	0.23289590	0.15933635	1.77604035
TYRO3	-0.23287765	0.15936864	-1.77589322
CCDC108	0.23285258	0.15941894	1.77569105
RBP5	-0.23281834	0.15949341	-1.77541501

TREM2	-0.23279327	0.15954373	-1.77521288
C8orf44	0.23278415	0.15955198	1.77513935
CDC25C	-0.23275722	0.15960723	-1.77492220
LOXL1	-0.23274866	0.15961401	-1.77485318
UBXN2A	0.23274231	0.15961495	1.77480202
ZNF283	0.23272990	0.15963189	1.77470196
CERCAM	-0.23271834	0.15964660	-1.77460873
BMI1	0.23270666	0.15966161	1.77451462
C12orf72	0.23266756	0.15971160	1.77419939
ZNF260	0.23265778	0.15971160	1.77412053
SIAH2	-0.23267668	0.15971160	-1.77427288
PRAMEF2	-0.23266207	0.15971160	-1.77415513
SSRP1	0.23266307	0.15971160	1.77416314
FLJ23834	0.23264929	0.15971822	1.77405207
CA5B	0.23263672	0.15973560	1.77395072
ZNF417	-0.23262074	0.15976196	-1.77382194
BZW1	0.23261403	0.15976389	1.77376781
NME3	-0.23259809	0.15979017	-1.77363930
RAB18	0.23250310	0.16000945	1.77287354
KRT18P28	-0.23250849	0.16000945	-1.77291699
FOXR1	-0.23248845	0.16001728	-1.77275547
MAN1C1	-0.23248817	0.16001728	-1.77275319
ZNF385A	-0.23247842	0.16002721	-1.77267466
ZNF131	0.23247179	0.16002893	1.77262119
LOC100130815	-0.23243819	0.16005448	-1.77235034
TDRD9	-0.23244922	0.16005448	-1.77243926
ASAP3	-0.23245245	0.16005448	-1.77246532
ZNRF1	0.23244133	0.16005448	1.77237566
TTPAL	0.23242348	0.16007754	1.77223180
TSSK2	-0.23241217	0.16009164	-1.77214060
ZNF676	-0.23239148	0.16010962	-1.77197384
TYSND1	-0.23239758	0.16010962	-1.77202303
C3orf63	0.23238742	0.16010962	1.77194113

CA3	-0.23230098	0.16032239	-1.77124443	
YARS2	0.23229402	0.16032500	1.77118830	
SLC16A9	0.23223853	0.16043484	1.77074109	
LRRC32	-0.23224367	0.16043484	-1.77078254	
ITGA2	0.23223457	0.16043484	1.77070920	
FAM123C	-0.23221569	0.16046898	-1.77055707	
LGALS3BP	0.23220590	0.16047908	1.77047814	
SFI1	0.23219689	0.16048709	1.77040555	
FLJ38717	0.23218138	0.16051235	1.77028049	
NSUN4	0.23216322	0.16054459	1.77013418	
NHEDC1	-0.23212676	0.16060949	-1.76984035	
SPINK9	-0.23212752	0.16060949	-1.76984644	
LOC100129113	-0.23209008	0.16067498	-1.76954480	
EIF1AY	0.23209279	0.16067498	1.76956660	
LRRC57	0.23205466	0.16075303	1.76925932	
SLC12A7	0.23202143	0.16077729	1.76899157	
GABRR3	-0.23202546	0.16077729	-1.76902401	
CCDC141	-0.23201562	0.16077729	-1.76894474	yes
SH3RF3	-0.23202694	0.16077729	-1.76903597	
DUXA	-0.23203108	0.16077729	-1.76906932	
FXD1	-0.23196581	0.16089351	-1.76854340	
ENTHD1	-0.23195657	0.16090216	-1.76846896	
DEFB114	-0.23192270	0.16097616	-1.76819602	
LOC100128252	-0.23189047	0.16102997	-1.76793633	
RG9MTD1	0.23189198	0.16102997	1.76794849	
FUT5	-0.23184286	0.16114048	-1.76755274	
SNORD56B	0.23182523	0.16115557	1.76741065	
HSPA14	0.23182569	0.16115557	1.76741439	
RPS2P5	0.23179966	0.16119173	1.76720468	
ZBTB5	0.23180029	0.16119173	1.76720972	
GRK7	-0.23177771	0.16122701	-1.76702785	
TMSB4Y	-0.23177443	0.16122701	-1.76700137	
LOC100131554	-0.23171938	0.16135738	-1.76655791	

CYFIP2	0.23171307	0.16135827	1.76650708	
ZMYM2	0.23169277	0.16139635	1.76634352	
ZNF578	-0.23165349	0.16148489	-1.76602708	
LOC651963	-0.23163230	0.16151619	-1.76585639	
FATE1	-0.23162977	0.16151619	-1.76583601	
SH2D4A	0.23161486	0.16152409	1.76571586	
NRIP1	0.23162007	0.16152409	1.76575788	
FBXO45	0.23157687	0.16160925	1.76540984	
MOBKL2C	-0.23153030	0.16171728	-1.76503470	
PANX3	-0.23151542	0.16172382	-1.76491490	
SLC38A9	0.23150992	0.16172382	1.76487058	
KIAA1967	0.23151645	0.16172382	1.76492318	
FAM83E	-0.23149328	0.16175223	-1.76473651	
GFRA3	-0.23145360	0.16182608	-1.76441688	
AMT	0.23145927	0.16182608	1.76446255	
UBE2V2	0.23144473	0.16183379	1.76434547	
MAGEC1	-0.23142520	0.16186989	-1.76418817	
DKK3	-0.23140430	0.16190966	-1.76401982	
SLC6A14	0.23139566	0.16191220	1.76395022	
KRTAP22-1	-0.23139141	0.16191220	-1.76391598	
TMEM64	0.23135748	0.16198668	1.76364273	
LOC285735	0.23134945	0.16199217	1.76357805	
RPS4P21	-0.23129111	0.16213177	-1.76310815	
RS1	-0.23127408	0.16216124	-1.76297105	
SLAIN1	-0.23118786	0.16236194	-1.76227669	
SNORD5	0.23118691	0.16236194	1.76226905	
SNORA61	-0.23114349	0.16242373	-1.76191936	
UTRN	0.23113989	0.16242373	1.76189037	
MRP63	0.23115212	0.16242373	1.76198886	yes
HYAL3	-0.23114624	0.16242373	-1.76194148	
ADSSL1	0.23110432	0.16245995	1.76160390	
PSMA8	-0.23109648	0.16245995	-1.76154083	
FDFT1	0.23110857	0.16245995	1.76163813	

TOR1B	0.23110818	0.16245995	1.76163502
STS	0.23109931	0.16245995	1.76156359
C10orf65	-0.23107028	0.16249805	-1.76132985
KLHDC8B	-0.23107490	0.16249805	-1.76136703
TMEM176B	-0.23105492	0.16252313	-1.76120616
OR3A2	-0.23100419	0.16264272	-1.76079765
KISS1	-0.23098806	0.16265981	-1.76066777
RAB23	0.23098586	0.16265981	1.76065006
ANKRD46	0.23097469	0.16267371	1.76056014
TCTEX1D4	0.23095745	0.16270384	1.76042132
SLU7	0.23093774	0.16274059	1.76026259
PPPDE2	-0.23089979	0.16280846	-1.75995703
PDE6D	0.23089446	0.16280846	1.75991411
GPRC5B	-0.23089819	0.16280846	-1.75994413
N4BP2	0.23087594	0.16284202	1.75976503
TCEAL3	-0.23086325	0.16286000	-1.75966289
GBA	0.23082273	0.16295243	1.75933666
POMGNT1	-0.23079402	0.16301331	-1.75910547
ZNF589	0.23073974	0.16314265	1.75866849
C9orf80	0.23072118	0.16317637	1.75851909
COPG	0.23069079	0.16324180	1.75827444
ERMN	-0.23065498	0.16331191	-1.75798614
MDC1	-0.23065270	0.16331191	-1.75796777
RAB11FIP1	0.23063898	0.16333269	1.75785734
SOCS2	-0.23061166	0.16338992	-1.75763747
SYNPO2	-0.23059448	0.16342000	-1.75749911
AMPD1	-0.23057651	0.16345219	-1.75735448
FBXL6	-0.23043946	0.16380396	-1.75625135
THSD1P	0.23040881	0.16387027	1.75600465
TRAF7	0.23039184	0.16389983	1.75586810
GMCL1L	-0.23036802	0.16394781	-1.75567639
DPY19L1	0.23034364	0.16399730	1.75548017
NAT13	0.23032854	0.16401738	1.75535860

INTS5	-0.23032424	0.16401738	-1.75532404
LOC100132938	0.23030274	0.16404313	1.75515096
TMEM195	-0.23030599	0.16404313	-1.75517715
TNFRSF9	-0.23027116	0.16409900	-1.75489685
RNF17	-0.23027003	0.16409900	-1.75488775
FAIM	0.23022168	0.16421302	1.75449861
ITIH5L	-0.23021512	0.16421462	-1.75444585
ATP9B	0.23019807	0.16424444	1.75430868
PCDHB6	-0.23018984	0.16425055	-1.75424241
LOC100133346	0.23014682	0.16434997	1.75389626
ZNF69	-0.23014097	0.16434997	-1.75384918
TRADD	0.23011751	0.16439710	1.75366035
C6orf223	-0.23009350	0.16443942	-1.75346721
MDM4	0.23007920	0.16443942	1.75335209
PCDHGB1	-0.23008536	0.16443942	-1.75340169
HSD17B8	0.23007794	0.16443942	1.75334201
S100A7	-0.23006606	0.16445538	-1.75324634
SPATA2L	-0.23004922	0.16448467	-1.75311086
C14orf132	-0.22998904	0.16463073	-1.75262668
RBM33	-0.22995023	0.16470322	-1.75231439
MGC33894	-0.22995068	0.16470322	-1.75231799
LOC391764	-0.22984234	0.16497015	-1.75144632
CASQ2	-0.22983936	0.16497015	-1.75142237
FBXO7	0.22982174	0.16500162	1.75128061
DCK	0.22977506	0.16511157	1.75090507
MYEOV2	-0.22975581	0.16514746	-1.75075020
HHLA2	0.22970463	0.16525890	1.75033850
FAM98C	0.22970264	0.16525890	1.75032250
TJAP1	-0.22966294	0.16535011	-1.75000312
JMJD1C	0.22962037	0.16544751	1.74966072
SLC48A1	-0.22961500	0.16544751	-1.74961750
MGC21881	-0.22957774	0.16552624	-1.74931776
FCGBP	-0.22957397	0.16552624	-1.74928750

TTC6	0.22953929	0.16558785	1.74900850
JOSD1	0.22954456	0.16558785	1.74905090
IL1F7	-0.22951918	0.16562613	-1.74884679
C16orf75	-0.22943643	0.16581795	-1.74818120
GPR50	-0.22943827	0.16581795	-1.74819602
FLJ20184	0.22942133	0.16582457	1.74805972
GPSM3	-0.22941705	0.16582457	-1.74802534
KSR1	0.22941610	0.16582457	1.74801771
TRMT11	0.22936500	0.16594690	1.74760672
AOC3	-0.22934887	0.16597447	-1.74747699
LOC100131888	0.22930624	0.16607391	1.74713413
IGKV1D-8	-0.22928850	0.16607972	-1.74699145
IFNA5	-0.22929102	0.16607972	-1.74701177
TRIP11	0.22928622	0.16607972	1.74697311
TAF7L	-0.22924888	0.16615916	-1.74667288
IL1F9	-0.22924501	0.16615916	-1.74664176
CACHD1	0.22920027	0.16626440	1.74628200
CHD8	0.22917829	0.16630789	1.74610523
TCF20	-0.22907395	0.16657515	-1.74526621
GMCL1	0.22906128	0.16659339	1.74516433
UNQ6484	-0.22904351	0.16662550	-1.74502142
TIMM8A	0.22902010	0.16666376	1.74483321
ZNF705A	-0.22901752	0.16666376	-1.74481245
RPLP1P5	-0.22899904	0.16667874	-1.74466391
GYPA	-0.22899595	0.16667874	-1.74463902
ZNF680	0.22899413	0.16667874	1.74462440
MMP25	-0.22897958	0.16668590	-1.74450743
HIST1H4D	0.22898021	0.16668590	1.74451251
MARCH10	0.22895429	0.16668987	1.74430414
C2orf56	0.22895855	0.16668987	1.74433839
SLC20A1	0.22895991	0.16668987	1.74434930
BTNL8	-0.22896750	0.16668987	-1.74441033
FAM109B	-0.22893943	0.16670261	-1.74418464

GPR19	-0.22893770	0.16670261	-1.74417068
TCTE1	0.22889718	0.16679660	1.74384494
STXBP4	0.22886065	0.16687978	1.74355128
OR6B1	-0.22884878	0.16689589	-1.74345580
POU1F1	-0.22883262	0.16692366	-1.74332588
FN1	-0.22882522	0.16692757	-1.74326646
OR6C70	-0.22881438	0.16694089	-1.74317927
HNRNPA3	0.22876191	0.16706710	1.74275747
CCRK	0.22875016	0.16706710	1.74266299
ABI3	-0.22875155	0.16706710	-1.74267420
LRRC37A3	0.22874252	0.16707169	1.74260157
NAALADL2	0.22870452	0.16713554	1.74229610
MSL1	-0.22870122	0.16713554	-1.74226956
ERGIC2	0.22870669	0.16713554	1.74231355
GCOM1	-0.22868488	0.16716381	-1.74213828
SIGLEC11	-0.22865228	0.16722019	-1.74187624
JAK2	0.22865265	0.16722019	1.74187916
WDR48	0.22863128	0.16726122	1.74170737
XRCC4	0.22859507	0.16734368	1.74141636
RMND5B	0.22857510	0.16738189	1.74125586
MATK	-0.22856687	0.16738812	-1.74118967
HMGB1L1	-0.22850743	0.16753402	-1.74071189
PPAN	-0.22849528	0.16755093	-1.74061423
OR51G2	-0.22848093	0.16757385	-1.74049890
IQGAP3	-0.22844144	0.16766538	-1.74018154
ALG1	0.22842664	0.16768952	1.74006263
LOC100133327	-0.22840351	0.16773644	-1.73987670
NOB1	0.22839369	0.16774700	1.73979781
SGTB	-0.22837774	0.16777431	-1.73966960
OSM	-0.22835748	0.16781340	-1.73950676
LRRC58	0.22822372	0.16816279	1.73843187
GPR77	-0.22817254	0.16824692	-1.73802063
ATP6V0C	0.22816917	0.16824692	1.73799350

UCP3	-0.22817305	0.16824692	-1.73802467
FAM118B	0.22818297	0.16824692	1.73810439
CSTF2	0.22815192	0.16826217	1.73785491
PLEKHF1	-0.22815169	0.16826217	-1.73785309
LOC100129624	-0.22814013	0.16827354	-1.73776014
C1orf64	-0.22813564	0.16827354	-1.73772408
C11orf65	0.22812513	0.16828601	1.73763966
C1orf141	0.22810631	0.16832126	1.73748839
RPL17	0.22808787	0.16835544	1.73734025
C1orf57	0.22807750	0.16836755	1.73725691
SLC6A4	-0.22805606	0.16840997	-1.73708465
GALNT1	0.22804139	0.16842414	1.73696679
ZBTB24	0.22803899	0.16842414	1.73694748
ABCC11	-0.22799793	0.16852029	-1.73661763
ANP32E	0.22797685	0.16856177	1.73644821
ZNF238	0.22796805	0.16856958	1.73637752
C10orf96	-0.22796111	0.16857230	-1.73632177
RGAG4	-0.22794203	0.16860830	-1.73616845
TBL3	0.22791481	0.16865029	1.73594981
PLCXD2	-0.22791879	0.16865029	-1.73598180
RASSF3	-0.22786337	0.16875687	-1.73553653
NAP1L3	-0.22785810	0.16875687	-1.73549418
DGCR8	-0.22786909	0.16875687	-1.73558250
SNRPF	0.22784131	0.16878659	1.73535934
C19orf60	-0.22782004	0.16882863	-1.73518842
GPR160	0.22777987	0.16892252	1.73486574
CFP	-0.22776444	0.16893223	-1.73474180
BSG	0.22776940	0.16893223	1.73478165
CCR8	-0.22773176	0.16896058	-1.73447925
EIF3K	0.22774405	0.16896058	1.73457799
FRG2C	-0.22772778	0.16896058	-1.73444727
C2orf28	0.22773134	0.16896058	1.73447594
SKIL	0.22772439	0.16896058	1.73442007

XPOT	0.22771299	0.16897555	1.73432852	
LRRC18	0.22770547	0.16897988	1.73426810	
RPL29P8	-0.22769314	0.16899743	-1.73416901	
MAPK8	0.22759881	0.16924011	1.73341138	
BMF	-0.22754287	0.16937753	-1.73296202	
FCRL1	-0.22752544	0.16940911	-1.73282204	
EEF1B2	-0.22751666	0.16941691	-1.73275150	
MUDENG	0.22749960	0.16943112	1.73261454	yes
MED13	0.22750319	0.16943112	1.73264335	
GNRHR	-0.22747087	0.16946110	-1.73238380	
C22orf32	0.22747274	0.16946110	1.73239874	
SLC23A2	0.22748026	0.16946110	1.73245914	
DSCR4	-0.22739385	0.16965666	-1.73176516	
PCBP1	0.22734078	0.16978639	1.73133902	
SMC3	0.22732738	0.16980692	1.73123143	
HIST1H2AA	-0.22728130	0.16991749	-1.73086136	
UBE2J1	0.22727371	0.16992202	1.73080043	
ACTR1B	0.22725759	0.16993372	1.73067092	
SEZ6L2	-0.22726043	0.16993372	-1.73069372	
FLJ41649	-0.22723822	0.16997072	-1.73051538	
YWHAH	0.22717782	0.17012084	1.73003039	
SLC5A9	-0.22711327	0.17027095	-1.72951211	
GNA11	0.22710557	0.17027095	1.72945029	
CCDC49	-0.22710861	0.17027095	-1.72947464	
TTC16	0.22709548	0.17028241	1.72936924	
HTR2A	-0.22708288	0.17030079	-1.72926808	
ZCCHC9	0.22706165	0.17034298	1.72909761	
MAML1	-0.22704339	0.17037699	-1.72895100	
FAM169B	-0.22700521	0.17045801	-1.72864446	
SUV39H1	0.22700216	0.17045801	1.72862001	
PXT1	-0.22697929	0.17050478	-1.72843634	
LOC400696	-0.22696556	0.17050988	-1.72832613	
ZNF180	0.22697042	0.17050988	1.72836520	

ZNF281	-0.22695591	0.17052013	-1.72824865
KCNIP4	-0.22689098	0.17068312	-1.72772736
FCRLA	-0.22682954	0.17083657	-1.72723413
GPR110	0.22681611	0.17085726	1.72712638
AGAP1	-0.22680690	0.17086633	-1.72705238
PPP1CC	0.22676760	0.17095860	1.72673696
UBE2L3	0.22669327	0.17114795	1.72614025
IL6R	0.22667619	0.17117878	1.72600321
CDKN2B	-0.22658694	0.17139318	-1.72528684
KRT39	-0.22659017	0.17139318	-1.72531272
ZFP62	0.22657407	0.17141241	1.72518348
TTLL6	0.22656556	0.17141952	1.72511520
MFSD10	0.22654726	0.17145380	1.72496831
IDE	0.22649917	0.17155314	1.72458232
SIRT6	-0.22649362	0.17155314	-1.72453781
PGPEP1	-0.22650005	0.17155314	-1.72458943
C6orf100	-0.22648419	0.17156282	-1.72446212
WDR34	0.22643710	0.17167701	1.72408420
ZNF302	0.22642001	0.17170796	1.72394704
MKLN1	0.22639507	0.17176071	1.72374688
XRN1	0.22637787	0.17178684	1.72360890
ADAM7	-0.22637378	0.17178684	-1.72357603
CCDC13	0.22635612	0.17179566	1.72343428
PDS5A	0.22633617	0.17179566	1.72327419
HOXA6	-0.22633497	0.17179566	-1.72326459
FLJ20712	0.22636256	0.17179566	1.72348601
COL27A1	-0.22635178	0.17179566	-1.72339947
BCLAF1	0.22633991	0.17179566	1.72330422
PRIM1	0.22632858	0.17179692	1.72321332
KATNAL1	0.22632223	0.17179806	1.72316239
TEDDM1	-0.22628585	0.17188261	-1.72287044
C12orf49	0.22624363	0.17196693	1.72253159
RANBP3	-0.22624789	0.17196693	-1.72256585

LOC642864	-0.22621710	0.17202414	-1.72231875
RBM15	0.22620599	0.17203851	1.72222962
LOC643428	-0.22619381	0.17205588	-1.72213186
FAM71E1	-0.22618455	0.17206512	-1.72205756
PCDHB17	-0.22615697	0.17212528	-1.72183628
ASAH1	0.22613924	0.17215808	1.72169399
ELF5	-0.22611813	0.17220028	-1.72152462
ANGPTL4	-0.22610421	0.17220598	-1.72141295
TGFBRAP1	0.22610432	0.17220598	1.72141380
GNA13	0.22609450	0.17221181	1.72133502
LRCH4	-0.22609025	0.17221181	-1.72130092
ORAI3	-0.22607707	0.17223196	-1.72119519
MARK4	-0.22605787	0.17226886	-1.72104112
ZNF397OS	0.22602316	0.17231278	1.72076266
PAPD4	0.22602285	0.17231278	1.72076016
RGMB	-0.22601836	0.17231278	-1.72072410
C2orf7	-0.22602122	0.17231278	-1.72074704
KCNJ12	-0.22601097	0.17231682	-1.72066485
TUSC2	0.22595327	0.17246089	1.72020188
TIA1	0.22593622	0.17249182	1.72006516
C11orf44	-0.22587612	0.17264269	-1.71958297
PTTG3	-0.22586089	0.17266858	-1.71946081
LOC100129191	-0.22583428	0.17270966	-1.71924738
BTRC	0.22583615	0.17270966	1.71926235
SHC3	-0.22579175	0.17281168	-1.71890615
FBXO46	-0.22575627	0.17289405	-1.71862159
LOC100133405	0.22574145	0.17291884	1.71850271
LOC151121	-0.22567194	0.17301597	-1.71794515
KRTAP15-1	-0.22569595	0.17301597	-1.71813773
NOL11	0.22566512	0.17301597	1.71789043
ACAD8	0.22567469	0.17301597	1.71796717
ARHGAP22	-0.22566958	0.17301597	-1.71792616
LOC728607	0.22567563	0.17301597	1.71797471

LOC84740	-0.22568162	0.17301597	-1.71802276	
TRIM39	0.22564619	0.17305226	1.71773854	
DUSP1	0.22552056	0.17338648	1.71673094	
SMAD1	0.22548446	0.17347079	1.71644141	
SNORD15B	-0.22546788	0.17348397	-1.71630846	
POFUT1	0.22547191	0.17348397	1.71634081	
FLJ10404	-0.22542706	0.17358152	-1.71598111	yes
DOK7	-0.22540026	0.17359172	-1.71576615	
ZNF713	0.22539351	0.17359172	1.71571200	
IL13	-0.22539581	0.17359172	-1.71573047	
RPSA	0.22541301	0.17359172	1.71586841	
PDZD11	0.22538784	0.17359172	1.71566656	
SORT1	0.22539208	0.17359172	1.71570054	
LRRN1	0.22534642	0.17368627	1.71533438	
MYCBPAP	0.22534218	0.17368627	1.71530038	
NCCRP1	-0.22533597	0.17368706	-1.71525059	
ZNF444	-0.22529976	0.17373860	-1.71496027	
MMS19	0.22530494	0.17373860	1.71500178	
C15orf62	-0.22530451	0.17373860	-1.71499836	
KHDRBS2	-0.22527158	0.17380087	-1.71473429	
WDR75	0.22525362	0.17383456	1.71459023	
CACNB1	-0.22523491	0.17387034	-1.71444021	
PALM	-0.22521875	0.17389899	-1.71431063	
UGT2B10	-0.22519442	0.17393394	-1.71411552	
FAM50A	-0.22519944	0.17393394	-1.71415579	
ERCC8	0.22516412	0.17400220	1.71387256	
SUNC1	-0.22515544	0.17400989	-1.71380303	
HACE1	0.22513222	0.17405835	1.71361681	
HSD11B1	-0.22507745	0.17419521	-1.71317767	
CYP2D6	-0.22502523	0.17432499	-1.71275905	
CHGA	-0.22501810	0.17432837	-1.71270187	
ZDHHC2	0.22500082	0.17436022	1.71256334	
ALS2CR12	0.22498609	0.17438492	1.71244523	

OIT3	-0.22495518	0.17445503	-1.71219738	
EPN1	-0.22494278	0.17446726	-1.71209803	
RAB33A	-0.22493897	0.17446726	-1.71206745	
INF2	-0.22493246	0.17446889	-1.71201529	
ZCCHC8	0.22491192	0.17450991	1.71185060	
LPHN3	-0.22490561	0.17451100	-1.71180002	
COL6A1	-0.22486584	0.17460599	-1.71148122	yes
PRICKLE2	0.22485090	0.17462695	1.71136144	
PCDHGA3	-0.22484653	0.17462695	-1.71132641	
ITGAM	-0.22481142	0.17470892	-1.71104494	
TEAD3	-0.22480065	0.17471069	-1.71095858	
C2orf47	0.22479894	0.17471069	1.71094493	
RNASEK	0.22475836	0.17480805	1.71061961	
TBX5	-0.22470491	0.17494161	-1.71019121	
C8orf34	0.22466466	0.17503814	1.70986856	
EPN3	-0.22465213	0.17505671	-1.70976816	
ASNA1	0.22460507	0.17517244	1.70939097	
SENP8	0.22459225	0.17517520	1.70928816	
INO80	0.22459272	0.17517520	1.70929192	
TMEM54	0.22457689	0.17520175	1.70916509	
TRAP1	0.22455174	0.17525588	1.70896346	
CYP4F22	-0.22450797	0.17536242	-1.70861271	
COL6A3	-0.22446768	0.17540918	-1.70828980	
FMO4	0.22447238	0.17540918	1.70832749	
NCAM2	-0.22446928	0.17540918	-1.70830266	
PELO	0.22447210	0.17540918	1.70832524	
NAB2	-0.22441219	0.17554883	-1.70784508	
MYO5B	0.22440213	0.17556048	1.70776452	
SLC5A3	0.22439077	0.17557583	1.70767341	
SLC28A2	-0.22438272	0.17558181	-1.70760895	
ZNF484	0.22430955	0.17577143	1.70702258	
PSMD7	0.22420189	0.17605857	1.70615988	
POLR3H	0.22419115	0.17607218	1.70607382	

GDF5OS	-0.22418056	0.17608535	-1.70598900	
GAPT	-0.22416916	0.17610082	-1.70589766	
GNAI2	0.22415524	0.17612342	1.70578609	
PURA	0.22413986	0.17615014	1.70566286	
KCTD12	0.22411911	0.17619203	1.70549661	
WAS	-0.22410773	0.17620746	-1.70540543	
KRT14	-0.22409250	0.17623374	-1.70528346	
C9orf117	0.22405473	0.17632376	1.70498084	
FUT7	-0.22404698	0.17632892	-1.70491877	
C8orf85	-0.22400855	0.17642086	-1.70461083	
C9orf21	0.22398682	0.17644881	1.70443679	
RPL15	0.22399228	0.17644881	1.70448046	
TLE4	0.22397960	0.17645251	1.70437887	yes
UNC13D	-0.22393874	0.17654885	-1.70405153	
PEX5	0.22392778	0.17654885	1.70396377	
OC90	-0.22393178	0.17654885	-1.70399581	
HMG20A	0.22390095	0.17657412	1.70374880	
FSHR	-0.22389517	0.17657412	-1.70370255	
FBXL21	-0.22390106	0.17657412	-1.70374974	
TMEM179B	0.22390750	0.17657412	1.70380127	
TINAGL1	-0.22388339	0.17659072	-1.70360815	
GNG12	0.22386479	0.17662661	1.70345913	
LRRC50	0.22382886	0.17667484	1.70317130	
THAP6	0.22383005	0.17667484	1.70318088	
LRP10	0.22382395	0.17667484	1.70313202	
SSU72	0.22381817	0.17667484	1.70308566	
WIBG	-0.22382601	0.17667484	-1.70314851	
XKR9	-0.22378780	0.17674404	-1.70284243	
C16orf7	-0.22376536	0.17679084	-1.70266263	
DMPK	-0.22374802	0.17681940	-1.70252380	
C20orf46	-0.22374344	0.17681940	-1.70248708	
SAMD9	0.22372801	0.17684636	1.70236345	
PCNT	-0.22369176	0.17691551	-1.70207316	

FLJ20674	-0.22369264	0.17691551	-1.70208015	
BUD31	0.22359149	0.17718295	1.70127004	
IGLL1	-0.22358033	0.17719782	-1.70118067	
CDK2	-0.22356749	0.17720070	-1.70107778	
TMEM151B	-0.22356946	0.17720070	-1.70109359	
PADI3	-0.22353793	0.17726777	-1.70084105	
LOC147727	0.22351512	0.17727176	1.70065838	
BIN3	0.22352858	0.17727176	1.70076613	
PCDHA7	-0.22351713	0.17727176	-1.70067450	
STX3	0.22351287	0.17727176	1.70064034	
SF3A3	0.22348779	0.17732613	1.70043949	
UBQLN1	0.22345961	0.17738931	1.70021382	
LARP4	0.22340783	0.17750273	1.69979914	
RFNG	-0.22341152	0.17750273	-1.69982868	
CTSG	-0.22336811	0.17759612	-1.69948105	
TNKS2	0.22336312	0.17759612	1.69944110	
C5orf24	0.22330711	0.17772164	1.69899261	
ACRBP	-0.22330951	0.17772164	-1.69901177	
KLF5	0.22329240	0.17774666	1.69887476	
RUFY4	-0.22326359	0.17781175	-1.69864405	
MOSPD1	0.22325366	0.17782316	1.69856459	
ESD	0.22324262	0.17783223	1.69847615	
SLC45A1	-0.22323865	0.17783223	-1.69844438	yes
LOC728847	-0.22323061	0.17783827	-1.69838003	
SH2D7	-0.22321172	0.17787519	-1.69822872	
CRTC1	-0.22317249	0.17796992	-1.69791466	yes
ITPRIPL2	0.22314452	0.17803269	1.69769068	
IWS1	0.22311687	0.17807772	1.69746931	
RBBP4	0.22312024	0.17807772	1.69749625	
FOXD1	-0.22308644	0.17814749	-1.69722570	
RPS24	0.22307315	0.17816850	1.69711928	
SDR9C7	-0.22305005	0.17821745	-1.69693431	
REST	0.22302150	0.17828192	1.69670574	

LOC283711	-0.22298828	0.17835971	-1.69643976	
RPL37	0.22297716	0.17837455	1.69635075	
RAB25	0.22294578	0.17842721	1.69609956	
SLN	-0.22294095	0.17842721	-1.69606085	
TAF1	0.22294651	0.17842721	1.69610541	
GPR1	-0.22287993	0.17858428	-1.69557241	
MAFA	-0.22282204	0.17871568	-1.69510896	
hCG_22804	0.22282769	0.17871568	1.69515418	
PCDHGA7	-0.22277779	0.17882507	-1.69475478	
EHD2	-0.22276459	0.17884589	-1.69464910	
MYL7	-0.22275531	0.17885552	-1.69457479	
IFT20	0.22271359	0.17895773	1.69424090	
IL16	0.22269090	0.17900567	1.69405925	
ANGPTL7	-0.22267125	0.17904490	-1.69390199	
PNLIPRP3	-0.22263560	0.17912989	-1.69361661	
KCNH1	-0.22261257	0.17917880	-1.69343231	
HDGFL1	-0.22257711	0.17921259	-1.69314853	
TMEM69	0.22258530	0.17921259	1.69321406	
UBA1	0.22257831	0.17921259	1.69315808	
LOXL3	-0.22259034	0.17921259	-1.69325436	
CASC2	0.22255673	0.17925395	1.69298542	
DVL3	-0.22252109	0.17932209	-1.69270013	
POPDC2	0.22252554	0.17932209	1.69273581	
SLC38A5	-0.22245986	0.17948032	-1.69221012	
ADH1A	-0.22244748	0.17949883	-1.69211107	
TOMM40L	-0.22243998	0.17950338	-1.69205107	
ADCYAP1	-0.22242604	0.17950947	-1.69193949	
NOC2L	0.22243184	0.17950947	1.69198593	
MAL2	0.22241148	0.17953423	1.69182297	yes
CCL17	-0.22237164	0.17963136	-1.69150413	
ZFP90	0.22234721	0.17968438	1.69130868	
C11orf79	0.22226275	0.17990944	1.69063278	
TRAF5	-0.2222384	0.17998655	-1.69032142	

ZNF124	0.22221812	0.17998655	1.69027571
C1orf156	0.22222733	0.17998655	1.69034937
OR51T1	-0.22221174	0.17998791	-1.69022466
SNRNP25	0.22220163	0.17999997	1.69014374
PROCA1	-0.22218968	0.18001730	-1.69004810
XPO7	0.22215801	0.18005729	1.68979474
CCDC36	-0.22215870	0.18005729	-1.68980026
C1orf114	0.22216184	0.18005729	1.68982538
HFE	0.22215141	0.18005930	1.68974190
MDGA1	-0.22211164	0.18015641	-1.68942373
GAS7	0.22204934	0.18031824	1.68892528
WNT11	-0.22201003	0.18041415	-1.68861078
FHAD1	0.22198639	0.18046508	1.68842163
SPRED2	-0.22197205	0.18047102	-1.68830689
CES3	-0.22196660	0.18047102	-1.68826334
LOC646853	-0.22197603	0.18047102	-1.68833876
VAPB	0.22195122	0.18049824	1.68814029
SNORA48	-0.22194228	0.18050697	-1.68806875
THBD	-0.22192972	0.18052609	-1.68796826
C7orf30	0.22187580	0.18066405	1.68753696
CIR	0.22186878	0.18066726	1.68748079
NGFRAP1	-0.22184142	0.18072894	-1.68726192
C17orf70	-0.22180236	0.18082427	-1.68694947
PARP14	0.22177112	0.18089715	1.68669958
STAM	0.22175519	0.18092601	1.68657212
TXNRD2	-0.22173782	0.18095898	-1.68643324
ZNF629	-0.22172168	0.18098845	-1.68630409
PSMC3IP	0.22167588	0.18110327	1.68593781
OLFML2A	-0.22161678	0.18125648	-1.68546510
HP	-0.22160866	0.18125736	-1.68540014
PPP1CA	0.22160467	0.18125736	1.68536821
AK2	0.22156431	0.18134413	1.68504539
SPATA2	-0.22156275	0.18134413	-1.68503293

SLC9A1	-0.22155535	0.18134843	-1.68497377
MYPN	-0.22153883	0.18137902	-1.68484166
CLIP4	0.22153008	0.18138725	1.68477162
CARD17	-0.22146214	0.18156610	-1.68422834
POLR3E	0.22139059	0.18175553	1.68365611
POLDIP3	0.22137603	0.18178051	1.68353971
SUV420H1	0.22134856	0.18184277	1.68332005
SON	0.22130864	0.18194104	1.68300076
FLJ10357	-0.22127633	0.18201732	-1.68274242
WISP2	-0.22122370	0.18215236	-1.68232161
NFKBIL1	-0.22121682	0.18215520	-1.68226655
ENOPH1	0.22120506	0.18217212	1.68217255
KRR1	0.22118112	0.18220923	1.68198116
MRPL52	0.22117451	0.18220923	1.68192830
USP14	0.22117936	0.18220923	1.68196704
GNB4	0.22114050	0.18229052	1.68165634
PDZD4	-0.22112347	0.18232271	-1.68152018
WDR6	0.22111274	0.18233667	1.68143438
ZNF275	-0.22106588	0.18242102	-1.68105972
FCGR2B	0.22107722	0.18242102	1.68115040
FER1L6	0.22106763	0.18242102	1.68107375
NSAP11	-0.22105602	0.18242117	-1.68098090
LOC100132005	-0.22105402	0.18242117	-1.68096492
MACC1	0.22103963	0.18244074	1.68084989
LRRC61	0.22103545	0.18244074	1.68081650
FRMPD1	-0.22094713	0.18267939	-1.68011037
PI4KA	0.22092070	0.18273886	1.67989907
PCK2	-0.22089284	0.18280248	-1.67967636
SLC23A1	0.22087480	0.18283765	1.67953218
CDH7	-0.22086169	0.18285855	-1.67942736
C7orf34	-0.22084999	0.18287482	-1.67933382
PLCL2	0.22082980	0.18287482	1.67917241
hCG_1771830	-0.22082666	0.18287482	-1.67914736

ZFHX4	-0.22083055	0.18287482	-1.67917843	
STX11	0.22082657	0.18287482	1.67914664	
LHFP	-0.22076449	0.18302375	-1.67865037	
AIM1	0.22076341	0.18302375	1.67864173	
LYST	0.22071665	0.18313608	1.67826794	
POT1	0.22071289	0.18313608	1.67823790	
CYTL1	-0.22068391	0.18320305	-1.67800627	
GFM1	0.22066782	0.18323262	1.67787769	
ZNF79	0.22060912	0.18338592	1.67740855	
TUBA8	-0.22057274	0.18347446	-1.67711777	
TMIE	-0.22055778	0.18349084	-1.67699815	
IER5	-0.22055531	0.18349084	-1.67697841	
EML5	0.22048127	0.18368891	1.67638667	
IL4I1	-0.22045462	0.18374922	-1.67617376	
TNFSF12	-0.22044333	0.18376490	-1.67608354	
HMGB3L1	-0.22040242	0.18386677	-1.67575657	
MAGEB1	-0.22037583	0.18390980	-1.67554408	
C1orf138	-0.22037662	0.18390980	-1.67555037	
GPX8	0.22035337	0.18395799	1.67536464	
HSPA4L	0.22033787	0.18398595	1.67524072	yes
EPB41L2	-0.22031175	0.18403366	-1.67503203	
EPHB6	-0.22030968	0.18403366	-1.67501548	
EPHX1	0.22029658	0.18404836	1.67491080	
INTS3	0.22029283	0.18404836	1.67488086	
HLA-DQA2	-0.22027604	0.18406291	-1.67474666	
CTDSPL2	0.22028031	0.18406291	1.67478080	
MED11	0.22025965	0.18408268	1.67461568	
TCF4	0.22024566	0.18408268	1.67450390	
PRR3	-0.22025743	0.18408268	-1.67459795	
TRRAP	0.22025136	0.18408268	1.67454943	
MAGI3	0.22020370	0.18416211	1.67416861	
RBPJ	0.22021094	0.18416211	1.67422647	
IGSF2	-0.22020069	0.18416211	-1.67414462	

CCDC121	-0.22019471	0.18416238	-1.67409678	
NID1	-0.22018699	0.18416768	-1.67403511	
AP4B1	0.22016288	0.18420779	1.67384247	
DHX37	-0.22016143	0.18420779	-1.67383088	
OR13C2	-0.22014425	0.18424065	-1.67369367	
NBPF10	0.22012608	0.18427642	1.67354848	
CASD1	0.22011150	0.18430175	1.67343193	
CPS1	-0.22006429	0.18442216	-1.67305474	
TMEM220	0.22005126	0.18444296	1.67295064	yes
BMX	-0.22000080	0.18457292	-1.67254753	
SCAMP4	0.21999177	0.18458205	1.67247543	
ZBTB40	0.21996780	0.18463479	1.67228390	
SRL	-0.21995575	0.18465276	-1.67218760	
CACNB2	-0.21989928	0.18480038	-1.67173647	
DPP6	-0.21987570	0.18483480	-1.67154812	
C20orf194	0.21987898	0.18483480	1.67157432	
SCN1A	-0.21979439	0.18503785	-1.67089864	
HIST1H3I	0.21979713	0.18503785	1.67092050	
MDFIC	-0.21976117	0.18511772	-1.67063327	
PPP4R2	0.21975485	0.18511898	1.67058276	
FUT9	-0.21970736	0.18512476	-1.67020345	
C19orf21	0.21971237	0.18512476	1.67024344	
C16orf91	-0.21974017	0.18512476	-1.67046554	
TMEM208	0.21973161	0.18512476	1.67039715	
CCDC90A	0.21971631	0.18512476	1.67027492	
SET	0.21970760	0.18512476	1.67020535	
LOC643233	-0.21971061	0.18512476	-1.67022943	
TADA2B	-0.21970573	0.18512476	-1.67019040	
FLJ30679	-0.21968458	0.18515365	-1.67002149	
TMEM30B	0.21968406	0.18515365	1.67001735	
TCEANC	0.21964765	0.18524289	1.66972648	
CKAP2L	-0.21963870	0.18525182	-1.66965504	
PHB2	0.21962759	0.18525498	1.66956630	

C11orf83	-0.21962584	0.18525498	-1.66955230
LOC728276	-0.21959060	0.18534081	-1.66927086
PSG4	-0.21954287	0.18546321	-1.66888965
SNORD115-3	-0.21948799	0.18554423	-1.66845135
LOC100130019	0.21948574	0.18554423	1.66843339
KRT33A	-0.21949704	0.18554423	-1.66852360
GPR107	0.21950395	0.18554423	1.66857882
TPH1	0.21949502	0.18554423	1.66850752
ERBB2	0.21945007	0.18561419	1.66814849
FBXL4	0.21945213	0.18561419	1.66816495
AXL	-0.21944346	0.18561630	-1.66809572
ALMS1P	0.21942962	0.18563957	1.66798522
ELOVL4	-0.21939359	0.18571061	-1.66769743
UGT2B4	-0.21939891	0.18571061	-1.66773992
FRG1B	0.21937853	0.18573746	1.66757721
HSD17B1	-0.21936943	0.18574689	-1.66750449
TUBA3C	-0.21928551	0.18597553	-1.66683441
APC	0.21927865	0.18597838	1.66677963
C18orf19	0.21923190	0.18608297	1.66640632
HIGD1A	0.21923121	0.18608297	1.66640080
GPR83	-0.21916325	0.18626509	-1.66585816
UGT1A6	0.21912757	0.18635255	1.66557326
CHD1	0.21907374	0.18647669	1.66514349
RNF148	-0.21907352	0.18647669	-1.66514172
ITIH5	-0.21902547	0.18660055	-1.66475814
EIF4ENIF1	-0.21899116	0.18668410	-1.66448417
TAS2R7	-0.21896359	0.18674785	-1.66426406
HDAC6	0.21893869	0.18676621	1.66406530
VPS13A	0.21894359	0.18676621	1.66410442
NR2F1	-0.21894606	0.18676621	-1.66412411
C19orf52	-0.21893379	0.18676621	-1.66402618
TCTE3	-0.21891913	0.18679200	-1.66390917
ZNF367	-0.21887534	0.18690350	-1.66355955

LOC283174	-0.21885942	0.18693300	-1.66343251
EGFL8	0.21875561	0.18720396	1.66260378
EIF1AD	0.21876027	0.18720396	1.66264103
GPR135	-0.21872603	0.18727375	-1.66236767
SMOC2	-0.21859720	0.18763622	-1.66133943
PNPLA6	0.21856134	0.18768991	1.66105318
STOM	0.21856664	0.18768991	1.66109552
TUBD1	0.21856177	0.18768991	1.66105668
ZNF638	0.21847091	0.18793950	1.66033151
SNX1	0.21845330	0.18797413	1.66019095
CLK4	0.21844535	0.18798021	1.66012752
ZNF277	0.21836243	0.18820791	1.65946575
LOC100133414	-0.21832016	0.18830156	-1.65912845
PLXNA2	0.21831898	0.18830156	1.65911904
PCP4L1	-0.21828244	0.18839224	-1.65882745
TRABD	-0.21826465	0.18842741	-1.65868553
CEP135	0.21825877	0.18842741	1.65863860
TNFRSF11B	-0.21822678	0.18850466	-1.65838332
RARRES3	0.21821857	0.18851152	1.65831782
C11orf21	-0.21818189	0.18860270	-1.65802511
GPAA1	0.21809494	0.18884285	1.65733138
ANAPC10	0.21805609	0.18894056	1.65702143
HIST1H2AE	0.21803481	0.18896871	1.65685167
MAT1A	0.21804023	0.18896871	1.65689488
AKAP13	0.21798429	0.18906636	1.65644854
NRG4	0.21797923	0.18906636	1.65640823
ZFHX3	-0.21796812	0.18906636	-1.65631954
PAFAH1B3	-0.21797477	0.18906636	-1.65637260
ZNF527	-0.21796655	0.18906636	-1.65630702
ANKRD40	-0.21798607	0.18906636	-1.65646279
DNAJC9	0.21795278	0.18908973	1.65619717
PITRM1	0.21793568	0.18912299	1.65606074
C1GALT1C1	0.21792199	0.18914614	1.65595152

C20orf177	0.21790930	0.18916632	1.65585028
C22orf37	-0.21789920	0.18917879	-1.65576977
CTDSP2	0.21787953	0.18921969	1.65561284
RSRC2	0.21785430	0.18927710	1.65541156
LILRB2	-0.21783874	0.18930580	-1.65528747
CDKL2	0.21783213	0.18930795	1.65523474
WHAMM	-0.21777253	0.18946747	-1.65475927
LOC100132178	0.21774219	0.18954011	1.65451727
SEC14L2	-0.21770277	0.18963978	-1.65420278
S100PBP	0.21767949	0.18969147	1.65401715
MCFD2	-0.21763528	0.18980542	-1.65366453
USP54	0.21751263	0.19015299	1.65268625
UTS2D	-0.21748254	0.19022508	-1.65244627
PCDHA12	-0.21747442	0.19023171	-1.65238153
DCXR	-0.21746227	0.19025036	-1.65228463
LOC440742	-0.21738356	0.19046742	-1.65165695
LOC100130138	-0.21734474	0.19056566	-1.65134731
TMEM194B	0.21726735	0.19077904	1.65073020
C10orf62	-0.21724346	0.19083277	-1.65053973
MTIF2	0.21722048	0.19088380	1.65035651
SLC29A4	-0.21721368	0.19088651	-1.65030228
ARHGDIB	0.21718232	0.19094500	1.65005218
GALNT4	0.21718431	0.19094500	1.65006807
FLJ46836	-0.21715079	0.19102160	-1.64980079
CYLD	0.21713654	0.19103998	1.64968718
INGX	-0.21713285	0.19103998	-1.64965777
TRDN	-0.21710046	0.19111251	-1.64939951
TSPAN12	0.21709680	0.19111251	1.64937033
UNC13A	-0.21708347	0.19113477	-1.64926400
DYNLRB1	0.21705527	0.19120146	1.64903919
CSGALNACT1	-0.21701127	0.19130956	-1.64868842
SPIRE1	-0.21700734	0.19130956	-1.64865706
UNQ1944	-0.21696753	0.19140473	-1.64833968

CTPS2	0.21696375	0.19140473	1.64830951
PROS1	0.21694986	0.19142866	1.64819879
HMGXB4	0.21694101	0.19143751	1.64812826
FAM149A	0.21691992	0.19148302	1.64796007
FLJ21075	-0.21688299	0.19157595	-1.64766566
PTPRR	-0.21687664	0.19157730	-1.64761510
CEACAM7	0.21686315	0.19160007	1.64750751
IGHV3-9	-0.21685484	0.19160732	-1.64744126
RAB43	-0.21681222	0.19171733	-1.64710150
UBP1	-0.21680032	0.19173532	-1.64700669
LSM14A	0.21675595	0.19183299	1.64665293
ZNF673	0.21675782	0.19183299	1.64666790
TMEM178	-0.21673477	0.19186115	-1.64648416
SRPX2	0.21673980	0.19186115	1.64652427
IPO7	0.21671731	0.19189583	1.64634497
ZNF204	0.21670942	0.19190183	1.64628208
NUP210	0.21670105	0.19190928	1.64621534
VPS41	0.21667685	0.19196154	1.64602245
NEO1	0.21667184	0.19196154	1.64598252
KIF25	-0.21664849	0.19201296	-1.64579643
LOC65998	-0.21664292	0.19201296	-1.64575196
FGF9	-0.21661114	0.19207978	-1.64549870
RRN3	0.21660886	0.19207978	1.64548052
CD14	-0.21659937	0.19209057	-1.64540492
N4BP2L1	0.21657727	0.19213921	1.64522875
SIX4	0.21657085	0.19214082	1.64517756
BTBD12	-0.21653704	0.19222459	-1.64490811
TRDV2	-0.21650428	0.19229082	-1.64464703
TSSK6	-0.21650320	0.19229082	-1.64463840
NDUFA3	-0.21647864	0.19234686	-1.64444268
TNFRSF13B	-0.21645507	0.19239997	-1.64425480
LOC100133411	-0.21636602	0.19262027	-1.64354510
IFNK	-0.21637041	0.19262027	-1.64358008

QARS	0.21636407	0.19262027	1.64352956
UBE2Q2	0.21635241	0.19263761	1.64343668
B3GNT6	-0.21632823	0.19269259	-1.64324399
BDKRB2	0.21628106	0.19281674	1.64286804
ZC3HAV1L	-0.21627451	0.19281873	-1.64281585
ZNF248	0.21625449	0.19286124	1.64265631
UTP11L	0.21618974	0.19303831	1.64214043
MGP	-0.21618110	0.19304660	-1.64207158
CYP4X1	-0.21613650	0.19315445	-1.64171616
TRAPPC9	0.21613350	0.19315445	1.64169230
ATXN1	0.21612119	0.19317380	1.64159419
TIE1	-0.21611499	0.19317475	-1.64154480
COX11	0.21606551	0.19330604	1.64115056
ST3GAL1	-0.21604814	0.19334065	-1.64101212
GTF2A1L	-0.21597418	0.19352209	-1.64042292
TRIM31	0.21595851	0.19352209	1.64029802
HELQ	0.21596150	0.19352209	1.64032190
MATN2	-0.21596794	0.19352209	-1.64037320
DOLPP1	0.21596273	0.19352209	1.64033168
CDKN2D	-0.21590996	0.19365075	-1.63991123
LOC100133354	0.21590334	0.19365296	1.63985851
NFATC1	-0.21589707	0.19365412	-1.63980856
SHROOM2	-0.21588968	0.19365865	-1.63974971
CHMP7	0.21588132	0.19366612	1.63968311
UCN	-0.21584741	0.19375066	-1.63941297
FAM49A	-0.21583969	0.19375622	-1.63935140
TNS4	-0.21579025	0.19388766	-1.63895758
MTHFD2L	0.21578175	0.19389555	1.63888989
EIF3M	0.21576331	0.19393346	1.63874299
GRM7	0.21573098	0.19401332	1.63848543
C20orf39	-0.21571295	0.19404999	-1.63834184
MASP1	-0.21570569	0.19405414	-1.63828402
SAFB	0.21566584	0.19415676	1.63796658

FUCA2	0.21565851	0.19415786	1.63790821
IKZF5	0.21565371	0.19415786	1.63786995
NKAPL	-0.21555120	0.19442053	-1.63705341
DNAJC27	0.21554917	0.19442053	1.63703725
PEX6	0.21555975	0.19442053	1.63712155
FER1L4	0.21554216	0.19442393	1.63698142
CCDC58	0.21551867	0.19446591	1.63679437
OR2W5	-0.21551651	0.19446591	-1.63677717
C14orf162	-0.21547789	0.19456494	-1.63646960
CLECL1	-0.21546453	0.19458758	-1.63636316
MITD1	0.21545718	0.19459202	1.63630463
LOC100133207	-0.21544269	0.19460546	-1.63618922
HIST1H1E	0.21544097	0.19460546	1.63617556
CAPZA2	0.21543121	0.19461722	1.63609777
CLN6	0.21537614	0.19474829	1.63565924
SC5DL	0.21538191	0.19474829	1.63570515
SERPINB6	0.21535398	0.19479757	1.63548277
AFP	-0.21534611	0.19480361	-1.63542007
WFDC5	-0.21533413	0.19482208	-1.63532466
AGBL4	0.21531097	0.19487440	1.63514026
MASTL	0.21528281	0.19494191	1.63491595
MAPKAPK2	-0.21524780	0.19503017	-1.63463717
FILIP1L	-0.21517072	0.19512761	-1.63402339
MARCH3	0.21518417	0.19512761	1.63413050
DBI	0.21517676	0.19512761	1.63407146
LRWD1	0.21519318	0.19512761	1.63420227
C1orf187	-0.21516861	0.19512761	-1.63400663
CKLF	0.21518876	0.19512761	1.63416708
ZFYVE21	0.21520759	0.19512761	1.63431700
KLF7	0.21518121	0.19512761	1.63410691
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OTUD6B	0.21505339	0.19542359	1.63308914
AGBL5	0.21505511	0.19542359	1.63310289

TMEM185B	0.21500655	0.19554792	1.63271621
SLC35A3	0.21496195	0.19564943	1.63236115
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NCK1	0.21493112	0.19572342	1.63211567
PTPRB	-0.21492389	0.19572751	-1.63205814
PRKY	0.21491675	0.19573136	1.63200127
AP3M1	0.21486550	0.19585135	1.63159328
LDB2	-0.21486676	0.19585135	-1.63160328
C19orf15	-0.21483114	0.19590272	-1.63131972
SNORA4	0.21483507	0.19590272	1.63135101
HIST2H2BE	0.21483097	0.19590272	1.63131834
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LOC100131401	-0.21473242	0.19613088	-1.63053385
PHF13	-0.21473621	0.19613088	-1.63056404
JUND	-0.21470945	0.19618289	-1.63035098
OVOS2	-0.21468353	0.19624389	-1.63014463
LCE2B	-0.21466898	0.19627027	-1.63002885
RHOXF1	-0.21465178	0.19630474	-1.62989191
PPP2R5E	0.21461115	0.19641054	1.62956852
GSR	0.21459987	0.19642698	1.62947875
RCHY1	0.21457223	0.19649326	1.62925874
ATP13A1	0.21452987	0.19660440	1.62892159
C11orf67	0.21450214	0.19665308	1.62870091
DIRAS3	-0.21450529	0.19665308	-1.62872591
TRPC4AP	0.21449128	0.19666828	1.62861443
GABARAPL1	-0.21447219	0.19667086	-1.62846248
GALNT3	0.21446693	0.19667086	1.62842063
RNPEP	0.21447867	0.19667086	1.62851404
RNASEH2C	-0.21446716	0.19667086	-1.62842244
ANKRD29	-0.21444618	0.19668038	-1.62825551
CLDN17	-0.21445109	0.19668038	-1.62829459
MYOZ1	-0.21444773	0.19668038	-1.62826782

SLC44A2	0.21441488	0.19675789	1.62800636
MOSPD3	-0.21440692	0.19676425	-1.62794300
POLDIP2	0.21438186	0.19682272	1.62774362
COL17A1	-0.21436465	0.19685528	-1.62760662
LOC650157	-0.21435460	0.19685528	-1.62752666
DOT1L	-0.21435357	0.19685528	-1.62751842
ILDR2	-0.21433943	0.19688048	-1.62740592
WDR44	0.21432854	0.19689577	1.62731928
TRAK2	0.21428953	0.19699686	1.62700878
SLC39A14	-0.21428296	0.19699898	-1.62695651
NAGLU	-0.21427534	0.19700432	-1.62689587
ACD	-0.21426763	0.19700993	-1.62683450
PRM2	-0.21419510	0.19721336	-1.62625733
ZBTB34	0.21415626	0.19731402	1.62594827
XRCC1	0.21412643	0.19738719	1.62571093
ODZ1	-0.21411103	0.19741630	-1.62558838
PPPDE1	0.21409039	0.19746141	1.62542417
CHST11	0.21408050	0.19747368	1.62534549
CCDC25	0.21406263	0.19751036	1.62520326
ANKRD33	-0.21404267	0.19753546	-1.62504448
FAHD1	0.21404360	0.19753546	1.62505189
RCTP11	0.21401019	0.19761682	1.62478600
USP3	0.21399782	0.19763667	1.62468762
TBC1D5	0.21396245	0.19772687	1.62440622
FAM129C	-0.21394716	0.19775570	-1.62428450
C10orf118	0.21392714	0.19777726	1.62412523
ERGIC1	0.21393029	0.19777726	1.62415029
HIST1H2BL	-0.21391663	0.19777726	-1.62404159
KIAA0319	0.21391769	0.19777726	1.62405008
CCBE1	-0.21390996	0.19777968	-1.62398860
UBE2NL	-0.21389922	0.19779459	-1.62390315
SLC25A22	-0.21388751	0.19781246	-1.62380995
PDE2A	-0.21385628	0.19789006	-1.62356146

C11orf52	0.21384021	0.19792125	1.62343368	
TMEM123	0.21378159	0.19808273	1.62296729	
GAD1	-0.21371771	0.19826042	-1.62245909	
BTN2A1	0.21368977	0.19831005	1.62223686	
RNF32	0.21369527	0.19831005	1.62228063	
PYCARD	0.21368265	0.19831388	1.62218023	
AKAP5	-0.21366676	0.19834459	-1.62205384	
SPDYA	-0.21360284	0.19848655	-1.62154539	
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CBLB	0.21360841	0.19848655	1.62158967	yes
SLC25A32	0.21359181	0.19850239	1.62145762	
LOC100131796	-0.21357836	0.19850855	-1.62135063	
COQ6	0.21357220	0.19850855	1.62130163	
ARFGAP1	-0.21357725	0.19850855	-1.62134179	
COP5	0.21351168	0.19857190	1.62082026	
TCHHL1	-0.21350971	0.19857190	-1.62080460	
RAB3GAP2	0.21350519	0.19857190	1.62076868	
SPCS1	0.21350454	0.19857190	1.62076346	
RPL13P12	-0.21351753	0.19857190	-1.62086682	
MYD88	0.21349875	0.19857190	1.62071740	
FKBP6	-0.21353804	0.19857190	-1.62102994	
FAM104B	0.21350294	0.19857190	1.62075081	
SNRNP40	0.21350147	0.19857190	1.62073907	
HSD17B7	0.21347630	0.19862240	1.62053892	
C12orf5	0.21347055	0.19862240	1.62049316	
DPYSL2	-0.21345772	0.19863031	-1.62039111	
PAFAH1B1	0.21345625	0.19863031	1.62037938	
LOC646813	0.21342005	0.19872335	1.62009148	
LDHD	-0.21338310	0.19879185	-1.61979763	
C8orf79	0.21338013	0.19879185	1.61977404	
CDADC1	0.21338350	0.19879185	1.61980081	
ARL5B	0.21336852	0.19879349	1.61968165	
XPNPEP1	0.21336788	0.19879349	1.61967654	

VSIG8	-0.21333639	0.19887212	-1.61942616
KIF9	0.21331746	0.19891225	1.61927556
OR1M1	-0.21326585	0.19905271	-1.61886513
CALML5	-0.21324855	0.19908722	-1.61872759
ESAM	-0.21324289	0.19908722	-1.61868255
RAD50	0.21321965	0.19914059	1.61849777
URG4	0.21319571	0.19919615	1.61830734
ZNF83	0.21318807	0.19920160	1.61824663
OTOL1	-0.21317794	0.19921473	-1.61816604
PGLYRP4	-0.21316252	0.19924409	-1.61804347
RANBP9	0.21314610	0.19927653	1.61791291
LOC283685	-0.21309282	0.19942231	-1.61748924
RPLP1P4	0.21307797	0.19944312	1.61737116
ZNF84	0.21307433	0.19944312	1.61734220
APOBEC3H	-0.21306536	0.19945157	-1.61727086
MAFG	-0.21305987	0.19945157	-1.61722719
USP33	0.21304381	0.19948293	1.61709951
ACER2	0.21303775	0.19948354	1.61705133
HPRT1	0.21299910	0.19953034	1.61674403
IRF1	0.21300038	0.19953034	1.61675417
ING4	-0.21300723	0.19953034	-1.61680865
DDX24	0.21300437	0.19953034	1.61678594
GBP7	-0.21285486	0.19995628	-1.61559722
LOC80054	-0.21283763	0.19999132	-1.61546020
ZNF285A	-0.21279945	0.20009091	-1.61515667
CEP27	0.21279103	0.20009882	1.61508970
SNORD116-13	0.21278031	0.20011377	1.61500453
ZFAT	0.21273259	0.20022477	1.61462513
RPS23	0.21273522	0.20022477	1.61464602
TEX13A	-0.21269502	0.20032256	-1.61432647
DNTTIP1	0.21266003	0.20038022	1.61404835
FBXW2	0.21265875	0.20038022	1.61403813
TUBG1	0.21266176	0.20038022	1.61406211

SENP6	0.21261054	0.20050397	1.61365494	
RPL6	0.21260692	0.20050397	1.61362618	
PPIC	0.21258572	0.20055133	1.61345764	
RFC3	0.21254570	0.20065680	1.61313952	
MED12	0.21253311	0.20067759	1.61303944	
OR10S1	-0.21250760	0.20073829	-1.61283665	
SPAG5	0.21248443	0.20077626	1.61265254	
LOC284288	-0.21248359	0.20077626	-1.61264581	
UBE2T	0.21243502	0.20087200	1.61225983	
MORN1	0.21243918	0.20087200	1.61229288	
VPRBP	0.21243655	0.20087200	1.61227192	
SLC16A6	0.21239014	0.20099262	1.61190307	
SCGB2A1	0.21232729	0.20116886	1.61140353	
NCF2	0.21229682	0.20122688	1.61116137	
CTSF	-0.21230241	0.20122688	-1.61120585	
MAN2A1	0.21226450	0.20130876	1.61090452	
GPR116	-0.21224262	0.20135835	-1.61073064	
CLEC14A	-0.21221171	0.20141121	-1.61048499	yes
RUFY3	0.21220796	0.20141121	1.61045526	
LRRC43	0.21221519	0.20141121	1.61051269	
PTCHD2	-0.21218370	0.20146821	-1.61026241	
TMEM161B	0.21217354	0.20148151	1.61018171	
FAM92A1	-0.21215464	0.20148563	-1.61003153	
OR1L6	-0.21216043	0.20148563	-1.61007755	
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UNQ353	-0.21209083	0.20166513	-1.60952445	
MFI2	-0.21207908	0.20168340	-1.60943105	
KRTAP21-1	-0.21205876	0.20172821	-1.60926962	
MMP9	-0.21205059	0.20173537	-1.60920472	
PLB1	-0.21204067	0.20174798	-1.60912586	
ORC3L	0.21201805	0.20179995	1.60894609	
ZNF486	0.21200046	0.20183631	1.60880636	
C22orf13	0.21198273	0.20185498	1.60866544	

ASCC2	0.21198815	0.20185498	1.60870852
ZMYND19	-0.21197625	0.20185690	-1.60861400
TM4SF19	-0.21196785	0.20186481	-1.60854722
ZNF641	0.21195930	0.20187316	1.60847931
IRX6	-0.21194806	0.20188985	-1.60839001
NEUROD6	-0.21192965	0.20192878	-1.60824374
EIF2C3	0.21190163	0.20197330	1.60802113
KIF22	0.21190296	0.20197330	1.60803167
ZFP112	0.21189773	0.20197330	1.60799013
ANKRD62	-0.21188261	0.20200206	-1.60786994
LOC392285	-0.21180754	0.20219929	-1.60727354
SNRPB2	0.21180733	0.20219929	1.60727186
BCAR3	0.21179823	0.20220936	1.60719956
GREM1	-0.21177313	0.20226909	-1.60700019
RAD1	0.21175581	0.20230470	1.60686256
ALS2	0.21174361	0.20232440	1.60676564
ZNF2	-0.21172139	0.20237522	-1.60658913
NPCDR1	-0.21168100	0.20247384	-1.60626827
LOC731157	-0.21167793	0.20247384	-1.60624387
POLR2G	0.21165656	0.20252203	1.60607414
BOC	-0.21163816	0.20256104	-1.60592790
CCL27	-0.21160160	0.20263485	-1.60563753
NF2	0.21160548	0.20263485	1.60566834
C14orf138	0.21159685	0.20263485	1.60559977
KIF6	0.21151538	0.20286994	1.60495265
HPCAL4	-0.21147516	0.20297687	-1.60463315
TRNT1	0.21145827	0.20299300	1.60449900
PARP12	0.21146076	0.20299300	1.60451880
PAK4	-0.21141901	0.20309698	-1.60418715
SCAND1	-0.21138872	0.20317305	-1.60394660
HYAL4	-0.21136177	0.20323718	-1.60373255
RBM41	0.21135642	0.20323718	1.60369005
STARD6	-0.21129968	0.20339572	-1.60323938

DDX60	0.21126997	0.20347006	1.60300345	
RAPGEF4	-0.21122595	0.20355255	-1.60265383	
DNM3	-0.21123368	0.20355255	-1.60271524	
HIST1H2BB	-0.21122647	0.20355255	-1.60265799	
AZI2	0.21120894	0.20358734	1.60251874	
CCL28	-0.21118862	0.20363245	-1.60235739	
POLR3G	-0.21115014	0.20366925	-1.60205175	
PDIK1L	0.21114935	0.20366925	1.60204553	yes
SULT1B1	-0.21116022	0.20366925	-1.60213182	
KIAA1598	-0.21116668	0.20366925	-1.60218317	
ZNF768	-0.21114680	0.20366925	-1.60202528	
RPL14	0.21114172	0.20366925	1.60198491	
RPS6KA1	0.21110494	0.20375115	1.60169288	
PHLDB3	-0.21110376	0.20375115	-1.60168346	
C3orf62	0.21105664	0.20387990	1.60130931	
SNORD44	0.21103274	0.20393556	1.60111950	
ANXA13	-0.21102711	0.20393556	-1.60107482	
NDUFV1	0.21093638	0.20420064	1.60035433	
ISG20	0.21091922	0.20421767	1.60021813	
KPNA4	0.21092053	0.20421767	1.60022851	
SNX10	-0.21090428	0.20424094	-1.60009949	
GMNN	0.21090007	0.20424094	1.60006610	
FDPSL2A	0.21082497	0.20445742	1.59946977	
FLJ41603	-0.21079115	0.20454489	-1.59920126	
LYZL6	-0.21076465	0.20460947	-1.59899090	
ST5	0.21075726	0.20461429	1.59893223	
PGM5	-0.21074602	0.20463116	-1.59884296	
AKAP6	0.21073127	0.20465901	1.59872585	
CNGA1	-0.21068002	0.20478278	-1.59831900	
KCTD14	-0.21068059	0.20478278	-1.59832351	
RETN	-0.21064606	0.20487078	-1.59804943	
JARID1A	0.21063332	0.20489237	1.59794825	
SLC7A8	-0.21061871	0.20490149	-1.59783225	

TSPAN18	-0.21062335	0.20490149	-1.59786914
FAM122C	0.21057860	0.20497215	1.59751385
C3orf17	0.21058497	0.20497215	1.59756444
ICAM1	-0.21058260	0.20497215	-1.59754561
RASA2	0.21056021	0.20501143	1.59736787
MICAL2	0.21053682	0.20506639	1.59718219
LAMP2	0.21050354	0.20515234	1.59691803
ACAD11	0.21047943	0.20520956	1.59672668
AKR7L	-0.21046176	0.20524663	-1.59658640
SR140	0.21041886	0.20536280	1.59624589
PLA2G4E	-0.21036973	0.20549860	-1.59585586
LOC100132800	-0.21031460	0.20556757	-1.59541834
MGEA5	0.21030877	0.20556757	1.59537208
C9orf41	0.21030491	0.20556757	1.59534142
MGAT4C	-0.21030466	0.20556757	-1.59533946
HNMT	0.21032408	0.20556757	1.59549359
C1orf159	-0.21030888	0.20556757	-1.59537293
CTNNBIP1	-0.21031439	0.20556757	-1.59541670
SGK1	0.21030096	0.20556757	1.59531008
TTC7A	0.21029042	0.20558231	1.59522640
FCHSD1	-0.21024454	0.20570796	-1.59486230
HIST1H2BK	0.21022381	0.20575470	1.59469774
SNW1	0.21021131	0.20577559	1.59459854
ALAD	0.21018471	0.20584076	1.59438746
OIP5	-0.21013095	0.20593619	-1.59396079
LOC220429	-0.21014790	0.20593619	-1.59409529
BIRC2	0.21013350	0.20593619	1.59398104
HSPA5	0.21013536	0.20593619	1.59399583
TNFSF13B	-0.21011364	0.20597220	-1.59382346
AP1G1	0.21008850	0.20603285	1.59362390
UBE2C	-0.21005520	0.20606331	-1.59335970
PLD1	0.21007128	0.20606331	1.59348728
RRBP1	-0.21006294	0.20606331	-1.59342109

ABHD4	0.21005946	0.20606331	1.59339348
UHL3	0.21004958	0.20606331	1.59331509
C21orf129	-0.21003177	0.20608656	-1.59317374
VIPR1	-0.21003050	0.20608656	-1.59316366
CCDC79	-0.21002426	0.20608780	-1.59311416
OSBP2	-0.20995139	0.20629854	-1.59253591
PIK3R3	0.20990040	0.20644056	1.59213133
CRBN	0.20986738	0.20652611	1.59186930
LRMP	0.20983761	0.20660144	1.59163305
AGL	0.20982496	0.20662286	1.59153271
DST	-0.20978625	0.20670795	-1.59122558
LONRF3	-0.20979174	0.20670795	-1.59126913
CREBL2	0.20977099	0.20673762	1.59110449
PCMTD2	0.20973323	0.20683816	1.59080493
E2F2	-0.20972337	0.20685081	-1.59072671
POU3F4	-0.20970719	0.20688340	-1.59059830
SEP8	-0.20969098	0.20691608	-1.59046968
MAPK3	0.20966819	0.20696946	1.59028894
WFDC2	0.20964626	0.20698878	1.59011492
KCTD4	-0.20965006	0.20698878	-1.59014509
ZC3H12C	0.20964454	0.20698878	1.59010126
CTSO	0.20959315	0.20713239	1.58969358
SRR	0.20955346	0.20723915	1.58937875
ADCY4	-0.20952968	0.20727731	-1.58919009
C14orf177	-0.20953009	0.20727731	-1.58919336
GRAMD3	0.20950970	0.20732192	1.58903162
C14orf139	-0.20950022	0.20733342	-1.58895636
LOC100130433	-0.20948738	0.20733706	-1.58885452
UHL5	0.20949320	0.20733706	1.58890073
FGFR4	-0.20945428	0.20742310	-1.58859196
GNAI1	0.20940511	0.20755992	1.58820190
LOC339742	-0.20939331	0.20757872	-1.58810833
PIH1D1	0.20938374	0.20759049	1.58803244

MAD1L1	-0.20934074	0.20770789	-1.58769134	
APOBEC3F	-0.20931695	0.20776461	-1.58750262	
IRAK2	-0.20929983	0.20780024	-1.58736689	
TC2N	0.20924782	0.20794622	1.58695431	yes
GOLT1B	0.20919447	0.20807799	1.58653121	
C12orf35	0.20919476	0.20807799	1.58653353	
ZNF197	0.20917149	0.20813219	1.58634898	
OR51B4	-0.20916566	0.20813219	-1.58630270	
SVOPL	0.20915920	0.20813415	1.58625146	
CCDC114	0.20913831	0.20818175	1.58608583	
IL33	0.20912748	0.20819754	1.58599995	
ZNF716	-0.20911105	0.20823106	-1.58586963	
BHLHB9	-0.20910213	0.20824081	-1.58579887	
ATP5C1	0.20904361	0.20840759	1.58533480	
AEBP2	0.20903159	0.20842716	1.58523946	
NHLH2	-0.20898544	0.20855486	-1.58487346	
PCDH11X	-0.20897605	0.20856609	-1.58479904	
ZNF318	-0.20891588	0.20873830	-1.58432188	
LOC100132731	0.20888390	0.20878413	1.58406829	
AGA	0.20889472	0.20878413	1.58415413	
UBR2	0.20888785	0.20878413	1.58409963	
UBE3A	0.20883522	0.20892000	1.58368229	
FAH	-0.20880771	0.20897021	-1.58346419	
PARP10	-0.20881056	0.20897021	-1.58348680	
STUB1	0.20879620	0.20898819	1.58337293	
VPS72	0.20876911	0.20905038	1.58315814	
CDC5L	0.20876492	0.20905038	1.58312492	
TMEM179	-0.20874990	0.20907953	-1.58300579	
CAP1	0.20871650	0.20913970	1.58274098	
HDX	-0.20870807	0.20913970	-1.58267416	
SNORA70	0.20870758	0.20913970	1.58267030	
BYSL	0.20871224	0.20913970	1.58270717	
RNF183	-0.20861763	0.20940683	-1.58195710	

TIGD4	0.20860388	0.20943195	1.58184812
ZNHIT6	0.20855127	0.20958062	1.58143097
LRRIQ3	0.20854511	0.20958163	1.58138217
PSMG1	-0.20852969	0.20961209	-1.58125991
LOC441046	-0.20851246	0.20964830	-1.58112332
C21orf56	-0.20845775	0.20980372	-1.58068965
CAPZA3	-0.20842037	0.20990409	-1.58039331
SEC31B	-0.20841219	0.20991152	-1.58032849
ZFR	0.20839088	0.20994217	1.58015958
RTN4	0.20839549	0.20994217	1.58019612
RPS26	-0.20836639	0.21000154	-1.57996543
SMCR7	-0.20835156	0.21001681	-1.57984783
COL12A1	-0.20834120	0.21001681	-1.57976576
RXRB	-0.20833709	0.21001681	-1.57973315
CD4	0.20834245	0.21001681	1.57977562
LRRFIP2	0.20833240	0.21001681	1.57969598
ANKS3	-0.20828209	0.21015839	-1.57929724
ARIH1	0.20824569	0.21025577	1.57900866
LOC442381	-0.20823844	0.21026023	-1.57895126
SSBP3	-0.20822857	0.21027309	-1.57887302
PIP4K2C	0.20818586	0.21039059	1.57853448
LOC100130425	-0.20816348	0.21044332	-1.57835707
EIF2AK2	0.20808103	0.21068764	1.57770362
FXYD5	-0.20806538	0.21071892	-1.57757964
FABP3	-0.20804494	0.21076553	-1.57741761
LRRC2	-0.20797816	0.21096008	-1.57688837
OMG	-0.20794578	0.21104482	-1.57663181
MLLT1	-0.20793986	0.21104509	-1.57658488
SIGLEC14	-0.20792617	0.21107016	-1.57647639
OPA1	0.20787932	0.21120119	1.57610514
MBOAT2	0.20785368	0.21126449	1.57590194
NUDT18	-0.20778353	0.21147012	-1.57534611
OTUD6A	-0.20775229	0.21155140	-1.57509853

DOCK8	0.20773255	0.21159587	1.57494211
PTPDC1	-0.20770330	0.21165523	-1.57471041
C4orf16	0.20770232	0.21165523	1.57470259
LOC200810	0.20767539	0.21172273	1.57448924
PIGG	0.20766619	0.21173347	1.57441638
KIF4B	-0.20763486	0.21181510	-1.57416811
LRP6	-0.20760219	0.21189098	-1.57390926
TRIM66	-0.20759949	0.21189098	-1.57388787
LOC100128988	-0.20758746	0.21189209	-1.57379257
C5AR1	0.20759301	0.21189209	1.57383652
CCNH	0.20753194	0.21205126	1.57335270
FAM83G	-0.20749091	0.21216406	-1.57302763
ZNF485	-0.20745994	0.21220532	-1.57278230
SIN3B	-0.20745468	0.21220532	-1.57274062
RAB22A	0.20745745	0.21220532	1.57276257
RPS8P4	-0.20747094	0.21220532	-1.57286948
LOC100133424	0.20730164	0.21267765	1.57152834
C9orf30	-0.20727850	0.21273323	-1.57134498
C10orf18	0.20724051	0.21282925	1.57104411
OXR1	0.20723692	0.21282925	1.57101568
AHI1	0.20722023	0.21286412	1.57088345
ANO10	-0.20720842	0.21288329	-1.57078992
FLNA	-0.20708763	0.21325292	-1.56983321
MMP26	-0.20707796	0.21326524	-1.56975661
LARS	0.20704682	0.21334667	1.56950993
CEBPZ	0.20702896	0.21338533	1.56936853
FAM161A	0.20701780	0.21340246	1.56928011
LOC100131642	-0.20693143	0.21364298	-1.56859608
IL10RB	0.20693420	0.21364298	1.56861809
SPOPL	0.20691727	0.21366976	1.56848399
RPS13P2	-0.20689957	0.21370796	-1.56834382
LOC643015	0.20688557	0.21373425	1.56823294
MORF4L1	-0.20686637	0.21377729	-1.56808090

SEMA6A	-0.20681292	0.21393079	-1.56765760
BSPH1	-0.20678071	0.21401580	-1.56740260
SNORD27	0.20673123	0.21415661	1.56701073
TUBA3D	-0.20671371	0.21419429	-1.56687202
FGA	-0.20670161	0.21420126	-1.56677626
B4GALNT3	0.20669986	0.21420126	1.56676237
MUSTN1	-0.20667142	0.21427092	-1.56653719
PAX5	-0.20666659	0.21427092	-1.56649894
COLQ	-0.20664622	0.21431782	-1.56633765
CCDC24	0.20663893	0.21432248	1.56627996
PCDHA2	-0.20662838	0.21433770	-1.56619637
TRAPPC6A	0.20660821	0.21438394	1.56603672
PPP2R2A	0.20657345	0.21447734	1.56576150
B3GNT4	-0.20654427	0.21455275	-1.56553042
PHLDA3	-0.20651454	0.21462994	-1.56529503
TMPRSS4	0.20650584	0.21463917	1.56522617
FAM98B	0.20648422	0.21469017	1.56505498
APEX1	0.20647817	0.21469082	1.56500713
ROMO1	0.20642552	0.21484216	1.56459030
SLC43A3	-0.20641499	0.21485734	-1.56450689
RPN1	0.20638832	0.21492470	1.56429575
PDCD11	0.20638092	0.21492972	1.56423721
C8orf47	0.20634436	0.21502911	1.56394776
RICTOR	0.20633163	0.21505140	1.56384698
PTGIS	-0.20631940	0.21507208	-1.56375016
C19orf10	-0.20628485	0.21516498	-1.56347670
TXNRD3	0.20620823	0.21533741	1.56287018
SLC47A1	-0.20621651	0.21533741	-1.56293574
PDLIM2	-0.20620829	0.21533741	-1.56287061
VBP1	0.20621150	0.21533741	1.56289604
DCTN2	0.20619033	0.21537646	1.56272851
SERTAD3	0.20615598	0.21546883	1.56245659
MAGEH1	-0.20613288	0.21552476	-1.56227373

PCNA	0.20612615	0.21552763	1.56222049
LMTK2	0.20609816	0.21558048	1.56199895
ATP10A	-0.20609993	0.21558048	-1.56201293
NAT15	-0.20608920	0.21559061	-1.56192797
CPXM2	-0.20608154	0.21559651	-1.56186735
ETV4	-0.20605348	0.21566853	-1.56164527
C17orf42	0.20602321	0.21573446	1.56140572
SOX13	-0.20602146	0.21573446	-1.56139188
UNQ2963	-0.20600227	0.21577775	-1.56123999
OR5B21	-0.20598585	0.21579314	-1.56111000
SNORD95	-0.20598660	0.21579314	-1.56111594
SVIP	0.20592624	0.21596757	1.56063824
C9orf125	0.20591083	0.21599864	1.56051625
EPAS1	0.20588742	0.21605566	1.56033099
NT5E	0.20586691	0.21610114	1.56016866
BTBD7	0.20586173	0.21610114	1.56012769
VEZT	0.20583452	0.21617051	1.55991237
EMILIN2	-0.20580657	0.21624231	-1.55969120
HRNR	-0.20577737	0.21630432	-1.55946008
NR1D2	0.20577580	0.21630432	1.55944768
ZNF518A	0.20576667	0.21631502	1.55937542
BFSP1	-0.20573746	0.21639095	-1.55914426
C20orf107	-0.20572593	0.21640157	-1.55905299
RERGL	-0.20572251	0.21640157	-1.55902599
PRO0461	-0.20570508	0.21643924	-1.55888807
AADA4L4	-0.20568012	0.21650138	-1.55869056
TINF2	0.20567322	0.21650484	1.55863593
ZNF341	-0.20563606	0.21660667	-1.55834188
GABRA1	-0.20562901	0.21661060	-1.55828610
MTHFR	0.20562298	0.21661123	1.55823839
NUP205	0.20561251	0.21661163	1.55815552
TP53BP2	0.20561118	0.21661163	1.55814505
MCL1	0.20560332	0.21661822	1.55808281

TLR5	0.20551215	0.21689576	1.55736148	
MTRR	0.20548926	0.21695127	1.55718033	
PRRX1	-0.20538834	0.21726089	-1.55638189	
ACSF2	0.20530785	0.21750419	1.55574515	
ATXN7	0.20527785	0.21756496	1.55550781	
LOC729992	0.20527754	0.21756496	1.55550532	
UHRF1BP1L	0.20523425	0.21768617	1.55516288	
MSH4	-0.20522870	0.21768617	-1.55511897	
ZNF33B	0.20515014	0.21792351	1.55449753	yes
CCDC132	0.20514171	0.21793197	1.55443084	
ZNF780B	0.20511348	0.21798996	1.55420750	
ENTPD5	0.20511227	0.21798996	1.55419796	
ERBB4	-0.20506561	0.21809319	-1.55382888	
OR1L4	-0.20506315	0.21809319	-1.55380939	
MKI67IP	0.20507241	0.21809319	1.55388270	
ZNF232	0.20501402	0.21823462	1.55342082	
TBC1D14	0.20497824	0.21833247	1.55313785	
ARMC1	0.20496506	0.21835650	1.55303354	
MYO1C	-0.20494279	0.21839112	-1.55285739	
ADAM23	-0.20494709	0.21839112	-1.55289148	
CHML	0.20489392	0.21853183	1.55247092	
TMEM87B	0.20487235	0.21858330	1.55230030	
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NFASC	-0.20482040	0.21871508	-1.55188944	
APBB2	-0.20480224	0.21874922	-1.55174585	
CDCP1	0.20479829	0.21874922	1.55171459	
SGEF	0.20475443	0.21881632	1.55136777	
ZNF490	0.20475863	0.21881632	1.55140098	
SCARNA5	-0.20475927	0.21881632	-1.55140600	
ZFAND1	0.20475782	0.21881632	1.55139457	
SOX15	-0.20473959	0.21884579	-1.55125041	
LOC100128977	-0.20467695	0.21903183	-1.55075502	
HTR3A	-0.20465670	0.21906463	-1.55059487	

ZBTB16	-0.20465526	0.21906463	-1.55058351
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CECR1	0.20458484	0.21921888	1.55002663
LOC100131726	-0.20457221	0.21924115	-1.54992675
TMEM37	0.20456008	0.21926176	1.54983088
ZBTB6	0.20452554	0.21935586	1.54955778
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HIST2H2AB	0.20449297	0.21940633	1.54930022
LSM2	0.20449264	0.21940633	1.54929759
PPM1B	0.20446870	0.21946572	1.54910828
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CCDC73	-0.20440711	0.21957824	-1.54862138
BIVM	0.20441231	0.21957824	1.54866243
MORN3	0.20435059	0.21973837	1.54817446
CCNL1	0.20433363	0.21977489	1.54804037
EHHADH	0.20430479	0.21985041	1.54781238
SLC34A2	0.20429741	0.21985549	1.54775401
ZNF669	0.20429062	0.21985861	1.54770035
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NFYC	0.20421171	0.22009574	1.54707650
KRT74	-0.20419920	0.22010144	-1.54697758
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C16orf14	-0.20413748	0.22026594	-1.54648970
NMUR1	-0.20404278	0.22055828	-1.54574112
NCOR2	-0.20401288	0.22063750	-1.54550474
CST9	-0.20399534	0.22066895	-1.54536612
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ASCL3	-0.20397827	0.22069379	-1.54523116
SCLY	-0.20394121	0.22079662	-1.54493821

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LOC100133393	-0.20386155	0.22098212	-1.54430863	
PTPRF	0.20386530	0.22098212	1.54433825	
STAG1	0.20365578	0.22164174	1.54268238	
TFEB	-0.20363665	0.22168562	-1.54253122	
UPF3B	0.20361638	0.22173332	1.54237097	
AP1M2	0.20359535	0.22174785	1.54220484	
MEA1	0.20360044	0.22174785	1.54224503	
C14orf166	0.20359287	0.22174785	1.54218520	
CHCHD6	0.20358862	0.22174785	1.54215161	
MGAT2	0.20356559	0.22180390	1.54196961	
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FBXL7	0.20352333	0.22190570	1.54163567	
KIAA0195	0.20350751	0.22193868	1.54151070	
PI4K2B	0.20346479	0.22204132	1.54117310	
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TAF10	-0.20342696	0.22210630	-1.54087417	
CENPO	0.20342178	0.22210630	1.54083328	
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PFN4	0.20339361	0.22216085	1.54061070	
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RPS6KB1	0.20330889	0.22240254	1.53994128	
FBLL1	-0.20325713	0.22253523	-1.53953239	
CHFR	0.20326229	0.22253523	1.53957310	
C17orf81	0.20324840	0.22254481	1.53946339	
DNAJC5B	0.20322555	0.22260114	1.53928288	
RAG1	-0.20316578	0.22277984	-1.53881061	
LOC389607	-0.20314179	0.22283997	-1.53862115	
FAM135A	0.20312717	0.22286875	1.53850559	
SPHK1	-0.20312144	0.22286875	-1.53846031	yes

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JAKMIP2	-0.20303456	0.22311813	-1.53777398
ANTXRL	-0.20300846	0.22316596	-1.53756783
GLIPR1L1	-0.20301214	0.22316596	-1.53759692
FARSB	0.20296175	0.22330032	1.53719887
RPRD1B	0.20295629	0.22330032	1.53715575
FAM102A	0.20294039	0.22333372	1.53703013
PDHX	0.20292190	0.22337572	1.53688409
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KCND2	-0.20287382	0.22347720	-1.53650431
RND3	0.20285346	0.22352543	1.53634349
PPIL4	0.20283074	0.22358152	1.53616400
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MAGEA10	-0.20280415	0.22361168	-1.53595397
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C1QTNF9	-0.20274136	0.22374268	-1.53545808
LOC440706	-0.20273553	0.22374268	-1.53541206
BAGE4	-0.20274708	0.22374268	-1.53550325
TACC1	-0.20267624	0.22392037	-1.53494378
EIF2C1	0.20265795	0.22396177	1.53479933
EPHA4	0.20264885	0.22397265	1.53472741
PTPN13	0.20263848	0.22398189	1.53464556
FLJ43763	-0.20263439	0.22398189	-1.53461327
MPPE1	0.20258191	0.22413707	1.53419874
C17orf46	-0.20256396	0.22417736	-1.53405703
CD200R1	0.20255651	0.22418274	1.53399817
BTNL3	-0.20254655	0.22419645	-1.53391955
PDGFRB	-0.20253368	0.22421986	-1.53381791
MYEOV	-0.20251675	0.22425680	-1.53368416
KCTD17	-0.20244267	0.22448400	-1.53309917

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SH3TC1	-0.20242849	0.22450782	-1.53298722
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LOC100133390	-0.20239880	0.22455032	-1.53275280
REM1	-0.20238776	0.22455032	-1.53266560
OVOL2	0.20238191	0.22455032	1.53261941
SIGLEC5	-0.20239235	0.22455032	-1.53270182
SPC24	-0.20237397	0.22455734	-1.53255669
HNRNPA0	0.20234134	0.22462919	1.53229904
DCP1B	0.20233588	0.22462919	1.53225597
HHEX	-0.20233490	0.22462919	-1.53224821
IRAK1	-0.20232423	0.22464531	-1.53216393
GML	-0.20230220	0.22469927	-1.53199000
DDHD1	0.20229282	0.22471109	1.53191594
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TMC3	-0.20214844	0.22515079	-1.53077597
OPRM1	-0.20213762	0.22515079	-1.53069055
METTL8	-0.20214018	0.22515079	-1.53071075
GSTA5	0.20212871	0.22516107	1.53062018
IL7	0.20210787	0.22520615	1.53045570
C1orf31	0.20210353	0.22520615	1.53042141
IL1F6	-0.20207759	0.22527326	-1.53021662
ZNF674	0.20204017	0.22537870	1.52992122
PDE7A	0.20200062	0.22549130	1.52960897
FMO5	0.20199267	0.22549837	1.52954622
CCDC157	0.20194932	0.22562371	1.52920398
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CENPL	0.20193251	0.22562668	1.52907126
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PLA2G3	-0.20191270	0.22566812	-1.52891489
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SLC6A9	0.20184864	0.22584325	1.52840921
PA2G4	0.20184129	0.22584832	1.52835119

PHF11	0.20179499	0.22598364	1.52798574
RNF121	0.20177690	0.22600511	1.52784300
KIAA1751	0.20178000	0.22600511	1.52786742
PER3	-0.20176731	0.22601768	-1.52776730
CAP2	0.20174445	0.22605557	1.52758681
CIAPIN1	0.20174432	0.22605557	1.52758584
C19orf70	0.20171044	0.22609315	1.52731840
C6orf123	-0.20170977	0.22609315	-1.52731308
NAAA	-0.20171273	0.22609315	-1.52733647
C12orf10	0.20172451	0.22609315	1.52742943
ST8SIA3	-0.20168383	0.22616042	-1.52710837
CCDC18	0.20166742	0.22619295	1.52697880
APOL1	0.20166245	0.22619295	1.52693961
PTPN21	0.20165152	0.22621001	1.52685338
MUC12	-0.20163237	0.22625458	-1.52670223
STGC3	-0.20159995	0.22634360	-1.52644634
ATRN	0.20158624	0.22637000	1.52633809
SYK	0.20158017	0.22637080	1.52629021
MECP2	0.20153291	0.22650953	1.52591725
RIOK1	0.20152131	0.22652886	1.52582570
C16orf3	-0.20151413	0.22653338	-1.52576905
GGPS1	0.20149455	0.22657946	1.52561447
EIF2S1	0.20147976	0.22660948	1.52549777
CCDC117	0.20146662	0.22663398	1.52539406
LOC100130494	-0.20145279	0.22666077	-1.52528495
MTHFD1	0.20143215	0.22671042	1.52512203
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OR4Q3	-0.20138389	0.22681357	-1.52474119
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ADCY6	-0.20137450	0.22682551	-1.52466709
SERHL	-0.20135844	0.22685982	-1.52454035
KRT2	-0.20133527	0.22691795	-1.52435755
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C5orf39	0.20124013	0.22715282	1.52360680	
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ATP8B1	0.20123114	0.22715282	1.52353586	
GOLGA7	0.20120071	0.22722573	1.52329571	
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OLFML2B	-0.20114284	0.22738767	-1.52283914	
TRPV2	-0.20112145	0.22743994	-1.52267034	yes
PRKAA1	0.20109794	0.22749932	1.52248486	
PTTG2	0.20107347	0.22754299	1.52229181	
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SETDB2	0.20104009	0.22763494	1.52202845	
GAFA3	-0.20102291	0.22767309	-1.52189291	
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RASSF4	-0.20098396	0.22774524	-1.52158562	
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ST8SIA1	0.20095354	0.22780832	1.52134565	
CDK5RAP1	0.20094728	0.22780981	1.52129621	
TMED10P	-0.20092832	0.22785394	-1.52114669	
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BRWD1	0.20080726	0.22815333	1.52019161	
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APAF1	0.20074682	0.22828531	1.51971484	
NAT10	0.20072030	0.22833824	1.51950568	
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TM7SF4	-0.20067606	0.22844798	-1.51915671
LOC401557	-0.20066662	0.22846015	-1.51908227
ZNF182	0.20064968	0.22849759	1.51894865
ARF5	0.20064261	0.22850179	1.51889288
GLYATL2	-0.20056637	0.22873906	-1.51829149
PIK3R6	-0.20054805	0.22878117	-1.51814701
ADC	0.20050978	0.22887368	1.51784522
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PLEKHA9	-0.20049090	0.22891495	-1.51769625
C1orf87	0.20046910	0.22896883	1.51752431
RFX5	0.20046019	0.22897924	1.51745405
PKD1L3	0.20041191	0.22912247	1.51707327
LOC400446	0.20039930	0.22914537	1.51697383
GORASP1	0.20038971	0.22915806	1.51689823
TPP1	0.20036203	0.22921219	1.51667990
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CHP	0.20028000	0.22945079	1.51603305
MAP3K13	0.20027971	0.22945079	1.51603072
MARK1	0.20022704	0.22960903	1.51561542
CDC45L	-0.20018867	0.22971902	-1.51531285
MAP3K1	0.20018081	0.22972593	1.51525082
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QRICH1	0.20006929	0.23002426	1.51437151
PHRF1	-0.20007134	0.23002426	-1.51438767
ZNF586	0.20005316	0.23005912	1.51424435
UBQLN2	0.20003421	0.23010355	1.51409488
B3GALT6	-0.20000510	0.23018236	-1.51386536
IGFBP7	0.19999449	0.23019856	1.51378170
ZNF572	0.19996124	0.23029139	1.51351958
LOC100129908	-0.19991345	0.23042908	-1.51314276
DNAJC19	0.19990893	0.23042908	1.51310719
CD83	-0.19990170	0.23043385	-1.51305015

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LOC100130291	0.19964428	0.23116851	1.51102078	
HUWE1	0.19965742	0.23116851	1.51112443	
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SECISBP2L	0.19964941	0.23116851	1.51106129	
FUT11	-0.19958263	0.23129869	-1.51053486	
OR7A17	-0.19958362	0.23129869	-1.51054269	
ARHGAP19	0.19959507	0.23129869	1.51063288	
IL1RL2	-0.19959204	0.23129869	-1.51060904	
PI15	-0.19951992	0.23149191	-1.51004057	
ZNF451	0.19951083	0.23150300	1.50996893	
FAM86A	-0.19944067	0.23170830	-1.50941587	
PPP1R3D	-0.19943878	0.23170830	-1.50940102	
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NPAL3	0.19940594	0.23178035	1.50914219	
LOC168474	-0.19937212	0.23187558	-1.50887559	
PKN2	0.19935848	0.23190215	1.50876813	
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ERMP1	0.19932306	0.23199610	1.50848899	
AP1GBP1	0.19923144	0.23223538	1.50776694	
LCTL	-0.19923623	0.23223538	-1.50780464	
EIF4E3	0.19923186	0.23223538	1.50777024	
GABRB3	-0.19921518	0.23227094	-1.50763875	
ABI3BP	-0.19916971	0.23240598	-1.50728042	
TARSL2	-0.19912973	0.23250249	-1.50696538	
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SLC29A1	-0.19909668	0.23259526	-1.50670498	
LPIN1	-0.19895906	0.23303809	-1.50562055	
BDKRB1	0.19895521	0.23303809	1.50559024	
ARMC8	0.19893777	0.23307772	1.50545283	
AEN	-0.19892933	0.23308665	-1.50538629	

SRMS	-0.19889899	0.23317034	-1.50514724	
TIMP2	-0.19885792	0.23329073	-1.50482361	
FAM78A	-0.19880633	0.23344705	-1.50441722	
CLDN9	-0.19879949	0.23345053	-1.50436329	
FOXN3	0.19875052	0.23359798	1.50397752	
RPL27	0.19873038	0.23364694	1.50381879	
PRR10	-0.19871940	0.23366455	-1.50373230	
MYH7B	-0.19864117	0.23391222	-1.50311605	
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KIAA1467	0.19860421	0.23399724	1.50282483	
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C17orf56	-0.19856964	0.23405730	-1.50255252	
C11orf39	-0.19855276	0.23407517	-1.50241956	
CXCL14	-0.19855355	0.23407517	-1.50242576	
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SEP1	-0.19850446	0.23418070	-1.50203906	
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PCDHGB3	-0.19845544	0.23424141	-1.50165294	
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DDR1	0.19845384	0.23424141	1.50164031	
NDNL2	-0.19842857	0.23430089	-1.50144130	
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ALDH9A1	0.19839350	0.23434122	1.50116502	
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CYP2J2	0.19837523	0.23438383	1.50102115	
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TNK2	-0.19830742	0.23451639	-1.50048705	

GPD1L	0.19831178	0.23451639	1.50052139	
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C19orf68	-0.19829581	0.23452282	-1.50039565	
SNRPD3	0.19829390	0.23452282	1.50038054	
FAM29A	0.19828445	0.23453523	1.50030615	
ABCF2	0.19826961	0.23454620	1.50018922	
MAST3	-0.19827137	0.23454620	-1.50020316	
PCDHA1	-0.19826275	0.23454975	-1.50013519	
BCL2	-0.19824711	0.23458337	-1.50001208	
ZNF148	0.19824085	0.23458488	1.49996276	
TOX3	-0.19822378	0.23460533	-1.49982834	
HNRNPH1	0.19822324	0.23460533	1.49982406	
LOC100128414	-0.19821360	0.23461842	-1.49974815	
ZFP41	-0.19819139	0.23467460	-1.49957321	
BDH2	0.19817977	0.23469448	1.49948169	
SP2	-0.19815511	0.23475908	-1.49928747	
BAIAP3	0.19812088	0.23485649	1.49901792	
GAB2	-0.19808998	0.23494253	-1.49877454	
ZMYM4	0.19806626	0.23500393	1.49858776	
CHI3L1	-0.19805671	0.23501670	-1.49851260	
DZIP1	0.19804464	0.23503815	1.49841754	
ARL10	-0.19800241	0.23516313	-1.49808494	yes
FRAP1	0.19796822	0.23525438	1.49781574	
RPS15AP25	-0.19796419	0.23525438	-1.49778396	
STRADB	-0.19793622	0.23533042	-1.49756374	
ANKRD27	0.19789764	0.23544296	1.49725993	
TBC1D2	0.19786707	0.23552797	1.49701927	
IFIT5	0.19782554	0.23565072	1.49669221	
LRRFIP1	0.19781058	0.23568214	1.49657441	
ITGA9	-0.19779717	0.23570823	-1.49646882	
OBP2B	-0.19777137	0.23577690	-1.49626574	
DKKL1	-0.19775990	0.23578914	-1.49617540	
LOC284422	-0.19775617	0.23578914	-1.49614604	

NMNAT3	-0.19773546	0.23584034	-1.49598298
MS4A6E	-0.19771641	0.23588585	-1.49583297
NUDT17	-0.19770337	0.23591066	-1.49573035
SPN	-0.19766752	0.23599398	-1.49544804
UFD1L	0.19767236	0.23599398	1.49548614
PEX16	-0.19765948	0.23600159	-1.49538479
C20orf112	-0.19763393	0.23606945	-1.49518360
CAPZA1	0.19762812	0.23606945	1.49513789
TRPV3	-0.19759513	0.23615774	-1.49487814
PRR5	-0.19759083	0.23615774	-1.49484430
OR52I1	-0.19754446	0.23629734	-1.49447924
DDX43	-0.19749558	0.23644564	-1.49409445
IMPAD1	0.19747186	0.23650731	1.49390773
MAFB	-0.19742578	0.23664607	-1.49354495
DDX42	0.19741246	0.23664747	1.49344014
ARGFX	-0.19740791	0.23664747	-1.49340431
XRCC3	-0.19740865	0.23664747	-1.49341013
PPM1M	-0.19736073	0.23679006	-1.49303292
HCP5	0.19734212	0.23682259	1.49288644
NPR3	-0.19733966	0.23682259	-1.49286704
SNORD115-15	-0.19733215	0.23682842	-1.49280792
ATG16L1	0.19720924	0.23723245	1.49184049
NCRNA00083	-0.19719484	0.23724697	-1.49172712
UGT2B28	-0.19719339	0.23724697	-1.49171573
LOC645139	0.19717150	0.23730247	1.49154342
POLG2	0.19710898	0.23749522	1.49105138
HIC1	-0.19709823	0.23749522	-1.49096681
RRAGC	0.19709845	0.23749522	1.49096848
TARS2	0.19709175	0.23749752	1.49091575
CDH5	-0.19698777	0.23782290	-1.49009746
NUP214	0.19698016	0.23782290	1.49003754
ZNF430	-0.19698532	0.23782290	-1.49007816
FLJ39653	-0.19697105	0.23783425	-1.48996589

MPPED1	-0.19695503	0.23786953	-1.48983981	
FLNC	-0.19688560	0.23807614	-1.48929339	
CASKIN2	-0.19688367	0.23807614	-1.48927827	
LOC645870	-0.19683026	0.23824090	-1.48885793	
NINJ1	-0.19682389	0.23824279	-1.48880780	
SNORA29	0.19681521	0.23825268	1.48873952	
GPRIN2	-0.19680532	0.23826679	-1.48866165	
ANKRD50	0.19677432	0.23835395	1.48841779	
RNH1	0.19676081	0.23838061	1.48831142	
RNF175	-0.19674708	0.23840798	-1.48820344	
RNF219	0.19671807	0.23847841	1.48797515	
LYRM7	0.19671511	0.23847841	1.48795188	
LYPD5	-0.19667105	0.23861092	-1.48760520	
CTBP1	0.19664840	0.23864907	1.48742699	
RNF113A	-0.19664845	0.23864907	-1.48742734	
ST3GAL2	-0.19662830	0.23869859	-1.48726878	yes
TSHZ1	0.19661356	0.23872950	1.48715284	
SREBF2	0.19659692	0.23876700	1.48702195	
PFKFB4	-0.19649412	0.23910343	-1.48621315	
BAT3	0.19645597	0.23921568	1.48591296	
IRAK3	0.19634245	0.23957416	1.48501993	
SERPINE2	-0.19634113	0.23957416	-1.48500952	
SAMD5	-0.19630149	0.23969170	-1.48469772	
GPD2	0.19628795	0.23971852	1.48459123	
PDAP1	-0.19626623	0.23977381	-1.48442034	
KCND1	-0.19624193	0.23983808	-1.48422917	
C14orf106	0.19622408	0.23987989	1.48408881	
TSPAN2	0.19612674	0.24018174	1.48332315	
ADNP2	0.19612570	0.24018174	1.48331495	
CMPK2	-0.19610500	0.24021328	-1.48315207	
HMGB1	0.19610661	0.24021328	1.48316479	
CBLN1	-0.19606103	0.24034612	-1.48280625	
LBR	0.19599678	0.24054968	1.48230094	

SLFN12L	0.19598875	0.24055736	1.48223780
GBX1	-0.19596081	0.24061414	-1.48201806
PFKL	0.19596261	0.24061414	1.48203218
LOC100133399	-0.19592013	0.24073567	-1.48169811
DSP	0.19590408	0.24075101	1.48157188
PCDHB12	-0.19590640	0.24075101	-1.48159008
TMEM39A	0.19585820	0.24089072	1.48121106
PIGM	0.19584133	0.24092924	1.48107839
LMNB1	0.19582640	0.24096103	1.48096095
RPL37A	0.19580696	0.24100851	1.48080812
GGNBP2	0.19578631	0.24106027	1.48064567
FLJ27243	-0.19576200	0.24112480	-1.48045448
DHX15	0.19570780	0.24126306	1.48002828
EEF1A1	0.19570342	0.24126306	1.47999389
ADIPOR2	0.19569910	0.24126306	1.47995985
CCND2	-0.19571099	0.24126306	-1.48005337
FST	-0.19565984	0.24133915	-1.47965114
CREB3L4	-0.19567126	0.24133915	-1.47974094
LPXN	0.19566034	0.24133915	1.47965513
FBXO33	0.19564177	0.24138192	1.47950905
NR3C1	0.19562955	0.24140425	1.47941300
C18orf1	0.19558579	0.24153678	1.47906893
C3orf15	0.19556960	0.24157301	1.47894163
SLC25A2	-0.19551905	0.24172936	-1.47854414
CCNI	0.19549299	0.24175941	1.47833920
NDUFA13	-0.19549524	0.24175941	-1.47835689
PKM2	0.19550117	0.24175941	1.47840354
AUH	0.19544737	0.24189856	1.47798057
SLC9A3R2	-0.19543837	0.24190967	-1.47790979
RBM12B	0.19542660	0.24192777	1.47781724
ADAM21	-0.19542155	0.24192777	-1.47777756
ZBED4	0.19537192	0.24208104	1.47738735
RASSF9	0.19534667	0.24214904	1.47718881

MOBKL2B	-0.19533399	0.24217303	-1.47708915
LOC85391	0.19526028	0.24240779	1.47650962
PNMA1	0.19525530	0.24240779	1.47647052
IPO8	0.19523225	0.24246815	1.47628926
SECTM1	-0.19521866	0.24249533	-1.47618249
LOC641367	-0.19518109	0.24260660	-1.47588709
RAB15	-0.19515010	0.24267586	-1.47564352
CRCT1	-0.19514968	0.24267586	-1.47564019
SHPK	0.19513241	0.24271597	1.47550445
TMEM168	0.19512479	0.24272228	1.47544454
PGBD2	0.19510896	0.24275734	1.47532013
AVIL	0.19505818	0.24291501	1.47492093
OCLM	-0.19502654	0.24300557	-1.47467223
KPNA7	0.19493359	0.24329113	1.47394165
TPM4	-0.19493353	0.24329113	-1.47394119
CDCA5	-0.19492552	0.24329883	-1.47387818
LRRC29	-0.19487938	0.24344042	-1.47351553
ANG	-0.19482728	0.24356752	-1.47310606
TNPO2	0.19482870	0.24356752	1.47311724
ZNF556	-0.19482572	0.24356752	-1.47309385
NEU1	0.19479987	0.24363791	1.47289065
CLEC12A	-0.19477193	0.24369515	-1.47267110
SKIV2L2	0.19477443	0.24369515	1.47269075
IQSEC2	-0.19475394	0.24372692	-1.47252967
ACER3	0.19475125	0.24372692	1.47250852
ZNF512	0.19474419	0.24373126	1.47245305
C13orf34	0.19472878	0.24375669	1.47233198
MLF2	-0.19472531	0.24375669	-1.47230467
MCM4	0.19470841	0.24379561	1.47217188
COL29A1	-0.19469564	0.24379956	-1.47207154
TSPAN8	0.19470137	0.24379956	1.47211653
C2orf81	0.19468252	0.24382525	1.47196836
TBC1D15	0.19467108	0.24384499	1.47187848

PROKR2	-0.19463786	0.24394132	-1.47161745
SNORA5A	0.19457057	0.24415758	1.47108863
ODF3L1	-0.19456255	0.24416530	-1.47102562
CREB3L1	-0.19454271	0.24421462	-1.47086975
CEACAM20	-0.19453261	0.24422968	-1.47079036
C1orf100	-0.19452433	0.24423834	-1.47072528
PRRG3	-0.19445214	0.24447203	-1.47015800
ZNF45	0.19439202	0.24466329	1.46968568
ARL11	-0.19436619	0.24472652	-1.46948272
OR2V2	-0.19436244	0.24472652	-1.46945321
APLNR	-0.19433478	0.24480349	-1.46923588
SNORD73A	0.19432816	0.24480629	1.46918389
LOC100130289	-0.19430949	0.24482235	-1.46903721
LEFTY1	-0.19431182	0.24482235	-1.46905552
NDUFS5	0.19430614	0.24482235	1.46901084
ATP13A4	0.19429080	0.24485590	1.46889031
HERC1	0.19423494	0.24501560	1.46845147
PRPF3	-0.19423386	0.24501560	-1.46844301
CAMP	-0.19420080	0.24511116	-1.46818325
ZC3H8	0.19418931	0.24511116	1.46809295
MAPKAPK5	0.19419139	0.24511116	1.46810935
GSTM5	-0.19416217	0.24518638	-1.46787973
CHCHD8	0.19413917	0.24524698	1.46769907
KIAA1586	0.19410430	0.24534951	1.46742513
HLA-B	0.19409456	0.24536334	1.46734861
ANGPTL2	-0.19407604	0.24540816	-1.46720315
MIDN	-0.19406114	0.24544024	-1.46708603
FAM181A	-0.19403619	0.24550778	-1.46689006
LOC401127	-0.19402668	0.24552079	-1.46681539
SNORA52	-0.19401715	0.24553209	-1.46674052
WDR25	0.19401184	0.24553209	1.46669879
PTPLA	-0.19396923	0.24566205	-1.46636405
CCR7	-0.19392393	0.24580156	-1.46600819

RASGRF2	-0.19390684	0.24584137	-1.46587398
C7orf13	0.19388055	0.24591374	1.46566745
TRUB1	0.19386364	0.24595295	1.46553461
PHC3	0.19384672	0.24599219	1.46540171
DSG1	-0.19382791	0.24601751	-1.46525401
OR1D5	-0.19382988	0.24601751	-1.46526944
ASAH2	-0.19378736	0.24614034	-1.46493552
ACOT4	-0.19373527	0.24627177	-1.46452637
PPIA	0.19373330	0.24627177	1.46451091
THSD1	-0.19373275	0.24627177	-1.46450659
NUPR1	-0.19371889	0.24627961	-1.46439775
ZCCHC7	0.19372296	0.24627961	1.46442964
PHLDB1	-0.19364816	0.24650939	-1.46384220
TRIM16	0.19360389	0.24660432	1.46349450
GSK3A	-0.19360694	0.24660432	-1.46351844
ANKRD30A	-0.19360393	0.24660432	-1.46349485
SDSL	-0.19359510	0.24661484	-1.46342548
HLA-DPB1	0.19357148	0.24667788	1.46323998
MCM3	0.19355206	0.24672607	1.46308744
KLHL31	-0.19351320	0.24684313	-1.46278229
ALDOC	-0.19348508	0.24692216	-1.46256148
ACSM3	-0.19344458	0.24704513	-1.46224339
C17orf76	-0.19342694	0.24707519	-1.46210490
DEFB131	-0.19342446	0.24707519	-1.46208539
FBLN2	-0.19337590	0.24722676	-1.46170412
PSG7	-0.19331853	0.24740969	-1.46125361
PIP5K1A	0.19328895	0.24747338	1.46102130
SLC5A6	0.19329285	0.24747338	1.46105199
AGBL3	0.19326911	0.24752311	1.46086559
HLA-DQB1	0.19324863	0.24757517	1.46070477
RAB11B	0.19323938	0.24758735	1.46063212
AGTR2	-0.19320807	0.24767629	-1.46038629
SNORA6	-0.19320269	0.24767629	-1.46034407

PIK3CB	0.19317983	0.24773683	1.46016452
NAPSB	-0.19316772	0.24773849	-1.46006945
ILF2	0.19316900	0.24773849	1.46007953
HSF2BP	-0.19313438	0.24783626	-1.45980770
SCN4B	-0.19309476	0.24795638	-1.45949662
NOP10	0.19307156	0.24801816	1.45931445
THBS2	-0.19306180	0.24803217	-1.45923782
MREG	0.19305324	0.24804190	1.45917063
KIAA0895L	-0.19301429	0.24815968	-1.45886488
LOC100128203	-0.19298431	0.24824562	-1.45862949
LOC100128576	0.19295717	0.24828003	1.45841644
KIFC3	-0.19296104	0.24828003	-1.45844680
SELT	0.19296192	0.24828003	1.45845371
PNRC1	0.19285789	0.24861267	1.45763703
RFFL	0.19283788	0.24864244	1.45747999
PARVA	0.19284315	0.24864244	1.45752135
FAM178A	0.19283014	0.24864926	1.45741925
CREBZF	0.19280833	0.24868549	1.45724801
MAGI1	-0.19280943	0.24868549	-1.45725667
PCNP	0.19279741	0.24870367	1.45716225
WDR32	0.19275476	0.24883483	1.45682751
FBXO17	-0.19274815	0.24883763	-1.45677564
C6orf120	0.19270320	0.24892942	1.45642274
UNQ9370	-0.19270721	0.24892942	-1.45645429
RPS8P7	-0.19270625	0.24892942	-1.45644673
ALG8	0.19269911	0.24892942	1.45639068
PDE10A	-0.19263555	0.24909661	-1.45589181
PACS2	-0.19263474	0.24909661	-1.45588542
SMARCB1	0.19263761	0.24909661	1.45590799
PHTF2	0.19257219	0.24927813	1.45539448
CEP63	0.19257663	0.24927813	1.45542935
MT1L	0.19256037	0.24927879	1.45530167
TLK1	0.19256118	0.24927879	1.45530804

CRIP1	0.19251968	0.24940317	1.45498234	
SAMD8	0.19251241	0.24940832	1.45492532	
SPATS2	-0.19250066	0.24942950	-1.45483306	
MAPKBP1	0.19247860	0.24948745	1.45465991	
SPRYD4	0.19244643	0.24958146	1.45440749	
COL5A2	-0.19242083	0.24959654	-1.45420657	
C14orf181	-0.19241987	0.24959654	-1.45419898	
MET	0.19241894	0.24959654	1.45419169	
DNAJC7	0.19243569	0.24959654	1.45432315	
SMCP	-0.19240508	0.24962523	-1.45408293	
TMEM202	-0.19230294	0.24995468	-1.45328136	
SPARCL1	-0.19230118	0.24995468	-1.45326759	
ZNF507	0.19229479	0.24995675	1.45321739	yes
ZEB1	-0.19228823	0.24995938	-1.45316594	

genename	r-value	FDR	t-value	CMH-associated
SNORD116-1	-0.56761173	0.01834264	-5.11300836	
SNORD116-4	-0.57321742	0.01834264	-5.18803630	
SNORD116-6	-0.56550258	0.01834264	-5.08505244	
SNORD116-8	-0.56521539	0.01834264	-5.08125733	
SNORD116-23	-0.57802032	0.01834264	-5.25318120	
SNORD116-14	-0.51283448	0.02415593	-4.43021276	
RAMP2	-0.51748091	0.02415593	-4.48494183	
BVES	-0.51933473	0.02415593	-4.50692788	
LRRC3B	-0.51372718	0.02415593	-4.44068622	
OR4X2	-0.51443956	0.02415593	-4.44905812	
CTSB	0.52164455	0.02415593	4.53444405	
UPP2	-0.55153296	0.02415593	-4.90350982	
FOXF1	-0.53133424	0.02415593	-4.65138769	
GLT25D2	-0.54702295	0.02415593	-4.84618970	
CSTF2T	0.54000712	0.02415593	4.75821333	
EXOSC2	0.52736268	0.02415593	4.60315554	
C8orf46	-0.52708395	0.02415593	-4.59978623	
GLUL	0.51223597	0.02415593	4.42320180	
AQP11	-0.51658134	0.02415593	-4.47430409	
BLOC1S2	0.53810519	0.02415593	4.73460727	
NBPF22P	-0.51510808	0.02415593	-4.45692600	
GRB14	-0.52096610	0.02415593	-4.52634773	
CTNNA3	-0.53275428	0.02415593	-4.66873648	
EMR4P	-0.52549930	0.02415593	-4.58067054	
IMPA2	0.53359955	0.02415593	4.67908925	
NDUFA9	0.51231101	0.02415593	4.42408031	
REEP2	-0.51248822	0.02415593	-4.42615552	
ANAPC7	0.53509246	0.02415593	4.69742242	
SOX18	-0.52200385	0.02415593	-4.53873658	
RHBDL2	0.53866819	0.02415593	4.74158441	
LMOD3	-0.52602161	0.02415593	-4.58696380	
PTMS	-0.54791513	0.02415593	-4.85748063	yes

PURB	0.51793355	0.02415593	4.49030206	
HIF3A	-0.51361831	0.02415593	-4.43940785	
WIPF3	-0.52046938	0.02415593	-4.52042762	
LOC646359	-0.53375952	0.02415593	-4.68105086	
VHL	0.51257872	0.02415593	4.42721569	
DGKI	-0.52709299	0.02415593	-4.59989554	
FRAG1	0.50936527	0.02494488	4.38969512	
GNAO1	-0.50848101	0.02494488	-4.37941408	yes
STOML2	0.50949262	0.02494488	4.39117734	
FXYD3	0.50902067	0.02494488	4.38568626	
MXRA8	-0.50831163	0.02494488	-4.37744687	
UCRC	0.50673439	0.02536245	4.35916145	
UBAP1	0.50679027	0.02536245	4.35980824	
SNORD115-25	-0.50230457	0.02583597	-4.30811866	
SNORD115-32	-0.49710672	0.02583597	-4.24880384	
LOC100127905	-0.49387385	0.02583597	-4.21221975	
SSX10	-0.49702914	0.02583597	-4.24792317	
CDKN1C	-0.49246356	0.02583597	-4.19633323	
SLMO1	-0.49935677	0.02583597	-4.27440449	
LRRC15	-0.50280489	0.02583597	-4.31386063	
COX7A1	-0.49438292	0.02583597	-4.21796518	
TRIM50	-0.50333324	0.02583597	-4.31993063	
CXorf39	0.49847943	0.02583597	4.26440872	yes
TTC7B	-0.50249656	0.02583597	-4.31032132	
ADRA2B	-0.49822084	0.02583597	-4.26146580	
DGKG	-0.50367342	0.02583597	-4.32384230	yes
ZNF423	-0.49851058	0.02583597	-4.26476332	
SMPX	-0.49401876	0.02583597	-4.21385463	
C1orf144	0.50140952	0.02583597	4.29786078	
GNAZ	-0.49651521	0.02583597	-4.24209270	
C10orf53	-0.49610357	0.02583597	-4.23742696	
LOC285943	-0.50554517	0.02583597	-4.34541346	
EIF6	0.49449226	0.02583597	4.21919988	

KRT19	0.49397768	0.02583597	4.21339114	
LOC388955	0.49529727	0.02583597	4.22829890	
MAP3K15	-0.49225801	0.02583597	-4.19402139	
C15orf58	0.49896750	0.02583597	4.26996722	
PSMC5	0.49244663	0.02583597	4.19614268	
RPL34	0.49800102	0.02583597	4.25896538	
PERP	0.49814709	0.02583597	4.26062676	
BST1	-0.49228076	0.02583597	-4.19427715	
UMPS	0.49296717	0.02583597	4.20200118	
TKTL2	-0.50163393	0.02583597	-4.30043095	
EFTUD2	0.49480349	0.02583597	4.22271605	
MED20	0.49588623	0.02583597	4.23496502	
SNORD116-15	-0.48925288	0.02716686	-4.16032777	
KTI12	0.48924293	0.02716686	4.16021658	
RAB39B	-0.48937814	0.02716686	-4.16172824	
MN1	-0.49023884	0.02716686	-4.17136078	yes
NPLOC4	0.48922890	0.02716686	4.16005967	
ADORA2B	0.48831374	0.02719953	4.14983825	
GSTP1	0.48791281	0.02719953	4.14536586	
HOX A3	-0.48822168	0.02719953	-4.14881096	
NDUFS3	0.48825056	0.02719953	4.14913323	
RBM3	0.48742009	0.02738153	4.13987438	
LOC729080	-0.48647592	0.02803057	-4.12936570	
LOC146336	-0.48536520	0.02855115	-4.11702763	
ESX1	-0.48547007	0.02855115	-4.11819146	
CCDC83	-0.48452138	0.02912527	-4.10767175	
LIMS2	-0.48393763	0.02943096	-4.10120826	yes
BCL2L13	0.48359946	0.02947665	4.09746715	
C1orf163	0.48291376	0.02990216	4.08988867	
SNRPD1	0.48251225	0.03002345	4.08545566	
HLX	-0.48166060	0.03032938	-4.07606392	
RPL18	0.48174412	0.03032938	4.07698430	
ATP1B2	-0.48136850	0.03033993	-4.07284618	

TCEAL2	-0.48068174	0.03079050	-4.06528792	
SNORD116-2	-0.47981548	0.03081730	-4.05576798	
SERPINB1	0.47941777	0.03081730	4.05140250	
TFIP11	0.47957249	0.03081730	4.05310035	
C9orf11	-0.47929407	0.03081730	-4.05004525	
ALX1	-0.48025498	0.03081730	-4.06059606	
FAM163A	-0.47896292	0.03089025	-4.04641362	
GATA6	-0.47827612	0.03114577	-4.03888882	
PARVB	-0.47820949	0.03114577	-4.03815935	yes
ROR1	-0.47670368	0.03256909	-4.02169684	
SNUPN	0.47602735	0.03305967	4.01431769	
SNORD116-24	-0.47478461	0.03340362	-4.00078261	
OSR1	-0.47398732	0.03340362	-3.99211537	
RP11-410N8.4	-0.47490269	0.03340362	-4.00206730	
C20orf199	0.47430241	0.03340362	3.99553915	
IMP3	0.47470242	0.03340362	3.99988859	
ANKS1B	-0.47414709	0.03340362	-3.99385118	
RTN1	-0.47470928	0.03340362	-3.99996321	
CHST14	-0.47339789	0.03381721	-3.98571592	
HOXB3	-0.47304835	0.03394797	-3.98192423	
TBC1D4	-0.47233334	0.03452394	-3.97417550	yes
LOC100129654	-0.47070253	0.03474989	-3.95653984	
GABRG3	-0.47118703	0.03474989	-3.96177387	
GUCY1A2	-0.47112149	0.03474989	-3.96106559	
HTR1B	-0.47097214	0.03474989	-3.95945184	
ROPN1	-0.47049404	0.03474989	-3.95428907	
C3orf14	0.47029862	0.03474989	3.95218001	
HIATL1	0.47031274	0.03474989	3.95233241	
CACNA1H	-0.47190623	0.03474989	-3.96955169	
TESC	-0.47005133	0.03477863	-3.94951234	yes
TMEM85	0.46972907	0.03490079	3.94603766	
PSME3	0.46912163	0.03502064	3.93949368	
COX6A1	0.46897679	0.03502064	3.93793435	

UNC45B	-0.46897365	0.03502064	-3.93790062	yes
NIP7	0.46847967	0.03536182	3.93258556	
LOC100129532	-0.46290980	0.03547944	-3.87298071	
PDCD6	0.46569041	0.03547944	3.90266285	
ADCY1	-0.45857791	0.03547944	-3.82702827	yes
AP1S3	0.46482909	0.03547944	3.89345281	
STK35	0.45956191	0.03547944	3.83743587	
TMEM199	0.45662771	0.03547944	3.80645396	
ZNF560	-0.45820389	0.03547944	-3.82307704	
ADRA1A	-0.46225270	0.03547944	-3.86598767	yes
C3orf55	-0.45602596	0.03547944	-3.80011964	
DRD2	-0.46324018	0.03547944	-3.87649977	
LCE4A	-0.46522548	0.03547944	-3.89768966	
OR5D14	-0.46687245	0.03547944	-3.91532528	
IKZF2	0.46134882	0.03547944	3.85638164	yes
FOXC1	-0.45945683	0.03547944	-3.83632362	
FOXE3	-0.45658122	0.03547944	-3.80596428	
FOXC2	-0.46463331	0.03547944	-3.89136131	
PLCB1	-0.46020736	0.03547944	-3.84427243	
CAMTA1	-0.45933845	0.03547944	-3.83507079	
C1orf43	0.46513402	0.03547944	3.89671182	
FOXB1	-0.46598398	0.03547944	-3.90580513	
SLC9A10	-0.45721196	0.03547944	-3.81261037	
C3orf70	-0.46669647	0.03547944	-3.91343850	
ILDR1	0.45856162	0.03547944	3.82685614	
NOB1	0.46020894	0.03547944	3.84428915	
GTF3C2	0.46520865	0.03547944	3.89750965	
HOXB1	-0.46458804	0.03547944	-3.89087779	
FIGLA	-0.46101854	0.03547944	-3.85287538	
RBPM52	-0.45911096	0.03547944	-3.83266407	
KRTAP10-11	-0.45903596	0.03547944	-3.83187077	
OR52E4	-0.45982241	0.03547944	-3.84019413	
FLJ42418	-0.45637989	0.03547944	-3.80384444	

UFSP1	-0.45644978	0.03547944	-3.80458029	
TACSTD2	0.45854399	0.03547944	3.82666983	
M6PR	0.45801349	0.03547944	3.82106659	
NDUFS2	0.46393685	0.03547944	3.88392703	
F11R	0.46051468	0.03547944	3.84753027	
RAB9B	-0.46746021	0.03547944	-3.92163163	
PDE3A	-0.46700561	0.03547944	-3.91675346	
FTHL17	-0.45740687	0.03547944	-3.81466566	
PRKAR2B	-0.46624158	0.03547944	-3.90856386	
PSMB4	0.45713470	0.03547944	3.81179596	
KIAA1191	0.45673110	0.03547944	3.80754291	
PTPN1	0.46313904	0.03547944	3.87542219	
RPL8	0.45925616	0.03547944	3.83420014	
SOX17	-0.45753483	0.03547944	-3.81601528	
SLC2A1	0.46801369	0.03547944	3.92757624	
RASL11B	-0.45689122	0.03547944	-3.80922989	
TPM1	-0.45623819	0.03547944	-3.80235294	
TTR	-0.45809632	0.03547944	-3.82194106	
HIRA	0.46671463	0.03547944	3.91363318	
UBC	0.45871855	0.03547944	3.82851470	
MRPL49	0.45923416	0.03547944	3.83396741	
SNORD114-3	-0.45637141	0.03547944	-3.80375517	yes
PLBD1	0.46016720	0.03547944	3.84384689	
MOGAT2	-0.45766875	0.03547944	-3.81742812	
FHOD3	-0.46038993	0.03547944	-3.84620758	
LIMD2	-0.45639862	0.03547944	-3.80404167	
FAM117A	-0.45889069	0.03547944	-3.83033462	
CAPN2	0.46732077	0.03547944	3.92013493	
MGC13057	-0.45828396	0.03547944	-3.82392269	
VPS25	0.46406422	0.03547944	3.88528594	
CSDA	0.46431770	0.03547944	3.88799123	
UNC5C	-0.46317996	0.03547944	-3.87585816	
SGPL1	0.46373738	0.03547944	3.88179954	

HSPB3	-0.46085964	0.03547944	-3.85118915	
CCDC109A	0.46025465	0.03547944	3.84477367	yes
ATP6V0D1	0.45669260	0.03547944	3.80713740	
B4GALT5	0.45612913	0.03547944	3.80120520	
PPP1R14A	-0.46029936	0.03547944	-3.84524751	
SETDB1	0.46127824	0.03547944	3.85563212	
PLEKHB2	0.45575173	0.03563194	3.79723508	
PDE12	0.45547939	0.03578340	3.79437180	
G3BP1	0.45493532	0.03583839	3.78865563	
SYNPO	-0.45457161	0.03583839	-3.78483746	
TRAM1L1	-0.45464926	0.03583839	-3.78565239	yes
SUMF1	0.45480627	0.03583839	3.78730065	
GPR150	-0.45484057	0.03583839	-3.78766071	
NCK2	0.45461576	0.03583839	3.78530075	
PIIF	0.44933569	0.03607295	3.73013286	
GDF11	-0.45210821	0.03607295	-3.75903915	yes
RPP38	0.45109132	0.03607295	3.74842125	
WASF3	-0.45326049	0.03607295	-3.77109305	
CYP46A1	-0.45156988	0.03607295	-3.75341585	
DUSP15	-0.45023639	0.03607295	-3.73950869	
CNTNAP5	-0.44934796	0.03607295	-3.73026053	
PIP5KL1	-0.45097073	0.03607295	-3.74716336	
DACT3	-0.44913786	0.03607295	-3.72807544	
CTRB1	-0.44946251	0.03607295	-3.73145216	
SMYD1	-0.44997675	0.03607295	-3.73680450	
GLIPR2	0.45245911	0.03607295	3.76270738	yes
AHSG	-0.44914118	0.03607295	-3.72811003	
TXLNA	0.45192557	0.03607295	3.75713080	
OR8J1	-0.45059911	0.03607295	-3.74328842	
DAGLB	0.45310718	0.03607295	3.76948792	
RPIA	0.44914366	0.03607295	3.72813578	
KIAA0802	-0.44971801	0.03607295	-3.73411090	
ADAT1	0.45341893	0.03607295	3.77275233	yes

MTCH2	0.44920312	0.03607295	3.72875410	
WDR40A	0.45277525	0.03607295	3.76601415	
CACYBP	-0.45338427	0.03607295	-3.77238934	
GPBR	-0.45072325	0.03607295	-3.74458256	
HPCAL1	-0.45326927	0.03607295	-3.77118496	
ARF1	0.45245305	0.03607295	3.76264397	
INCA1	-0.45100886	0.03607295	-3.74756112	
ACCSL	-0.45274155	0.03607295	-3.76566152	
MYL1	-0.45413020	0.03607295	-3.78020671	
FBXO40	-0.45285379	0.03607295	-3.76683585	
POLR2D	0.44966750	0.03607295	3.73358515	
HTRA1	-0.45238675	0.03607295	-3.76195072	yes
PTGER3	-0.45321796	0.03607295	-3.77064768	
RFC2	0.45108842	0.03607295	3.74839104	
MRPS35	0.45115590	0.03607295	3.74909501	
C6orf106	0.44948638	0.03607295	3.73170052	
RPL23AP64	-0.45056589	0.03607295	-3.74294220	yes
KIAA1772	-0.45265999	0.03607295	-3.76480835	
AIF1L	-0.45149472	0.03607295	-3.75263117	
TAGLN2	0.45086454	0.03607295	3.74605580	
H2AFY	0.44976753	0.03607295	3.73462630	yes
CNTN6	-0.44887634	0.03612297	-3.72535675	
LDLRAD2	-0.44885415	0.03612297	-3.72512618	
FRZB	-0.44848531	0.03614507	-3.72129399	
NFYA	0.44864776	0.03614507	3.72298145	
PCBP2	0.44835756	0.03614507	3.71996723	
TTY5	-0.44836834	0.03614507	-3.72007919	
ASB2	-0.44799993	0.03628887	-3.71625453	
PSMB3	0.44803580	0.03628887	3.71662684	
EIF4A1	0.44725728	0.03667451	3.70855199	
HNRNPF	0.44742306	0.03667451	3.71027065	yes
GFI1B	-0.44720846	0.03667451	-3.70804605	
MCART1	-0.44739355	0.03667451	-3.70996464	

MEX3B	-0.44664465	0.03721444	-3.70220522	
HINT1	0.44649197	0.03725909	3.70062450	
COPS6	0.44613999	0.03754729	3.69698186	
KCNK1	0.44601209	0.03756280	3.69565878	
ANXA11	0.44583769	0.03763570	3.69385514	
MYBPHL	-0.44553038	0.03787249	-3.69067817	
GRID2	-0.44530185	0.03801353	-3.68831672	
DPYS	-0.44434020	0.03815612	-3.67838947	
OR2F1	-0.44428681	0.03815612	-3.67783883	
PDZRN4	-0.44469475	0.03815612	-3.68204771	
NAGA	0.44428636	0.03815612	3.67783417	
LEFTY2	-0.44430228	0.03815612	-3.67799834	
GLYATL1	-0.44462480	0.03815612	-3.68132581	
MARS2	0.44441309	0.03815612	3.67914133	
TRIP4	0.44476483	0.03815612	3.68277099	yes
C9orf96	-0.44397648	0.03823028	-3.67463887	
LYSMD2	-0.44367551	0.03823028	-3.67153703	
KCNC3	-0.44369094	0.03823028	-3.67169610	
MGC44328	-0.44385082	0.03823028	-3.67334367	
SOCS1	-0.44399769	0.03823028	-3.67485757	
TMEM186	0.44343446	0.03839359	3.66905392	
POLR3K	0.44313816	0.03862669	3.66600300	
NKX6-1	-0.44299044	0.03867556	-3.66448247	
CTTN	0.44235860	0.03869539	3.65798308	
KLHL18	0.44266317	0.03869539	3.66111518	
SAMM50	0.44238606	0.03869539	3.65826537	
ANXA2	0.44262613	0.03869539	3.66073420	yes
PSMD13	0.44264304	0.03869539	3.66090807	
HIST1H4G	-0.44233035	0.03869539	-3.65769265	
SCML4	-0.44114439	0.03925757	-3.64551211	
HOXD4	-0.44126748	0.03925757	-3.64677523	yes
IGFBPL1	-0.44116860	0.03925757	-3.64576052	
FIGN	-0.44149370	0.03925757	-3.64909725	

PRB1	-0.44147495	0.03925757	-3.64890482	
RPS3A	-0.44114786	0.03925757	-3.64554776	
RNF25	0.44093660	0.03925757	3.64338048	
LOC652904	-0.44154812	0.03925757	-3.64965600	
CGNL1	-0.44094992	0.03925757	-3.64351713	
ZC3H12B	-0.44062361	0.03952200	-3.64017097	
SLC1A2	-0.44050704	0.03953890	-3.63897596	
LOC646508	-0.44037111	0.03958069	-3.63758289	
OR5F1	-0.44019954	0.03966809	-3.63582500	
MGAT5B	-0.43965301	0.03978364	-3.63022846	
BMPER	-0.43970169	0.03978364	-3.63072678	
PP13004	-0.43959974	0.03978364	-3.62968328	yes
FNDC8	-0.43970372	0.03978364	-3.63074752	
CILP	-0.43991605	0.03978364	-3.63292141	
LOC100129427	-0.43534037	0.04009012	-3.58624102	
GNB2L1	0.43889708	0.04009012	3.62249591	
C7orf31	-0.43673684	0.04009012	-3.60045088	
ATP6V0E2	-0.43646189	0.04009012	-3.59765050	
OR56B4	-0.43611242	0.04009012	-3.59409301	
ETV5	-0.43665656	0.04009012	-3.59963302	
CNKS2	-0.43702270	0.04009012	-3.60336355	
NPTXR	-0.43626968	0.04009012	-3.59569366	
TBC1D28	-0.43569066	0.04009012	-3.58980237	
TTC9C	0.43851860	0.04009012	3.61862795	yes
C15orf60	-0.43640683	0.04009012	-3.59708995	yes
MRPL15	0.43526276	0.04009012	3.58545222	
HSBP1	0.43878926	0.04009012	3.62139378	yes
VSTM2B	-0.43807274	0.04009012	-3.61407447	
EVX2	-0.43816175	0.04009012	-3.61498329	yes
IGFL3	-0.43735808	0.04009012	-3.60678261	
OR2L3	-0.43886205	0.04009012	-3.62213786	
C13orf36	-0.43540075	0.04009012	-3.58685466	
OR14I1	-0.43618334	0.04009012	-3.59481482	

IGLON5	-0.43683835	0.04009012	-3.60148499	
RNASE13	-0.43529380	0.04009012	-3.58576765	
FOXB2	-0.43802299	0.04009012	-3.61356655	
ASTN1	-0.43582041	0.04009012	-3.59112205	
HN1	0.43577922	0.04009012	3.59070301	
IGF2AS	-0.43864854	0.04009012	-3.61995560	
C11orf71	0.43594506	0.04009012	3.59239011	
AVPR1A	-0.43661456	0.04009012	-3.59920532	
PRB4	-0.43735202	0.04009012	-3.60672079	
PIGV	0.43682984	0.04009012	3.60139834	
GALNTL1	-0.43565260	0.04009012	-3.58941529	yes
XCL1	-0.43786348	0.04009012	-3.61193847	
MANBAL	0.43757269	0.04009012	3.60897145	
MRPL44	0.43760761	0.04009012	3.60932766	
TACR2	-0.43579507	0.04009012	-3.59086426	
KLF5	0.43582948	0.04009012	3.59121426	
CA4	-0.43630150	0.04009012	-3.59601760	
FAM18A	-0.43706325	0.04009012	-3.60377688	
SFRS9	0.43546989	0.04009012	3.58755757	
FGF18	-0.43900001	0.04009012	-3.62354828	
FUBP3	0.43740466	0.04009012	3.60725768	
KL	-0.43751595	0.04009012	-3.60839266	
PIGS	0.43900644	0.04009012	3.62361398	
VPS4B	0.43663642	0.04009012	3.59942789	
USP42	0.43505276	0.04024220	3.58331838	yes
C1QL1	-0.43492680	0.04028830	-3.58203880	
NR2C2AP	0.43472320	0.04043336	3.57997115	
LOC100130518	-0.43406236	0.04093691	-3.57326446	yes
HOXB6	-0.43406458	0.04093691	-3.57328703	yes
PRPS2	0.43409444	0.04093691	3.57358992	
C21orf125	-0.43359856	0.04142155	-3.56856186	
PYGO1	-0.43334336	0.04149835	-3.56597572	
ARHGAP6	-0.43318677	0.04149835	-3.56438944	

OXA1L	0.43324764	0.04149835	3.56500597	
TSHR	-0.43324312	0.04149835	-3.56496025	
BMP10	-0.43285908	0.04158341	-3.56107106	
WDR55	0.43298133	0.04158341	3.56230888	
NR2F2	-0.43286966	0.04158341	-3.56117819	
RP11-218C14.6	-0.43266513	0.04172269	-3.55910793	
SGCA	-0.43183550	0.04270153	-3.55071711	
CACNG8	-0.43152995	0.04287775	-3.54762959	
RBP3	-0.43157537	0.04287775	-3.54808846	
GTF2E2	0.43131929	0.04292857	3.54550180	yes
GNL3L	0.43134598	0.04292857	3.54577140	
LOC100129434	-0.43103169	0.04308733	-3.54259811	
LOC100132750	-0.42864289	0.04308733	-3.51853045	
AHCYL1	0.42956457	0.04308733	3.52780581	
LMAN2	0.42902324	0.04308733	3.52235645	
KLK8	-0.42930056	0.04308733	-3.52514754	
ODF3	-0.42945877	0.04308733	-3.52674039	
RP11-431O22.2	-0.43041461	0.04308733	-3.53637211	
CLDN4	0.42896448	0.04308733	3.52176525	
ZBTB46	-0.42885710	0.04308733	-3.52068494	
ENO1	0.42800054	0.04308733	3.51207406	
HEPACAM	-0.42838813	0.04308733	-3.51596900	
FZD2	-0.42808057	0.04308733	-3.51287813	
FRMD3	-0.43033014	0.04308733	-3.53552040	
SUSD5	-0.42927263	0.04308733	-3.52486640	
PCOLCE2	-0.43025919	0.04308733	-3.53480503	
ZSCAN1	-0.43047766	0.04308733	-3.53700797	
HOXB7	-0.42816316	0.04308733	-3.51370793	
APOBEC1	-0.43080087	0.04308733	-3.54026853	
HMX3	-0.42888184	0.04308733	-3.52093382	
IGF2	-0.42860562	0.04308733	-3.51815565	
KRTAP10-2	-0.42844269	0.04308733	-3.51651748	
KRTAP10-12	-0.42876737	0.04308733	-3.51978233	

OR52E8	-0.42799390	0.04308733	-3.51200732	
LOC441476	-0.42858675	0.04308733	-3.51796584	
FOXP3	-0.43056058	0.04308733	-3.53784438	
CMAS	0.43091331	0.04308733	3.54140325	
TRIB3	-0.43095265	0.04308733	-3.54180027	
ZNF410	0.42917764	0.04308733	3.52391022	yes
PRDM13	-0.42798979	0.04308733	-3.51196608	
TSPAN31	0.43049435	0.04308733	3.53717632	
CXCL5	-0.42808611	0.04308733	-3.51293379	
PKNOX2	-0.42922809	0.04308733	-3.52441801	
hCG_1793639	-0.42927098	0.04308733	-3.52484975	
TULP2	-0.42965690	0.04308733	-3.52873571	
TNFAIP8L2	-0.42960641	0.04308733	-3.52822713	
POLR1B	0.42800133	0.04308733	3.51208199	
KIAA1755	-0.42946421	0.04308733	-3.52679508	
HIST3H2A	0.43048841	0.04308733	3.53711636	
MVP	0.42835191	0.04308733	3.51560490	
NMNAT2	-0.42769004	0.04338175	-3.50895554	
C10orf27	-0.42759612	0.04340229	-3.50801249	
OR13C8	-0.42728025	0.04340677	-3.50484204	
LOC728115	0.42735882	0.04340677	3.50563053	
LOC100133430	-0.42733504	0.04340677	-3.50539187	
FIBCD1	-0.42729623	0.04340677	-3.50500243	
FAM132B	-0.42688812	0.04382820	-3.50090844	
M6PRBP1	0.42600583	0.04395212	3.49206646	
C11orf40	-0.42618480	0.04395212	-3.49385900	
FAM19A4	-0.42591654	0.04395212	-3.49117232	
C9orf25	-0.42564875	0.04395212	-3.48849142	
C11orf35	-0.42577362	0.04395212	-3.48974135	
TRUB2	0.42582755	0.04395212	3.49028122	
INHA	-0.42654877	0.04395212	-3.49750609	
ZNF295	0.42594248	0.04395212	3.49143201	
C9orf95	0.42579145	0.04395212	3.48991979	

COQ9	0.42611147	0.04395212	3.49312448
MARCKSL1	-0.42613295	0.04395212	-3.49333965
VIP	-0.42596706	0.04395212	-3.49167813
C10orf11	-0.42590896	0.04395212	-3.49109636
RAE1	0.42602695	0.04395212	3.49227795
CRADD	0.42566835	0.04395212	3.48868759
THUMPD3	0.42542407	0.04408034	3.48624289
ZDHHC16	0.42540322	0.04408034	3.48603426
LPCAT3	0.42336146	0.04408397	3.46563831
WDR68	0.42443410	0.04408397	3.47634532
MYL12B	0.42430435	0.04408397	3.47504917
C17orf95	0.42463425	0.04408397	3.47834511
DMBX1	-0.42456922	0.04408397	-3.47769531
ZDHHC8P	-0.42362318	0.04408397	-3.46824913
DACH1	-0.42532150	0.04408397	-3.48521676
ZNF679	-0.42393090	0.04408397	-3.47132013
GSX1	-0.42475946	0.04408397	-3.47959648
PMPCA	0.42335861	0.04408397	3.46560982
TMEM2	0.42373601	0.04408397	3.46937493
DEFB116	-0.42468227	0.04408397	-3.47882500
C16orf65	-0.42502959	0.04408397	-3.48229708
TMEM158	-0.42449099	0.04408397	-3.47691369
SULT1C4	-0.42346361	0.04408397	-3.46665715
HELT	-0.42381639	0.04408397	-3.47017718
NDUFB4	0.42457536	0.04408397	3.47775670
PAH	-0.42453701	0.04408397	-3.47737348
HMHB1	-0.42481458	0.04408397	-3.48014746
ACTG1	0.42355125	0.04408397	3.46753149
TRIM48	-0.42414625	0.04408397	-3.47347023
BHLHE41	-0.42424611	0.04408397	-3.47446751
KRTAP3-2	-0.42441357	0.04408397	-3.47614015
ZNF394	0.42391141	0.04408397	3.47112562
ABHD1	-0.42340361	0.04408397	-3.46605866

GGTLC1	-0.42357521	0.04408397	-3.46777044	yes
CD8B	-0.42470354	0.04408397	-3.47903757	
CAMK2N2	-0.42364797	0.04408397	-3.46849643	
NPM1	0.42295420	0.04434202	3.46157774	
RPL36AL	0.42306214	0.04434202	3.46265365	
PIGO	0.42298691	0.04434202	3.46190375	
SNORD115-7	-0.42281292	0.04443737	-3.46016962	
POR	0.42267046	0.04443987	3.45875020	
CTAGE1	-0.42267325	0.04443987	-3.45877800	
SF3B14	0.42247238	0.04461261	3.45677701	
ARPC4	0.42226269	0.04480180	3.45468885	
MRPS27	0.42204463	0.04482665	3.45251809	
GALNT8	-0.42200467	0.04482665	-3.45212033	
KIR2DS4	-0.42187856	0.04482665	-3.45086536	
TMX2	0.42188074	0.04482665	3.45088704	
EAF1	0.42182701	0.04482665	3.45035240	
C19orf20	-0.42186460	0.04482665	-3.45072638	
SDHA	0.42172883	0.04486608	3.44937552	
LOC153328	-0.42154415	0.04499858	-3.44753856	
SERINC5	0.42142495	0.04499858	3.44635308	
NF-E4	-0.42142468	0.04499858	-3.44635036	
VAMP8	0.42135408	0.04500127	3.44564841	
ZNF703	-0.42119447	0.04512525	-3.44406161	
DNASE2B	-0.42111070	0.04514622	-3.44322895	
hCG_2039146	-0.42072163	0.04558514	-3.43936317	
SNORD116-12	-0.42062035	0.04563062	-3.43835716	
ARID3A	-0.42046342	0.04575291	-3.43679880	
UHMK1	0.41982590	0.04603928	3.43047181	
ADSL	0.42008154	0.04603928	3.43300814	
PLD5	-0.41984824	0.04603928	-3.43069340	
BHLHE22	-0.41990050	0.04603928	-3.43121183	
SIGLEC15	-0.41975865	0.04603928	-3.42980481	
MEOX1	-0.41986996	0.04603928	-3.43090888	

NTRK3	-0.41969002	0.04603928	-3.42912408	
SOX9	-0.41964853	0.04603928	-3.42871266	
TSC22D2	-0.41977781	0.04603928	-3.42999479	
XRCC6	0.41956638	0.04604708	3.42789803	
C5orf46	-0.41950920	0.04604708	-3.42733107	
ARPM1	-0.41933166	0.04620061	-3.42557100	
MYL9	-0.41884873	0.04650268	-3.42078597	
CKMT2	-0.41897413	0.04650268	-3.42202811	
LRFN5	-0.41897204	0.04650268	-3.42200743	
AP1S2	-0.41891244	0.04650268	-3.42141708	
NRN1L	-0.41839236	0.04658293	-3.41626728	
PIP	-0.41833059	0.04658293	-3.41565598	
MEG3	-0.41844852	0.04658293	-3.41682320	
MCCC2	0.41845533	0.04658293	3.41689060	
RPL13AP5	0.41856755	0.04658293	3.41800158	
GEMIN7	0.41866505	0.04658293	3.41896696	
TCF7L1	-0.41841059	0.04658293	-3.41644772	
C1QTNF5	-0.41803724	0.04688849	-3.41275332	yes
AMAC1	-0.41785120	0.04688849	-3.41091323	
C15orf2	-0.41786933	0.04688849	-3.41109250	
HBD	-0.41792480	0.04688849	-3.41164116	
CDX1	-0.41768129	0.04703576	-3.40923307	yes
KIAA1383	-0.41750761	0.04717649	-3.40751609	
TMEM159	0.41732251	0.04717649	3.40568667	
SAT1	0.41738537	0.04717649	3.40630789	yes
SNRPB	0.41732497	0.04717649	3.40571105	
LINGO4	-0.41725167	0.04718554	-3.40498669	
NEURL3	-0.41711849	0.04728255	-3.40367093	
FAM55D	-0.41699213	0.04737023	-3.40242280	
CRISP1	-0.41691593	0.04738732	-3.40167018	
EDA	-0.41673390	0.04746381	-3.39987273	yes
DEFB136	-0.41677535	0.04746381	-3.40028200	
GLRX3	0.41647274	0.04756297	3.39729480	

RDH10	0.41650287	0.04756297	3.39759217	
HOXA5	-0.41653629	0.04756297	-3.39792202	
TREX2	-0.41602559	0.04773244	-3.39288341	
SERPINA3	-0.41588136	0.04773244	-3.39146108	yes
CTNNA1	0.41621822	0.04773244	3.39478341	
GABRP	0.41604919	0.04773244	3.39311608	
TNFRSF21	0.41584637	0.04773244	3.39111602	
ICT1	0.41617291	0.04773244	3.39433644	
SMAD6	-0.41602323	0.04773244	-3.39286005	
MFSD2	0.41582880	0.04773244	3.39094283	
PDE4DIP	-0.41578554	0.04773244	-3.39051628	
PARP1	0.41559419	0.04777710	3.38863005	
GPBAR1	-0.41544232	0.04777710	-3.38713342	
MYRIP	-0.41545361	0.04777710	-3.38724470	
SSX8	-0.41553583	0.04777710	-3.38805496	
KBTBD4	0.41559765	0.04777710	3.38866419	
NTNG1	-0.41528303	0.04778835	-3.38556398	
OR7C1	-0.41524858	0.04778835	-3.38522466	
TFB2M	0.41534760	0.04778835	3.38620014	
LOC100130174	-0.41354953	0.04811745	-3.36850887	
HHLA1	-0.41332250	0.04811745	-3.36627851	
C1orf127	-0.41376345	0.04811745	-3.37061108	
SLC36A2	-0.41361814	0.04811745	-3.36918301	
ITGA11	-0.41360283	0.04811745	-3.36903259	
GABRA4	-0.41394340	0.04811745	-3.37238005	
CLIP3	-0.41339967	0.04811745	-3.36703647	
GDNF	-0.41434747	0.04811745	-3.37635395	yes
LAMA1	-0.41391311	0.04811745	-3.37208233	
GRM8	-0.41484120	0.04811745	-3.38121285	
GTF2F2	0.41326538	0.04811745	3.36571748	
HARS	0.41402639	0.04811745	3.37319603	
HBQ1	-0.41406027	0.04811745	-3.37352916	
HOXA9	-0.41402456	0.04811745	-3.37317804	

VWC2	-0.41453208	0.04811745	-3.37817026
SPATC1	-0.41467431	0.04811745	-3.37957005
C10orf114	-0.41334804	0.04811745	-3.36652934
LPL	-0.41406500	0.04811745	-3.37357571
MGC39545	-0.41337805	0.04811745	-3.36682417
NP	0.41444438	0.04811745	3.37730735
DERA	0.41432679	0.04811745	3.37615044
IL20RA	0.41401657	0.04811745	3.37309952
PRLR	-0.41353844	0.04811745	-3.36839990
PSMA5	0.41469404	0.04811745	3.37976424
CREB3L2	-0.41437316	0.04811745	-3.37660665
SLC3A2	0.41488288	0.04811745	3.38162319
OR4A5	-0.41352372	0.04811745	-3.36825522
WDR87	-0.41464713	0.04811745	-3.37930247
WISP1	-0.41425686	0.04811745	-3.37546265
B3GAT1	-0.41295926	0.04846896	-3.36271149
HMGCLL1	-0.41283128	0.04856755	-3.36145524
LOC150763	-0.41256177	0.04865312	-3.35881045
OR4C6	-0.41266577	0.04865312	-3.35983092
ZNF575	-0.41247806	0.04865312	-3.35798927
FRMD4A	-0.41258965	0.04865312	-3.35908405
C15orf17	0.41247902	0.04865312	3.35799861
KCNJ9	-0.41210257	0.04894054	-3.35430664
PPP1R1A	-0.41215734	0.04894054	-3.35484367
C6orf64	0.41219392	0.04894054	3.35520241
BPNT1	0.41186228	0.04907713	3.35195112
C1orf167	-0.41177540	0.04907713	-3.35109972
ADM2	-0.41189996	0.04907713	-3.35232043
ADPGK	0.41183032	0.04907713	3.35163789
QTRTD1	0.41170875	0.04908982	3.35044655
ANKRD1	-0.41158625	0.04916590	-3.34924629
PSMA4	0.41154051	0.04916590	3.34879815
SEMA5B	-0.41143933	0.04922874	-3.34780712

CLDN7	0.41102741	0.04929465	3.34377362	
LY6G6F	-0.41131886	0.04929465	-3.34662720	
IL28B	-0.41113705	0.04929465	-3.34484694	
CSNK2A1P	0.41082239	0.04929465	3.34176696	
CXCL3	-0.41122973	0.04929465	-3.34575437	
RSPO4	-0.41082504	0.04929465	-3.34179289	
HCRP1	-0.41111287	0.04929465	-3.34461016	
KRTAP26-1	-0.41088406	0.04929465	-3.34237053	
C19orf29OS	-0.41097531	0.04929465	-3.34326363	
UNC5A	-0.41084717	0.04929465	-3.34200948	
C1orf95	-0.41075652	0.04930794	-3.34112236	
PSMD11	0.41041485	0.04963840	3.33778003	
ZIC5	-0.41044640	0.04963840	-3.33808852	
C20orf141	-0.40995146	0.04974081	-3.33324960	
PNCK	-0.41002843	0.04974081	-3.33400182	yes
RAB6B	-0.40992206	0.04974081	-3.33296219	
EGLN1	-0.40999201	0.04974081	-3.33364587	
ZFYVE20	0.41000987	0.04974081	3.33382044	
ZNF732	-0.40989491	0.04974081	-3.33269690	
CA11	-0.41022364	0.04974081	-3.33591022	
DHRS3	0.41007349	0.04974081	3.33444229	
IGSF5	-0.40975697	0.04986007	-3.33134902	
DRP2	-0.40960184	0.05000471	-3.32983349	
SLC30A5	0.40946831	0.05011824	3.32852930	
RNASE8	-0.40921496	0.05029268	-3.32605538	
GSC	-0.40923353	0.05029268	-3.32623666	
KRTAP10-1	-0.40918237	0.05029268	-3.32573722	
SMAD7	-0.40904483	0.05041302	-3.32439472	
KCNN3	-0.40891569	0.05052137	-3.32313437	
LRRC25	-0.40867776	0.05059532	-3.32081290	
NKX2-5	-0.40869078	0.05059532	-3.32093992	
FCAR	-0.40846054	0.05059532	-3.31869429	
OR5H15	-0.40842551	0.05059532	-3.31835272	

MRPS16	0.40848634	0.05059532	3.31894595
FEZF2	-0.40857643	0.05059532	-3.31982458
OR2C3	-0.40856166	0.05059532	-3.31968046
RAB9P1	-0.40858581	0.05059532	-3.31991601
CPT2	0.40829005	0.05065215	3.31703187
SCARF2	-0.40827765	0.05065215	-3.31691098
OR10H5	-0.40787964	0.05099816	-3.31303182
IBSP	-0.40795531	0.05099816	-3.31376921
ZNF669	0.40789448	0.05099816	3.31317648
RETNLB	-0.40775405	0.05110363	-3.31180827
SOX10	-0.40765070	0.05117640	-3.31080157
HOXD8	-0.40758839	0.05117663	-3.31019467
DDX23	0.40754230	0.05117663	3.30974581
NXPH2	-0.40748699	0.05117855	-3.30920718
ZNF460	0.40735291	0.05129742	3.30790158
HS3ST1	0.40723564	0.05139160	3.30675993
WFDC13	-0.40716646	0.05141445	-3.30608658
LOC100129572	-0.40529818	0.05152668	-3.28792664
GPR64	-0.40699992	0.05152668	-3.30446577
LRRC41	0.40519844	0.05152668	3.28695860
SCGB1D1	-0.40564362	0.05152668	-3.29128063
OR10P1	-0.40606680	0.05152668	-3.29539179
SGPP2	0.40504828	0.05152668	3.28550134
GATA5	-0.40692806	0.05152668	-3.30376655
KCTD19	-0.40627500	0.05152668	-3.29741527
ENSA	0.40594373	0.05152668	3.29419586
BEND6	-0.40537555	0.05152668	-3.28867768
QPRT	-0.40676406	0.05152668	-3.30217099
CLDN15	-0.40551572	0.05152668	-3.29003866
TPSG1	-0.40547069	0.05152668	-3.28960144
RNU12	-0.40656856	0.05152668	-3.30026948
KLF15	-0.40587243	0.05152668	-3.29350322
MNX1	-0.40614824	0.05152668	-3.29618318

NHSL2	-0.40623594	0.05152668	-3.29703561	
LOC340602	-0.40635677	0.05152668	-3.29821021	
C6orf58	-0.40647096	0.05152668	-3.29932040	
KRTAP10-10	-0.40641467	0.05152668	-3.29877316	
PEAR1	-0.40646416	0.05152668	-3.29925428	yes
C2orf82	-0.40506008	0.05152668	-3.28561590	
ABHD5	0.40505140	0.05152668	3.28553166	
PLAC8	0.40646672	0.05152668	3.29927920	yes
ATP6V0B	0.40600536	0.05152668	3.29479468	
CLN6	0.40506904	0.05152668	3.28570283	
C3orf37	0.40585332	0.05152668	3.29331755	
PTAFR	0.40533135	0.05152668	3.28824861	
MTMR14	0.40513432	0.05152668	3.28633631	
SOD3	-0.40597648	0.05152668	-3.29451415	
PAX8	-0.40624805	0.05152668	-3.29715333	
ZMAT4	-0.40676112	0.05152668	-3.30214240	
TAS1R3	-0.40546410	0.05152668	-3.28953742	
TOX2	-0.40647437	0.05152668	-3.29935362	
EIF3D	0.40519281	0.05152668	3.28690396	
BECN1	0.40668677	0.05152668	3.30141920	
KIAA2013	-0.40511590	0.05152668	-3.28615758	
TMEM203	0.40535306	0.05152668	3.28845935	
STXBP5L	-0.40639577	0.05152668	-3.29858937	
AP3S2	0.40496916	0.05156834	3.28473367	
SLC22A1	-0.40490208	0.05159226	-3.28408290	
PIWIL4	-0.40481461	0.05164612	-3.28323437	
HOXB5	-0.40471334	0.05164612	-3.28225207	
WT1	-0.40474122	0.05164612	-3.28252254	
ZNF835	-0.40459339	0.05174890	-3.28108887	
TAX1BP3	0.40450715	0.05180181	3.28025268	
RBM14	0.40433241	0.05180192	3.27855861	
ZNF543	0.40444238	0.05180192	3.27962470	
DYNC111	-0.40430524	0.05180192	-3.27829524	

HOXA2	-0.40434052	0.05180192	-3.27863722	
DHRS9	0.40391749	0.05192848	3.27453794	yes
MRGPRX4	-0.40393050	0.05192848	-3.27466397	
CLTA	0.40399732	0.05192848	3.27531128	
NLRP6	-0.40386930	0.05192848	-3.27407106	
ESR1	-0.40406692	0.05192848	-3.27598566	
HOXB4	-0.40390965	0.05192848	-3.27446194	
ACPT	-0.40393750	0.05192848	-3.27473176	
C10orf71	-0.40381247	0.05193883	-3.27352060	
ZFPM1	-0.40366043	0.05194426	-3.27204811	
ERCC3	0.40374029	0.05194426	3.27282155	
RNASEH1	0.40365961	0.05194426	3.27204019	
SLC16A8	-0.40342511	0.05214572	-3.26976971	
RPL23AP71	-0.40346962	0.05214572	-3.27020063	yes
PRMT5	0.40316593	0.05216797	3.26726115	
C1QTNF4	-0.40316328	0.05216797	-3.26723549	
NPB	-0.40322613	0.05216797	-3.26784373	
GLI1	-0.40317792	0.05216797	-3.26737716	yes
TIMM22	0.40317122	0.05216797	3.26731232	
CHRM4	-0.40308831	0.05220638	-3.26651012	
LSG1	0.40294936	0.05222755	3.26516573	
UBB	0.40293626	0.05222755	3.26503901	
SAP30	-0.40292689	0.05222755	-3.26494835	
LDHAL6B	-0.40274861	0.05242067	-3.26322398	
CORT	-0.40257842	0.05246329	-3.26157830	
PIGW	0.40257355	0.05246329	3.26153119	
LOC401296	-0.40259218	0.05246329	-3.26171130	
PMS2	0.40244452	0.05253923	3.26028379	
ANO3	-0.40242540	0.05253923	-3.26009894	
FOXO4	-0.40234063	0.05259338	-3.25927958	
NANOS1	-0.40222640	0.05269187	-3.25817553	
ITPA	0.40215811	0.05272155	3.25751563	
CHRM3	-0.40193327	0.05288135	-3.25534342	

EMX1	-0.40189593	0.05288135	-3.25498274	
LOC387763	-0.40190600	0.05288135	-3.25507998	
OR5M1	-0.40185828	0.05288135	-3.25461906	
FOXO3	-0.40155064	0.05301702	-3.25164833	
ZBTB43	0.40147960	0.05301702	3.25096245	
TMEM216	0.40165280	0.05301702	3.25263467	
BTNL2	-0.40150506	0.05301702	-3.25120823	
hCG_18290	0.40152464	0.05301702	3.25139731	
BPI	-0.40158143	0.05301702	-3.25194558	
RNF157	-0.40129216	0.05310707	-3.24915331	
DHX8	0.40101245	0.05310707	3.24645435	
F5	-0.40087018	0.05310707	-3.24508202	
TMEM130	-0.40087354	0.05310707	-3.24511448	
PDX1	-0.40116455	0.05310707	-3.24792187	
KRTAP10-7	-0.40084876	0.05310707	-3.24487548	
FLJ45139	-0.40103168	0.05310707	-3.24663988	
SHISA5	0.40096981	0.05310707	3.24604310	
RTN4R	-0.40094021	0.05310707	-3.24575755	
WNT3	-0.40111770	0.05310707	-3.24746978	
QRFPR	-0.40090423	0.05310707	-3.24541048	
CES2	0.40124082	0.05310707	3.24865780	
MCRS1	0.40057281	0.05318053	3.24221452	
C12orf12	-0.40056170	0.05318053	-3.24210742	
FAM101B	-0.40051750	0.05318053	-3.24168133	yes
NUBP1	0.40057898	0.05318053	3.24227398	
NEUROD1	-0.40068836	0.05318053	-3.24332859	
NOVA2	-0.40071161	0.05318053	-3.24355283	
ENPP1	-0.40045968	0.05319700	-3.24112389	
DNM1P33	-0.40038359	0.05324110	-3.24039052	
GGN	-0.40028228	0.05332338	-3.23941409	
B3GAT2	-0.39999948	0.05340863	-3.23668932	
CSTF1	0.40006923	0.05340863	3.23736126	
IRGC	-0.40012707	0.05340863	-3.23791860	

ASB13	0.40009144	0.05340863	3.23757523	
PPFIA4	-0.39999267	0.05340863	-3.23662381	
PCDH10	-0.39992672	0.05343807	-3.23598848	
OSCAR	-0.39960687	0.05349085	-3.23290839	
FAM148C	-0.39945837	0.05349085	-3.23147885	
CLDN19	-0.39946021	0.05349085	-3.23149661	
RALY	0.39954301	0.05349085	3.23229359	
MYT1L	-0.39937654	0.05349085	-3.23069129	
ZBTB32	-0.39940485	0.05349085	-3.23096371	
HTR5A	-0.39939784	0.05349085	-3.23089623	
SATL1	-0.39975568	0.05349085	-3.23434125	
FAM148B	-0.39978269	0.05349085	-3.23460136	
NTRK2	-0.39961090	0.05349085	-3.23294723	
RAF1	0.39958225	0.05349085	3.23267138	
LOC728318	-0.39933824	0.05349085	-3.23032267	
RAB38	0.39921108	0.05349265	3.22909896	
PSMC4	0.39919985	0.05349265	3.22899093	
SIM2	-0.39922183	0.05349265	-3.22920245	
WIF1	-0.39892515	0.05351736	-3.22634830	
CHRNA	-0.39889251	0.05351736	-3.22603435	
DDIT4L	-0.39911893	0.05351736	-3.22821234	
OR4X1	-0.39886518	0.05351736	-3.22577144	
PRH2	-0.39891055	0.05351736	-3.22620779	
BYSL	0.39886643	0.05351736	3.22578349	
MFAP3L	-0.39887636	0.05351736	-3.22587902	
GPR3	-0.39867790	0.05373202	-3.22397055	
IGBP1	0.39845724	0.05392950	3.22184930	
EPX	-0.39845853	0.05392950	-3.22186163	
EXOSC7	0.39831528	0.05404759	3.22048487	
KIAA0427	-0.39828930	0.05404759	-3.22023527	yes
HCN1	-0.39809543	0.05421639	-3.21837253	
UTP18	0.39808840	0.05421639	3.21830497	
TMPRSS4	0.39800073	0.05428154	3.21746282	

KRTDAP	-0.39743620	0.05485564	-3.21204227	
LYN	0.39740204	0.05485564	3.21171438	
PPP3R2	-0.39744589	0.05485564	-3.21213528	
EIF3I	0.39752531	0.05485564	3.21289760	
TBKBP1	-0.39751325	0.05485564	-3.21278186	
WTIP	-0.39727557	0.05496498	-3.21050075	yes
FGF4	-0.39724167	0.05496498	-3.21017546	
CALHM2	-0.39715371	0.05499980	-3.20933147	
LST1	-0.39712987	0.05499980	-3.20910277	
C20orf166	-0.39702369	0.05509495	-3.20808419	
PSEN1	0.39691238	0.05512949	3.20701656	
C4orf14	0.39695024	0.05512949	3.20737964	
CST11	-0.39677230	0.05527749	-3.20567321	
DIRC1	-0.39638443	0.05576425	-3.20195492	
KIAA0090	0.39637047	0.05576425	3.20182116	
CAPNS1	0.39627706	0.05584090	3.20092604	
MAEA	0.39616751	0.05594294	3.19987641	
RPUSD3	0.39610107	0.05597770	3.19923988	
DCTN3	0.39573914	0.05610223	3.19577350	
hCG_1644301	-0.39588534	0.05610223	-3.19717345	
FLJ46210	-0.39578977	0.05610223	-3.19625832	
C19orf31	-0.39588636	0.05610223	-3.19718325	
PSMB5	0.39571324	0.05610223	3.19552547	
WBSCR17	-0.39573587	0.05610223	-3.19574214	
FAM62C	-0.39591082	0.05610223	-3.19741750	
SCRG1	-0.39563947	0.05614911	-3.19481920	
PPP1R3C	-0.39559359	0.05615235	-3.19437997	
UGCG	0.39546603	0.05628381	3.19315901	
DNM3	-0.39529432	0.05638449	-3.19151564	
UNCX	-0.39522767	0.05638449	-3.19087792	
PLAGL2	0.39518377	0.05638449	3.19045788	
PRB3	-0.39526205	0.05638449	-3.19120688	
SLC15A2	0.39520757	0.05638449	3.19068557	yes

ST6GAL1	0.39508436	0.05647243	3.18950683	
SCAND3	-0.39489266	0.05670617	-3.18767325	
LOC646471	-0.39481864	0.05675449	-3.18696541	
PRSS36	-0.39472629	0.05681747	-3.18608237	
FAM71A	-0.39469207	0.05681747	-3.18575515	yes
BZW2	0.39444597	0.05686496	3.18340266	
AR	-0.39444854	0.05686496	-3.18342716	
PMS2CL	0.39458744	0.05686496	3.18475493	
GMPR2	0.39452791	0.05686496	3.18418589	
PRRG4	0.39444618	0.05686496	3.18340463	
NUP62	0.39424232	0.05698296	3.18145653	
CSGALNACT1	-0.39427092	0.05698296	-3.18172981	
PYGM	-0.39431524	0.05698296	-3.18215325	
PHACTR1	-0.39393019	0.05714272	-3.17847481	
SYCP2L	-0.39393275	0.05714272	-3.17849922	
LOC57228	0.39392724	0.05714272	3.17844664	
FN3K	-0.39404516	0.05714272	-3.17957294	
URB2	0.39403666	0.05714272	3.17949174	
SNORD57	-0.39387289	0.05716115	-3.17792755	
XKR3	-0.39382293	0.05717268	-3.17745049	
C10orf129	-0.39353923	0.05729307	-3.17474190	
KIF3C	-0.39353432	0.05729307	-3.17469497	
XKRX	0.39354148	0.05729307	3.17476335	
YWHAB	0.39366643	0.05729307	3.17595619	
TMEM128	0.39363033	0.05729307	3.17561148	
CRK	0.39328338	0.05762528	3.17230005	
SLC4A10	-0.39317013	0.05773851	-3.17121954	
OR51F2	-0.39306532	0.05777065	-3.17021966	
NPY1R	-0.39306789	0.05777065	-3.17024416	
JSRP1	-0.39290858	0.05782330	-3.16872468	
LOC388906	-0.39286349	0.05782330	-3.16829464	
RPL26P12	-0.39289089	0.05782330	-3.16855596	
GDF6	-0.39287778	0.05782330	-3.16843090	

SRXN1	0.39281128	0.05783944	3.16779677	
HDHD3	0.39273556	0.05789330	3.16707477	
DOCK3	-0.39246980	0.05795301	-3.16454124	
GAP43	-0.39232142	0.05795301	-3.16312718	
HOXA4	-0.39232806	0.05795301	-3.16319045	
NDUFA10	0.39239528	0.05795301	3.16383101	
RPS3	0.39251804	0.05795301	3.16500106	
TPI1	0.39252549	0.05795301	3.16507206	
UPK3A	-0.39250657	0.05795301	-3.16489176	
GRPEL1	0.39261389	0.05795301	3.16591471	
ROD1	0.39234702	0.05795301	3.16337110	yes
CLIC1	0.39186679	0.05805346	3.15879625	
COL19A1	-0.39196883	0.05805346	-3.15976802	
SMAD3	0.39179769	0.05805346	3.15813820	
LOC440461	-0.39203029	0.05805346	-3.16035348	
SPRN	-0.39177305	0.05805346	-3.15790352	
POU3F3	-0.39175517	0.05805346	-3.15773327	
PAPOLB	-0.39175939	0.05805346	-3.15777352	
RPLP0	0.39172668	0.05805346	3.15746199	
NPFFR1	-0.39179169	0.05805346	-3.15808105	yes
CDC123	0.39173635	0.05805346	3.15755406	
POLR1C	0.39188832	0.05805346	3.15900120	yes
CD72	-0.39190408	0.05805346	-3.15915132	
EIF4A3	0.39172035	0.05805346	3.15740174	
PPP1R3F	-0.39167734	0.05805648	-3.15699224	
LOC131055	-0.39162192	0.05806666	-3.15646460	
DNMT3B	-0.39147436	0.05806666	-3.15505995	
FGF5	-0.39146598	0.05806666	-3.15498023	
LGALS3	0.39147501	0.05806666	3.15506617	yes
OAZ1	0.39155591	0.05806666	3.15583628	
STAG3	-0.39139312	0.05811787	-3.15428681	
LRRN4CL	-0.39130998	0.05812027	-3.15349563	
FAM92A3	-0.39134867	0.05812027	-3.15386374	

IGSF21	-0.39125017	0.05815078	-3.15292648	
LOC100129492	0.39116928	0.05821515	3.15215688	
NFAM1	-0.39093947	0.05851906	-3.14997071	
SCGB3A2	-0.39069025	0.05885576	-3.14760079	
PLAC8L1	-0.39057712	0.05890734	-3.14652528	
GNG13	-0.39058381	0.05890734	-3.14658888	
CMTM6	0.39039849	0.05913126	3.14482735	
ADCY8	-0.39007331	0.05922352	-3.14173760	
SRPX2	0.39011968	0.05922352	3.14217815	
MGC50273	-0.39006691	0.05922352	-3.14167681	
SULT1C3	-0.39015399	0.05922352	-3.14250402	
ELOVL1	0.39003412	0.05922352	3.14136535	
SCARNA17	-0.39027366	0.05922352	-3.14364112	
BTG1	0.39001837	0.05922352	3.14121572	
PPAPDC3	-0.39025690	0.05922352	-3.14348187	
KCNK4	-0.38989578	0.05930767	-3.14005132	
SPP2	-0.38986416	0.05930767	-3.13975099	
C15orf23	0.38984600	0.05930767	3.13957858	
OR9Q2	-0.38973977	0.05934999	-3.13856980	
PRKAR2A	0.38974100	0.05934999	3.13858145	yes
ZNHIT3	0.38961995	0.05947992	3.13743214	
S100A7L2	-0.38955748	0.05951651	-3.13683914	
MOGAT1	-0.38943623	0.05952292	-3.13568824	
TMEM207	-0.38935859	0.05952292	-3.13495129	
CPT1A	0.38945326	0.05952292	3.13584980	
LOC347549	-0.38932962	0.05952292	-3.13467642	
AZU1	-0.38931418	0.05952292	-3.13452993	
STMN4	-0.38935605	0.05952292	-3.13492726	
BEST3	-0.38907943	0.05984149	-3.13230256	
LOC647597	-0.38894609	0.05993557	-3.13103774	
MAP7D3	-0.38894256	0.05993557	-3.13100420	
DCLK2	-0.38877134	0.05996117	-3.12938044	
GDF10	-0.38880793	0.05996117	-3.12972736	

ANGPT2	-0.38877651	0.05996117	-3.12942945	
PDE9A	-0.38876847	0.05996117	-3.12935319	yes
SLC22A10	-0.38870451	0.06000123	-3.12874675	
CHRM2	-0.38779048	0.06015812	-3.12008547	
SLC35A4	0.38825008	0.06015812	3.12443920	
OCIAD2	0.38835705	0.06015812	3.12545294	
SERPINA12	-0.38808608	0.06015812	-3.12288538	
CILP2	-0.38805721	0.06015812	-3.12261191	
SDR16C5	0.38792424	0.06015812	3.12135233	
RANBP3L	-0.38777510	0.06015812	-3.11993986	
GPR97	-0.38771048	0.06015812	-3.11932791	
GP1BA	-0.38807608	0.06015812	-3.12279060	
ZNF749	0.38800788	0.06015812	3.12214457	
TMEM200B	-0.38784962	0.06015812	-3.12064556	
OR14J1	-0.38818504	0.06015812	-3.12382299	
PON2	0.38856692	0.06015812	3.12744226	
PCDHA3	-0.38821262	0.06015812	-3.12408432	
PSMB6	0.38791990	0.06015812	3.12131120	
BAK1	0.38841615	0.06015812	3.12601307	
SLC6A2	-0.38800247	0.06015812	-3.12209337	
SNORA60	-0.38787162	0.06015812	-3.12085393	
CA2	-0.38784295	0.06015812	-3.12058240	
TAF3	-0.38825091	0.06015812	-3.12444709	
PPP1R15B	0.38851155	0.06015812	3.12691736	
FRMD5	-0.38827034	0.06015812	-3.12463123	
CDK5R2	-0.38770989	0.06015812	-3.11932234	
C14orf119	0.38753928	0.06028196	3.11770704	
LOC644538	-0.38755746	0.06028196	-3.11787923	
SOX1	-0.38751854	0.06028196	-3.11751079	
C12orf69	-0.38743674	0.06028973	-3.11673648	
KRTAP19-8	-0.38745061	0.06028973	-3.11686772	
C3orf24	-0.38716319	0.06036006	-3.11414770	
PRELID1	0.38708704	0.06036006	3.11342720	

LOC29034	-0.38708875	0.06036006	-3.11344340	
KCNC1	-0.38722993	0.06036006	-3.11477924	
KRAS	0.38717333	0.06036006	3.11424360	yes
TMEM215	-0.38729085	0.06036006	-3.11535570	
MPV17	0.38725795	0.06036006	3.11504433	
NONO	0.38734300	0.06036006	3.11584926	
C1orf107	0.38696959	0.06049027	3.11231614	
TMEM18	0.38689541	0.06054952	3.11161444	
LDLRAD3	-0.38681548	0.06057581	-3.11085854	
SPTA1	-0.38680318	0.06057581	-3.11074218	yes
SP7	-0.38672458	0.06064254	-3.10999891	
LSM11	-0.38648955	0.06064706	-3.10777674	yes
C6orf221	-0.38656302	0.06064706	-3.10847134	
PLEK2	0.38645254	0.06064706	3.10742696	
GTF2A2	0.38648916	0.06064706	3.10777311	
HOXD9	-0.38646311	0.06064706	-3.10752681	
DUS2L	0.38665188	0.06064706	3.10931149	
PSMD2	0.38662226	0.06064706	3.10903146	
KEAP1	0.38641844	0.06064706	3.10710459	
TMEM154	0.38629976	0.06066655	3.10598292	yes
LATS2	-0.38629339	0.06066655	-3.10592274	
WFDC1	-0.38633985	0.06066655	-3.10636184	yes
TTYH1	-0.38620968	0.06074238	-3.10513163	yes
ZDHC5	0.38609270	0.06087321	3.10402636	
ZSWIM6	0.38597475	0.06100593	3.10291205	
C19orf45	-0.38586046	0.06113287	-3.10183249	
IP6K2	0.38567918	0.06137131	3.10012055	
CD300LB	-0.38561689	0.06137349	-3.09953234	
RPL3	0.38560282	0.06137349	3.09939947	
ACTC1	-0.38551922	0.06145016	-3.09861021	
NOS3	-0.38536416	0.06164603	-3.09714650	
PLEKHA4	-0.38527120	0.06173869	-3.09626921	
FBXL22	-0.38501762	0.06210058	-3.09387647	

LOC100128364	-0.38465264	0.06252618	-3.09043395	
RHO	-0.38467457	0.06252618	-3.09064081	
EI24	0.38468576	0.06252618	3.09074628	
LBX1	-0.38392625	0.06266159	-3.08358784	
ARPP-21	-0.38411838	0.06266159	-3.08539798	yes
NXNL1	-0.38385773	0.06266159	-3.08294236	
RALYL	-0.38375876	0.06266159	-3.08201024	
CBLN4	-0.38403415	0.06266159	-3.08460437	
EBF1	-0.38385654	0.06266159	-3.08293119	yes
ECH1	0.38383021	0.06266159	3.08268321	
ZCCHC5	-0.38377167	0.06266159	-3.08213180	
C10orf35	-0.38430263	0.06266159	-3.08713435	
LOC100133408	-0.38411572	0.06266159	-3.08537298	
KCNMA1	-0.38435725	0.06266159	-3.08764915	
LOC439951	-0.38432512	0.06266159	-3.08734631	
MUC4	0.38405249	0.06266159	3.08477713	
RNF150	-0.38433669	0.06266159	-3.08745539	
SNORA3	-0.38382754	0.06266159	-3.08265805	
VTN	-0.38430947	0.06266159	-3.08719883	
COLEC11	-0.38394941	0.06266159	-3.08380600	
RPAIN	0.38402141	0.06266159	3.08448439	
RIPK1	0.38396587	0.06266159	3.08396112	
GAL3ST3	-0.38384469	0.06266159	-3.08281957	
PMPCB	0.38409935	0.06266159	3.08521871	
KIAA0644	-0.38429109	0.06266159	-3.08702560	
LOC100131664	-0.38352761	0.06286663	-3.07983354	
TPT1	0.38356231	0.06286663	3.08016032	
SLC43A1	-0.38356557	0.06286663	-3.08019100	
HOXA13	-0.38338054	0.06299193	-3.07844902	
AQP3	0.38339109	0.06299193	3.07854837	
DAPP1	0.38330905	0.06302484	3.07777609	yes
GAL	-0.38328819	0.06302484	-3.07757972	
PPIA	0.38319160	0.06303668	3.07667064	

MFAP5	-0.38317204	0.06303668	-3.07648663	
SLC16A3	0.38320603	0.06303668	3.07680653	
RYR2	-0.38311837	0.06306607	-3.07598155	
NKPD1	-0.38302518	0.06313842	-3.07510469	
ATP1B1	0.38300313	0.06313842	3.07489727	
AHCYL2	0.38280346	0.06323157	3.07301889	
CYP4X1	-0.38283151	0.06323157	-3.07328276	
RNF222	-0.38286480	0.06323157	-3.07359591	
MED10	0.38284062	0.06323157	3.07336847	
LVRN	-0.38275203	0.06325757	-3.07253513	
ADORA3	-0.38259532	0.06336484	-3.07106136	
SLC25A42	-0.38252686	0.06336484	-3.07041768	yes
PCDHGA4	-0.38257862	0.06336484	-3.07090440	
PTPRO	-0.38247279	0.06336484	-3.06990929	
CCL3	-0.38247452	0.06336484	-3.06992555	
USP6NL	0.38264748	0.06336484	3.07155186	yes
FLJ36031	-0.38238355	0.06345551	-3.06907030	
NPY2R	-0.38230857	0.06346101	-3.06836549	
TCEAL7	-0.38233845	0.06346101	-3.06864636	
NECAP2	0.38225566	0.06348261	3.06786815	
FASTKD5	0.38222425	0.06348261	3.06757299	
C1orf56	-0.38214399	0.06349751	-3.06681865	
KBTBD11	-0.38214513	0.06349751	-3.06682940	
SRRM1	-0.38207963	0.06354627	-3.06621381	
LOC100130503	-0.38193214	0.06355469	-3.06482806	
GPR176	-0.38197911	0.06355469	-3.06526932	
OR10Q1	-0.38200342	0.06355469	-3.06549775	
IL27	-0.38193776	0.06355469	-3.06488082	
RAB25	0.38181781	0.06364990	3.06375395	
EDA2R	-0.38180513	0.06364990	-3.06363484	
GYPB	-0.38173311	0.06371211	-3.06295838	
PRDM6	-0.38168399	0.06373536	-3.06249705	
ANAPC5	0.38161101	0.06373895	3.06181168	

PPP2R1A	0.38161982	0.06373895	3.06189439	
C21orf89	-0.38156839	0.06374529	-3.06141144	
PTCRA	-0.38150967	0.06374529	-3.06086010	
RADIL	-0.38150121	0.06374529	-3.06078057	
RAI2	-0.38137402	0.06380352	-3.05958645	
ELA2	-0.38140224	0.06380352	-3.05985136	
TIGD5	-0.38136122	0.06380352	-3.05946629	
LOC388796	0.38124659	0.06384736	3.05839030	
OTC	-0.38115970	0.06384736	-3.05757469	
S100B	-0.38117427	0.06384736	-3.05771143	
ZSCAN21	-0.38124574	0.06384736	-3.05838226	
ZNF264	0.38122480	0.06384736	3.05818568	
RNF41	0.38102629	0.06401523	3.05632271	
KLF2	-0.38088815	0.06405948	-3.05502664	
XIRP1	-0.38085448	0.06405948	-3.05471076	
HSD3B1	-0.38082539	0.06405948	-3.05443783	
APOC2	-0.38093453	0.06405948	-3.05546176	
CASP4	0.38085514	0.06405948	3.05471690	
OR52K1	-0.38068868	0.06419166	-3.05315548	
C21orf45	0.38067830	0.06419166	3.05305813	
OR10A7	-0.38017646	0.06422753	-3.04835282	
MRPL18	0.38039210	0.06422753	3.05037428	
LASS2	0.38050646	0.06422753	3.05144657	
HDAC1	0.38013731	0.06422753	3.04798588	
HOXD13	-0.38035374	0.06422753	-3.05001465	
IL31	-0.38050957	0.06422753	-3.05147571	
OR51M1	-0.38019822	0.06422753	-3.04855671	
LOC390282	-0.38033036	0.06422753	-3.04979547	
MLN	-0.38026094	0.06422753	-3.04914467	
KLK6	-0.38024862	0.06422753	-3.04902921	
SFRP1	-0.38015091	0.06422753	-3.04811335	
ADAM12	-0.38041260	0.06422753	-3.05056645	
TLN2	-0.38032485	0.06422753	-3.04974380	yes

ZNF414	-0.38044870	0.06422753	-3.05090496	
FADS2	-0.38037444	0.06422753	-3.05020870	
DHX33	0.37997724	0.06444266	3.04648572	
MTX2	0.37984298	0.06455492	3.04522778	
C14orf68	-0.37986197	0.06455492	-3.04540567	
EFR3B	-0.37971415	0.06469819	-3.04402093	
DYNC1LI1	0.37969088	0.06469819	3.04380295	
DNAJC11	0.37963094	0.06474225	3.04324146	
CASR	-0.37958464	0.06476289	-3.04280784	
SERPINC1	-0.37943295	0.06490613	-3.04138731	
PDLIM7	-0.37946446	0.06490613	-3.04168236	yes
PCSK1	-0.37935589	0.06492224	-3.04066585	
REL	0.37935516	0.06492224	3.04065898	
HTRA3	-0.37930637	0.06494743	-3.04020220	
GPX6	-0.37921860	0.06503995	-3.03938055	
GPR44	-0.37908550	0.06505099	-3.03813465	
OR4C12	-0.37912671	0.06505099	-3.03852036	
KCNA10	-0.37904181	0.06505099	-3.03772574	
LOC442668	-0.37911579	0.06505099	-3.03841816	
POU4F1	-0.37906535	0.06505099	-3.03794607	
SLC32A1	-0.37865491	0.06531524	-3.03410578	
BRI3	-0.37866896	0.06531524	-3.03423717	
OR5J2	-0.37873436	0.06531524	-3.03484897	
SLC45A2	-0.37875861	0.06531524	-3.03507582	
TMEM108	-0.37882245	0.06531524	-3.03567307	
UROD	0.37878482	0.06531524	3.03532103	
VCP	0.37861763	0.06531524	3.03375706	
NRSN2	-0.37864206	0.06531524	-3.03398554	
LASS1	-0.37832497	0.06552994	-3.03102021	
LECT1	-0.37837786	0.06552994	-3.03151472	
DEFA5	-0.37835298	0.06552994	-3.03128206	
ELF3	0.37843486	0.06552994	3.03204774	
RLBP1	-0.37832738	0.06552994	-3.03104272	

LCMT1	0.37826862	0.06553913	3.03049332	
STC1	-0.37825234	0.06553913	-3.03034115	
SNORD116-29	-0.37795566	0.06554119	-3.02756796	
LOC100132564	-0.37790704	0.06554119	-3.02711364	
ADRA2C	-0.37791723	0.06554119	-3.02720884	yes
ZNF365	-0.37813308	0.06554119	-3.02922621	
C20orf200	-0.37784937	0.06554119	-3.02657473	
PTF1A	-0.37803129	0.06554119	-3.02827482	
PACSIN1	-0.37800272	0.06554119	-3.02800776	
KRT82	-0.37787949	0.06554119	-3.02685616	
ACO2	0.37805227	0.06554119	3.02847088	
OSGEP	0.37817463	0.06554119	3.02961463	
VASH2	-0.37785939	0.06554119	-3.02666835	
RIOK3	0.37788635	0.06554119	3.02692029	
TMEM170A	0.37773349	0.06567133	3.02549204	
CCDC63	-0.37770771	0.06567133	-3.02525123	
EFNA1	0.37756448	0.06581360	3.02391320	
SLC9A8	0.37755818	0.06581360	3.02385438	
DYNLL1	0.37752606	0.06581360	3.02355435	
TRAFD1	0.37715629	0.06582550	3.02010149	
ADCYAP1R1	-0.37745452	0.06582550	-3.02288618	
DBNL	0.37715542	0.06582550	3.02009340	
RNASE10	-0.37742187	0.06582550	-3.02258127	
LCE1F	-0.37729820	0.06582550	-3.02142643	
SCGB2A2	-0.37721759	0.06582550	-3.02067382	
VILL	0.37733999	0.06582550	3.02181670	
RIPK4	0.37717841	0.06582550	3.02030799	
MRPS22	0.37716720	0.06582550	3.02020340	
TRAPPC2	0.37728481	0.06582550	3.02130143	
DISP2	-0.37720768	0.06582550	-3.02058126	
ZNF840	-0.37703295	0.06593247	-3.01895018	
DRD3	-0.37702804	0.06593247	-3.01890433	
PPTC7	0.37675598	0.06613023	3.01636541	

MRAS	-0.37662705	0.06613023	-3.01516249	
SLC35F4	-0.37661937	0.06613023	-3.01509086	
KCNMB1	-0.37665725	0.06613023	-3.01544431	
LOC492303	-0.37686004	0.06613023	-3.01733645	
PBX3	-0.37680317	0.06613023	-3.01680573	
KCNT1	-0.37665697	0.06613023	-3.01544168	
MFSD5	0.37668286	0.06613023	3.01568324	
CD58	0.37667297	0.06613023	3.01559096	
AMH	-0.37654719	0.06619908	-3.01441753	
LPO	-0.37648875	0.06624407	-3.01387241	
SPATA3	-0.37600328	0.06626909	-3.00934578	
GPHA2	-0.37602042	0.06626909	-3.00950552	
EPB41L1	0.37639401	0.06626909	3.01298885	
C11orf76	-0.37605885	0.06626909	-3.00986374	
GPI	0.37634126	0.06626909	3.01249689	
GPR22	-0.37640159	0.06626909	-3.01305952	
SH2D4B	-0.37596458	0.06626909	-3.00898502	
HERV-FRD	-0.37612936	0.06626909	-3.01052109	
MAF	-0.37611230	0.06626909	-3.01036204	
VIT	-0.37612851	0.06626909	-3.01051313	
PRH1	-0.37622454	0.06626909	-3.01140850	
PSMB1	0.37609671	0.06626909	3.01021668	
SNORA31	-0.37606100	0.06626909	-3.00988386	
ACSBG2	-0.37615260	0.06626909	-3.01073775	
RSPO3	-0.37634366	0.06626909	-3.01251929	
NEXN	-0.37595541	0.06626909	-3.00889959	
STXBP1	-0.37586902	0.06636348	-3.00809440	
NIPA1	0.37578905	0.06640004	3.00734915	
ZNF358	-0.37578366	0.06640004	-3.00729890	yes
PA2G4	0.37568777	0.06645514	3.00640541	
FUSSEL18	-0.37570282	0.06645514	-3.00654560	
KERA	-0.37563765	0.06648656	-3.00593843	
RGS11	-0.37558214	0.06652744	-3.00542124	yes

HSD17B2	-0.37551934	0.06658111	-3.00483624	
SNORD25	0.37546358	0.06662255	3.00431681	
S100A16	0.37538417	0.06663491	3.00357717	
C1QL3	-0.37536047	0.06663491	-3.00335649	
SLC28A1	-0.37541358	0.06663491	-3.00385112	
CSTF2	0.37506940	0.06692094	3.00064604	
CHMP2A	0.37515689	0.06692094	3.00146070	
GRM1	-0.37510209	0.06692094	-3.00095042	
ENHO	-0.37509726	0.06692094	-3.00090542	
FAM24A	-0.37487285	0.06695723	-2.99881645	
RRAS2	-0.37490956	0.06695723	-2.99915813	
C1QL4	-0.37490195	0.06695723	-2.99908732	
ISL2	-0.37485774	0.06695723	-2.99867580	
TGFA	0.37497113	0.06695723	2.99973128	yes
ZNF628	-0.37486446	0.06695723	-2.99873834	
C20orf11	0.37478527	0.06701922	2.99800136	
JAGN1	0.37475893	0.06701922	2.99775624	
RPL37P23	-0.37470435	0.06705937	-2.99724834	
CGREF1	-0.37462027	0.06715142	-2.99646598	
PLAC9	-0.37451940	0.06721746	-2.99552749	yes
PLCXD3	-0.37452472	0.06721746	-2.99557699	
VSTM1	-0.37443992	0.06724606	-2.99478811	
TPM2	-0.37445034	0.06724606	-2.99488496	
GSDMA	-0.37440444	0.06724675	-2.99445805	
DUOX1	0.37437640	0.06724675	2.99419717	
ANKRD53	-0.37429507	0.06733437	-2.99344079	
C21orf93	-0.37424010	0.06737568	-2.99292958	
LOC100129858	-0.37419101	0.06737800	-2.99247303	
AMPH	-0.37405016	0.06737800	-2.99116338	
MSI1	-0.37408597	0.06737800	-2.99149631	
NAP1L4	0.37414483	0.06737800	2.99204361	
FAM96B	0.37406987	0.06737800	2.99134661	
NIF3L1	0.37413982	0.06737800	2.99199699	

ISLR2	-0.37401879	0.06737804	-2.99087166	
LILRA3	-0.37397465	0.06739660	-2.99046131	
FAM55A	-0.37390660	0.06739660	-2.98982867	
PARP4	0.37376544	0.06739660	2.98851662	
FOXS1	-0.37389214	0.06739660	-2.98969432	
KRT8	0.37372329	0.06739660	2.98812492	
SUMO1P1	-0.37369590	0.06739660	-2.98787040	
PGR	-0.37370771	0.06739660	-2.98798010	
NBPF3	0.37385212	0.06739660	2.98932228	
TSC22D1	0.37371094	0.06739660	2.98801017	
IMP4	0.37375137	0.06739660	2.98838590	
DCTD	0.37353676	0.06747340	2.98639159	
PDCD1	-0.37352794	0.06747340	-2.98630964	
PDGFRL	-0.37358773	0.06747340	-2.98686521	
SRD5A3	0.37353760	0.06747340	2.98639940	
RPL7P48	-0.37346795	0.06748425	-2.98575232	
EXD3	-0.37345565	0.06748425	-2.98563797	yes
PLA2G12A	-0.37342876	0.06748425	-2.98538820	
Magmas	-0.37333101	0.06754736	-2.98448018	
RASL12	-0.37333271	0.06754736	-2.98449594	yes
EFCAB3	-0.37329695	0.06755289	-2.98416379	
GALNTL2	-0.37324494	0.06759009	-2.98368067	
KCNH8	-0.37311611	0.06766414	-2.98248427	
RETSAT	0.37314573	0.06766414	2.98275934	
WDR70	0.37311035	0.06766414	2.98243072	
COL8A1	-0.37300149	0.06777682	-2.98141991	
CTSD	0.37287572	0.06777682	2.98025229	
FAM19A5	-0.37291356	0.06777682	-2.98060361	
CMPK1	0.37295366	0.06777682	2.98097586	
PLA2G5	-0.37286186	0.06777682	-2.98012366	
KALRN	-0.37288647	0.06777682	-2.98035212	
DEFB119	-0.37272446	0.06782999	-2.97884819	
GNA15	0.37276191	0.06782999	2.97919586	

C3orf1	0.37275821	0.06782999	2.97916151	
C4orf49	-0.37270909	0.06782999	-2.97870557	
OR2A2	-0.37260314	0.06787518	-2.97772229	
C4orf35	-0.37259173	0.06787518	-2.97761636	
RGS6	-0.37261363	0.06787518	-2.97781963	
ATP7B	0.37250054	0.06798231	2.97677022	
USP38	0.37226119	0.06835234	2.97454968	yes
NPFFR2	-0.37221640	0.06837767	-2.97413424	
GNB1	0.37209224	0.06854422	2.97298267	
ACTL7A	-0.37205928	0.06854826	-2.97267706	
FAT3	-0.37202900	0.06854826	-2.97239619	
SDC2	-0.37188540	0.06874991	-2.97106470	
VEGFB	-0.37184748	0.06876324	-2.97071316	
RBM23	0.37172083	0.06888483	2.96953908	
PRG2-1	-0.37171856	0.06888483	-2.96951808	
CCT5	0.37164659	0.06890488	2.96885095	
GTPBP8	0.37165075	0.06890488	2.96888953	
LRRC3	-0.37161330	0.06891014	-2.96854244	
SNORD115-31	-0.37124384	0.06893322	-2.96511899	
LOC100132323	-0.37151125	0.06893322	-2.96759666	
ARPC2	0.37125431	0.06893322	2.96521600	
TFG	0.37143647	0.06893322	2.96690371	
BHLHE23	-0.37116303	0.06893322	-2.96437045	
OR10A5	-0.37127536	0.06893322	-2.96541102	
ZNF285B	-0.37131856	0.06893322	-2.96581120	
FAM119A	0.37146548	0.06893322	2.96717252	
GPR110	0.37109893	0.06893322	2.96377675	
C2orf71	-0.37126734	0.06893322	-2.96533668	
LOC401875	-0.37111631	0.06893322	-2.96393774	
MAB21L1	-0.37142791	0.06893322	-2.96682438	
C11orf17	0.37129981	0.06893322	2.96563757	
RBM4	0.37116074	0.06893322	2.96434926	
DPEP3	-0.37108766	0.06893322	-2.96367231	

PRHOXNB	-0.37137357	0.06893322	-2.96632094	
GPR37L1	-0.37117333	0.06893322	-2.96446583	
HOXC12	-0.37103833	0.06896776	-2.96321550	yes
C16orf59	-0.37100596	0.06897208	-2.96291565	
FOXD2	-0.37095635	0.06897943	-2.96245630	
IFNGR1	0.37094199	0.06897943	2.96232329	
GPN1	0.37086859	0.06904446	2.96164366	
PANK1	-0.37084580	0.06904446	-2.96143263	
ACTN2	-0.37077372	0.06911991	-2.96076530	
NUDT1	-0.37069005	0.06920110	-2.95999071	
LNX1	0.37066867	0.06920110	2.95979276	
KANK1	-0.37049876	0.06921126	-2.95822014	
GLTPD2	-0.37055012	0.06921126	-2.95869548	
MCM4	0.37053123	0.06921126	2.95852065	
GPR143	-0.37048446	0.06921126	-2.95808777	
GSDMC	0.37051613	0.06921126	2.95838091	
MRPL33	0.37062599	0.06921126	2.95939774	
COL24A1	-0.37035291	0.06923439	-2.95687040	
SIN3A	0.37038185	0.06923439	2.95713819	
NFE2	-0.37038153	0.06923439	-2.95713522	yes
LRRC7	-0.37038872	0.06923439	-2.95720176	
RP11-544M22.4	0.37028659	0.06930007	2.95625679	
SOX8	-0.37009591	0.06958891	-2.95449279	
LOC401357	-0.37004527	0.06962674	-2.95402438	
CHST13	-0.36988159	0.06976534	-2.95251060	
OR2L2	-0.36983522	0.06976534	-2.95208179	
OR4M2	-0.36982055	0.06976534	-2.95194610	
UBR7	0.36984094	0.06976534	2.95213468	
CASS4	-0.36989366	0.06976534	-2.95262220	
PAIP1	-0.36934069	0.06979439	-2.94751035	
ACTL7B	-0.36928577	0.06979439	-2.94700284	
ZNF787	-0.36937864	0.06979439	-2.94786109	
TDRD10	-0.36917355	0.06979439	-2.94596592	

MCART2	-0.36957505	0.06979439	-2.94967642	
TTC39B	0.36953984	0.06979439	2.94935091	yes
EGF	-0.36947397	0.06979439	-2.94874211	
ETV1	-0.36913139	0.06979439	-2.94557650	
DNMBP	0.36934490	0.06979439	2.94754925	
WIPI2	0.36917913	0.06979439	2.94601754	
UBE2T	0.36927179	0.06979439	2.94687371	
GTF2B	0.36951266	0.06979439	2.94909967	
TLX2	-0.36938575	0.06979439	-2.94792673	
IMPDH2	0.36913229	0.06979439	2.94558475	
C6orf138	-0.36925098	0.06979439	-2.94668137	
ATIC	0.36928371	0.06979439	2.94698381	
TMEM111	0.36921943	0.06979439	2.94638985	
ARNTL2	0.36974947	0.06979439	2.95128891	
SEMG2	-0.36961113	0.06979439	-2.95000991	
ABCG4	-0.36936507	0.06979439	-2.94773563	
NDST4	-0.36940021	0.06979439	-2.94806039	
VEPH1	-0.36967592	0.06979439	-2.95060890	
EHMT1	0.36944361	0.06979439	2.94846152	
SNORD116-11	-0.36898059	0.06996086	-2.94418337	
POFUT1	0.36887054	0.06996086	2.94316701	
SLMO2	0.36883595	0.06996086	2.94284757	yes
CACNG7	-0.36892022	0.06996086	-2.94362580	
ACTL8	-0.36886382	0.06996086	-2.94310496	
ZNF239	-0.36888742	0.06996086	-2.94332286	
SGCE	-0.36891217	0.06996086	-2.94355141	
CIAO1	0.36879601	0.06998071	2.94247873	
SUSD2	-0.36861796	0.07024953	-2.94083462	
CNDP2	0.36857662	0.07027201	2.94045301	
C4orf12	-0.36854474	0.07027746	-2.94015870	
CCT7	0.36847912	0.07033900	2.93955293	
FKBP10	-0.36845299	0.07033900	-2.93931175	yes
MRPL14	0.36840585	0.07037211	2.93887665	

PSMD4	0.36830800	0.07048470	2.93797355	
GLIS2	-0.36828601	0.07048470	-2.93777061	
MAGEB6	-0.36820449	0.07054341	-2.93701826	
MORC1	-0.36813863	0.07054341	-2.93641060	
GAL3ST4	-0.36815710	0.07054341	-2.93658098	yes
GTF3C4	0.36818597	0.07054341	2.93684741	
CSHL1	-0.36807698	0.07060309	-2.93584178	
DHH	-0.36803609	0.07062523	-2.93546449	yes
C1QTNF1	-0.36788866	0.07070057	-2.93410451	yes
NRAS	0.36791175	0.07070057	2.93431752	
RASD1	-0.36787998	0.07070057	-2.93402449	
PPP4R1	0.36791902	0.07070057	2.93438460	yes
LOC100131120	-0.36779216	0.07080800	-2.93321451	
LOC100129890	-0.36727742	0.07081382	-2.92846871	
LOC100133142	-0.36735366	0.07081382	-2.92917145	yes
BCAP31	0.36731070	0.07081382	2.92877548	
RPP14	0.36743629	0.07081382	2.92993311	
PRR4	-0.36755879	0.07081382	-2.93106244	
ACTRT2	-0.36733223	0.07081382	-2.92897389	yes
EN1	-0.36756355	0.07081382	-2.93110634	
H3F3B	0.36759854	0.07081382	2.93142900	
UNQ6490	-0.36775442	0.07081382	-2.93286645	
AFF3	-0.36741242	0.07081382	-2.92971304	
OR2M2	-0.36773155	0.07081382	-2.93265547	
VWA5A	0.36733083	0.07081382	2.92896098	
CPXM1	-0.36747562	0.07081382	-2.93029568	
TBX20	-0.36752116	0.07081382	-2.93071557	
PTPN6	0.36740524	0.07081382	2.92964687	
SCARNA16	-0.36753879	0.07081382	-2.93087811	yes
LGI1	-0.36742256	0.07081382	-2.92980654	
CHMP4C	0.36729420	0.07081382	2.92862335	
SPEG	-0.36678975	0.07104960	-2.92397540	yes
C16orf82	-0.36698456	0.07104960	-2.92576997	

FAM9A	-0.36667831	0.07104960	-2.92294896	
METTL7B	-0.36686549	0.07104960	-2.92467308	yes
RASD2	-0.36663144	0.07104960	-2.92251729	
TRIM29	0.36687639	0.07104960	2.92477349	
ADAM2	-0.36666123	0.07104960	-2.92279169	
C12orf64	-0.36668857	0.07104960	-2.92304351	
C14orf178	-0.36662019	0.07104960	-2.92241376	
APOE	-0.36671455	0.07104960	-2.92328270	
KCNJ13	-0.36659434	0.07104960	-2.92217567	
CRIP3	-0.36684428	0.07104960	-2.92447763	
FXYD8	-0.36678989	0.07104960	-2.92397666	
FBXO34	0.36710994	0.07104960	2.92692522	
SLURP1	-0.36677398	0.07104960	-2.92383008	
SYN1	-0.36658572	0.07104960	-2.92209632	
TSSC1	0.36704344	0.07104960	2.92631245	
SAP30L	0.36686356	0.07104960	2.92465531	
TM4SF5	-0.36689768	0.07104960	-2.92496954	
C12orf65	-0.36699435	0.07104960	-2.92586020	
PRRT2	-0.36643680	0.07113438	-2.92072511	
GABRG2	-0.36639868	0.07113438	-2.92037414	
LOC441931	-0.36637708	0.07113438	-2.92017525	
ATP8A2	-0.36647860	0.07113438	-2.92110991	
LOC642587	0.36637183	0.07113438	2.92012696	
CBFB	0.36638433	0.07113438	2.92024199	yes
HMG11L10	0.36594530	0.07128520	2.91620129	
BANF2	-0.36610261	0.07128520	-2.91764893	
TEKT5	-0.36597860	0.07128520	-2.91650775	
THAP8	-0.36617653	0.07128520	-2.91832925	
ZIM2	-0.36617005	0.07128520	-2.91826954	
FREM2	0.36593053	0.07128520	2.91606539	
OR51B6	-0.36623119	0.07128520	-2.91883229	
MEF2B	-0.36590897	0.07128520	-2.91586705	
OCLN	0.36595333	0.07128520	2.91627522	

RHBDD2	0.36596262	0.07128520	2.91636067	
REG4	-0.36614287	0.07128520	-2.91801945	
BEX2	-0.36605172	0.07128520	-2.91718058	
ARRDC4	0.36590105	0.07128520	2.91579413	
PUM1	0.36625781	0.07128520	2.91907730	
NLGN1	-0.36582377	0.07133694	-2.91508322	
CHTF8	0.36581744	0.07133694	2.91502498	
KRT25	-0.36566733	0.07150983	-2.91364416	
SYPL2	-0.36567541	0.07150983	-2.91371846	
ETF1	0.36551681	0.07168390	2.91225983	
TUBG1	0.36554395	0.07168390	2.91250941	
C10orf120	-0.36544522	0.07176441	-2.91160146	
NRG3	-0.36537384	0.07184463	-2.91094510	
FLJ23865	-0.36533718	0.07186143	-2.91060809	
LOC100130557	-0.36526901	0.07193590	-2.90998136	
DLL3	-0.36517568	0.07196657	-2.90912341	
UCK2	0.36517000	0.07196657	2.90907121	
DCAKD	0.36519580	0.07196657	2.90930829	
SHANK1	-0.36514208	0.07196756	-2.90881455	
MGC24975	-0.36506827	0.07200250	-2.90813611	
TGFB111	-0.36509072	0.07200250	-2.90834247	yes
SNORD68	-0.36498911	0.07209739	-2.90740858	
SLITRK5	-0.36494528	0.07212763	-2.90700582	
RER1	0.36478771	0.07228956	2.90555796	
TMEM132E	-0.36481619	0.07228956	-2.90581963	
OR56B1	-0.36477511	0.07228956	-2.90544224	
FLJ43752	-0.36471062	0.07235793	-2.90484970	
TAL1	-0.36455193	0.07259972	-2.90339200	yes
TLL2	-0.36449509	0.07265424	-2.90287002	
PLA2G2F	-0.36446747	0.07265497	-2.90261629	
WNT6	-0.36443363	0.07266718	-2.90230553	
DUSP27	-0.36438404	0.07270846	-2.90185011	
LOC100133033	-0.36429208	0.07282799	-2.90100568	

CDO1	-0.36409280	0.07283747	-2.89917616	
SEMA3A	0.36399319	0.07283747	2.89826187	yes
C7orf11	0.36414414	0.07283747	2.89964744	
C20orf191	-0.36401012	0.07283747	-2.89841724	
GPR26	-0.36398894	0.07283747	-2.89822281	
APOC3	-0.36408827	0.07283747	-2.89913461	
KRTAP12-1	-0.36423464	0.07283747	-2.90047831	
NKX2-2	-0.36407003	0.07283747	-2.89896717	
C22orf28	0.36400209	0.07283747	2.89834352	
TMEM9B	0.36422761	0.07283747	2.90041377	
PSMC3	0.36404506	0.07283747	2.89873796	
SNORD115-38	-0.36376489	0.07288046	-2.89616672	
C1orf150	-0.36372342	0.07288046	-2.89578621	
MYADM1	-0.36377179	0.07288046	-2.89622998	
DAK	0.36378041	0.07288046	2.89630910	
AMELY	-0.36383692	0.07288046	-2.89682764	
ITIH3	-0.36387885	0.07288046	-2.89721241	
KIAA1609	0.36372326	0.07288046	2.89578476	
SQRDL	0.36390460	0.07288046	2.89744873	
RASL10B	-0.36372626	0.07288046	-2.89581224	yes
C8orf76	0.36369338	0.07288605	2.89551055	
SYNM	-0.36364091	0.07293335	-2.89502916	
OR4D1	-0.36357277	0.07294811	-2.89440401	
ZNF843	-0.36352090	0.07294811	-2.89392820	
SCUBE2	-0.36349896	0.07294811	-2.89372698	
GDF5	-0.36354211	0.07294811	-2.89412275	
CASP6	0.36359590	0.07294811	2.89461623	
AGAP2	-0.36338069	0.07296913	-2.89264221	
ST6GALNAC3	-0.36340923	0.07296913	-2.89290392	
C6orf125	0.36338432	0.07296913	2.89267548	
PAGE5	-0.36338097	0.07296913	-2.89264478	
UNQ6493	-0.36329911	0.07297206	-2.89189404	
CCT8	0.36331208	0.07297206	2.89201300	

CECR6	-0.36334759	0.07297206	-2.89233864
DIMT1L	0.36324152	0.07302919	2.89136590
TMEM196	-0.36307007	0.07313014	-2.88979391
NPW	-0.36307974	0.07313014	-2.88988255
LOC649445	-0.36305389	0.07313014	-2.88964560
UQCRC1	0.36307777	0.07313014	2.88986450
CACNB4	-0.36307491	0.07313014	-2.88983831
LOC729040	-0.36301842	0.07314663	-2.88932041
FMNL2	-0.36270165	0.07329176	-2.88641711
SALL3	-0.36279609	0.07329176	-2.88728260
ESSPL	-0.36282869	0.07329176	-2.88758133
ATP5B	0.36276773	0.07329176	2.88702262
RAB14	0.36276632	0.07329176	2.88700976
PFKP	0.36274893	0.07329176	2.88685038
SIAE	0.36271398	0.07329176	2.88653008
ABCC12	-0.36282542	0.07329176	-2.88755140
GABBR2	-0.36270566	0.07329176	-2.88645380
RTN4RL2	-0.36266892	0.07330347	-2.88611719
CCDC140	-0.36241688	0.07372179	-2.88380805
SMUG1	0.36235642	0.07378514	2.88325420
OGDH	0.36230433	0.07382335	2.88277710
TNFSF9	-0.36228314	0.07382335	-2.88258305
OLIG1	-0.36214439	0.07403269	-2.88131236
PPFIA2	-0.36210974	0.07404818	-2.88099508
TSPAN15	0.36205587	0.07405050	2.88050179
CALCB	-0.36206601	0.07405050	-2.88059467
SRP19	-0.36200849	0.07408982	-2.88006800
SPDYC	-0.36197298	0.07410704	-2.87974291
TGM7	-0.36189469	0.07414330	-2.87902620
LOC641515	-0.36188327	0.07414330	-2.87892164
SKP1	0.36187480	0.07414330	2.87884405
LTF	-0.36176954	0.07426764	-2.87788058
FLJ40292	-0.36172957	0.07426764	-2.87751479

DNLZ	-0.36174961	0.07426764	-2.87769815	
DPCR1	-0.36165392	0.07436011	-2.87682237	
GLYAT	-0.36155325	0.07445185	-2.87590117	
DPYSL4	-0.36154928	0.07445185	-2.87586484	
ARSF	-0.36150550	0.07445185	-2.87546427	
ADAM33	-0.36150028	0.07445185	-2.87541651	yes
C6orf108	0.36140561	0.07452871	2.87455033	
CISH	-0.36140576	0.07452871	-2.87455167	
CD300LG	-0.36132406	0.07452871	-2.87380427	
AP2B1	0.36130276	0.07452871	2.87360942	
IL1F8	-0.36136817	0.07452871	-2.87420785	
ZNF804A	-0.36132574	0.07452871	-2.87381963	
OR4K14	-0.36124939	0.07457990	-2.87312128	
C1orf68	-0.36109312	0.07462451	-2.87169202	
LOC100133364	-0.36114275	0.07462451	-2.87214589	
C20orf123	-0.36104379	0.07462451	-2.87124086	
PIK3R5	-0.36106559	0.07462451	-2.87144019	
PPP1CA	0.36113665	0.07462451	2.87209012	
C9orf40	-0.36114404	0.07462451	-2.87215769	
ACTN4	0.36106528	0.07462451	2.87143737	
STK16	0.36098365	0.07468864	2.87069092	
MYST3	0.36093240	0.07473616	2.87022234	
LOC100128374	-0.36071230	0.07476821	-2.86821018	
NOP56	0.36047413	0.07476821	2.86603342	
OR5I1	-0.36054116	0.07476821	-2.86664596	
OR52E2	-0.36073213	0.07476821	-2.86839142	
EVX1	-0.36050043	0.07476821	-2.86627368	
GBX2	-0.36054753	0.07476821	-2.86670419	
CD200R1L	-0.36069424	0.07476821	-2.86804501	
C2orf78	-0.36050477	0.07476821	-2.86631340	
LAG3	-0.36049316	0.07476821	-2.86620724	
MYF5	-0.36060490	0.07476821	-2.86722847	
SLC25A3	0.36081226	0.07476821	2.86912393	

ADCY10	-0.36054082	0.07476821	-2.86664279	
PSMA7	0.36075244	0.07476821	2.86857709	
UPF1	0.36045156	0.07476821	2.86582710	
CNTN2	-0.36067274	0.07476821	-2.86784851	
SPSB1	0.36050336	0.07476821	2.86630050	
C3orf39	-0.36063986	0.07476821	-2.86754797	
EIF2B5	0.36087180	0.07476821	2.86966829	
CAMK1G	-0.36039775	0.07482101	-2.86533544	
EGR4	-0.36034611	0.07486070	-2.86486362	
SLC22A17	-0.36032536	0.07486070	-2.86467403	yes
C1orf200	-0.36024689	0.07495990	-2.86395714	
HSPB6	-0.36011334	0.07511470	-2.86273716	
RNF114	0.36012756	0.07511470	2.86286709	
OR5T3	-0.36007154	0.07514525	-2.86235539	
TANC2	0.35998792	0.07520937	2.86159164	
VGLL1	-0.35996087	0.07520937	-2.86134459	
NKX2-1	-0.35996962	0.07520937	-2.86142458	
PSMD14	0.35975395	0.07526121	2.85945525	
EBNA1BP2	0.35975271	0.07526121	2.85944385	
ASCL4	-0.35976302	0.07526121	-2.85953801	
EFNA2	-0.35978778	0.07526121	-2.85976406	
C20orf43	0.35972969	0.07526121	2.85923369	
RBM47	0.35980683	0.07526121	2.85993804	
TGFBRAP1	0.35975826	0.07526121	2.85949454	
HAND2	-0.35987317	0.07526121	-2.86054378	
KANK4	-0.35947068	0.07570185	-2.85686943	
C9orf23	0.35935476	0.07582511	2.85581150	
DSP	0.35936808	0.07582511	2.85593302	
LARP5	0.35925400	0.07594457	2.85489211	yes
RASIP1	-0.35924097	0.07594457	-2.85477318	yes
OR4D10	-0.35921143	0.07595251	-2.85450369	
WDR45L	0.35909929	0.07611722	2.85348055	yes
UCP1	-0.35903423	0.07619269	-2.85288713	

CRYBB1	-0.35896986	0.07621883	-2.85229998	
ZNF561	0.35897886	0.07621883	2.85238206	yes
OR4K13	-0.35891140	0.07628191	-2.85176673	
SCN4A	-0.35885188	0.07634706	-2.85122393	
GTF2I	0.35881039	0.07637795	2.85084551	
hCG_2004198	-0.35878320	0.07638162	-2.85059763	
ARMCX1	-0.35871609	0.07643134	-2.84998564	
SLC16A6	0.35870663	0.07643134	2.84989936	
SLC36A3	-0.35865054	0.07644213	-2.84938800	
GFRA4	-0.35865695	0.07644213	-2.84944640	
DMBT1	-0.35849934	0.07658636	-2.84800955	
NPAS1	-0.35854663	0.07658636	-2.84844065	
SUPV3L1	0.35851251	0.07658636	2.84812954	
DKFZp779M0652	-0.35845457	0.07662379	-2.84760138	
MT3	-0.35842583	0.07663066	-2.84733942	
NDUFA4L2	-0.35834011	0.07665046	-2.84655815	
KIAA1486	-0.35834666	0.07665046	-2.84661785	
TNF	-0.35838395	0.07665046	-2.84695771	
IDH3B	0.35830740	0.07666500	2.84626005	
APLN	-0.35824451	0.07673720	-2.84568686	
PGK1	0.35819909	0.07677607	2.84527300	
WDR3	0.35810256	0.07691271	2.84439344	
MRPS18B	0.35799198	0.07707650	2.84338595	
TRIM68	0.35792226	0.07711419	2.84275079	
TRPM2	-0.35793569	0.07711419	-2.84287319	
HOXB2	-0.35776914	0.07729011	-2.84135609	
SLC26A10	-0.35773060	0.07729011	-2.84100510	yes
ANKRD55	-0.35778103	0.07729011	-2.84146441	
THOC5	0.35773300	0.07729011	2.84102698	
CASP12	-0.35757375	0.07739172	-2.83957678	
SHE	-0.35763762	0.07739172	-2.84015835	
LOC145814	-0.35745545	0.07739172	-2.83849973	
RNF182	-0.35740383	0.07739172	-2.83802975	

IKBKB	0.35749297	0.07739172	2.83884128	
C1orf146	-0.35743099	0.07739172	-2.83827703	
NFE2L2	0.35748401	0.07739172	2.83875975	
HSPC152	0.35752043	0.07739172	2.83909129	
GPR88	-0.35742361	0.07739172	-2.83820984	
POLR3E	0.35748657	0.07739172	2.83878300	
C6orf115	0.35746511	0.07739172	2.83858768	
CDH23	-0.35736888	0.07741119	-2.83771156	yes
CHRNA3	-0.35728197	0.07753056	-2.83692051	
ATF7	-0.35689107	0.07764253	-2.83336325	
FGFR1	-0.35703682	0.07764253	-2.83468940	
SETD1B	-0.35664062	0.07764253	-2.83108511	yes
REXO2	0.35663222	0.07764253	2.83100869	
OR1L3	-0.35672294	0.07764253	-2.83183381	
GPR17	-0.35711590	0.07764253	-2.83540906	
RNF149	0.35708503	0.07764253	2.83512814	
GUCA2A	-0.35684919	0.07764253	-2.83298232	
HOXC13	-0.35665186	0.07764253	-2.83118733	
NKX1-2	-0.35677911	0.07764253	-2.83234476	
FLJ26245	-0.35666772	0.07764253	-2.83133153	
ACHE	-0.35687042	0.07764253	-2.83317546	yes
NHP2L1	0.35672069	0.07764253	2.83181340	
P2RX7	-0.35672209	0.07764253	-2.83182613	
C14orf129	0.35709769	0.07764253	2.83524329	
ACCN5	-0.35688105	0.07764253	-2.83327210	
POLR2F	0.35688140	0.07764253	2.83327534	
TMEM72	-0.35670591	0.07764253	-2.83167893	
LCAP	-0.35695893	0.07764253	-2.83398069	
SNTA1	-0.35666895	0.07764253	-2.83134279	yes
TACR3	-0.35716271	0.07764253	-2.83583503	
TBX3	-0.35667855	0.07764253	-2.83143005	
ZNF541	-0.35685483	0.07764253	-2.83303358	
TPST1	0.35682968	0.07764253	2.83280478	

DBC1	-0.35651913	0.07772259	-2.82998023	
CDC26	0.35653385	0.07772259	2.83011412	
MAGEB3	-0.35651216	0.07772259	-2.82991684	
C9orf140	-0.35649271	0.07772259	-2.82974000	
FNDC1	-0.35642791	0.07780026	-2.82915079	
COPZ2	-0.35639518	0.07781626	-2.82885315	yes
EIF4EBP3	-0.35633256	0.07788983	-2.82828384	
TMEM221	-0.35623661	0.07789315	-2.82741157	
BCL6B	-0.35623330	0.07789315	-2.82738144	
TFAP2E	-0.35629443	0.07789315	-2.82793718	
SLC16A5	0.35624108	0.07789315	2.82745219	
CXorf56	0.35620043	0.07790954	2.82708268	
CNTFR	-0.35617364	0.07791241	-2.82683912	
TNS3	-0.35612596	0.07791241	-2.82640574	
C1QBP	0.35613970	0.07791241	2.82653065	
LOC100131054	-0.35605720	0.07795586	-2.82578081	
GLB1	0.35582920	0.07795586	2.82370890	
PRMT1	0.35590916	0.07795586	2.82443547	
ZDHHC13	0.35600451	0.07795586	2.82530192	yes
APTX	0.35585461	0.07795586	2.82393976	yes
CARKD	0.35580344	0.07795586	2.82347485	
RIC8A	0.35592129	0.07795586	2.82454562	
SCN1B	-0.35602891	0.07795586	-2.82552366	
UGT2B7	-0.35576430	0.07795586	-2.82311920	
C12orf32	0.35582438	0.07795586	2.82366511	
PNPT1	0.35578197	0.07795586	2.82327979	
FIBP	0.35583983	0.07795586	2.82380549	
FTMT	-0.35578999	0.07795586	-2.82335262	
CHD1L	0.35595895	0.07795586	2.82488790	
IGFL2	-0.35573791	0.07796021	-2.82287949	
OR11L1	-0.35564481	0.07801769	-2.82203368	
RFPL4B	-0.35564109	0.07801769	-2.82199991	
PEF1	0.35563575	0.07801769	2.82195137	

CYGB	-0.35554754	0.07806597	-2.82115017
GPR112	-0.35551671	0.07806597	-2.82087010
C11orf42	-0.35548483	0.07806597	-2.82058060
C16orf5	-0.35550087	0.07806597	-2.82072628
RAD52	0.35552025	0.07806597	2.82090227
TNFSF8	-0.35546639	0.07806597	-2.82041309
LPIN1	-0.35539885	0.07810687	-2.81979973
NPTX2	-0.35535866	0.07810687	-2.81943476
UGT1A6	0.35534919	0.07810687	2.81934884
PDLIM1	0.35539240	0.07810687	2.81974122
PROCR	-0.35524673	0.07819956	-2.81841841
ZNRD1	0.35522925	0.07819956	2.81825976
SERPINA5	-0.35524734	0.07819956	-2.81842395
CHODL	-0.35518214	0.07824426	-2.81783205
CDKN2AIP	0.35502224	0.07848452	2.81638045
NPAS3	-0.35500990	0.07848452	-2.81626848
CLINT1	0.35495627	0.07854201	2.81578172
SCNN1D	-0.35489104	0.07862204	-2.81518962
RRP8	0.35475595	0.07883759	2.81396375
CCR5	-0.35469825	0.07890326	-2.81344015
TMIGD1	-0.35461829	0.07901225	-2.81271469
ABCF2	0.35449526	0.07920525	2.81159856
ARL6IP6	0.35438192	0.07927533	2.81057053
KRT1	-0.35442857	0.07927533	-2.81099360
LYZ	-0.35436395	0.07927533	-2.81040754
GSG1	-0.35436589	0.07927533	-2.81042516
PITX3	-0.35432569	0.07930351	-2.81006051
SLFNL1	-0.35421014	0.07934334	-2.80901267
PYY2	-0.35422935	0.07934334	-2.80918685
MYLK	-0.35427513	0.07934334	-2.80960200
TBX22	-0.35424632	0.07934334	-2.80934072
SLC2A5	-0.35415778	0.07939916	-2.80853782
RPS12P23	-0.35410147	0.07946272	-2.80802724

CXCL12	-0.35405674	0.07950371	-2.80762173	
MSTN	-0.35397403	0.07961898	-2.80687188	
LHB	-0.35389477	0.07964317	-2.80615336	
ART1	-0.35392777	0.07964317	-2.80645256	
EIF4E2	0.35389056	0.07964317	2.80611520	
ZPBP	-0.35384509	0.07965726	-2.80570304	
SOX3	-0.35383601	0.07965726	-2.80562079	
FAM171B	-0.35366778	0.07975522	-2.80409608	
CYBASC3	0.35367901	0.07975522	2.80419788	
KIAA1024	-0.35371344	0.07975522	-2.80450986	
POLR2C	0.35368831	0.07975522	2.80428218	
BCAN	-0.35368516	0.07975522	-2.80425358	
KCNV2	-0.35360831	0.07982543	-2.80355720	
ZNF385C	-0.35348150	0.08002775	-2.80240823	
OR6X1	-0.35338606	0.08008774	-2.80154351	
POMC	-0.35338022	0.08008774	-2.80149068	
TBX15	-0.35342714	0.08008774	-2.80191572	
NPY6R	-0.35335019	0.08010047	-2.80121861	
C2orf79	0.35318771	0.08037362	2.79974692	
SLC25A11	0.35309200	0.08046945	2.79888009	
C6orf153	0.35309220	0.08046945	2.79888193	
TH1L	0.35302752	0.08055019	2.79829627	
CCK	-0.35291768	0.08072061	-2.79730169	
ASZ1	-0.35283892	0.08076542	-2.79658868	
ANXA2P2	0.35285330	0.08076542	2.79671879	yes
RPL23AP32	-0.35282453	0.08076542	-2.79645838	
CACNB2	-0.35274188	0.08088246	-2.79571015	
EBF3	-0.35270013	0.08091864	-2.79533229	yes
SP5	-0.35260784	0.08100853	-2.79449699	
PTCH2	-0.35262954	0.08100853	-2.79469332	
LRRC66	-0.35252129	0.08111689	-2.79371371	
LANCL2	0.35250632	0.08111689	2.79357817	
S100A7A	-0.35248243	0.08111783	-2.79336204	

SLC2A6	-0.35230449	0.08113101	-2.79175201	yes
GJA4	-0.35234092	0.08113101	-2.79208155	
SLC6A17	-0.35232511	0.08113101	-2.79193856	yes
RP11-265F14.2	-0.35239834	0.08113101	-2.79260114	
SERPINB13	0.35241864	0.08113101	2.79278482	
POU3F1	-0.35230279	0.08113101	-2.79173658	
AKR1D1	-0.35228891	0.08113101	-2.79161107	
CHST10	-0.35229420	0.08113101	-2.79165885	yes
LOC389813	-0.35211087	0.08125319	-2.79000045	
C17orf71	0.35217653	0.08125319	2.79059444	
MAPK4	-0.35213317	0.08125319	-2.79020223	
LRFN1	-0.35214698	0.08125319	-2.79032714	
NKX6-2	-0.35212102	0.08125319	-2.79009233	
VSIG4	-0.35190268	0.08128865	-2.78811763	
BBC3	-0.35195846	0.08128865	-2.78862201	
MAGEB18	-0.35193328	0.08128865	-2.78839435	
TRIM17	-0.35194048	0.08128865	-2.78845948	
ACSL5	0.35193011	0.08128865	2.78836567	
NPAL2	0.35204531	0.08128865	2.78940754	
TET1	-0.35188412	0.08128865	-2.78794980	
TATDN1	0.35199003	0.08128865	2.78890752	
ZNF585B	0.35197626	0.08128865	2.78878299	
FLJ44054	-0.35180158	0.08140650	-2.78720346	
C18orf56	-0.35170874	0.08149900	-2.78636403	
NOX5	-0.35171612	0.08149900	-2.78643083	
MPN2	-0.35162354	0.08159026	-2.78559381	
HS3ST2	-0.35161659	0.08159026	-2.78553102	
KCNAB1	-0.35155336	0.08167010	-2.78495946	
ALDH1L2	-0.35148123	0.08176775	-2.78430750	
LOC100133367	-0.35136124	0.08182639	-2.78322308	
PRSS23	0.35133819	0.08182639	2.78301481	
C3orf44	-0.35134170	0.08182639	-2.78304648	
FGF2	-0.35133646	0.08182639	-2.78299918	

GPR152	-0.35138085	0.08182639	-2.78340027	
AZGP1	-0.35127634	0.08190033	-2.78245587	
TRYX3	-0.35122670	0.08193501	-2.78200734	
CRYGA	-0.35119331	0.08193501	-2.78170567	
TRH	-0.35118991	0.08193501	-2.78167494	
VIPR2	-0.35114845	0.08197185	-2.78130034	
IP6K1	0.35109614	0.08203038	2.78082778	
GPC6	-0.35103454	0.08205853	-2.78027131	
DGUOK	0.35095260	0.08205853	2.77953111	
FNTB	0.35105777	0.08205853	2.78048114	
LRRC24	-0.35094435	0.08205853	-2.77945667	
CACNG1	-0.35100936	0.08205853	-2.78004381	
AKAP4	-0.35097206	0.08205853	-2.77970694	
POLR2H	0.35085910	0.08218307	2.77868662	yes
NUDT10	-0.35082441	0.08220661	-2.77837340	
UTS2	-0.35075050	0.08226287	-2.77770595	
VAX1	-0.35075875	0.08226287	-2.77778045	
LYPD6B	0.35061030	0.08231478	2.77643999	
ITLN1	-0.35062682	0.08231478	-2.77658909	
SNRPN	-0.35066338	0.08231478	-2.77691928	
SNORA35	-0.35062776	0.08231478	-2.77659759	
TSPAN10	-0.35068594	0.08231478	-2.77712291	
AGTR1	-0.35053904	0.08232045	-2.77579665	
SULT2A1	-0.35055913	0.08232045	-2.77597801	
TAGLN	-0.35058232	0.08232045	-2.77618733	
AKR1A1	0.35043733	0.08233065	2.77487844	
APCDD1L	-0.35039740	0.08233065	-2.77451796	
KLHL35	-0.35046918	0.08233065	-2.77516597	
HSD17B14	-0.35049692	0.08233065	-2.77541636	yes
NUDT11	-0.35040931	0.08233065	-2.77462547	
SLC5A2	-0.35043457	0.08233065	-2.77485355	
ADAMTS5	-0.35024013	0.08246357	-2.77309858	
PWP1	0.35024838	0.08246357	2.77317302	

LMTK2	0.35027079	0.08246357	2.77337528	
OR1E1	-0.35024926	0.08246357	-2.77318092	
MST1R	0.35018239	0.08253378	2.77257743	
GALR1	-0.35006987	0.08262769	-2.77156211	
GPR144	-0.35006753	0.08262769	-2.77154104	
ALPK1	0.35007950	0.08262769	2.77164900	yes
SOX11	-0.34999018	0.08273741	-2.77084312	
IRX2	-0.34992906	0.08274917	-2.77029176	
PDILT	-0.34993681	0.08274917	-2.77036162	
SPINK1	-0.34991644	0.08274917	-2.77017789	
GMPR	-0.34973214	0.08302867	-2.76851541	
SPTB	-0.34974746	0.08302867	-2.76865358	yes
FAM176B	-0.34965708	0.08309000	-2.76783853	
FOXH1	-0.34965649	0.08309000	-2.76783315	
KIF26A	-0.34951964	0.08319182	-2.76659905	
GPR27	-0.34951570	0.08319182	-2.76656357	
ZFP64	0.34952874	0.08319182	2.76668117	
TAF13	0.34952094	0.08319182	2.76661085	
LOC728060	-0.34943409	0.08326547	-2.76582777	
DLGAP2	-0.34945370	0.08326547	-2.76600450	
LOC100133317	-0.34930110	0.08348845	-2.76462879	
NKX2-4	-0.34927182	0.08350213	-2.76436482	
LASS6	0.34920360	0.08354907	2.76374990	yes
IFNA10	-0.34920389	0.08354907	-2.76375251	
GRM3	-0.34912066	0.08362588	-2.76300232	
NKAIN1	-0.34913079	0.08362588	-2.76309368	
SCT	-0.34906781	0.08368737	-2.76252601	
AVPR1B	-0.34896164	0.08383561	-2.76156928	
RPL35A	0.34894971	0.08383561	2.76146178	
PDCL2	-0.34888887	0.08391347	-2.76091356	
PHB2	0.34871628	0.08392288	2.75935866	
NOBOX	-0.34866202	0.08392288	-2.75886987	
MAGEA13P	-0.34878408	0.08392288	-2.75996948	

CTNND1	0.34874079	0.08392288	2.75957946	
EPHB1	-0.34866039	0.08392288	-2.75885524	yes
FAM108B1	0.34881142	0.08392288	2.76021581	
PDE6H	-0.34868033	0.08392288	-2.75903480	
LRTM1	-0.34874331	0.08392288	-2.75960217	
RDH14	0.34878038	0.08392288	2.75993616	
BTBD10	0.34871786	0.08392288	2.75937288	
SLC25A26	0.34854680	0.08401746	2.75783212	
C17orf47	-0.34855592	0.08401746	-2.75791428	
PSMA6	0.34858918	0.08401746	2.75821382	
KLHL23	-0.34850205	0.08405222	-2.75742902	
UNQ6190	-0.34846281	0.08405222	-2.75707566	
TRIM46	-0.34846888	0.08405222	-2.75713030	
USP39	0.34836952	0.08408745	2.75623555	
RPP40	0.34817053	0.08408745	2.75444398	yes
LYZL4	-0.34798090	0.08408745	-2.75273701	
KLHDC6	-0.34817359	0.08408745	-2.75447150	
KCNE1L	-0.34795793	0.08408745	-2.75253027	
C11orf85	-0.34799367	0.08408745	-2.75285200	
DKFZp564N2472	-0.34800571	0.08408745	-2.75296030	
HRG	-0.34821172	0.08408745	-2.75481483	
HSPA8	0.34827742	0.08408745	2.75540635	
IGFBP1	-0.34806011	0.08408745	-2.75345002	
NDUFA2	0.34810787	0.08408745	2.75387986	
STGC3	-0.34834369	0.08408745	-2.75600303	
NFKB1	0.34804860	0.08408745	2.75334635	
ZNF44	0.34796628	0.08408745	2.75260543	
ADAMTSL4	-0.34808001	0.08408745	-2.75362913	
NDFIP2	0.34806327	0.08408745	2.75347841	
KLHDC8A	-0.34804473	0.08408745	-2.75331152	
KCNK13	-0.34802274	0.08408745	-2.75311358	
PRDM8	-0.34796244	0.08408745	-2.75257089	
SLCO5A1	-0.34820491	0.08408745	-2.75475344	

PAGE4	-0.34826354	0.08408745	-2.75528135	
TBC1D27	-0.34818360	0.08408745	-2.75456165	
PATE1	-0.34787390	0.08416751	-2.75177404	
EIF5	0.34783124	0.08416751	2.75139009	yes
TNRC6C	-0.34783033	0.08416751	-2.75138192	
DSN1	0.34784797	0.08416751	2.75154072	
LOC100129924	-0.34744434	0.08418624	-2.74790926	
UBE2DNL	-0.34767315	0.08418624	-2.74996760	
BEND2	-0.34746241	0.08418624	-2.74807182	
GHITM	0.34749015	0.08418624	2.74832130	
PCSK1N	-0.34775482	0.08418624	-2.75070243	
CCDC56	0.34763591	0.08418624	2.74963262	
HADHA	0.34773199	0.08418624	2.75049705	
IGFALS	-0.34752503	0.08418624	-2.74863508	
KCNA5	-0.34740473	0.08418624	-2.74755301	
C9orf139	-0.34759198	0.08418624	-2.74923738	
MAP3K10	-0.34755858	0.08418624	-2.74893690	
C3orf18	-0.34748170	0.08418624	-2.74824536	
SLC17A7	-0.34765336	0.08418624	-2.74978961	yes
PDSS2	0.34744568	0.08418624	2.74792127	
FAM60A	0.34779446	0.08418624	2.75105912	yes
RXRG	-0.34741400	0.08418624	-2.74763639	
BSG	0.34748083	0.08418624	2.74823750	
MYO19	0.34775863	0.08418624	2.75073674	
RQCD1	0.34743748	0.08418624	2.74784753	yes
UNQ9419	-0.34714390	0.08418798	-2.74520734	
ANKRD60	-0.34725180	0.08418798	-2.74617759	
RBMX	-0.34724401	0.08418798	-2.74610757	
GPD1	-0.34728270	0.08418798	-2.74645546	yes
RCOR2	-0.34729219	0.08418798	-2.74654087	yes
TCEB3B	-0.34736825	0.08418798	-2.74722486	
PLP2	0.34719658	0.08418798	2.74568103	
TMEM70	0.34710101	0.08418798	2.74482177	

HIF1AN	0.34731079	0.08418798	2.74670807	
RPL11	0.34718929	0.08418798	2.74561549	
LOC645605	-0.34717769	0.08418798	-2.74551122	
C9orf29	-0.34711708	0.08418798	-2.74496619	
TBXA2R	-0.34734738	0.08418798	-2.74703719	
ADAMTS2	-0.34709939	0.08418798	-2.74480717	
MYOF	0.34705233	0.08419550	2.74438409	
GRIN2B	-0.34705753	0.08419550	-2.74443078	
KLK4	-0.34700103	0.08425551	-2.74392283	
FLJ14100	-0.34696549	0.08428363	-2.74360339	
LOC400446	0.34691556	0.08434093	2.74315455	
NALCN	-0.34687189	0.08438561	-2.74276194	
hCG_1757335	0.34676842	0.08455164	2.74183193	
RPS26P11	-0.34670192	0.08464278	-2.74123434	
SHPK	0.34661790	0.08476967	2.74047929	
ERLIN1	0.34653940	0.08482445	2.73977395	yes
PNPLA5	-0.34652415	0.08482445	-2.73963694	
GM2A	0.34652578	0.08482445	2.73965155	
CA12	0.34650461	0.08482445	2.73946134	
TBX21	-0.34640488	0.08498363	-2.73856535	
PTPMT1	0.34615011	0.08509641	2.73627691	
C11orf20	-0.34613499	0.08509641	-2.73614115	yes
LOC285453	0.34626320	0.08509641	2.73729263	
EHD4	0.34627033	0.08509641	2.73735666	
RSPO2	-0.34615893	0.08509641	-2.73635613	
ITIH4	-0.34625320	0.08509641	-2.73720283	
KIF22	0.34620379	0.08509641	2.73675905	
TFF2	-0.34623727	0.08509641	-2.73705977	
DNAJC14	0.34613434	0.08509641	2.73613525	
SUCLG2	0.34618037	0.08509641	2.73654865	
CHST1	-0.34610325	0.08511602	-2.73585609	
FEM1C	0.34604769	0.08518557	2.73535718	
LHCGR	-0.34601004	0.08521864	-2.73501905	

BET3L	-0.34573018	0.08526583	-2.73250644	
LOC100128550	-0.34583383	0.08526583	-2.73343696	
ST3GAL6	-0.34576313	0.08526583	-2.73280222	
ODZ4	0.34585783	0.08526583	2.73365239	
FOLR4	-0.34573048	0.08526583	-2.73250916	
HES3	-0.34578622	0.08526583	-2.73300953	yes
LOC392364	-0.34580413	0.08526583	-2.73317035	
CRSL1	0.34586681	0.08526583	2.73373301	
RALGPS2	0.34590786	0.08526583	2.73410157	yes
PPP1R2P9	-0.34578866	0.08526583	-2.73303139	
HORMAD1	0.34583803	0.08526583	2.73347468	
KIAA0391	0.34595837	0.08526583	2.73455511	
NOL9	0.34561737	0.08545266	2.73149390	
FAM40A	0.34554084	0.08552644	2.73080707	
KIAA0100	0.34553864	0.08552644	2.73078733	
SIGLEC10	-0.34550425	0.08555319	-2.73047869	
TM9SF4	0.34548159	0.08555597	2.73027532	
PKIG	-0.34528105	0.08559701	-2.72847585	
FTSJ3	0.34508187	0.08559701	2.72668906	
HIPK4	-0.34539855	0.08559701	-2.72953014	
CTSS	0.34522629	0.08559701	2.72798464	
DENND2C	0.34521344	0.08559701	2.72786930	
SNORD4A	0.34531472	0.08559701	2.72877798	
SLC35D3	-0.34530693	0.08559701	-2.72870811	
FLJ41423	-0.34519865	0.08559701	-2.72773668	
FLJ40142	-0.34525711	0.08559701	-2.72826109	
MYCN	-0.34508736	0.08559701	-2.72673833	
ZNF580	-0.34527516	0.08559701	-2.72842302	
RPS11	0.34512949	0.08559701	2.72711621	
RCTP11	0.34509583	0.08559701	2.72681430	
TYRP1	-0.34509520	0.08559701	-2.72680866	
ZAN	-0.34507961	0.08559701	-2.72666886	
COLQ	-0.34540393	0.08559701	-2.72957839	

ARD1B	-0.34509119	0.08559701	-2.72677266	
B4GALT4	0.34520198	0.08559701	2.72776648	
COMMD7	0.34504361	0.08562742	2.72634591	
CACNA1S	-0.34501241	0.08564804	-2.72606605	
TBC1D21	-0.34481905	0.08565556	-2.72433202	
SYNGR4	-0.34483797	0.08565556	-2.72450173	
ITGB6	0.34491982	0.08565556	2.72523572	
ABCC1	0.34485542	0.08565556	2.72465816	
SERPIN8	0.34494702	0.08565556	2.72547959	
SEP4	-0.34483069	0.08565556	-2.72443639	yes
ACSM5	-0.34486491	0.08565556	-2.72474326	
NEURL	-0.34485544	0.08565556	-2.72465835	
NOG	-0.34496566	0.08565556	-2.72564676	
ZCCHC16	-0.34473230	0.08578998	-2.72355424	
SNORD115-8	-0.34465890	0.08583586	-2.72289613	
F2RL1	0.34464684	0.08583586	2.72278801	
USP5	0.34466459	0.08583586	2.72294714	
LRRC26	-0.34459150	0.08590620	-2.72229188	
HIST1H2BA	-0.34453418	0.08593764	-2.72177803	
PSMB8	0.34455040	0.08593764	2.72192342	
NAALAD2	-0.34446848	0.08594337	-2.72118919	
CACNG3	-0.34448577	0.08594337	-2.72134413	
HMGXB3	0.34447435	0.08594337	2.72124178	
KIF5A	-0.34444287	0.08595293	-2.72095961	
CATSPER2	0.34437814	0.08602917	2.72037942	
TAF5L	0.34435388	0.08602917	2.72016205	yes
PRRT1	-0.34434288	0.08602917	-2.72006344	
ANKRD29	-0.34429712	0.08603724	-2.71965340	
BMP8B	-0.34430117	0.08603724	-2.71968967	
CHRM5	-0.34416385	0.08620346	-2.71845920	
RTL1	-0.34412936	0.08620346	-2.71815012	
RESP18	-0.34406998	0.08620346	-2.71761818	
LBXCOR1	-0.34408607	0.08620346	-2.71776226	

TMEM35	-0.34412950	0.08620346	-2.71815141	
NAPG	0.34410609	0.08620346	2.71794162	
IPO13	0.34413884	0.08620346	2.71823511	
WBSCR22	0.34395712	0.08634179	2.71660709	
ACADL	-0.34394014	0.08634179	-2.71645495	
FN3KRP	0.34394802	0.08634179	2.71652556	
SNORD116-10	-0.34385947	0.08638059	-2.71573243	
KLK3	-0.34387900	0.08638059	-2.71590731	
MRFAP1	0.34385883	0.08638059	2.71572667	
LOC100128233	-0.34369350	0.08646771	-2.71424601	
HBCBP	-0.34370522	0.08646771	-2.71435092	
TUBB2C	0.34369184	0.08646771	2.71423113	
TMEM146	-0.34379534	0.08646771	-2.71515806	
PLA2G1B	-0.34374319	0.08646771	-2.71469095	
SGK196	0.34371298	0.08646771	2.71442040	
LOC152118	-0.34354455	0.08670652	-2.71291223	
ASTE1	0.34353436	0.08670652	2.71282099	
LOC100130274	-0.34340866	0.08679483	-2.71169561	
MPZL2	0.34341500	0.08679483	2.71175239	
SNRNP200	0.34344466	0.08679483	2.71201787	
HADHB	0.34345548	0.08679483	2.71211477	
PRSS7	-0.34335218	0.08686865	-2.71119001	
WDR74	0.34330930	0.08691445	2.71080620	
PRPF8	0.34311243	0.08693723	2.70904419	
VPS26B	0.34322373	0.08693723	2.71004027	
C1orf65	-0.34311853	0.08693723	-2.70909876	
KLHL34	-0.34314345	0.08693723	-2.70932179	yes
OR9G4	-0.34311627	0.08693723	-2.70907853	
ZAR1	-0.34312491	0.08693723	-2.70915587	
C5orf40	-0.34314404	0.08693723	-2.70932710	
PRPF4	0.34315363	0.08693723	2.70941288	
SYCE1	-0.34321138	0.08693723	-2.70992974	
ARHGEF15	-0.34283491	0.08703900	-2.70656109	yes

LHX1	-0.34288758	0.08703900	-2.70703231
GLRA4	-0.34284260	0.08703900	-2.70662988
MYBPC1	-0.34303745	0.08703900	-2.70837321
ANKFY1	0.34284690	0.08703900	2.70666837
ZC4H2	-0.34291868	0.08703900	-2.70731052
RHOJ	-0.34297292	0.08703900	-2.70779584
HRH4	-0.34285383	0.08703900	-2.70673031
GLT8D4	-0.34279592	0.08703900	-2.70621225
INSM2	-0.34280798	0.08703900	-2.70632014
TUBA1C	0.34283769	0.08703900	2.70658596
CIRH1A	0.34298607	0.08703900	2.70791351
LRRC16B	-0.34291503	0.08703900	-2.70727786
ADCK2	0.34277424	0.08704144	2.70601835
RP11-429E11.3	-0.34271119	0.08704479	-2.70545432
CCL1	-0.34272669	0.08704479	-2.70559298
TOMM20	0.34273392	0.08704479	2.70565764
BPIL3	-0.34268204	0.08706273	-2.70519357
OR911	-0.34265303	0.08708039	-2.70493409
MEIS3	-0.34262257	0.08710106	-2.70466166
TM6SF2	-0.34254699	0.08721496	-2.70398572
C16orf70	0.34248214	0.08726456	2.70340578
KCNQ4	-0.34249583	0.08726456	-2.70352819
PHF21B	-0.34232690	0.08729129	-2.70201765
BRI3BP	0.34228662	0.08729129	2.70165753
SPAG4L	-0.34238714	0.08729129	-2.70255628
PHOX2A	-0.34228577	0.08729129	-2.70164999
P2RX3	-0.34237455	0.08729129	-2.70244370
CPSF3	0.34231083	0.08729129	2.70187397
BARHL1	-0.34237567	0.08729129	-2.70245371
NUP85	0.34234416	0.08729129	2.70217202
CUL4A	0.34235519	0.08729129	2.70227061
CSN3	-0.34219150	0.08744421	-2.70080720
LOC100130356	-0.34215631	0.08746768	-2.70049257

ABCC13	-0.34213950	0.08746768	-2.70034232	
PSD3	0.34209631	0.08751503	2.69995625	yes
FZD4	-0.34207267	0.08752192	-2.69974499	
FNDC7	-0.34194315	0.08774834	-2.69858737	
NDP	-0.34189281	0.08779999	-2.69813756	
NPL	0.34187767	0.08779999	2.69800221	
OXGR1	-0.34176981	0.08798196	-2.69703843	
HAPLN1	-0.34171513	0.08800242	-2.69654988	
SETBP1	-0.34171469	0.08800242	-2.69654595	
PLIN	-0.34169914	0.08800242	-2.69640703	
POLR2E	0.34162609	0.08811227	2.69575443	
GSG1L	-0.34151681	0.08821337	-2.69477819	
TXNDC12	0.34153788	0.08821337	2.69496644	
KIAA0408	-0.34153690	0.08821337	-2.69495764	
CELP	-0.34136913	0.08847925	-2.69345919	
SIRPD	-0.34134349	0.08849055	-2.69323021	
TMEM9	0.34131077	0.08851666	2.69293799	
FOLR1	-0.34119312	0.08855899	-2.69188741	
ARL2BP	0.34119607	0.08855899	2.69191375	
SPRYD4	0.34114396	0.08855899	2.69144847	
MRPS28	0.34125399	0.08855899	2.69243092	
MYOD1	-0.34110885	0.08855899	-2.69113500	
PDE6C	-0.34114626	0.08855899	-2.69146901	
SDC4	0.34122548	0.08855899	2.69217635	
TULP1	-0.34112224	0.08855899	-2.69125457	
FKRP	-0.34117371	0.08855899	-2.69171406	
LEAP2	-0.34105520	0.08862902	-2.69065599	
RAB42P	-0.34103022	0.08863914	-2.69043299	
MAB21L2	-0.34082756	0.08866247	-2.68862399	
GMEB1	0.34059735	0.08866247	2.68656955	
SNAP47	0.34099538	0.08866247	2.69012196	
AWAT2	-0.34091764	0.08866247	-2.68942798	
ETS2	0.34059075	0.08866247	2.68651068	

HABP4	-0.34085255	0.08866247	-2.68884697	
ALOX15	0.34068484	0.08866247	2.68735028	
HSPA12A	-0.34077996	0.08866247	-2.68819911	
OFCC1	-0.34067742	0.08866247	-2.68728402	
OR10A4	-0.34063697	0.08866247	-2.68692307	
HAS1	-0.34085793	0.08866247	-2.68889506	yes
LIPC	-0.34076449	0.08866247	-2.68806107	
NCRNA00086	-0.34089783	0.08866247	-2.68925116	
C6orf201	-0.34089655	0.08866247	-2.68923972	
MMP11	-0.34057811	0.08866247	-2.68639791	
DUOX2	0.34086912	0.08866247	2.68899488	
LRRC59	0.34059307	0.08866247	2.68653139	
STARD7	0.34060329	0.08866247	2.68662256	
CCT3	0.34065923	0.08866247	2.68712170	
ZXDA	-0.34058602	0.08866247	-2.68646843	
USHBP1	-0.34067715	0.08866247	-2.68728159	yes
ZBED4	0.34058629	0.08866247	2.68647085	
DLX2	-0.34037141	0.08888616	-2.68455376	yes
TRAV12-2	-0.34038772	0.08888616	-2.68469929	
GSC2	-0.34044700	0.08888616	-2.68522809	
GGCT	0.34039974	0.08888616	2.68480648	
CDC23	0.34040248	0.08888616	2.68483097	
C20orf144	-0.34034031	0.08890957	-2.68427631	
ORMDL2	0.34019287	0.08916463	2.68296122	
JHDM1D	0.34017133	0.08916463	2.68276909	yes
MYOCD	-0.34015884	0.08916463	-2.68265770	
EPHX2	0.34010549	0.08923482	2.68218193	
WDR21C	-0.34008366	0.08923888	-2.68198731	
PTTG1IP	0.34005111	0.08926548	2.68169706	
MRPS31	0.33996927	0.08929099	2.68096725	yes
SPATA12	-0.33999373	0.08929099	-2.68118536	
IL11	-0.34000654	0.08929099	-2.68129954	
BCL2L15	0.33995953	0.08929099	2.68088039	

KCNF1	-0.33981269	0.08929347	-2.67957124	
VRK3	0.33985856	0.08929347	2.67998019	
ATP6V0C	0.33985352	0.08929347	2.67993523	
TLR9	-0.33983981	0.08929347	-2.67981305	
SNORD32B	-0.33981583	0.08929347	-2.67959922	
GRTP1	0.33984087	0.08929347	2.67982249	
SPATA9	-0.33979986	0.08929347	-2.67945687	
BZW1	0.33993289	0.08929347	2.68064288	
LOC100130264	-0.33965819	0.08934123	-2.67819399	
KBTBD5	-0.33969142	0.08934123	-2.67849021	
NLRP4	-0.33968157	0.08934123	-2.67840240	
CLEC5A	-0.33966880	0.08934123	-2.67828855	
TUBB2B	-0.33965005	0.08934123	-2.67812148	yes
WDR33	0.33963883	0.08934123	2.67802149	yes
PI4K2A	0.33967172	0.08934123	2.67831462	
C6orf1	-0.33951715	0.08953889	-2.67693702	
WNK4	-0.33950526	0.08953889	-2.67683104	
NNAT	-0.33942493	0.08966636	-2.67611523	
LPA	-0.33940300	0.08967103	-2.67591981	
COL11A1	-0.33928650	0.08970988	-2.67488174	
ZNF280B	-0.33936432	0.08970988	-2.67557510	
NGDN	0.33930059	0.08970988	2.67500727	
PRPSAP2	0.33928613	0.08970988	2.67487842	
VAMP2	-0.33928817	0.08970988	-2.67489665	
TMEM151A	-0.33921263	0.08982321	-2.67422367	
RABL3	0.33916586	0.08986606	2.67380698	
LHX2	-0.33915299	0.08986606	-2.67369235	
FBXO10	-0.33911462	0.08990553	-2.67335054	yes
RPS26P54	-0.33906660	0.08996537	-2.67292278	
LALBA	-0.33902864	0.09000403	-2.67258471	
NES	-0.33897336	0.09000728	-2.67209235	yes
RPS6KA2	-0.33896826	0.09000728	-2.67204688	
SLC19A3	-0.33900582	0.09000728	-2.67238142	

NUPL2	0.33881846	0.09023090	2.67071291	
HSPA4	0.33880780	0.09023090	2.67061795	
STAR	-0.33880355	0.09023090	-2.67058016	
RPL7A	-0.33872468	0.09031486	-2.66987784	
LBX2	-0.33873558	0.09031486	-2.66997492	
CD33	-0.33869292	0.09034064	-2.66959507	
ADAD2	-0.33864960	0.09034952	-2.66920944	yes
MEOX2	-0.33865266	0.09034952	-2.66923665	
SP8	-0.33856816	0.09036680	-2.66848438	
ILF3	0.33859760	0.09036680	2.66874645	
LIPA	0.33856329	0.09036680	2.66844103	
LRRK1	0.33862003	0.09036680	2.66894614	
DCLRE1C	0.33846499	0.09049224	2.66756596	
TNFRSF8	-0.33846990	0.09049224	-2.66760970	
GJD4	-0.33834464	0.09058196	-2.66649486	
SENP2	0.33835126	0.09058196	2.66655371	
DPF3	-0.33836579	0.09058196	-2.66668303	yes
HIST1H4H	0.33837976	0.09058196	2.66680741	
GPRASP2	-0.33831856	0.09059596	-2.66626271	
S100A1	-0.33823934	0.09072263	-2.66555769	
AMMECR1L	0.33818377	0.09079921	2.66506327	
KCNQ1DN	-0.33814037	0.09085005	-2.66467704	
TRIM40	-0.33808016	0.09089529	-2.66414140	
SCD5	-0.33808712	0.09089529	-2.66420330	
CATSPER1	-0.33795376	0.09094179	-2.66301683	
KCNN2	-0.33788359	0.09094179	-2.66239262	
ACP6	0.33799804	0.09094179	2.66341079	
FLJ11151	0.33797933	0.09094179	2.66324432	
S100A2	0.33790171	0.09094179	2.66255384	
DMRTB1	-0.33795946	0.09094179	-2.66306757	
MRPL11	-0.33790759	0.09094179	-2.66260617	
CACNA1G	-0.33794508	0.09094179	-2.66293959	
PLAA	0.33791577	0.09094179	2.66267888	

LARS2	0.33786210	0.09094628	2.66220148	
MYBPC3	-0.33783820	0.09095591	-2.66198891	
PCBD1	0.33779900	0.09099807	2.66164022	
UNQ6126	-0.33773681	0.09102528	-2.66108716	
NUDCD2	0.33770373	0.09102528	2.66079289	
TCP10L	-0.33764862	0.09102528	-2.66030284	
MESP2	-0.33763068	0.09102528	-2.66014330	
KPNA6	0.33768846	0.09102528	2.66065714	
IFNB1	-0.33767216	0.09102528	-2.66051219	
BEND4	-0.33762655	0.09102528	-2.66010655	
GALNTL6	-0.33771063	0.09102528	-2.66085427	
DMRTA1	-0.33761230	0.09102528	-2.65997985	
CSN1S1	-0.33748880	0.09104029	-2.65888176	
AANAT	-0.33729758	0.09104029	-2.65718175	
FMOD	-0.33734380	0.09104029	-2.65759261	
MRPL46	0.33734825	0.09104029	2.65763216	
HSPB2	-0.33740239	0.09104029	-2.65811352	
LCE3B	-0.33731453	0.09104029	-2.65733244	
RP13-388O5.1	-0.33731209	0.09104029	-2.65731072	
NME1	0.33730929	0.09104029	2.65728582	
PAK3	-0.33751535	0.09104029	-2.65911776	
BTBD1	0.33742071	0.09104029	2.65827636	yes
LOC100133431	-0.33750537	0.09104029	-2.65902906	
BRCC3	0.33754817	0.09104029	2.65940964	
ELL3	0.33747232	0.09104029	2.65873520	
TEAD2	-0.33757430	0.09104029	-2.65964200	
GALNT4	0.33738407	0.09104029	2.65795061	
LITAF	0.33739592	0.09104029	2.65805601	
LOC100129346	-0.33668733	0.09107389	-2.65175905	
GAS2L1	-0.33699640	0.09107389	-2.65450494	
MAGED2	0.33666520	0.09107389	2.65156242	
LDB3	-0.33699583	0.09107389	-2.65449992	
CNN1	-0.33666550	0.09107389	-2.65156509	

ZDHC19	-0.33669507	0.09107389	-2.65182776
C16orf11	-0.33675455	0.09107389	-2.65235613
C3orf48	-0.33675032	0.09107389	-2.65231859
SLC29A1	-0.33677017	0.09107389	-2.65249489
OR6T1	-0.33723152	0.09107389	-2.65659453
BRD1	0.33667319	0.09107389	2.65163344
FUT2	0.33669156	0.09107389	2.65179659
FUT4	-0.33710062	0.09107389	-2.65543110
GDF2	-0.33716566	0.09107389	-2.65600914
WFDC10B	-0.33687961	0.09107389	-2.65346727
PMP22CD	-0.33723806	0.09107389	-2.65665267
GPR141	-0.33710281	0.09107389	-2.65545057
KCNJ8	-0.33671974	0.09107389	-2.65204689
FAM69A	0.33719541	0.09107389	2.65627356
NCRNA00167	-0.33705854	0.09107389	-2.65505718
ANO1	-0.33691939	0.09107389	-2.65382069
RFWD3	0.33698810	0.09107389	2.65443123
PROP1	-0.33690297	0.09107389	-2.65367475
CPLX3	-0.33682004	0.09107389	-2.65293801
RLN1	-0.33665316	0.09107389	-2.65145547
RPS9	-0.33721571	0.09107389	-2.65645401
LOC729898	-0.33676618	0.09107389	-2.65245946
ZNF213	-0.33688595	0.09107389	-2.65352359
PPCS	0.33674902	0.09107389	2.65230706
OR4K15	-0.33684025	0.09107389	-2.65311750
ASCC2	0.33708558	0.09107389	2.65529748
SLC7A3	-0.33678922	0.09107389	-2.65266421
CD9	0.33698822	0.09107389	2.65443225
ACTA1	-0.33663247	0.09107761	-2.65127175
THEG	-0.33656520	0.09118011	-2.65067420
CNOT8	0.33649611	0.09128655	2.65006065
ANXA1	0.33642091	0.09140609	2.64939283
CDK7	0.33639375	0.09142139	2.64915159

PTPRZ1	0.33637591	0.09142139	2.64899318	
PNLIPRP1	-0.33631553	0.09147617	-2.64845700	
SSX1	-0.33631236	0.09147617	-2.64842889	
PLEKHG4B	-0.33612248	0.09163932	-2.64674306	
PDCD11	0.33616193	0.09163932	2.64709327	
HCRT	-0.33614138	0.09163932	-2.64691086	
NPTX1	-0.33617992	0.09163932	-2.64725304	
STAP2	0.33613956	0.09163932	2.64689470	
ZNF85	-0.33614602	0.09163932	-2.64695203	
ANGPT4	-0.33607951	0.09165059	-2.64636163	
SCRT2	-0.33608466	0.09165059	-2.64640739	
CRHR2	-0.33592044	0.09167666	-2.64494972	
CCDC42	-0.33595690	0.09167666	-2.64527331	
LMOD1	-0.33591073	0.09167666	-2.64486355	
GLDC	-0.33589657	0.09167666	-2.64473792	
TRIM67	-0.33588139	0.09167666	-2.64460318	
ACCN4	-0.33598822	0.09167666	-2.64555133	
PRDM14	-0.33587931	0.09167666	-2.64458471	
MRPS25	0.33604011	0.09167666	2.64601187	
PVRL4	0.33597982	0.09167666	2.64547680	
SESN2	-0.33600813	0.09167666	-2.64572803	
HSPA9	0.33582965	0.09174244	2.64414394	
DEFB113	-0.33579679	0.09177246	-2.64385239	
FLJ34503	-0.33574250	0.09183733	-2.64337061	
EZR	0.33572885	0.09183733	2.64324950	yes
TRMT2B	0.33570148	0.09185574	2.64300661	
FAM70B	-0.33566655	0.09188789	-2.64269667	yes
KARS	0.33563034	0.09188789	2.64237546	
KRT5	0.33563023	0.09188789	2.64237444	
ProSAPiP1	-0.33557287	0.09197027	-2.64186560	yes
DIRC2	0.33541062	0.09227678	2.64042630	
NUP98	0.33531647	0.09243822	2.63959121	
MSRB3	-0.33525857	0.09252221	-2.63907765	

VPS33B	0.33515555	0.09270304	2.63816412	
COL1A1	-0.33513617	0.09270454	-2.63799219	
CRCP	0.33509651	0.09274955	2.63764056	
OR5111	-0.33499969	0.09279710	-2.63678208	
C1orf130	-0.33502196	0.09279710	-2.63697958	
ZNF7	0.33500565	0.09279710	2.63683496	
LONRF3	-0.33503856	0.09279710	-2.63712675	
LCE3C	-0.33494842	0.09284395	-2.63632758	
NDUFA4	0.33493009	0.09284395	2.63616506	
NAE1	0.33492193	0.09284395	2.63609272	
PEBP4	-0.33486416	0.09284745	-2.63558063	
C11orf41	-0.33484581	0.09284745	-2.63541791	
TMEM82	-0.33487218	0.09284745	-2.63565172	
SYNC	-0.33488011	0.09284745	-2.63572198	
TSN	0.33477805	0.09295306	2.63481730	
VPRBP	0.33474610	0.09298174	2.63453415	
LOC644083	-0.33472289	0.09299166	-2.63432842	
UBL4B	-0.33459311	0.09323101	-2.63317820	
SDF2	0.33453677	0.09331238	2.63267893	
MAP1LC3C	-0.33447770	0.09337001	-2.63215554	
SPIB	-0.33447288	0.09337001	-2.63211285	
CDR1	-0.33437056	0.09347064	-2.63120620	
PCP2	-0.33440212	0.09347064	-2.63148589	yes
VPS37D	-0.33437794	0.09347064	-2.63127165	
FUCA1	0.33433070	0.09347098	2.63085312	
C21orf62	-0.33431476	0.09347098	-2.63071186	
RPS10	-0.33432689	0.09347098	-2.63081939	
SMOC1	-0.33425840	0.09351909	-2.63021261	
SLC3A1	-0.33425541	0.09351909	-2.63018609	
CUGBP1	0.33393725	0.09360763	2.62736818	
PLAC1	-0.33407168	0.09360763	-2.62855871	
C12orf59	-0.33399788	0.09360763	-2.62790507	
SLC38A8	-0.33388203	0.09360763	-2.62687924	

SIX5	-0.33402630	0.09360763	-2.62815684	
FAM78B	-0.33407553	0.09360763	-2.62859278	
OR2W1	-0.33403599	0.09360763	-2.62824264	
KSR2	-0.33411067	0.09360763	-2.62890407	
LRRC9	-0.33397980	0.09360763	-2.62774502	
NDUFA6	0.33400667	0.09360763	2.62798296	
CHCHD8	0.33392459	0.09360763	2.62725609	
MIOX	-0.33395140	0.09360763	-2.62749351	
UBAP2	0.33410140	0.09360763	2.62882196	
CHST7	-0.33389902	0.09360763	-2.62702966	
KIAA1199	0.33403752	0.09360763	2.62825615	
NCOA5	0.33418629	0.09360763	2.62957388	
ACOT1	-0.33390849	0.09360763	-2.62711353	
TRAF7	0.33390284	0.09360763	2.62706352	
DSCR6	-0.33384289	0.09365240	-2.62653268	yes
CPO	-0.33370934	0.09387736	-2.62535025	
CACNG5	-0.33370186	0.09387736	-2.62528399	
SLC30A2	-0.33368364	0.09387736	-2.62512274	
PSG9	-0.33363555	0.09390189	-2.62469700	
HIST1H3I	0.33364660	0.09390189	2.62479477	
PRAMEF11	-0.33353942	0.09407028	-2.62384606	
ASB1	0.33347501	0.09414943	2.62327598	
PRKAG3	-0.33346618	0.09414943	-2.62319779	
CHRN2	-0.33334343	0.09425342	-2.62211151	
COX6A2	-0.33328987	0.09425342	-2.62163755	
TOR1AIP2	0.33334135	0.09425342	2.62209303	
H1FNT	-0.33332138	0.09425342	-2.62191630	
SPIN2B	-0.33329510	0.09425342	-2.62168378	
UNQ9368	-0.33331554	0.09425342	-2.62186469	
FABP12	-0.33331324	0.09425342	-2.62184433	
MMS19	0.33326534	0.09426692	2.62142043	
ZBTB12	-0.33323903	0.09428428	-2.62118769	
CAMSAP1	0.33318068	0.09433150	2.62067139	

TNP1	-0.33319222	0.09433150	-2.62077350	
UBE2A	0.33315200	0.09435406	2.62041763	
KCNJ11	-0.33310979	0.09440602	-2.62004421	
IL1RAPL2	-0.33307389	0.09444199	-2.61972659	
HIST1H4E	0.33305669	0.09444199	2.61957438	
DAND5	-0.33302442	0.09447242	-2.61928889	
PLEKHO1	-0.33295609	0.09450191	-2.61868451	
DYSF	-0.33297275	0.09450191	-2.61883187	yes
KRTAP3-1	-0.33298913	0.09450191	-2.61897677	
ATP5H	0.33287132	0.09451879	2.61793469	
GCN1L1	0.33286778	0.09451879	2.61790334	
HIST4H4	0.33284829	0.09451879	2.61773102	
C20orf197	-0.33283899	0.09451879	-2.61764872	
POP5	0.33288895	0.09451879	2.61809059	
INTS9	0.33285667	0.09451879	2.61780506	
HSD17B4	0.33279324	0.09453912	2.61724408	
IL18	0.33281024	0.09453912	2.61739450	
FAM55B	-0.33274176	0.09457195	-2.61678887	
NIT2	0.33274859	0.09457195	2.61684924	
TDRKH	-0.33269226	0.09459186	-2.61635114	
SLC44A1	0.33271207	0.09459186	2.61652629	
C17orf55	-0.33267809	0.09459186	-2.61622583	
PGLYRP1	-0.33262973	0.09465753	-2.61579817	
YARS2	0.33260933	0.09466242	2.61561777	
SAMD4A	-0.33254662	0.09471990	-2.61506328	
UBE3C	0.33256188	0.09471990	2.61519828	
GPRIN1	-0.33248904	0.09480572	-2.61455425	
NPAL3	0.33244093	0.09487100	2.61412891	
FAM83B	0.33241647	0.09488479	2.61391272	
KRTAP6-1	-0.33235899	0.09497057	-2.61340457	
IFNA8	-0.33228616	0.09503469	-2.61276079	
IRF6	0.33230231	0.09503469	2.61290354	
SS18L2	0.33225716	0.09503469	2.61250448	

STIL	0.33225751	0.09503469	2.61250755
MYO16	-0.33218421	0.09513118	-2.61185971
AKAP1	0.33217675	0.09513118	2.61179380
LOC154872	-0.33207400	0.09531610	-2.61088571
RRS1	0.33200996	0.09540566	2.61031987
PRR16	-0.33199689	0.09540566	-2.61020433
CCL25	-0.33196631	0.09543301	-2.60993420
PRG3	-0.33192716	0.09543965	-2.60958827
HRH3	-0.33194222	0.09543965	-2.60972135
GRIK4	-0.33186327	0.09545121	-2.60902376
HTT	0.33185521	0.09545121	2.60895256
BARX1	-0.33184972	0.09545121	-2.60890411
NGB	-0.33187629	0.09545121	-2.60913883
LOC100130858	-0.33174457	0.09552001	-2.60797514
CPN2	-0.33174854	0.09552001	-2.60801028
PRR18	-0.33178139	0.09552001	-2.60830039
KRTAP4-4	-0.33178827	0.09552001	-2.60836119
PEX11B	0.33172822	0.09552001	2.60783075
LOC284067	-0.33166462	0.09558047	-2.60726892
NT5C1A	-0.33166891	0.09558047	-2.60730686
BRUNOL5	-0.33161209	0.09565611	-2.60680495
HES5	-0.33158081	0.09568525	-2.60652871
TMEM54	0.33152361	0.09577122	2.60602352
CRB2	-0.33150014	0.09578328	-2.60581628
QRFP	-0.33147398	0.09580125	-2.60558528
CHRM1	-0.33135521	0.09594730	-2.60453651
RALGDS	0.33137523	0.09594730	2.60471323
LOC93432	-0.33135356	0.09594730	-2.60452189
SLC24A4	-0.33131082	0.09595154	-2.60414456
ALG10B	0.33129783	0.09595154	2.60402982
FAM135B	-0.33132572	0.09595154	-2.60427607
SLC17A2	-0.33113071	0.09617322	-2.60255444
CHP	0.33112526	0.09617322	2.60250634

KRTAP1-3	-0.33114661	0.09617322	-2.60269482	
USP44	-0.33114441	0.09617322	-2.60267535	
NME6	0.33099202	0.09622596	2.60133022	
TLL8	-0.33106562	0.09622596	-2.60197989	
RGSL1	-0.33099630	0.09622596	-2.60136803	
LAMC2	0.33100648	0.09622596	2.60145790	
MAGEE1	-0.33101434	0.09622596	-2.60152730	
NPVF	-0.33099793	0.09622596	-2.60138243	
CALN1	-0.33097610	0.09622596	-2.60118973	
FOXO1	-0.33092450	0.09630016	-2.60073436	
SEBOX	-0.33090061	0.09631345	-2.60052349	
TMEM205	0.33080709	0.09648007	2.59969822	
POLD3	0.33071601	0.09650150	2.59889456	
SIRT4	-0.33071915	0.09650150	-2.59892228	
C15orf37	-0.33077854	0.09650150	-2.59944626	
FLJ35424	-0.33069762	0.09650150	-2.59873227	
SOHLH1	-0.33069038	0.09650150	-2.59866839	
NEUROG3	-0.33075706	0.09650150	-2.59925675	
MRPL43	0.33062745	0.09660094	2.59811321	
LOC729756	-0.33051266	0.09681500	-2.59710050	
CDX2	-0.33033232	0.09683915	-2.59550983	
TM9SF1	0.33030730	0.09683915	2.59528913	
CCT2	0.33033018	0.09683915	2.59549095	
CRHR1	-0.33044845	0.09683915	-2.59653407	
EMX2	-0.33032650	0.09683915	-2.59545845	
GABRB3	-0.33039322	0.09683915	-2.59604691	
OSTF1	0.33025302	0.09683915	2.59481041	
VPS11	0.33027496	0.09683915	2.59500387	
RAB7A	0.33035242	0.09683915	2.59568710	
VTCN1	0.33041340	0.09683915	2.59622492	
TSC22D4	-0.33026690	0.09683915	-2.59493282	
UAP1L1	-0.33039952	0.09683915	-2.59610246	yes
OTOP2	-0.33030299	0.09683915	-2.59525115	

OPN4	-0.33031460	0.09683915	-2.59535355	
MARCH3	0.33019864	0.09684191	2.59433083	
DTX1	-0.33020593	0.09684191	-2.59439514	
BHMT	-0.33023231	0.09684191	-2.59462783	
HS3ST3A1	-0.33017872	0.09684680	-2.59415519	
DLC1	-0.33011616	0.09689786	-2.59360355	
RPL23AP12	-0.33006718	0.09689786	-2.59317167	
SEPSECS	0.33009212	0.09689786	2.59339163	
FAM57B	-0.33008225	0.09689786	-2.59330460	
STC2	-0.33011223	0.09689786	-2.59356887	
CRTAM	-0.33003531	0.09691519	-2.59289067	
RPL28	0.33002401	0.09691519	2.59279107	
TRIM71	-0.32998290	0.09696698	-2.59242866	
C19orf35	-0.32993907	0.09698841	-2.59204220	
CMIP	0.32993791	0.09698841	2.59203203	
APLP1	-0.32990257	0.09702754	-2.59172042	
DLAT	0.32988038	0.09703760	2.59152484	yes
SLITRK1	-0.32978428	0.09705686	-2.59067777	
ALS2CR11	-0.32978360	0.09705686	-2.59067173	
CYLC1	-0.32980991	0.09705686	-2.59090369	
AMOTL1	-0.32979460	0.09705686	-2.59076871	
MAP1LC3B2	-0.32979563	0.09705686	-2.59077774	
IL17RD	-0.32971059	0.09717937	-2.59002820	
ASS1	0.32966607	0.09722495	2.58963588	
C1orf50	0.32965480	0.09722495	2.58953657	
MOGAT3	-0.32957805	0.09735572	-2.58886017	
SOBP	-0.32956057	0.09735572	-2.58870613	
NUDT5	0.32954245	0.09735693	2.58854643	
ASB16	-0.32948999	0.09743422	-2.58808423	
UNQ6193	-0.32943885	0.09746974	-2.58763356	
NXPH1	-0.32943971	0.09746974	-2.58764120	
SLC25A34	-0.32939668	0.09752432	-2.58726204	
SLC7A9	-0.32923028	0.09756118	-2.58579613	

MMAA	0.32927714	0.09756118	2.58620894	
KIAA0907	0.32924214	0.09756118	2.58590057	
XCR1	-0.32927049	0.09756118	-2.58615033	
PIGC	0.32929743	0.09756118	2.58638767	
ATP6V1G2	-0.32923662	0.09756118	-2.58585199	
OXSM	0.32922235	0.09756118	2.58572625	
RPL9	0.32933513	0.09756118	2.58671980	
MPPED2	-0.32933878	0.09756118	-2.58675196	
KIF12	-0.32919040	0.09756644	-2.58544486	
MYLPF	-0.32913257	0.09756644	-2.58493542	
PCBP3	-0.32915257	0.09756644	-2.58511163	
LOC643997	-0.32913596	0.09756644	-2.58496529	
VRK2	0.32913322	0.09756644	2.58494118	yes
CEACAM19	-0.32909572	0.09760941	-2.58461088	
IGFL1	-0.32906003	0.09764984	-2.58429657	
SPATA20	0.32902044	0.09766023	2.58394790	
LOC728844	0.32902504	0.09766023	2.58398839	
OR7G1	-0.32898512	0.09769990	-2.58363682	
LOC100131763	-0.32881160	0.09786658	-2.58210889	
POLQ	0.32882320	0.09786658	2.58221097	
TXNL4A	0.32873590	0.09786658	2.58144236	
COX5B	0.32878870	0.09786658	2.58190722	
GRASP	-0.32883149	0.09786658	-2.58228401	yes
SF3B3	0.32879716	0.09786658	2.58198174	
C16orf73	-0.32877456	0.09786658	-2.58178278	
PSG3	-0.32875293	0.09786658	-2.58159231	
TLL1	-0.32883142	0.09786658	-2.58228339	
FAM49A	-0.32873718	0.09786658	-2.58145366	
ITGA2	0.32870958	0.09788642	2.58121068	
CETP	-0.32863765	0.09796903	-2.58057741	
PSMB2	0.32864889	0.09796903	2.58067639	
SLC10A5	0.32855795	0.09810763	2.57987584	
LOC730241	-0.32850908	0.09817775	-2.57944565	

MRPL53	0.32843975	0.09818165	2.57883546	
C3orf43	-0.32844298	0.09818165	-2.57886394	
NDUFA8	0.32845716	0.09818165	2.57898872	
SNORA20	-0.32843792	0.09818165	-2.57881935	yes
C6orf208	-0.32839762	0.09823277	-2.57846467	
SLC34A1	-0.32837253	0.09825005	-2.57824384	
CKM	-0.32834681	0.09826872	-2.57801758	
DDN	-0.32830462	0.09829218	-2.57764627	
ACTN3	-0.32830164	0.09829218	-2.57762005	
PDZD8	0.32825396	0.09832129	2.57720045	
COMMD9	0.32825874	0.09832129	2.57724254	
ELK1	-0.32820954	0.09834319	-2.57680958	
OR2T1	-0.32822037	0.09834319	-2.57690492	
CNOT1	0.32818553	0.09835815	2.57659835	yes
HEATR2	0.32816520	0.09836493	2.57641950	
EGR3	-0.32810699	0.09843301	-2.57590733	
SNTG1	-0.32810011	0.09843301	-2.57584677	
ASB17	-0.32801151	0.09855358	-2.57506734	
GSTK1	0.32802602	0.09855358	2.57519500	
NOP14	0.32796829	0.09861151	2.57468716	
COL4A3	-0.32793489	0.09863732	-2.57439337	
POLN	-0.32792222	0.09863732	-2.57428193	
DCD	-0.32777252	0.09874143	-2.57296520	
XIRP2	-0.32780030	0.09874143	-2.57320953	
RC3H1	0.32769435	0.09874143	2.57227780	yes
RLBP1L1	-0.32768622	0.09874143	-2.57220631	
BZRPL1	-0.32775160	0.09874143	-2.57278125	
GJC3	-0.32778165	0.09874143	-2.57304548	
ANKRD34C	-0.32782628	0.09874143	-2.57343803	
LYL1	-0.32776671	0.09874143	-2.57291409	
MAGEA3	0.32771930	0.09874143	2.57249714	
SLC6A1	-0.32779822	0.09874143	-2.57319124	
SOX2	0.32770520	0.09874143	2.57237322	

PSPN	-0.32765180	0.09877995	-2.57190356
LONRF2	-0.32760156	0.09882380	-2.57146186
OR1S1	-0.32758495	0.09882380	-2.57131573
SV2C	-0.32758065	0.09882380	-2.57127796
PADI2	-0.32745256	0.09884185	-2.57015177
BTBD11	0.32745440	0.09884185	2.57016794
LIPI	-0.32751446	0.09884185	-2.57069599
PPAPDC1A	-0.32748933	0.09884185	-2.57047507
ZNF774	-0.32754543	0.09884185	-2.57096828
SUV39H1	0.32749342	0.09884185	2.57051102
RCSD1	-0.32746420	0.09884185	-2.57025407
PCOLCE	-0.32740575	0.09886993	-2.56974023
OR1G1	-0.32741755	0.09886993	-2.56984395
DECR1	0.32738473	0.09887865	2.56955549
CFHR3	-0.32726281	0.09890337	-2.56848373
CMTM2	-0.32734241	0.09890337	-2.56918342
OR1L1	-0.32726682	0.09890337	-2.56851901
C7orf61	-0.32725741	0.09890337	-2.56843630
PSMA1	0.32725405	0.09890337	2.56840672
SP1	0.32729193	0.09890337	2.56873970
LOC731797	-0.32731062	0.09890337	-2.56890399
SLC2A7	-0.32723158	0.09891543	-2.56820927
TSPAN3	0.32717951	0.09899367	2.56775156
ACAN	-0.32706598	0.09920948	-2.56675386
NSFL1C	0.32703715	0.09923586	2.56650046
DUSP22	0.32699471	0.09929273	2.56612754
FAR2	0.32694643	0.09936273	2.56570328
AGFG2	-0.32688221	0.09941272	-2.56513906
MATN1	-0.32687302	0.09941272	-2.56505827
SCO1	0.32688429	0.09941272	2.56515729
OR13C4	-0.32672191	0.09965352	-2.56373071
MYH15	-0.32672175	0.09965352	-2.56372933
SMTNL2	-0.32669765	0.09965352	-2.56351761

OR8B3	-0.32670634	0.09965352	-2.56359396	
TOR1A	0.32667897	0.09965727	2.56335354	
OR2AG1	-0.32655117	0.09971533	-2.56223102	
DNAJC5G	-0.32658584	0.09971533	-2.56253550	
LGALS3BP	0.32663519	0.09971533	2.56296902	
NFIB	-0.32655256	0.09971533	-2.56224325	
LOC51145	-0.32660456	0.09971533	-2.56269998	
LOC645106	-0.32656102	0.09971533	-2.56231756	
TSGA13	-0.32652484	0.09973637	-2.56199974	
XKR5	-0.32640207	0.09985983	-2.56092163	
TMEM41B	0.32641081	0.09985983	2.56099837	
TAT	-0.32642849	0.09985983	-2.56115361	
SCARF1	-0.32641265	0.09985983	-2.56101453	
GNG8	-0.32634588	0.09994812	-2.56042821	
DPEP2	-0.32632050	0.09996102	-2.56020535	
CCKBR	-0.32630627	0.09996102	-2.56008037	
EDN1	-0.32623457	0.09999988	-2.55945085	yes
DAPK2	-0.32623134	0.09999988	-2.55942251	
ERC2	-0.32622486	0.09999988	-2.55936562	
KIAA1310	0.32622130	0.09999988	2.55933429	
ING3	0.32620364	0.10000155	2.55917929	
GUSB	0.32614575	0.10006240	2.55867100	
SLC4A9	-0.32614280	0.10006240	-2.55864518	
DHX30	0.32607506	0.10007862	2.55805050	
FLJ40235	-0.32605116	0.10007862	-2.55784069	
SYNJ2BP	0.32607053	0.10007862	2.55801070	
RALB	0.32606331	0.10007862	2.55794730	
HAND1	-0.32611511	0.10007862	-2.55840204	
HRASLS5	-0.32599521	0.10016664	-2.55734959	
FSHB	-0.32592383	0.10025149	-2.55672308	
MFGES	-0.32593919	0.10025149	-2.55685789	
SDCBP2	0.32587778	0.10031062	2.55631891	
QARS	0.32586390	0.10031062	2.55619705	

LOC494141	-0.32584695	0.10031085	-2.55604828	
CSH2	-0.32579882	0.10037084	-2.55562593	
ALX3	-0.32578667	0.10037084	-2.55551933	
RAB8A	0.32572838	0.10046441	2.55500781	
TFAP2B	-0.32569362	0.10050492	-2.55470273	
LOC100132755	-0.32552265	0.10056303	-2.55320271	yes
ABHD2	0.32563492	0.10056303	2.55418773	
GALNT1	0.32556287	0.10056303	2.55355560	
TMPRSS11A	0.32558802	0.10056303	2.55377624	
PF4	-0.32561066	0.10056303	-2.55397484	
AVPR2	-0.32557189	0.10056303	-2.55363473	
C14orf139	-0.32553774	0.10056303	-2.55333508	
FZD6	0.32551664	0.10056303	2.55314997	
TNFSF18	-0.32556931	0.10056303	-2.55361211	
LOC100130988	-0.32537536	0.10057109	-2.55191061	
TBL3	0.32545532	0.10057109	2.55261200	
HTRA4	-0.32538571	0.10057109	-2.55200144	
HCFC1R1	-0.32536225	0.10057109	-2.55179565	
ZNF462	-0.32539711	0.10057109	-2.55210138	
BCORL1	-0.32541670	0.10057109	-2.55227325	
TMBIM6	0.32547278	0.10057109	2.55276518	
ISG20L2	0.32545670	0.10057109	2.55262413	
ACTL6A	0.32544156	0.10057109	2.55249133	
RAX	-0.32531087	0.10064935	-2.55134497	
COPS7A	0.32527964	0.10068212	2.55107105	
LYPD1	-0.32524802	0.10068762	-2.55079373	
INSM1	-0.32524377	0.10068762	-2.55075643	
CLEC12A	-0.32519796	0.10070046	-2.55035469	
C2orf53	-0.32520993	0.10070046	-2.55045965	
ATP4B	-0.32517127	0.10070046	-2.55012062	
RNF7	0.32517551	0.10070046	2.55015779	
CAPN5	0.32514391	0.10072456	2.54988071	
PWWP2A	-0.32502606	0.10076093	-2.54884733	

HSPA12B	-0.32502755	0.10076093	-2.54886036	
EPB42	-0.32504051	0.10076093	-2.54897396	
TBC1D2	0.32505727	0.10076093	2.54912093	
ODZ3	-0.32500881	0.10076093	-2.54869602	
ST14	0.32504725	0.10076093	2.54903312	
ACVR1B	0.32508597	0.10076093	2.54937257	
MYOM2	-0.32499448	0.10076093	-2.54857037	
GPR32	-0.32497675	0.10076338	-2.54841493	
CHMP5	0.32494869	0.10078716	2.54816888	yes
C10orf2	0.32491633	0.10078716	2.54788516	
CER1	-0.32491869	0.10078716	-2.54790589	
INPP5J	-0.32478702	0.10096679	-2.54675162	
NCOA3	0.32479166	0.10096679	2.54679226	
EOMES	-0.32481150	0.10096679	-2.54696615	
MNAT1	0.32475984	0.10099072	2.54651329	
TMSB15A	-0.32474251	0.10099235	-2.54636140	
KCMF1	0.32471016	0.10102799	2.54607786	
DOK5	-0.32467809	0.10106300	-2.54579679	
TMTC4	0.32462750	0.10114000	2.54535337	
RUNX1T1	-0.32458834	0.10119114	-2.54501017	
OR52K2	-0.32444834	0.10126280	-2.54378330	
OTUD7A	-0.32444074	0.10126280	-2.54371666	
ZDHHC22	-0.32447622	0.10126280	-2.54402757	
LOC375295	-0.32449650	0.10126280	-2.54420532	yes
LUZP4	-0.32445817	0.10126280	-2.54386939	
LOC729135	-0.32447117	0.10126280	-2.54398329	
LCE3D	-0.32444520	0.10126280	-2.54375578	
NTRK1	-0.32437952	0.10136409	-2.54318023	
NAT8L	-0.32433848	0.10141967	-2.54282062	
RUNDC3A	-0.32425069	0.10151618	-2.54205149	
MAPK6	0.32426002	0.10151618	2.54213323	
GDAP1L1	-0.32424635	0.10151618	-2.54201347	
FAM59B	-0.32420955	0.10156223	-2.54169108	

SGCD	-0.32409587	0.10178314	-2.54069524	
PRLHR	-0.32407461	0.10179392	-2.54050900	
PNMAL1	-0.32405214	0.10180745	-2.54031223	
SNORA38B	-0.32392269	0.10189736	-2.53917846	
CBARA1	0.32394139	0.10189736	2.53934223	
CCDC38	-0.32393411	0.10189736	-2.53927849	
OR10H4	-0.32392655	0.10189736	-2.53921221	
EMP2	0.32389715	0.10189736	2.53895477	
PRND	-0.32390775	0.10189736	-2.53904757	
CHCHD2	0.32398924	0.10189736	2.53976133	
PRKCDBP	-0.32386388	0.10189807	-2.53866346	
TBX10	-0.32387880	0.10189807	-2.53879404	
KRT73	-0.32382654	0.10190810	-2.53833646	
KLK15	-0.32383543	0.10190810	-2.53841431	
TNFRSF13C	-0.32380559	0.10191832	-2.53815301	
SIGLEC12	-0.32377565	0.10194904	-2.53789080	
CCR9	-0.32348715	0.10203721	-2.53536497	
TRIM9	-0.32340888	0.10203721	-2.53467991	
OR51S1	-0.32343037	0.10203721	-2.53486795	
SHROOM1	-0.32343683	0.10203721	-2.53492456	
RAET1E	0.32347256	0.10203721	2.53523732	
ADAMTS16	-0.32347264	0.10203721	-2.53523801	
SMC1B	-0.32352205	0.10203721	-2.53567048	
EML4	0.32342302	0.10203721	2.53480364	
GNRH1	-0.32358765	0.10203721	-2.53624479	
PGM2L1	0.32358883	0.10203721	2.53625514	yes
ACACA	0.32359674	0.10203721	2.53632437	
HOXD1	-0.32342501	0.10203721	-2.53482103	
IGSF3	0.32364124	0.10203721	2.53671396	
LHFPL4	-0.32356798	0.10203721	-2.53607258	
PEX13	0.32343673	0.10203721	2.53492366	yes
PTBP1	0.32357978	0.10203721	2.53617584	
ELOVL5	0.32367799	0.10203721	2.53703569	

TAF11	0.32361907	0.10203721	2.53651987	
GARNL3	-0.32363843	0.10203721	-2.53668936	
ALDH1A2	-0.32353338	0.10203721	-2.53576964	
MAL2	0.32331340	0.10213177	2.53384419	yes
PSMB11	-0.32325302	0.10213177	-2.53331573	
C17orf81	0.32325818	0.10213177	2.53336089	
SERPINB3	0.32332752	0.10213177	2.53396774	
SLC13A1	-0.32326373	0.10213177	-2.53340952	
KIAA1919	0.32327165	0.10213177	2.53347881	
GOSR1	0.32327865	0.10213177	2.53354006	
TIMM17A	0.32316430	0.10222340	2.53253938	
HAX1	0.32314935	0.10222340	2.53240859	
PDZRN3	-0.32319243	0.10222340	-2.53278551	
ZIC1	-0.32314756	0.10222340	-2.53239290	
CELSR3	-0.32311732	0.10225519	-2.53212825	
ABHD3	0.32302119	0.10243728	2.53128721	
APOH	-0.32295344	0.10249724	-2.53069446	
MSX2	-0.32297020	0.10249724	-2.53084107	
FXVD6	-0.32294607	0.10249724	-2.53062996	
FLJ46300	-0.32289240	0.10258265	-2.53016042	
HNRNPAB	0.32285154	0.10263883	2.52980303	
CPLX1	-0.32276708	0.10268319	-2.52906423	
FAM20A	-0.32279052	0.10268319	-2.52926927	
BAI1	-0.32281070	0.10268319	-2.52944577	
BCS1L	0.32277647	0.10268319	2.52914640	
LOC400940	-0.32271081	0.10277472	-2.52857206	
NUP50	0.32261689	0.10280383	2.52775065	
MKRN2	0.32266418	0.10280383	2.52816420	
HOXA10	-0.32262650	0.10280383	-2.52783468	
LOC643332	-0.32262568	0.10280383	-2.52782753	
LOC653808	-0.32267351	0.10280383	-2.52824586	
PDE4C	-0.32258497	0.10283975	-2.52747148	
GRK1	-0.32255567	0.10286967	-2.52721531	

AGT	-0.32251029	0.10293646	-2.52681842	
ISCA1	-0.32246128	0.10301158	-2.52638990	
RAMP1	-0.32231710	0.10303658	-2.52512930	yes
SEMA4F	-0.32217635	0.10303658	-2.52389884	
OR52J3	-0.32228133	0.10303658	-2.52481655	
ZXDB	-0.32223352	0.10303658	-2.52439864	
DAZL	-0.32222930	0.10303658	-2.52436175	
ATP10B	0.32232587	0.10303658	2.52520600	
UNC84A	0.32225746	0.10303658	2.52460792	
SLC25A41	-0.32231607	0.10303658	-2.52512028	
HNRNPK	0.32237469	0.10303658	2.52563278	
LTA	-0.32222715	0.10303658	-2.52434296	
TRPM1	-0.32227994	0.10303658	-2.52480443	
C6orf226	-0.32220866	0.10303658	-2.52418131	
EIF3L	0.32217549	0.10303658	2.52389134	
PSMC2	0.32222028	0.10303658	2.52428292	
PLEKHG1	0.32220658	0.10303658	2.52416314	
CAPG	0.32219425	0.10303658	2.52405537	
NUP153	0.32219233	0.10303658	2.52403853	yes
MACC1	0.32215807	0.10303954	2.52373911	
SPATA16	-0.32213916	0.10304593	-2.52357381	
SNORD116-25	-0.32202462	0.10309619	-2.52257271	yes
TAAR9	-0.32190147	0.10309619	-2.52149649	
EYA3	0.32195669	0.10309619	2.52197901	
PES1	0.32202092	0.10309619	2.52254031	
IL1F5	-0.32185458	0.10309619	-2.52108673	
RAB41	-0.32192064	0.10309619	-2.52166400	
KIR3DL2	-0.32190294	0.10309619	-2.52150926	
FLJ45717	-0.32181185	0.10309619	-2.52071333	
IQCA1L	-0.32197931	0.10309619	-2.52217670	
LMX1B	-0.32188962	0.10309619	-2.52139289	
C14orf102	0.32189668	0.10309619	2.52145457	
PRDM12	-0.32186120	0.10309619	-2.52114451	

RENBP	-0.32205513	0.10309619	-2.52283937	
SHOX2	-0.32208401	0.10309619	-2.52309176	
WDR61	0.32181928	0.10309619	2.52077824	
FZD8	-0.32184285	0.10309619	-2.52098423	
API5	0.32191968	0.10309619	2.52165560	
ZNF697	-0.32198100	0.10309619	-2.52219145	
MMP20	-0.32198736	0.10309619	-2.52224702	
OTX2	-0.32171438	0.10328273	-2.51986168	
DNAJB5	-0.32166196	0.10329274	-2.51940371	
GP5	-0.32167514	0.10329274	-2.51951890	
POF1B	0.32166649	0.10329274	2.51944327	
CPNE1	0.32164030	0.10330569	2.51921448	
ZNF792	-0.32158224	0.10330727	-2.51870727	
STK32A	-0.32154585	0.10330727	-2.51838938	
FAT2	0.32160378	0.10330727	2.51889546	
MAST1	-0.32154366	0.10330727	-2.51837031	
POLDIP2	0.32155414	0.10330727	2.51846185	
PRPF19	0.32158451	0.10330727	2.51872712	
GTF2E1	0.32152740	0.10330795	2.51822820	
MPDU1	0.32150301	0.10332723	2.51801518	
SPSB4	-0.32146540	0.10337683	-2.51768670	yes
GJC2	-0.32129792	0.10372465	-2.51622396	
SFN	0.32126737	0.10374103	2.51595716	
LOC388387	-0.32123335	0.10374103	-2.51566006	
PSME1	0.32122697	0.10374103	2.51560437	
ZNF28	0.32125487	0.10374103	2.51584798	
ART4	-0.32116565	0.10384538	-2.51506890	yes
NBR1	0.32110167	0.10391923	2.51451028	
GPR87	0.32110298	0.10391923	2.51452172	
EFCAB5	-0.32108120	0.10392966	-2.51433159	
ARL6IP1	0.32102236	0.10402846	2.51381790	
OTP	-0.32099352	0.10405823	-2.51356606	
CTNND2	-0.32089174	0.10425620	-2.51267753	

NME4	-0.32083466	0.10435120	-2.51217929	yes
SLC17A4	-0.32079222	0.10441244	-2.51180893	
HCCS	0.32076599	0.10443628	2.51157995	yes
HNRNPA0	0.32065813	0.10453853	2.51063859	
ANKRD58	-0.32068975	0.10453853	-2.51091453	
KLHL4	-0.32066233	0.10453853	-2.51067529	yes
MED24	0.32066016	0.10453853	2.51065633	
UROC1	-0.32060742	0.10458608	-2.51019608	
TAAR2	-0.32060578	0.10458608	-2.51018176	
RPL27P8	-0.32058494	0.10459753	-2.50999993	
C14orf156	0.32053230	0.10468259	2.50954053	
SUMF2	0.32047331	0.10474563	2.50902584	
IQCJ	-0.32048651	0.10474563	-2.50914106	
MYBPH	-0.32039779	0.10488380	-2.50836699	
C13orf39	-0.32034096	0.10491515	-2.50787116	
GPC2	-0.32036249	0.10491515	-2.50805897	
DDX56	0.32033667	0.10491515	2.50783375	
RPL12P16	0.32029732	0.10492269	2.50749044	
ASB5	-0.32028587	0.10492269	-2.50739053	
TMEM208	0.32031032	0.10492269	2.50760388	
DKFZp434E1119	-0.32024053	0.10494547	-2.50699505	
TPTE	-0.32024771	0.10494547	-2.50705767	
CBS	-0.32022853	0.10494547	-2.50689036	
CASP7	0.32018808	0.10500256	2.50653751	
ZNF791	0.32016200	0.10502633	2.50631008	
PGS1	0.32012888	0.10506646	2.50602118	
COL5A1	-0.32009198	0.10508008	-2.50569932	yes
PRODH2	-0.32009139	0.10508008	-2.50569416	
RMND5B	0.32002315	0.10520177	2.50509903	
C13orf28	-0.32000240	0.10521324	-2.50491810	
SIGLEC7	-0.31997997	0.10522865	-2.50472247	
TSPAN1	0.31992853	0.10523808	2.50427390	
LENEP	-0.31993338	0.10523808	-2.50431616	

RARRES2	-0.31994432	0.10523808	-2.50441158	
SLC16A12	-0.31988677	0.10529842	-2.50390975	
PSMB7	0.31983037	0.10539282	2.50341801	
RAB11FIP5	-0.31980375	0.10541804	-2.50318588	
KLF17	-0.31978536	0.10542412	-2.50302555	
CHRNA1	-0.31953207	0.10565603	-2.50081743	
WFIKKN1	-0.31949456	0.10565603	-2.50049047	
KLF14	-0.31957156	0.10565603	-2.50116171	
AMDHD1	-0.31945943	0.10565603	-2.50018435	
FLJ25404	-0.31949488	0.10565603	-2.50049327	
LRRN4	-0.31944963	0.10565603	-2.50009888	
NR5A1	-0.31963857	0.10565603	-2.50174577	
PRR17	-0.31946952	0.10565603	-2.50027227	
MYLIP	0.31947109	0.10565603	2.50028595	
IDH3A	0.31958045	0.10565603	2.50123913	yes
COQ6	0.31952971	0.10565603	2.50079689	
PNO1	0.31965879	0.10565603	2.50192205	
SC4MOL	0.31957245	0.10565603	2.50116942	
MIXL1	-0.31946566	0.10565603	-2.50023858	
TLL4	0.31954750	0.10565603	2.50095197	
DACT1	-0.31942689	0.10567241	-2.49990070	
OR2L13	-0.31938418	0.10571044	-2.49952847	
FBXL18	-0.31937916	0.10571044	-2.49948474	
TMEM121	-0.31920813	0.10607268	-2.49799437	
CTSC	0.31911759	0.10614360	2.49720545	
FAAH2	0.31914102	0.10614360	2.49740957	
GPT	-0.31911550	0.10614360	-2.49718722	
PTPRN	-0.31909935	0.10614360	-2.49704651	
CALB1	-0.31910444	0.10614360	-2.49709087	
IL34	-0.31907705	0.10615908	-2.49685225	yes
TRAPPC3	0.31895648	0.10639879	2.49580187	
CTRB2	-0.31889785	0.10639879	-2.49529118	
PEG3	-0.31890474	0.10639879	-2.49535115	

CENPO	0.31893963	0.10639879	2.49565513
XPR1	0.31889623	0.10639879	2.49527706
SNORA24	-0.31884512	0.10648180	-2.49483187
STRAP	0.31880004	0.10651409	2.49443926
KCNK12	-0.31880062	0.10651409	-2.49444431
CDA	-0.31874571	0.10660474	-2.49396607
GSX2	-0.31844805	0.10721605	-2.49137409
DOK3	-0.31843857	0.10721605	-2.49129160
PSMF1	0.31845872	0.10721605	2.49146702
CXorf38	0.31840050	0.10726891	2.49096008
LOC100132394	-0.31834946	0.10727871	-2.49051578
EXTL1	-0.31835281	0.10727871	-2.49054492
HESX1	-0.31837176	0.10727871	-2.49070990
ACER2	0.31831581	0.10732118	2.49022288
BEX1	-0.31827112	0.10738971	-2.48983380
NPBWR2	-0.31820820	0.10739090	-2.48928616
FLJ43692	0.31821163	0.10739090	2.48931598
MYO22	-0.31821430	0.10739090	-2.48933919
FAM58A	-0.31824022	0.10739090	-2.48956489
LRIT1	-0.31817690	0.10739798	-2.48901367
TMOD1	-0.31817402	0.10739798	-2.48898862
EID2	-0.31800659	0.10758651	-2.48753148
RPSA	0.31804799	0.10758651	2.48789174
C10orf139	-0.31798144	0.10758651	-2.48731262
TMEM89	-0.31795397	0.10758651	-2.48707354
FBLIM1	-0.31801214	0.10758651	-2.48757978
VCPIP1	0.31798090	0.10758651	2.48730795
CSRP3	-0.31796215	0.10758651	-2.48714472
N-PAC	0.31802236	0.10758651	2.48766871
RSPRY1	0.31806893	0.10758651	2.48807400
COG4	0.31793014	0.10760604	2.48686621
CALR3	-0.31788827	0.10763151	-2.48650187
FAM20B	0.31789533	0.10763151	2.48656330

MRVI1	-0.31772042	0.10763566	-2.48504155	
RASL10A	-0.31767729	0.10763566	-2.48466629	
PRDX3	0.31766757	0.10763566	2.48458175	
EXOSC6	-0.31756776	0.10763566	-2.48371350	
TTC36	-0.31755425	0.10763566	-2.48359602	
CSRP1	-0.31744696	0.10763566	-2.48266281	
FREM3	-0.31782083	0.10763566	-2.48591509	
DPEP1	-0.31771997	0.10763566	-2.48503758	
OR4D11	-0.31742378	0.10763566	-2.48246124	
STX12	0.31733135	0.10763566	2.48165743	
G6PC	-0.31770569	0.10763566	-2.48491334	
ZNF775	-0.31761050	0.10763566	-2.48408528	yes
NANOS3	-0.31733750	0.10763566	-2.48171093	
FAM159A	-0.31736305	0.10763566	-2.48193310	
INHBA	-0.31756813	0.10763566	-2.48371670	
ATP1A1	0.31781273	0.10763566	2.48584458	
NPY	-0.31733013	0.10763566	-2.48164686	
MYO15A	-0.31772433	0.10763566	-2.48507549	
FAM53C	-0.31763131	0.10763566	-2.48426635	
SNX7	0.31753039	0.10763566	2.48338848	
CYB5R1	0.31747929	0.10763566	2.48294402	
FANCI	0.31770120	0.10763566	2.48487434	
STRADB	-0.31786460	0.10763566	-2.48629596	
PRM1	-0.31775187	0.10763566	-2.48531509	
PTPRK	0.31747985	0.10763566	2.48294893	
SDHB	0.31760843	0.10763566	2.48406727	
CXCR5	-0.31736439	0.10763566	-2.48194474	
TBX1	-0.31768711	0.10763566	-2.48475169	
SLC15A5	-0.31734525	0.10763566	-2.48177829	
XPNPEP1	0.31773348	0.10763566	2.48515512	
SGPP1	-0.31749358	0.10763566	-2.48306831	
SCRT1	-0.31756068	0.10763566	-2.48365197	
KRTAP9-3	-0.31739430	0.10763566	-2.48220482	

TM9SF2	0.31752519	0.10763566	2.48334322	
ECEL1	-0.31758643	0.10763566	-2.48387592	
NUPL1	0.31736002	0.10763566	2.48190671	yes
DAD1	0.31729057	0.10768513	2.48130279	
SDR42E1	0.31727277	0.10768513	2.48114804	
TJP2	0.31726303	0.10768513	2.48106332	
LOC84856	-0.31724698	0.10768675	-2.48092381	
GPR62	-0.31720741	0.10774382	-2.48057968	
LSM7	0.31714097	0.10779188	2.48000206	
C15orf29	0.31715093	0.10779188	2.48008859	
MEGF11	-0.31714834	0.10779188	-2.48006613	
CCDC85A	-0.31663342	0.10781712	-2.47559040	
COX6B2	-0.31677292	0.10781712	-2.47680273	
CTNS	0.31702313	0.10781712	2.47897753	
NKX2-3	-0.31663777	0.10781712	-2.47562823	
TMPRSS6	-0.31693378	0.10781712	-2.47820089	
ATN1	-0.31691064	0.10781712	-2.47799974	
ERBB3	0.31693089	0.10781712	2.47817572	
ALB	-0.31667099	0.10781712	-2.47591690	
FBN2	-0.31706826	0.10781712	-2.47936985	
FAM175B	0.31662377	0.10781712	2.47550653	
KIAA0774	-0.31659594	0.10781712	-2.47526469	
FRAT2	-0.31678660	0.10781712	-2.47692159	
CA14	-0.31660549	0.10781712	-2.47534771	
SHC2	-0.31690631	0.10781712	-2.47796207	
CHRD12	-0.31700684	0.10781712	-2.47883594	
GAS1	-0.31661865	0.10781712	-2.47546206	
GP2	-0.31698464	0.10781712	-2.47864292	
GUCY2D	-0.31709981	0.10781712	-2.47964419	
APEX1	0.31681492	0.10781712	2.47716774	
KRT26	-0.31661163	0.10781712	-2.47540105	
OR4F6	-0.31671783	0.10781712	-2.47632397	
SCGB1D4	-0.31665205	0.10781712	-2.47575229	

NPPB	-0.31706834	0.10781712	-2.47937059	yes
RP11-35N6.1	-0.31698994	0.10781712	-2.47868905	
TSR1	0.31663663	0.10781712	2.47561831	
CHFR	0.31692841	0.10781712	2.47815421	
ANKRD7	-0.31663484	0.10781712	-2.47560277	
STARD9	-0.31687297	0.10781712	-2.47767232	
SLC2A4	-0.31688855	0.10781712	-2.47780769	
MTMR9	0.31682890	0.10781712	2.47728920	
METRNL	-0.31661583	0.10781712	-2.47543757	
RUFY1	0.31699626	0.10781712	2.47874394	
CLDN2	-0.31683937	0.10781712	-2.47738023	
C1orf105	-0.31665693	0.10781712	-2.47579467	
GDA	0.31691359	0.10781712	2.47802538	
HMGCL	0.31657893	0.10782140	2.47511689	
NDRG4	-0.31652417	0.10791459	-2.47464113	
SLC6A7	-0.31646796	0.10797550	-2.47415270	
CNTNAP4	-0.31648015	0.10797550	-2.47425867	
CNR2	-0.31643177	0.10802502	-2.47383835	
S1PR5	-0.31636666	0.10807432	-2.47327267	
NXF4	-0.31636536	0.10807432	-2.47326137	
NUFIP2	0.31637157	0.10807432	2.47331536	yes
LOC643905	-0.31634243	0.10809264	-2.47306218	
VAC14	0.31632308	0.10810253	2.47289410	
AVL9	0.31629376	0.10813595	2.47263938	
DNAJA2	0.31619264	0.10819189	2.47176103	
ERAS	-0.31616840	0.10819189	-2.47155049	
HTR2C	-0.31619491	0.10819189	-2.47178080	
KRT33B	-0.31625415	0.10819189	-2.47229535	
PHAX	0.31623105	0.10819189	2.47209467	
C21orf33	0.31616409	0.10819189	2.47151310	
JAM3	-0.31619517	0.10819189	-2.47178306	
NOSTRIN	-0.31613258	0.10823056	-2.47123942	
TIPARP	0.31607774	0.10830122	2.47076315	

NECAB1	-0.31607241	0.10830122	-2.47071688
CLEC4D	-0.31604546	0.10832919	-2.47048279
CPLX2	-0.31588274	0.10834293	-2.46906979
CPT1C	-0.31595811	0.10834293	-2.46972425
KRT72	-0.31593094	0.10834293	-2.46948833
YJEFN3	-0.31587371	0.10834293	-2.46899144
PIH1D1	0.31597519	0.10834293	2.46987261
PSMD1	0.31598678	0.10834293	2.46997319
ISY1	0.31598815	0.10834293	2.46998513
TECTB	-0.31591676	0.10834293	-2.46936520
UROS	0.31593243	0.10834293	2.46950132
ZNF185	0.31595709	0.10834293	2.46971540
SEL1L2	-0.31589077	0.10834293	-2.46913958
SNORA13	-0.31583941	0.10838835	-2.46869360
WDFY1	0.31577920	0.10846400	2.46817084
FSCB	-0.31577726	0.10846400	-2.46815405
SLC4A1AP	0.31568000	0.10864963	2.46730970
PAPPA2	-0.31566863	0.10864963	-2.46721097
ERO1L	0.31558098	0.10871469	2.46645009
SPINT4	-0.31559562	0.10871469	-2.46657721
RPS6KA3	0.31562457	0.10871469	2.46682853
CACNA1F	-0.31560438	0.10871469	-2.46665327
GBP6	0.31554647	0.10876079	2.46615054
PIGL	0.31545719	0.10893665	2.46537566
RBPMS	-0.31542087	0.10898320	-2.46506046
KCNH6	-0.31540750	0.10898320	-2.46494444
C1orf55	0.31531349	0.10903995	2.46412859
EPOR	-0.31530851	0.10903995	-2.46408543
ITGAD	-0.31532425	0.10903995	-2.46422203
S100A5	-0.31530969	0.10903995	-2.46409563
COPS3	0.31536710	0.10903995	2.46459384
GALNT9	-0.31528448	0.10906138	-2.46387686
SLCO1B1	-0.31519055	0.10907516	-2.46306191

STK38	0.31525090	0.10907516	2.46358555	
C5orf20	-0.31523513	0.10907516	-2.46344869	
IL10	-0.31523348	0.10907516	-2.46343432	
NR2E1	-0.31518877	0.10907516	-2.46304639	
COQ10B	0.31521779	0.10907516	2.46329821	
PSMD8	0.31514010	0.10911249	2.46262418	
SYK	0.31512812	0.10911249	2.46252025	
GALR3	-0.31513021	0.10911249	-2.46253834	
KLKBL4	-0.31511267	0.10911367	-2.46238618	
NLRP7	-0.31504242	0.10917390	-2.46177675	
TAS1R1	-0.31504851	0.10917390	-2.46182953	
TSPAN14	0.31505197	0.10917390	2.46185957	
BAZ1A	0.31499377	0.10918302	2.46135465	yes
LGI4	-0.31499888	0.10918302	-2.46139904	
WDR22	0.31501420	0.10918302	2.46153193	
ACOX1	0.31495834	0.10918382	2.46104736	
PPP2R2A	0.31495893	0.10918382	2.46105248	
ASPDH	-0.31494865	0.10918382	-2.46096332	
IL21	-0.31489256	0.10924610	-2.46047680	
ACTG2	-0.31490175	0.10924610	-2.46055645	
IL17F	-0.31466097	0.10924990	-2.45846823	
OR11H6	-0.31469282	0.10924990	-2.45874447	
C19orf21	0.31467247	0.10924990	2.45856799	
VWA5B1	-0.31471919	0.10924990	-2.45897313	
EXD1	-0.31482301	0.10924990	-2.45987354	
OR5M11	-0.31463376	0.10924990	-2.45823232	
GZMM	-0.31463506	0.10924990	-2.45824356	
ITIH2	-0.31475955	0.10924990	-2.45932318	
KCNJ1	-0.31470010	0.10924990	-2.45880758	
FLJ44653	-0.31472382	0.10924990	-2.45901329	
NSDHL	0.31479902	0.10924990	2.45966547	
YBX2	-0.31469880	0.10924990	-2.45879632	
DCLRE1B	0.31483266	0.10924990	2.45995718	

SLC10A2	-0.31471818	0.10924990	-2.45896434	
C13orf38	-0.31478105	0.10924990	-2.45950957	
COLEC12	-0.31463977	0.10924990	-2.45828439	
TBX19	-0.31462320	0.10924990	-2.45814074	
CLCA2	0.31480312	0.10924990	2.45970106	
CLDN18	-0.31458664	0.10926623	-2.45782373	
BCL6	0.31458767	0.10926623	2.45783265	
ABCA13	0.31453204	0.10936055	2.45735025	
OSTalpha	0.31448014	0.10941332	2.45690033	
BAT5	0.31448756	0.10941332	2.45696465	
RNF4	0.31446184	0.10941959	2.45674164	
PSD2	-0.31444538	0.10941959	-2.45659890	
DHX16	0.31443305	0.10941959	2.45649208	
SLC6A18	-0.31437728	0.10951682	-2.45600855	
PARD6B	0.31435707	0.10952964	2.45583340	yes
C19orf71	-0.31424029	0.10959621	-2.45482104	
DHRS7C	-0.31425736	0.10959621	-2.45496904	
THBS4	-0.31429511	0.10959621	-2.45529621	
ZIC2	-0.31425283	0.10959621	-2.45492976	
WISP3	-0.31426135	0.10959621	-2.45500364	
OLFM2	-0.31428977	0.10959621	-2.45524998	
SHISA4	-0.31420999	0.10963307	-2.45455843	
LOC100133131	-0.31418819	0.10964977	-2.45436944	
LOC389151	-0.31417047	0.10965676	-2.45421592	
AMTN	-0.31414039	0.10969313	-2.45395522	
FAM132A	-0.31409252	0.10977184	-2.45354029	
SLC6A19	-0.31405116	0.10983508	-2.45318190	
S100P	0.31401645	0.10987076	2.45288104	
PPAP2C	0.31400665	0.10987076	2.45279617	
RNF151	-0.31396803	0.10992757	-2.45246145	
CYFIP1	0.31381650	0.11016724	2.45114854	
SSBP3	-0.31382223	0.11016724	-2.45119817	
LCN1	-0.31384768	0.11016724	-2.45141865	

QRSL1	0.31379369	0.11016724	2.45095093	yes
KRTAP3-3	-0.31380726	0.11016724	-2.45106851	
HIST3H3	-0.31377000	0.11018859	-2.45074568	
COCH	-0.31371559	0.11019551	-2.45027425	
OR11H4	-0.31373752	0.11019551	-2.45046423	
PRRG1	-0.31370820	0.11019551	-2.45021030	
NT5M	-0.31372325	0.11019551	-2.45034069	
SPERT	-0.31366294	0.11019821	-2.44981818	
DLGAP4	-0.31367763	0.11019821	-2.44994543	
CORO2A	0.31367351	0.11019821	2.44990974	
ATP2B3	-0.31362988	0.11024196	-2.44953184	
PP2672	-0.31360679	0.11026199	-2.44933178	
RBM7	0.31356118	0.11030066	2.44893675	
CMTM1	-0.31357537	0.11030066	-2.44905960	
LOC255374	-0.31347983	0.11045975	-2.44823212	
SMARCD3	-0.31343762	0.11049322	-2.44786658	yes
SART3	0.31343644	0.11049322	2.44785635	
RP3-377H14.5	-0.31339271	0.11056262	-2.44747761	
CHEK2	0.31312319	0.11057536	2.44514386	
ABCB7	0.31312302	0.11057536	2.44514234	
EFHA1	0.31332597	0.11057536	2.44689964	
FGF1	-0.31316618	0.11057536	-2.44551606	
SLCO4A1	-0.31311315	0.11057536	-2.44505691	yes
WDR86	-0.31309457	0.11057536	-2.44489606	
OR2G6	-0.31323726	0.11057536	-2.44613146	
SIGLEC16	-0.31311501	0.11057536	-2.44507301	
LOC407835	-0.31329432	0.11057536	-2.44662561	
MEIS2	-0.31316779	0.11057536	-2.44553002	
PRKY	0.31328533	0.11057536	2.44654776	
SEMG1	-0.31322006	0.11057536	-2.44598259	
SMTN	-0.31321554	0.11057536	-2.44594341	yes
SLC22A3	-0.31335071	0.11057536	-2.44711386	
ST8SIA4	0.31319736	0.11057536	2.44578606	

ANGPTL6	-0.31310110	0.11057536	-2.44495262	
FAM105B	0.31316970	0.11057536	2.44554650	
CHMP7	0.31319835	0.11057536	2.44579461	
RFT1	0.31331269	0.11057536	2.44678466	
H2AFV	0.31333250	0.11057536	2.44695617	
LOC51233	-0.31301747	0.11072467	-2.44422857	
DDR2	-0.31299181	0.11075110	-2.44400647	
RGS21	-0.31294892	0.11081874	-2.44363524	
APC2	-0.31282153	0.11082317	-2.44253256	
NTN5	-0.31278282	0.11082317	-2.44219752	
NDUFB6	0.31286807	0.11082317	2.44293541	
PCK1	-0.31281972	0.11082317	-2.44251692	
UTP6	0.31279037	0.11082317	2.44226287	
ABCG8	-0.31275943	0.11082317	-2.44199510	
SLC12A3	-0.31287233	0.11082317	-2.44297229	
SLC14A1	-0.31275857	0.11082317	-2.44198769	
SSTR4	-0.31292817	0.11082317	-2.44345562	
TFRC	0.31281106	0.11082317	2.44244197	
CASQ2	-0.31285215	0.11082317	-2.44279760	
RAB2B	0.31290457	0.11082317	2.44325130	yes
SLAMF9	-0.31275768	0.11082317	-2.44197995	
PRDM4	0.31269501	0.11090221	2.44143762	yes
RXFP2	-0.31267552	0.11090221	-2.44126892	
SAMD9	0.31266647	0.11090221	2.44119064	
POGK	0.31267349	0.11090221	2.44125139	
PIK3AP1	-0.31259306	0.11104308	-2.44055542	
KCTD11	0.31250519	0.11118394	2.43979513	
C3orf22	-0.31251894	0.11118394	-2.43991402	
MRRF	0.31248836	0.11118948	2.43964948	
LBP	-0.31245998	0.11122270	-2.43940393	
C12orf28	-0.31242566	0.11125993	-2.43910705	
MREG	0.31241542	0.11125993	2.43901845	
RIMKLA	-0.31236729	0.11134055	-2.43860204	

PRAP1	-0.31226434	0.11137886	-2.43771148	
ASB10	-0.31229645	0.11137886	-2.43798924	
OR4N2	-0.31226588	0.11137886	-2.43772476	
NRIP3	-0.31228077	0.11137886	-2.43785358	
REN	-0.31232967	0.11137886	-2.43827663	yes
TPO	-0.31228874	0.11137886	-2.43792256	yes
TMEM138	0.31211855	0.11169417	2.43645046	
RPLP1	0.31209890	0.11170658	2.43628054	
MRPS7	0.31203900	0.11181581	2.43576253	
NT5C2	0.31194507	0.11186601	2.43495020	
OR56A3	-0.31191686	0.11186601	-2.43470632	
CYP3A43	-0.31193725	0.11186601	-2.43488263	
VPS33A	0.31194388	0.11186601	2.43493994	
hCG_1771830	-0.31192789	0.11186601	-2.43480170	
FER1L6	0.31193132	0.11186601	2.43483131	
CENPL	0.31197414	0.11186601	2.43520163	
GATA1	-0.31188775	0.11186614	-2.43445456	
B3GNT8	-0.31189903	0.11186614	-2.43455211	
SMG7	0.31187346	0.11186614	2.43433102	yes
GANAB	0.31179836	0.11197429	2.43368172	
ST8SIA6	-0.31178520	0.11197429	-2.43356795	
NOLC1	0.31180571	0.11197429	2.43374522	
C22orf13	0.31175507	0.11201211	2.43330740	
LOC729085	-0.31169801	0.11211480	-2.43281412	
LRRC55	-0.31156612	0.11232849	-2.43167406	
UTS2R	-0.31157521	0.11232849	-2.43175262	
IL4	-0.31159437	0.11232849	-2.43191821	
DIO3	-0.31153142	0.11237744	-2.43137412	
C3orf53	-0.31141874	0.11261489	-2.43040019	
PPARGC1A	-0.31137776	0.11267145	-2.43004609	
VPS72	0.31136652	0.11267145	2.42994894	
PLA2G4A	0.31135204	0.11267162	2.42982378	
CHRNB1	-0.31130763	0.11270160	-2.42944002	

PABPC5	-0.31128818	0.11270160	-2.42927195	
NXT1	-0.31128204	0.11270160	-2.42921885	
ASH2L	0.31131878	0.11270160	2.42953633	
CDKN2C	0.31120919	0.11275183	2.42858935	
NLRP8	-0.31118135	0.11275183	-2.42834880	
OR8U1	-0.31123141	0.11275183	-2.42878142	
HPD	-0.31118906	0.11275183	-2.42841545	
NTSR1	-0.31117497	0.11275183	-2.42829368	
SLC22A6	-0.31117749	0.11275183	-2.42831547	
C7orf51	-0.31112616	0.11280040	-2.42787197	
P2RY12	-0.31114033	0.11280040	-2.42799440	
ABI1	0.31108369	0.11286842	2.42750509	yes
TXNL4B	0.31101702	0.11299514	2.42692908	
OR7E24	-0.31099390	0.11301637	-2.42672933	
TCERG1L	-0.31090643	0.11315884	-2.42597381	
SERPINB11	0.31091360	0.11315884	2.42603572	
MFN2	0.31087458	0.11320131	2.42569864	
ADRM1	0.31075022	0.11337369	2.42462456	
CCDC105	-0.31078087	0.11337369	-2.42488930	
PPP2R4	0.31075934	0.11337369	2.42470336	
TCTA	0.31074620	0.11337369	2.42458986	
DBNDD1	-0.31070150	0.11344747	-2.42420384	
CXADR	0.31068147	0.11346131	2.42403083	
KCTD18	0.31060967	0.11359698	2.42341077	
ABT1	0.31058270	0.11359698	2.42317788	
PLSCR1	0.31058900	0.11359698	2.42323228	
FAM148A	-0.31045156	0.11375492	-2.42204558	
TSPYL6	-0.31048218	0.11375492	-2.42230994	
CROT	0.31044623	0.11375492	2.42199954	
KIAA1239	-0.31050208	0.11375492	-2.42248182	
C14orf2	0.31045106	0.11375492	2.42204130	
CST8	-0.31038157	0.11379037	-2.42144135	
INADL	0.31041024	0.11379037	2.42168883	yes

C1orf71	0.31036702	0.11379037	2.42131570	
SPIN3	-0.31036016	0.11379037	-2.42125653	
ITGA10	-0.31038018	0.11379037	-2.42142931	
RPL36P8	-0.31032183	0.11384893	-2.42092562	
C5orf47	-0.31029731	0.11387387	-2.42071393	
PCMT1	0.31026252	0.11388903	2.42041363	
PPM1G	0.31026565	0.11388903	2.42044060	
FAM43B	-0.31023242	0.11391995	-2.42015384	
FBXO8	0.31022128	0.11391995	2.42005766	
CCDC129	-0.31009154	0.11413656	-2.41893783	
TRAK1	0.31008966	0.11413656	2.41892164	
FAM162A	0.31010894	0.11413656	2.41908796	
SERPINA9	-0.31005636	0.11417009	-2.41863419	
PXMP3	0.31004741	0.11417009	2.41855693	
CDH20	-0.30996945	0.11423498	-2.41788415	
PTPRH	0.30996907	0.11423498	2.41788094	
SYN3	-0.30998089	0.11423498	-2.41798294	
FAM110B	-0.30996382	0.11423498	-2.41783558	
DUSP26	-0.30989486	0.11436199	-2.41724054	
TMEM169	-0.30988334	0.11436199	-2.41714117	
ATF5	-0.30983732	0.11440488	-2.41674406	
RBMXL2	-0.30984602	0.11440488	-2.41681908	
NMS	-0.30975532	0.11442540	-2.41603651	
DCC	-0.30976020	0.11442540	-2.41607868	
FAM5C	-0.30978757	0.11442540	-2.41631483	
OR51A4	-0.30979953	0.11442540	-2.41641799	
FZD7	-0.30972938	0.11442540	-2.41581276	
LCOR	0.30976528	0.11442540	2.41612248	yes
ZNF766	0.30974328	0.11442540	2.41593269	
LOC100128510	0.30969446	0.11444525	2.41551149	
BARHL2	-0.30969285	0.11444525	-2.41549762	
LPAR4	-0.30966991	0.11446661	-2.41529973	yes
NCAN	-0.30961863	0.11450141	-2.41485733	

DOK6	-0.30959891	0.11450141	-2.41468725	
POM121L9P	-0.30963255	0.11450141	-2.41497739	
WDR12	0.30960365	0.11450141	2.41472812	
C16orf63	0.30956981	0.11453789	2.41443620	
OR2S2	-0.30955369	0.11454265	-2.41429710	
PKD1L2	-0.30944298	0.11467480	-2.41334222	
SLC16A9	0.30944966	0.11467480	2.41339984	
DDX41	0.30946456	0.11467480	2.41352831	
COL14A1	-0.30947212	0.11467480	-2.41359356	
PSG2	-0.30942730	0.11467851	-2.41320699	
MORF4L1	-0.30932945	0.11471019	-2.41236307	
RLBP1L2	-0.30934253	0.11471019	-2.41247591	
CYP3A5	0.30937493	0.11471019	2.41275531	
NID2	-0.30937487	0.11471019	-2.41275485	
ARF4	0.30934521	0.11471019	2.41249901	
BAG5	0.30934080	0.11471019	2.41246095	
ZACN	-0.30921897	0.11494615	-2.41141036	
CR1	-0.30918323	0.11496452	-2.41110220	
STAC	-0.30918320	0.11496452	-2.41110194	
RPS16	0.30914480	0.11500692	2.41077083	
CYTH2	0.30913764	0.11500692	2.41070910	
PRAME	-0.30911943	0.11501692	-2.41055215	
PRPSAP1	0.30909961	0.11503090	2.41038123	
GPR111	-0.30907109	0.11503343	-2.41013532	
TAS2R1	-0.30907034	0.11503343	-2.41012891	
C9orf50	-0.30904602	0.11505847	-2.40991919	
OR51V1	-0.30898041	0.11507566	-2.40935360	
NANOS2	-0.30896850	0.11507566	-2.40925091	
MYD88	0.30900613	0.11507566	2.40957526	
GJD2	-0.30900369	0.11507566	-2.40955428	
MYOM1	-0.30897816	0.11507566	-2.40933416	
MFSD6	0.30891430	0.11517404	2.40878368	
COL6A2	-0.30885074	0.11517454	-2.40823576	yes

WFDC9	-0.30884666	0.11517454	-2.40820065	
GNL2	0.30884369	0.11517454	2.40817498	
CALD1	-0.30888307	0.11517454	-2.40851446	
MED26	-0.30888480	0.11517454	-2.40852935	
NAV3	-0.30882492	0.11518605	-2.40801323	
APOC4	-0.30878816	0.11520722	-2.40769637	
TMEM127	0.30879299	0.11520722	2.40773806	
C17orf64	-0.30877244	0.11521128	-2.40756090	
SLFN5	0.30860357	0.11549678	2.40610558	
AFF2	-0.30861519	0.11549678	-2.40620566	
SULT6B1	-0.30859996	0.11549678	-2.40607446	
DAP3	0.30861453	0.11549678	2.40620001	yes
GLI4	-0.30852733	0.11557362	-2.40544859	
IRX1	-0.30854237	0.11557362	-2.40557820	
HHLPL1	-0.30852657	0.11557362	-2.40544205	
TMEM30B	0.30848627	0.11562013	2.40509477	
CLUL1	-0.30847959	0.11562013	-2.40503719	
HAPLN2	-0.30844526	0.11567005	-2.40474143	
ACE	-0.30842755	0.11567910	-2.40458885	
C6orf192	0.30841022	0.11568722	2.40443957	
RHBDL3	-0.30834448	0.11578002	-2.40387311	
C5orf50	-0.30834549	0.11578002	-2.40388189	
HHLA3	-0.30832377	0.11579649	-2.40369471	
SPINK5L2	-0.30825716	0.11590447	-2.40312092	
CITED1	-0.30825190	0.11590447	-2.40307561	
SNORA21	-0.30823394	0.11591422	-2.40292085	
LOC284837	-0.30820989	0.11592341	-2.40271367	
CD248	-0.30820219	0.11592341	-2.40264743	
OR14K1	-0.30817291	0.11596109	-2.40239515	
GNAT1	-0.30815219	0.11597765	-2.40221670	
C6orf146	-0.30811808	0.11602724	-2.40192288	
EPYC	-0.30807889	0.11606920	-2.40158532	
GLTP	0.30807308	0.11606920	2.40153533	

C10orf140	-0.30801909	0.11616791	-2.40107030	
GCNT1	0.30800400	0.11617064	2.40094032	
FAM181B	-0.30794450	0.11628299	-2.40042799	
OR10A3	-0.30786938	0.11629600	-2.39978109	
ERGIC1	0.30788250	0.11629600	2.39989409	
ATG3	0.30789767	0.11629600	2.40002468	
SNORD113-3	-0.30787842	0.11629600	-2.39985891	
CSRNP3	-0.30792207	0.11629600	-2.40023483	
NPR2	-0.30780858	0.11641170	-2.39925758	
CHRNA4	-0.30774089	0.11644361	-2.39867473	
SHD	-0.30774773	0.11644361	-2.39873362	
SGK1	0.30772591	0.11644361	2.39854573	
ATG10	0.30773404	0.11644361	2.39861575	
ENTPD5	0.30772674	0.11644361	2.39855287	
TNFRSF10C	-0.30768890	0.11650061	-2.39822714	
PNMA2	-0.30766873	0.11651602	-2.39805348	
SPOCD1	-0.30764236	0.11654677	-2.39782643	
BHMT2	-0.30757345	0.11665153	-2.39723321	
NPPC	-0.30757214	0.11665153	-2.39722196	
PKN3	-0.30755437	0.11666105	-2.39706893	yes
ERP29	-0.30748032	0.11674093	-2.39643159	
OR52W1	-0.30748842	0.11674093	-2.39650126	
HOXC5	-0.30748224	0.11674093	-2.39644809	
EIF3F	0.30743213	0.11682583	2.39601673	
HORMAD2	-0.30741816	0.11682596	-2.39589650	
LOC440311	-0.30739145	0.11685767	-2.39566661	
FAM168A	-0.30735309	0.11688378	-2.39533652	
PDHA2	-0.30735803	0.11688378	-2.39537900	
CA9	-0.30732111	0.11689416	-2.39506123	
C14orf43	-0.30733078	0.11689416	-2.39514451	
OR12D2	-0.30728398	0.11695172	-2.39474175	
UBE2U	-0.30723857	0.11699937	-2.39435092	
FOXA2	-0.30721085	0.11699937	-2.39411237	

TDP1	0.30720921	0.11699937	2.39409827	yes
ADAM17	0.30722619	0.11699937	2.39424435	
MAP2	-0.30719008	0.11701239	-2.39393364	
C1QL2	-0.30717203	0.11702272	-2.39377838	
ASXL3	-0.30713240	0.11708660	-2.39343737	
LRRN2	-0.30711403	0.11709776	-2.39327928	
SNORD115-3	-0.30705564	0.11712455	-2.39277685	
C3orf30	-0.30706043	0.11712455	-2.39281812	
HES7	-0.30708776	0.11712455	-2.39305324	
CPA5	-0.30704778	0.11712455	-2.39270928	
IAH1	0.30703189	0.11712961	2.39257253	
ING4	-0.30697088	0.11724663	-2.39204761	
OPRK1	-0.30693365	0.11730467	-2.39172735	yes
FOXL1	-0.30689687	0.11736163	-2.39141096	
TIAM1	0.30686619	0.11740346	2.39114703	
KRT84	-0.30683374	0.11744970	-2.39086793	
BLID	-0.30681033	0.11747350	-2.39066650	
CDK4	0.30676619	0.11754885	2.39028683	
LYAR	0.30668625	0.11767891	2.38959930	
TMPRSS5	-0.30669832	0.11767891	-2.38970311	
FLJ11235	-0.30659924	0.11786119	-2.38885096	
LOC100129455	-0.30655573	0.11793519	-2.38847678	
NUP88	0.30652560	0.11794136	2.38821772	
SEH1L	0.30652716	0.11794136	2.38823111	
TNFAIP1	0.30646126	0.11801111	2.38766449	
FBXL10	0.30646981	0.11801111	2.38773795	
SOCS6	0.30645618	0.11801111	2.38762077	
SEZ6	-0.30641858	0.11807045	-2.38729750	
MOCS3	0.30637650	0.11814102	2.38693567	yes
LOC338797	-0.30632693	0.11823032	-2.38650949	
HHIPL2	-0.30625069	0.11838636	-2.38585408	
UQCRC2	0.30622063	0.11842701	2.38559567	
IL17RB	-0.30616874	0.11852233	-2.38514953	

LOC100133366	-0.30607327	0.11872688	-2.38432891
FEV	-0.30603957	0.11877676	-2.38403928
C17orf45	0.30599570	0.11885216	2.38366227
PPP1R14D	-0.30598123	0.11885387	-2.38353786
CCDC36	-0.30583912	0.11910676	-2.38231660
ATPGD1	-0.30586538	0.11910676	-2.38254228
XRCC6BP1	0.30584625	0.11910676	2.38237786
NBPF7	-0.30576854	0.11924953	-2.38171012
PRM3	-0.30568257	0.11943118	-2.38097147
THOC7	0.30561857	0.11955769	2.38042156
NOTUM	-0.30558670	0.11959259	-2.38014777
DHPS	0.30556502	0.11959259	2.37996155
FAM71E2	-0.30556338	0.11959259	-2.37994743
FAM108A1	-0.30554909	0.11959388	-2.37982470
PRKD1	-0.30552044	0.11963139	-2.37957856
USH1G	-0.30550303	0.11964058	-2.37942897
ZNF805	0.30548751	0.11964500	2.37929563
HIST1H2AE	0.30546626	0.11966387	2.37911314
CCDC68	-0.30544102	0.11969282	-2.37889632
MS4A6E	-0.30539323	0.11977867	-2.37848582
KLHL38	-0.30537872	0.11978058	-2.37836118
ZNF385B	-0.30536104	0.11979049	-2.37820933
TUBGCP3	0.30531568	0.11987025	2.37781970
TALDO1	0.30530194	0.11987025	2.37770175
SNX12	0.30528695	0.11987342	2.37757295
HMGCS1	0.30526668	0.11988989	2.37739891
SALL2	-0.30524037	0.11992163	-2.37717296
APOBEC2	-0.30518998	0.12001421	-2.37674025
LOC100131506	-0.30516221	0.12004970	-2.37650170
NNT	0.30514650	0.12005470	2.37636683
LOC55908	-0.30512956	0.12006282	-2.37622138
PTGES3	0.30505462	0.12014991	2.37557789
TCL6	-0.30505411	0.12014991	-2.37557347

C2orf29	0.30505395	0.12014991	2.37557210	
CERCAM	-0.30502806	0.12015707	-2.37534986	
KAZALD1	-0.30502369	0.12015707	-2.37531230	
LOC440093	0.30495559	0.12029463	2.37472764	
CXorf25	-0.30493073	0.12031194	-2.37451414	
NADSYN1	0.30492134	0.12031194	2.37443359	
OR8D1	-0.30490159	0.12032726	-2.37426400	
CEBPG	0.30485668	0.12040012	2.37387843	
TMEM31	-0.30484542	0.12040012	-2.37378175	
NUP210L	-0.30474677	0.12061537	-2.37293493	yes
TMCO2	-0.30466917	0.12069125	-2.37226891	
E2F4	0.30465364	0.12069125	2.37213560	
GLA	0.30464858	0.12069125	2.37209211	
PKM2	0.30465272	0.12069125	2.37212767	
CARD9	-0.30464842	0.12069125	-2.37209074	
GCHFR	-0.30456578	0.12072419	-2.37138155	
HOXD11	-0.30460249	0.12072419	-2.37169661	
KRTAP11-1	-0.30454831	0.12072419	-2.37123159	
SMO	-0.30456186	0.12072419	-2.37134790	
BAIAP2L2	-0.30453976	0.12072419	-2.37115823	
HOPX	-0.30458265	0.12072419	-2.37152633	
ADAMTSL1	-0.30458622	0.12072419	-2.37155694	yes
BHLHE40	0.30450502	0.12077767	2.37086012	
AMIGO3	-0.30444816	0.12085882	-2.37037214	
P2RY2	0.30444575	0.12085882	2.37035142	
SARDH	-0.30441063	0.12087868	-2.37005011	
AADACL1	0.30442371	0.12087868	2.37016234	
TARDBP	0.30434452	0.12097728	2.36948281	
hCG_1659830	-0.30434760	0.12097728	-2.36950925	
MAPT	-0.30430117	0.12105276	-2.36911090	
ADARB1	-0.30428752	0.12105281	-2.36899378	
GPR1	-0.30425879	0.12105572	-2.36874730	
FLJ44881	-0.30424549	0.12105572	-2.36863320	

SLC25A37	-0.30426584	0.12105572	-2.36880775	
AIG1	0.30418673	0.12113584	2.36812905	yes
FNDC4	-0.30419374	0.12113584	-2.36818917	
THOC4	0.30416486	0.12114418	2.36794141	
DAB1	-0.30415622	0.12114418	-2.36786736	
RRP1B	0.30411356	0.12118347	2.36750132	
NDUFS1	0.30411471	0.12118347	2.36751126	
MTPN	0.30407491	0.12122918	2.36716981	
GTF2A1	0.30405478	0.12122918	2.36699713	
HAL	-0.30405579	0.12122918	-2.36700577	
LMCD1	-0.30403503	0.12124483	-2.36682775	yes
FNDC5	-0.30401090	0.12127163	-2.36662076	
OBFC1	0.30399215	0.12128477	2.36645991	
SORL1	0.30397208	0.12128537	2.36628775	
CPNE6	-0.30396475	0.12128537	-2.36622489	
LCN10	-0.30392190	0.12135983	-2.36585739	yes
FLJ45831	-0.30383234	0.12155327	-2.36508935	
KIAA1024L	-0.30375977	0.12157617	-2.36446696	
CNOT6	0.30375551	0.12157617	2.36443043	yes
CLEC3B	-0.30377688	0.12157617	-2.36461370	yes
EIF1AD	0.30379197	0.12157617	2.36474309	
CADPS	-0.30379035	0.12157617	-2.36472925	
FAM47A	-0.30371529	0.12164410	-2.36408555	
CNGA2	-0.30365516	0.12164903	-2.36356996	
GDF7	-0.30369161	0.12164903	-2.36388254	
LDOC1	-0.30364395	0.12164903	-2.36347385	
TSPAN16	-0.30361910	0.12164903	-2.36326076	
C17orf82	-0.30361852	0.12164903	-2.36325580	
NRAP	-0.30362754	0.12164903	-2.36333312	
YIPF1	0.30368150	0.12164903	2.36379585	
C17orf88	-0.30359267	0.12168042	-2.36303415	
DLX5	-0.30356375	0.12168515	-2.36278620	
SNHG3-RCC1	0.30357571	0.12168515	2.36288878	

LOC100131507	-0.30353503	0.12172386	-2.36254003	
C19orf36	-0.30351934	0.12172938	-2.36240552	
KCNB1	-0.30349299	0.12176208	-2.36217961	
TSPAN5	0.30338838	0.12185842	2.36128281	
LOXHD1	-0.30336829	0.12185842	-2.36111063	
TIGD2	0.30338236	0.12185842	2.36123119	
SLC25A4	0.30339669	0.12185842	2.36135405	
LOC401433	-0.30333366	0.12185842	-2.36081379	
C21orf63	0.30336807	0.12185842	2.36110870	
KCNK15	-0.30334620	0.12185842	-2.36092123	
JTV1	0.30335309	0.12185842	2.36098031	
MCEE	0.30342598	0.12185842	2.36160510	
PLS1	0.30329323	0.12192714	2.36046721	
CUL2	0.30326879	0.12195507	2.36025776	
RPL30P8	-0.30322796	0.12195988	-2.35990778	
C20orf106	-0.30324221	0.12195988	-2.36002995	
LGALS14	-0.30322646	0.12195988	-2.35989494	
ARPC1A	0.30319408	0.12199068	2.35961747	
OR3A4	-0.30317397	0.12199068	-2.35944509	
GRAMD1A	-0.30318252	0.12199068	-2.35951836	
UBTD1	-0.30314383	0.12203322	-2.35918680	
RPL32P3	0.30312843	0.12203817	2.35905481	
C16orf78	-0.30308405	0.12204467	-2.35867452	
OR1C1	-0.30307206	0.12204467	-2.35857172	
KCTD8	-0.30310074	0.12204467	-2.35881749	
SMPD2	0.30307507	0.12204467	2.35859756	
MARCH5	0.30304666	0.12207517	2.35835406	
UGDH	0.30301244	0.12212819	2.35806086	
USP10	0.30298206	0.12217142	2.35780057	yes
ANO4	-0.30291196	0.12224752	-2.35719988	
OR14C36	-0.30293704	0.12224752	-2.35741481	
C21orf67	-0.30291305	0.12224752	-2.35720927	
WFIKKN2	-0.30273006	0.12247670	-2.35564150	

ABRA	-0.30279954	0.12247670	-2.35623677	
C4orf34	0.30275172	0.12247670	2.35582711	
TEPP	-0.30277962	0.12247670	-2.35606609	
CAMK1D	0.30274680	0.12247670	2.35578491	
SCN4B	-0.30272833	0.12247670	-2.35562670	
CCDC102B	-0.30277852	0.12247670	-2.35605670	
GCNT7	-0.30268273	0.12255372	-2.35523606	
GSTM5	-0.30265799	0.12255372	-2.35502419	
HSPB1	0.30266560	0.12255372	2.35508934	
SYT14	-0.30260485	0.12262110	-2.35456903	
OR10G2	-0.30261154	0.12262110	-2.35462627	
FAM82B	0.30256584	0.12268569	2.35423490	
MRPS10	0.30255283	0.12268569	2.35412344	yes
STIP1	0.30253892	0.12268701	2.35400430	
EPO	-0.30251290	0.12271934	-2.35378147	
PANK2	0.30246802	0.12276571	2.35339713	
ARTN	-0.30247958	0.12276571	-2.35349606	
OR51F1	-0.30244193	0.12279826	-2.35317367	
KCNK18	-0.30241581	0.12283091	-2.35294996	
NCRNA00085	-0.30234825	0.12293552	-2.35237142	
FABP7	-0.30234873	0.12293552	-2.35237550	
SAMD12	0.30233130	0.12294469	2.35222627	
WDR82	0.30231576	0.12295024	2.35209324	
MRPS9	0.30228554	0.12299348	2.35183441	
FLJ40606	-0.30225878	0.12302782	-2.35160532	
SNORD46	-0.30223232	0.12306142	-2.35137880	
GRIK5	-0.30220879	0.12308752	-2.35117730	
ERBB4	-0.30212191	0.12308954	-2.35043347	
TES	0.30211167	0.12308954	2.35034576	
C14orf19	0.30211711	0.12308954	2.35039239	
ANXA2P3	-0.30212483	0.12308954	-2.35045845	
FAM127C	-0.30208790	0.12308954	-2.35014227	
MYO5B	0.30218136	0.12308954	2.35094245	

DHX32	0.30217767	0.12308954	2.35091087	yes
OR4A16	-0.30209498	0.12308954	-2.35020294	
ZNRF3	-0.30214362	0.12308954	-2.35061934	
SLC25A18	-0.30204758	0.12315878	-2.34979715	
CDH22	-0.30202056	0.12315973	-2.34956582	
DCTN5	0.30203037	0.12315973	2.34964982	
AK3	0.30200208	0.12317295	2.34940767	
CHAT	-0.30198495	0.12318275	-2.34926100	
SPTY2D1	0.30193664	0.12327258	2.34884749	
VT11B	0.30183546	0.12349839	2.34798145	
C1QTNF3	-0.30179538	0.12353299	-2.34763843	
ACAD9	0.30179939	0.12353299	2.34767277	
CDSN	-0.30174812	0.12356001	-2.34723396	
PSMD7	0.30173429	0.12356001	2.34711561	
ZIC3	-0.30173222	0.12356001	-2.34709787	
DDI2	0.30173166	0.12356001	2.34709308	
LOC440786	-0.30170932	0.12358328	-2.34690188	
PGM2	0.30165278	0.12369455	2.34641812	
C5orf43	0.30158051	0.12384647	2.34579966	
FAM159B	-0.30150332	0.12389232	-2.34513919	
ASB12	-0.30149183	0.12389232	-2.34504092	
C9orf163	-0.30148300	0.12389232	-2.34496541	
DKC1	0.30149397	0.12389232	2.34505919	
GRK4	-0.30154115	0.12389232	-2.34546286	
IRX4	-0.30153291	0.12389232	-2.34539241	
ACVRL1	-0.30145606	0.12392756	-2.34473487	yes
PTPLAD1	0.30142269	0.12397937	2.34444938	
IL22RA2	-0.30139035	0.12402854	-2.34417271	
UPRT	0.30137092	0.12402867	2.34400646	
ST3GAL5	-0.30136377	0.12402867	-2.34394533	
ARPC5	0.30133564	0.12403283	2.34370465	
RP11-191L9.1	-0.30134522	0.12403283	-2.34378664	
GAB2	-0.30131762	0.12404511	-2.34355051	

ZNF234	0.30128625	0.12409185	2.34328216	
CAGE1	-0.30127148	0.12409575	-2.34315586	
EXOC3L2	-0.30125241	0.12411077	-2.34299274	
C1orf128	0.30119941	0.12421337	2.34253938	
FTHL11	0.30115303	0.12426474	2.34214269	
LOC645805	0.30116181	0.12426474	2.34221780	
C17orf102	-0.30109164	0.12432073	-2.34161766	
RCC2	0.30111204	0.12432073	2.34179207	
TCP1	0.30110073	0.12432073	2.34169538	
ZCCHC14	0.30096221	0.12448993	2.34051080	
KIF13B	0.30097227	0.12448993	2.34059684	
TFDP3	-0.30100732	0.12448993	-2.34089652	
GFM2	0.30099086	0.12448993	2.34075576	yes
RTCD1	0.30096004	0.12448993	2.34049223	yes
NXPH3	-0.30092341	0.12455046	-2.34017901	
LOC100128003	-0.30078344	0.12460829	-2.33898220	
POLR3C	0.30085858	0.12460829	2.33962460	yes
C7orf66	-0.30079668	0.12460829	-2.33909541	
C8orf42	-0.30081845	0.12460829	-2.33928156	
CYP8B1	-0.30084060	0.12460829	-2.33947089	
C12orf61	-0.30076833	0.12460829	-2.33885296	
GPR85	-0.30075585	0.12460829	-2.33874631	
C16orf61	0.30078306	0.12460829	2.33897894	
TRPM8	-0.30086866	0.12460829	-2.33971079	
HIST1H4F	0.30077461	0.12460829	2.33890670	
HIST1H2BK	0.30083832	0.12460829	2.33945137	
UGT3A1	-0.30065773	0.12482811	-2.33790742	
RP11-90M2.3	-0.30059486	0.12495681	-2.33737005	
CDH7	-0.30052839	0.12509501	-2.33680180	
FAM101A	-0.30047613	0.12516920	-2.33635514	
ZNF574	0.30047343	0.12516920	2.33633208	
YIF1A	0.30043904	0.12519497	2.33603810	
C1orf161	-0.30040697	0.12519497	-2.33576406	

VENTX	-0.30040202	0.12519497	-2.33572172	
ANXA7	0.30043384	0.12519497	2.33599367	
LGI2	-0.30039765	0.12519497	-2.33568440	
LOC729862	-0.30034897	0.12528716	-2.33526839	
GRAP	-0.30030019	0.12534950	-2.33485149	
COL2A1	-0.30029073	0.12534950	-2.33477061	
AMHR2	-0.30028339	0.12534950	-2.33470792	
MRPL39	0.30027235	0.12534950	2.33461355	yes
ZNF746	-0.30025913	0.12534968	-2.33450060	
MARCH4	-0.30021898	0.12541982	-2.33415754	
OR6B3	-0.30019214	0.12543119	-2.33392817	
GTF2H5	0.30018832	0.12543119	2.33389556	
ZNF268	0.30013226	0.12547446	2.33341656	
PYDC2	-0.30013629	0.12547446	-2.33345094	
DENND2A	-0.30014519	0.12547446	-2.33352704	
CHRNA4	-0.30010081	0.12552208	-2.33314783	
EPHA5	-0.30002781	0.12567779	-2.33252415	
TMEM178	-0.29997422	0.12572694	-2.33206627	
PLXNB2	0.29996710	0.12572694	2.33200546	
HOXD3	-0.29999103	0.12572694	-2.33220989	
LOC100133423	-0.29995152	0.12572694	-2.33187236	
ANGPTL1	-0.29994332	0.12572694	-2.33180229	
DHCR24	0.29991384	0.12576954	2.33155045	
FAM49B	0.29988553	0.12580911	2.33130862	
IFNA7	-0.29986949	0.12581673	-2.33117163	
UBE2E3	-0.29978822	0.12583704	-2.33047743	
LOC146429	-0.29981858	0.12583704	-2.33073672	
PRR15	0.29982623	0.12583704	2.33080212	
GJB5	0.29978310	0.12583704	2.33043373	
ALKBH4	-0.29981141	0.12583704	-2.33067555	
C20orf24	0.29979437	0.12583704	2.33052998	
KIRREL3	-0.29974997	0.12588923	-2.33015076	
MMP19	-0.29971358	0.12594994	-2.32983990	

LILRB3	-0.29962340	0.12615089	-2.32906977	
C17orf49	0.29956458	0.12623610	2.32856744	
C3orf45	-0.29956804	0.12623610	-2.32859702	
GOLT1A	-0.29952819	0.12626140	-2.32825672	
KRTAP5-2	-0.29953119	0.12626140	-2.32828229	
PIGH	0.29951565	0.12626140	2.32814965	
C3orf20	-0.29949469	0.12628200	-2.32797064	
SEC16B	-0.29946820	0.12631702	-2.32774449	
C6orf57	0.29944971	0.12632197	2.32758655	
MAGI2	-0.29944018	0.12632197	-2.32750522	
C9orf70	-0.29941811	0.12634550	-2.32731675	
OTOA	-0.29937352	0.12642782	-2.32693609	
KPNA2	0.29936047	0.12642782	2.32682465	
OR5AS1	-0.29934174	0.12644081	-2.32666474	
MCM3	0.29929421	0.12644081	2.32625898	
MYO1B	0.29929027	0.12644081	2.32622526	
RAC3	-0.29929157	0.12644081	-2.32623641	
SCN10A	-0.29929827	0.12644081	-2.32629363	
CTRC	-0.29906472	0.12656385	-2.32429994	
CLCA4	0.29904849	0.12656385	2.32416146	
EXPH5	0.29908774	0.12656385	2.32449641	yes
TPSD1	-0.29905766	0.12656385	-2.32423969	
NUP188	0.29912425	0.12656385	2.32480803	
KCNS2	-0.29905645	0.12656385	-2.32422939	
TBPL2	-0.29906945	0.12656385	-2.32434037	
FADS3	-0.29903489	0.12656385	-2.32404536	yes
MCF2	-0.29919592	0.12656385	-2.32541988	
MRTO4	0.29907549	0.12656385	2.32439192	
P4HTM	0.29906257	0.12656385	2.32428163	
SRP68	0.29905033	0.12656385	2.32417711	
TAF7	0.29916928	0.12656385	2.32519245	
C4orf29	0.29913142	0.12656385	2.32486930	
KIRREL2	-0.29906813	0.12656385	-2.32432906	

CD97	0.29903511	0.12656385	2.32404719	
TXNDC9	0.29897090	0.12657151	2.32349919	
TTC9B	-0.29897936	0.12657151	-2.32357142	
FXYD7	-0.29896702	0.12657151	-2.32346611	
PRL	-0.29898227	0.12657151	-2.32359623	
SYDE1	-0.29901664	0.12657151	-2.32388962	yes
S100A3	0.29893647	0.12661742	2.32320536	
DSCR9	-0.29891944	0.12662236	-2.32306001	
LOC401097	-0.29890863	0.12662236	-2.32296777	yes
TMPRSS9	-0.29887872	0.12666661	-2.32271254	
MADCAM1	-0.29881963	0.12678717	-2.32220826	
POMP	0.29879792	0.12681002	2.32202304	
ANKRD2	-0.29865569	0.12704911	-2.32080951	
HOXC11	-0.29864175	0.12704911	-2.32069056	
FAM166A	-0.29867179	0.12704911	-2.32094684	
TYMS	0.29865334	0.12704911	2.32078939	
USF1	0.29866440	0.12704911	2.32088375	
SLC37A4	0.29860939	0.12707871	2.32041447	
RAB13	-0.29860455	0.12707871	-2.32037313	
ABCE1	0.29855915	0.12716372	2.31998584	
FAM46D	-0.29854510	0.12716661	-2.31986597	
TEX28	-0.29852541	0.12718428	-2.31969803	
FLRT1	-0.29844305	0.12733234	-2.31899549	
GNAS	-0.29845184	0.12733234	-2.31907041	
ACAD10	0.29842314	0.12735064	2.31882560	
HARS2	0.29836156	0.12747829	2.31830033	
KRTAP12-4	-0.29830102	0.12753536	-2.31778404	
FLJ45983	-0.29832617	0.12753536	-2.31799854	
SYT7	-0.29830217	0.12753536	-2.31779384	
MGP	-0.29827584	0.12756755	-2.31756926	
STRA8	-0.29819546	0.12771083	-2.31688374	
GFRAL	-0.29820397	0.12771083	-2.31695631	
TGM4	-0.29814811	0.12780136	-2.31647992	

IFNAR1	0.29809054	0.12789143	2.31598901	
HES4	-0.29807512	0.12789143	-2.31585751	
SNORD113-4	-0.29808117	0.12789143	-2.31590911	
RFX4	-0.29804145	0.12794606	-2.31557041	
CCL7	-0.29801829	0.12797302	-2.31537300	
PPP4C	0.29800061	0.12798560	2.31522221	
VANGL1	0.29798660	0.12798850	2.31510278	
KRTAP19-6	-0.29794228	0.12799334	-2.31472489	
OR6C4	-0.29793317	0.12799334	-2.31464723	
DIABLO	0.29794124	0.12799334	2.31471603	
COG7	0.29796469	0.12799334	2.31491599	
ZCCHC24	-0.29784751	0.12815103	-2.31391695	
C20orf4	0.29785814	0.12815103	2.31400752	
PKD1L1	-0.29773690	0.12830755	-2.31297399	
ATOH1	-0.29776980	0.12830755	-2.31325449	
SULT1C2	-0.29773659	0.12830755	-2.31297138	
DPY30	0.29774826	0.12830755	2.31307086	yes
FRAP1	0.29772019	0.12831683	2.31283160	
GLRB	-0.29769094	0.12832606	-2.31258230	
ILK	-0.29769123	0.12832606	-2.31258474	
CNIH3	-0.29764592	0.12833473	-2.31219852	
BHLHA15	-0.29763802	0.12833473	-2.31213122	
LMO7	0.29763619	0.12833473	2.31211563	
NEFL	-0.29764428	0.12833473	-2.31218451	
MARCH11	-0.29762126	0.12834020	-2.31198838	
RPL30	0.29758754	0.12839523	2.31170094	
TBX4	-0.29756900	0.12841022	-2.31154293	
RAD23A	0.29752138	0.12847507	2.31113712	
SAMD1	-0.29751872	0.12847507	-2.31111440	
IFNA16	-0.29749244	0.12847663	-2.31089043	
ITGB8	0.29749724	0.12847663	2.31093135	
OSBPL2	0.29747372	0.12849214	2.31073090	
TUBGCP2	0.29738405	0.12854658	2.30996681	

NOXO1	-0.29737859	0.12854658	-2.30992030
CASP14	-0.29740942	0.12854658	-2.31018298
PCSK9	-0.29739393	0.12854658	-2.31005095
TERF2IP	0.29736833	0.12854658	2.30983284
OR10W1	-0.29736327	0.12854658	-2.30978976
CAPN1	0.29739629	0.12854658	2.31007109
CYC1	0.29730168	0.12867533	2.30926492
ARAP2	0.29724908	0.12877924	2.30881672
MRPL51	0.29723671	0.12877924	2.30871133
LOC100133395	-0.29719772	0.12879257	-2.30837919
ICAM5	-0.29719717	0.12879257	-2.30837454
GPR177	0.29719323	0.12879257	2.30834090
SMPDL3B	-0.29716942	0.12882164	-2.30813809
MDN1	0.29709546	0.12894948	2.30750798
SLC22A8	-0.29710330	0.12894948	-2.30757478
CNKSR3	0.29706508	0.12899598	2.30724917
HOXD10	-0.29702024	0.12904688	-2.30686725
APEH	0.29702827	0.12904688	2.30693562
OR1L4	-0.29698993	0.12909228	-2.30660905
STX3	0.29697750	0.12909228	2.30650322
C1orf212	0.29693024	0.12917769	2.30610066
GLT6D1	-0.29691966	0.12917769	-2.30601056
SNORD15B	-0.29682486	0.12926219	-2.30520316
OR10AG1	-0.29682386	0.12926219	-2.30519462
OR51Q1	-0.29684238	0.12926219	-2.30535235
PCYT1A	0.29682601	0.12926219	2.30521292
ATXN7	0.29682833	0.12926219	2.30523267
PRG4	-0.29679399	0.12927367	-2.30494020
MRPL13	0.29680370	0.12927367	2.30502293
HFE2	-0.29674427	0.12935535	-2.30451680
OR1A1	-0.29673763	0.12935535	-2.30446024
CPNE2	0.29669696	0.12936229	2.30411390
FAM32A	0.29669673	0.12936229	2.30411200

BTD	0.29670662	0.12936229	2.30419618	
SNORD116-26	-0.29660405	0.12957422	-2.30332277	
COPG2	0.29657442	0.12961899	2.30307051	
H1FOO	-0.29653489	0.12962240	-2.30273393	
IGSF9B	-0.29655876	0.12962240	-2.30293715	
GEMIN4	0.29654160	0.12962240	2.30279106	
C13orf35	-0.29652026	0.12962742	-2.30260935	
FGF19	-0.29648232	0.12969430	-2.30228634	
HBXIP	0.29637005	0.12972200	2.30133058	
DNPEP	0.29641354	0.12972200	2.30170079	
TGM6	-0.29639164	0.12972200	-2.30151432	
LTA4H	0.29638254	0.12972200	2.30143692	
CAPRIN1	0.29637696	0.12972200	2.30138939	
RBP4	-0.29642589	0.12972200	-2.30180593	
UXT	0.29644194	0.12972200	2.30194254	
KISS1R	-0.29642898	0.12972200	-2.30183226	
FLT3LG	-0.29630959	0.12974750	-2.30081594	
IL29	-0.29632296	0.12974750	-2.30092972	
CYTL1	-0.29631237	0.12974750	-2.30083952	
PSKH2	-0.29631943	0.12974750	-2.30089962	
STMN2	-0.29628112	0.12978937	-2.30057352	
C6orf126	-0.29619038	0.12999666	-2.29980121	
GCLC	0.29617567	0.13000200	2.29967597	yes
RPS2P5	0.29613863	0.13005343	2.29936075	
SLC26A3	-0.29613092	0.13005343	-2.29929516	yes
ADAMTS7	-0.29608484	0.13007471	-2.29890294	
OR10C1	-0.29609336	0.13007471	-2.29897552	
PIWIL1	-0.29609970	0.13007471	-2.29902947	
NCRNA00114	-0.29603690	0.13015991	-2.29849495	
PDE6G	-0.29602743	0.13015991	-2.29841437	
AAMP	0.29600063	0.13019745	2.29818633	
HERC5	-0.29595788	0.13024371	-2.29782259	
MKI67IP	0.29595894	0.13024371	2.29783159	

PADI4	-0.29590022	0.13032971	-2.29733194
BMX	-0.29590920	0.13032971	-2.29740831
FAM135A	0.29587856	0.13035365	2.29714761
BLCAP	0.29586346	0.13035921	2.29701910
PSMG2	0.29585056	0.13035921	2.29690938
RPL24	0.29583847	0.13035921	2.29680648
ZC3HAV1L	-0.29581428	0.13038989	-2.29660071
RAD23B	0.29579946	0.13039566	2.29647459
F3	0.29578266	0.13039608	2.29633167
FLJ46321	-0.29573604	0.13039608	-2.29593502
OR8K1	-0.29574003	0.13039608	-2.29596897
PEX5L	-0.29574073	0.13039608	-2.29597497
DNM1P34	-0.29576366	0.13039608	-2.29616999
HHAT	0.29567321	0.13052973	2.29540057
LOC100130130	-0.29554523	0.13060772	-2.29431191
CLCN4	-0.29560948	0.13060772	-2.29485841
APOD	-0.29556418	0.13060772	-2.29447303
FEZF1	-0.29557751	0.13060772	-2.29458642
WIT1	-0.29554288	0.13060772	-2.29429185
TULP4	0.29556634	0.13060772	2.29449143
SILV	-0.29561261	0.13060772	-2.29488504
ARHGAP28	-0.29558237	0.13060772	-2.29462776
CAP1	0.29550083	0.13068616	2.29393420
DNM1L	0.29542596	0.13075090	2.29329746
CLDN14	-0.29543616	0.13075090	-2.29338413
POLA2	0.29546012	0.13075090	2.29358793
HLA-C	0.29540255	0.13075090	2.29309831
SAR1P3	-0.29539783	0.13075090	-2.29305820
TRPV5	-0.29540915	0.13075090	-2.29315444
SP6	-0.29538826	0.13075090	-2.29297679
ABHD11	0.29534767	0.13082553	2.29263163
CPNE9	-0.29533414	0.13082803	-2.29251650
ZFP92	-0.29530928	0.13086074	-2.29230512

TRIM28	0.29528736	0.13088561	2.29211873	
BAIAP2	0.29519019	0.13092320	2.29129248	
DLX4	-0.29518517	0.13092320	-2.29124979	
HECW1	-0.29519662	0.13092320	-2.29134716	
RAN	0.29519525	0.13092320	2.29133549	
TOR3A	0.29522406	0.13092320	2.29158046	
POLR1E	0.29518641	0.13092320	2.29126026	
C15orf56	-0.29519436	0.13092320	-2.29132793	
HTR6	-0.29514451	0.13099816	-2.29090403	
EDN3	-0.29509344	0.13110097	-2.29046981	
GPD2	0.29506974	0.13113070	2.29026827	
TNC	0.29499246	0.13128497	2.28961134	
KCNA1	-0.29498006	0.13128497	-2.28950590	
KCTD16	-0.29497431	0.13128497	-2.28945704	
LOC441722	0.29492569	0.13138141	2.28904368	
PACSIN2	0.29486865	0.13150045	2.28855881	
PRO1768	-0.29478950	0.13167883	-2.28788606	
RASGRP1	0.29473073	0.13180273	2.28738654	
DAAM2	-0.29463911	0.13201284	-2.28660783	yes
C1orf62	-0.29462733	0.13201284	-2.28650774	
CLRN3	-0.29460003	0.13205243	-2.28627574	
ADORA1	-0.29451544	0.13221229	-2.28555689	
SLC22A18AS	-0.29451883	0.13221229	-2.28558568	
TMEM210	-0.29449542	0.13223237	-2.28538675	
KCNIP1	-0.29446655	0.13225165	-2.28514151	
S100A10	0.29446314	0.13225165	2.28511252	
MYH2	-0.29441397	0.13235017	-2.28469472	
VASH1	-0.29435850	0.13243195	-2.28422337	
ENTPD7	0.29436161	0.13243195	2.28424980	
FLJ43826	-0.29430685	0.13243557	-2.28378461	
SPRED3	-0.29428280	0.13243557	-2.28358027	
SIM1	-0.29431426	0.13243557	-2.28384753	
MIS12	0.29430745	0.13243557	2.28378967	yes

HTR3B	-0.29428194	0.13243557	-2.28357299
FHL5	-0.29433553	0.13243557	-2.28402824
SH2D4A	0.29426524	0.13244681	2.28343107
MARVELD1	-0.29423889	0.13248401	-2.28320728
SMG5	0.29421056	0.13252659	2.28296656
PTH	-0.29417410	0.13259107	-2.28265684
ARPC1B	0.29412725	0.13264984	2.28225886
IL17C	-0.29413339	0.13264984	-2.28231103
TM4SF4	-0.29411385	0.13265222	-2.28214507
SLC30A6	0.29406631	0.13268587	2.28174128
C5orf23	-0.29406384	0.13268587	-2.28172028
TRIM4	0.29406810	0.13268587	2.28175644
NEDD8	0.29403897	0.13271835	2.28150901
RGS7	-0.29402678	0.13271835	-2.28140554
TMEM165	0.29400452	0.13274467	2.28121643
LOC100133075	-0.29394887	0.13284371	-2.28074382
OR1N1	-0.29393030	0.13284371	-2.28058610
LOC391532	-0.29393118	0.13284371	-2.28059357
KNCN	-0.29388167	0.13292277	-2.28017309
SULT4A1	-0.29387601	0.13292277	-2.28012507
ZNF629	-0.29381516	0.13305330	-2.27960833
TAS2R39	-0.29377920	0.13311669	-2.27930295
GLUD1	0.29373084	0.13319500	2.27889235
FIGNL2	-0.29372494	0.13319500	-2.27884221
WDR46	0.29371277	0.13319500	2.27873890
GRB2	0.29368956	0.13322401	2.27854179
LOC100129476	-0.29366382	0.13323250	-2.27832325
C2orf43	0.29364900	0.13323250	2.27819745
TKT	0.29365354	0.13323250	2.27823601
DUSP21	-0.29363478	0.13323725	-2.27807670
MST075	-0.29358377	0.13329140	-2.27764368
GALNTL5	-0.29358554	0.13329140	-2.27765870
CLEC7A	-0.29357736	0.13329140	-2.27758919

METTL10	0.29351139	0.13336872	2.27702916	
TBX2	-0.29352765	0.13336872	-2.27716722	yes
ARHGAP10	-0.29351155	0.13336872	-2.27703049	
AHNAK2	0.29349867	0.13336944	2.27692122	
TIMD4	-0.29347119	0.13337644	-2.27668792	
ADAMTSL2	-0.29347172	0.13337644	-2.27669243	
STX1B	-0.29342137	0.13341024	-2.27626502	
UXS1	0.29344048	0.13341024	2.27642724	
CELSR1	0.29343128	0.13341024	2.27634908	
GPRC5A	0.29338952	0.13346275	2.27599463	
PAK7	-0.29336381	0.13349867	-2.27577638	
ANKRD30A	-0.29334610	0.13351293	-2.27562613	
CIB1	0.29328478	0.13364047	2.27510562	
MS4A13	-0.29326986	0.13364047	-2.27497903	
PSMA2	0.29326169	0.13364047	2.27490967	
TMCO4	0.29320682	0.13375543	2.27444394	
ATF1	0.29318916	0.13376962	2.27429407	
CCDC141	-0.29317441	0.13377593	-2.27416891	yes
STAT3	0.29313296	0.13385459	2.27381716	
AFG3L2	0.29299006	0.13390336	2.27260462	
PRIMA1	-0.29304834	0.13390336	-2.27309912	
ITGB1BP3	-0.29307585	0.13390336	-2.27333252	
GRIA3	-0.29297977	0.13390336	-2.27251727	
LOC440563	-0.29300588	0.13390336	-2.27273879	
TMEM184C	0.29297854	0.13390336	2.27250685	
SNORD74	0.29301786	0.13390336	2.27284047	
BRDT	-0.29298958	0.13390336	-2.27260051	
C9orf100	-0.29308893	0.13390336	-2.27344352	
NKD1	-0.29303285	0.13390336	-2.27296764	yes
EMILIN3	-0.29303713	0.13390336	-2.27300396	yes
ARPC5L	0.29296141	0.13391622	2.27236150	
SLC16A13	0.29292414	0.13398367	2.27204525	
KLHL14	-0.29289467	0.13403001	-2.27179521	

AGA	0.29287548	0.13404847	2.27163240
ADAM29	-0.29284438	0.13409924	-2.27136856
LOC284297	-0.29282667	0.13411369	-2.27121837
ACTR1A	0.29277568	0.13418594	2.27078580
C14orf180	-0.29277530	0.13418594	-2.27078253
EYS	-0.29272649	0.13427113	-2.27036848
DUOXA1	0.29271917	0.13427113	2.27030643
CPN1	-0.29267273	0.13436366	-2.26991250
FAM96A	0.29264482	0.13440591	2.26967569
SUCLG1	0.29262377	0.13442950	2.26949718
PTCHD1	-0.29256861	0.13444507	-2.26902935
KCNN1	-0.29259013	0.13444507	-2.26921182
ACRV1	-0.29257299	0.13444507	-2.26906650
DYNLT1	0.29260006	0.13444507	2.26929608
JDP2	-0.29253846	0.13447750	-2.26877363
OR52B2	-0.29253198	0.13447750	-2.26871864
ZNF454	-0.29250934	0.13449558	-2.26852662
OR4Q3	-0.29250064	0.13449558	-2.26845282
EIF4E1B	-0.29243550	0.13463911	-2.26790041
TREML4	-0.29241908	0.13465020	-2.26776120
TRIM25	0.29240408	0.13465745	2.26763394
GDI2	0.29238194	0.13468411	2.26744624
LRRC39	-0.29230361	0.13479198	-2.26678201
KRT28	-0.29231334	0.13479198	-2.26686449
HOXA11	-0.29229770	0.13479198	-2.26673188
OR52A5	-0.29228333	0.13479198	-2.26661006
TMEM62	0.29228065	0.13479198	2.26658732
KRTAP19-5	-0.29225839	0.13481903	-2.26639858
ABCB4	-0.29221684	0.13489861	-2.26604629
F11	-0.29219835	0.13491542	-2.26588949
CRYAA	-0.29216815	0.13496414	-2.26563342
PIGN	0.29209859	0.13512015	2.26504368
RNF145	0.29202299	0.13529278	2.26440282

RAB11A	0.29194658	0.13546781	2.26375510	yes
POPDC3	-0.29192632	0.13548952	-2.26358336	
GTF3A	0.29190366	0.13551780	2.26339129	
LIN37	-0.29186171	0.13559881	-2.26303576	
PGBD4	0.29182996	0.13564038	2.26276661	
PDIA2	-0.29180959	0.13564038	-2.26259398	
MST150	-0.29181136	0.13564038	-2.26260901	
GJD3	-0.29177275	0.13568643	-2.26228178	
NAPSA	-0.29176815	0.13568643	-2.26224278	yes
UQCRFSL1	0.29170418	0.13576052	2.26170067	
FLNB	0.29172362	0.13576052	2.26186544	
TRAPPC4	0.29171601	0.13576052	2.26180089	
CYP4F12	0.29165402	0.13586415	2.26127562	
ATP6AP2	0.29161887	0.13590419	2.26097769	
FAM167B	-0.29161482	0.13590419	-2.26094345	
ITGB3BP	0.29154246	0.13600146	2.26033026	
HTR3E	-0.29155516	0.13600146	-2.26043786	
MDM2	0.29154273	0.13600146	2.26033256	
CCDC110	-0.29145025	0.13611957	-2.25954900	
KLHL20	0.29147185	0.13611957	2.25973198	
GP9	-0.29148450	0.13611957	-2.25983918	
TMCC3	-0.29145694	0.13611957	-2.25960570	
C1orf115	-0.29138822	0.13622237	-2.25902346	
PDXK	0.29139771	0.13622237	2.25910389	
SLC19A1	-0.29133424	0.13630314	-2.25856617	
SNORA45	-0.29134205	0.13630314	-2.25863232	
CNGB1	-0.29125647	0.13643176	-2.25790734	
ZNF318	-0.29125479	0.13643176	-2.25789309	
NPHS1	-0.29123834	0.13643176	-2.25775375	
FLJ13224	-0.29123900	0.13643176	-2.25775940	
XKR7	-0.29114679	0.13664958	-2.25697833	
CSNK1A1L	-0.29109582	0.13665915	-2.25654658	
YIPF7	-0.29109430	0.13665915	-2.25653376	

MAZ	-0.29110238	0.13665915	-2.25660218	
LCMT2	0.29109723	0.13665915	2.25655856	
BAG1	0.29099188	0.13687349	2.25566635	
FEZ1	-0.29099835	0.13687349	-2.25572115	yes
PAPSS2	-0.29093470	0.13699721	-2.25518208	
OR8H1	-0.29089051	0.13707243	-2.25480787	
IPMK	0.29088290	0.13707243	2.25474349	yes
CLPS	-0.29085695	0.13707652	-2.25452368	
WNK2	-0.29086225	0.13707652	-2.25456860	
ASCL5	-0.29081207	0.13709908	-2.25414365	
ST6GALNAC5	-0.29083369	0.13709908	-2.25432678	
SH3BP5	-0.29081502	0.13709908	-2.25416870	
MAPK8IP2	-0.29073912	0.13722328	-2.25352603	
SLCO1C1	-0.29075424	0.13722328	-2.25365407	
PRKDC	0.29073032	0.13722328	2.25345154	
TBR1	-0.29068077	0.13732622	-2.25303203	
TTPAL	0.29063816	0.13741008	2.25267122	
ARX	-0.29062416	0.13741500	-2.25255271	
LOC100128830	-0.29060354	0.13743818	-2.25237817	
POU5F2	-0.29058927	0.13744385	-2.25225738	
OR6Q1	-0.29057338	0.13745401	-2.25212287	
SELV	-0.29055508	0.13747082	-2.25196796	
PGM5	-0.29054040	0.13747765	-2.25184369	
FOXP4	-0.29049049	0.13754413	-2.25142122	
ANGPT1	-0.29048702	0.13754413	-2.25139181	
LDLR	0.29047971	0.13754413	2.25132995	
C22orf24	-0.29040719	0.13757281	-2.25071614	
CRIPAK	0.29038984	0.13757281	2.25056927	
PRAMEF12	-0.29040287	0.13757281	-2.25067954	
NHLH1	-0.29039718	0.13757281	-2.25063142	
CPEB1	-0.29044763	0.13757281	-2.25105839	
ECHDC3	-0.29039412	0.13757281	-2.25060548	
GCM1	-0.29038399	0.13757281	-2.25051978	

SLC38A3	-0.29033824	0.13763189	-2.25013250	
PTPN13	0.29034910	0.13763189	2.25022445	
ERLIN2	0.29027856	0.13765491	2.24962748	
ANKS4B	-0.29026904	0.13765491	-2.24954692	
GPR78	-0.29031158	0.13765491	-2.24990691	
MSLNL	-0.29027815	0.13765491	-2.24962398	
KIAA1210	-0.29028682	0.13765491	-2.24969734	
RAPGEF3	-0.29020066	0.13781020	-2.24896823	yes
NCRNA00087	-0.29016432	0.13787703	-2.24866070	
OR51I2	-0.29013221	0.13789858	-2.24838894	
TNNI1	-0.29014388	0.13789858	-2.24848773	
LOC100133373	0.29001625	0.13800395	2.24740781	
COL10A1	-0.29005964	0.13800395	-2.24777493	
HNRNPA1L2	0.29000905	0.13800395	2.24734685	
F7	-0.29001453	0.13800395	-2.24739323	
GABRD	-0.29003229	0.13800395	-2.24754353	
ITGAM	-0.29001774	0.13800395	-2.24742036	
VDAC3	0.29001656	0.13800395	2.24741038	yes
MERTK	-0.28997957	0.13804810	-2.24709746	
TXNIP	0.28995667	0.13804810	2.24690368	
ZNF681	0.28996453	0.13804810	2.24697020	
CTSA	0.28990715	0.13815154	2.24648474	
NOC2L	0.28989480	0.13815213	2.24638027	
CRX	-0.28974466	0.13824537	-2.24511019	
CDRT15	-0.28973991	0.13824537	-2.24506998	
TMED4	0.28974400	0.13824537	2.24510465	
FLJ41327	-0.28976535	0.13824537	-2.24528522	
MRPL2	0.28982158	0.13824537	2.24576085	
RNFT1	0.28978340	0.13824537	2.24543791	
NGRN	0.28977481	0.13824537	2.24536523	
ELAC2	0.28978183	0.13824537	2.24542459	
RPS6KA1	0.28975982	0.13824537	2.24523845	
NOL6	0.28974835	0.13824537	2.24514142	

LOC100129940	-0.28969418	0.13833845	-2.24468322	
HDAC3	0.28965751	0.13837297	2.24437303	
OXNAD1	0.28966514	0.13837297	2.24443757	yes
KRT6A	0.28963168	0.13841098	2.24415462	
OPRD1	-0.28961463	0.13842471	-2.24401036	
DIS3	0.28957260	0.13850765	2.24365492	
GNAL	0.28950938	0.13864942	2.24312026	
FBRSL1	-0.28944470	0.13879537	-2.24257325	yes
GNPDA1	0.28941919	0.13879912	2.24235753	
SGCZ	-0.28938289	0.13879912	-2.24205059	
TMEFF2	-0.28939168	0.13879912	-2.24212492	
POTEA	-0.28940551	0.13879912	-2.24224193	
SUSD4	0.28941135	0.13879912	2.24229126	
GAFA2	-0.28936564	0.13881347	-2.24190472	
TTN	-0.28933672	0.13886021	-2.24166022	
PAX7	-0.28926957	0.13897962	-2.24109248	
ECHDC1	0.28927401	0.13897962	2.24113003	yes
PUF60	0.28920868	0.13911532	2.24057764	
RGAG4	-0.28915814	0.13922232	-2.24015034	
FRY	-0.28912426	0.13924938	-2.23986397	
OR10K1	-0.28913223	0.13924938	-2.23993136	
OR4D5	-0.28910832	0.13926016	-2.23972918	
PDSS1	0.28907144	0.13928067	2.23941748	
SCARNA6	-0.28905971	0.13928067	-2.23931831	
TMC7	0.28908253	0.13928067	2.23951118	
SLC5A6	0.28905269	0.13928067	2.23925891	
C10orf104	0.28900687	0.13937463	2.23887161	
SNORA5B	-0.28897579	0.13942759	-2.23860895	
ZPLD1	-0.28895352	0.13944387	-2.23842070	
KCND1	-0.28894583	0.13944387	-2.23835572	
GUCY2C	-0.28883648	0.13971508	-2.23743146	
C2orf16	-0.28880783	0.13976138	-2.23718932	
IFNE	0.28875823	0.13979890	2.23677019	

NDUFB5	0.28877574	0.13979890	2.23691818	
MPP4	-0.28876781	0.13979890	-2.23685111	
PPM2C	0.28872746	0.13985117	2.23651014	
XK	-0.28868462	0.13993715	-2.23614811	
RALA	0.28862975	0.14005678	2.23568448	
ICK	0.28859099	0.14006855	2.23535700	
hCG_1781062	0.28858942	0.14006855	2.23534371	
MGC16121	-0.28859316	0.14006855	-2.23537529	
FCRLB	-0.28852702	0.14020936	-2.23481644	
AWAT1	-0.28846890	0.14030459	-2.23432547	
C17orf60	-0.28847023	0.14030459	-2.23433664	
NUDCD3	0.28844287	0.14031011	2.23410555	
VSX2	-0.28844745	0.14031011	-2.23414424	
SHB	-0.28841543	0.14035324	-2.23387373	
CXorf55	-0.28836807	0.14044210	-2.23347362	
TRIM54	-0.28835964	0.14044210	-2.23340240	yes
FAM102A	0.28827256	0.14064019	2.23266685	
LOC441795	-0.28826488	0.14064019	-2.23260196	
LSM1	0.28825237	0.14064158	2.23249626	
TMEM164	0.28823807	0.14064798	2.23237546	
LOC100133337	0.28820736	0.14070038	2.23211607	
COL4A1	-0.28816778	0.14071946	-2.23178175	yes
GLTSCR1	-0.28815252	0.14071946	-2.23165292	
LOC388282	-0.28816353	0.14071946	-2.23174585	
HAPLN4	-0.28815836	0.14071946	-2.23170219	
MNDA	-0.28805951	0.14076424	-2.23086741	
ANO7	-0.28809250	0.14076424	-2.23114596	
CYB5R4	0.28807533	0.14076424	2.23100096	
NEUROD4	-0.28805258	0.14076424	-2.23080883	
SRF	-0.28806730	0.14076424	-2.23093320	
C9orf45	0.28812264	0.14076424	2.23140053	
UTP15	0.28807798	0.14076424	2.23102337	
PQBP1	0.28779665	0.14104178	2.22864770	

MASP2	-0.28782989	0.14104178	-2.22892838	
MMP24	-0.28784097	0.14104178	-2.22902194	
ASCC3	0.28776954	0.14104178	2.22841880	
SLC31A1	0.28771052	0.14104178	2.22792059	
CRP	-0.28767849	0.14104178	-2.22765010	
C10orf25	-0.28778529	0.14104178	-2.22855180	
PPY2	-0.28772358	0.14104178	-2.22803080	
ALPI	-0.28786406	0.14104178	-2.22921693	
YTHDF3	0.28777727	0.14104178	2.22848407	
PCDH17	-0.28768921	0.14104178	-2.22774062	
FAM182A	-0.28788129	0.14104178	-2.22936238	
FLJ42291	-0.28773298	0.14104178	-2.22811019	
BSX	-0.28768961	0.14104178	-2.22774405	
LY9	-0.28786586	0.14104178	-2.22923213	
FOXRED1	0.28775388	0.14104178	2.22828667	
ACTA2	-0.28768099	0.14104178	-2.22767128	
RPS13	0.28785566	0.14104178	2.22914599	
OR6K2	-0.28786064	0.14104178	-2.22918806	
PLVAP	-0.28772054	0.14104178	-2.22800512	yes
JPH4	-0.28786497	0.14104178	-2.22922455	
GADD45GIP1	-0.28776745	0.14104178	-2.22840120	
MED17	0.28779621	0.14104178	2.22864400	
GSR	0.28763364	0.14113411	2.22727156	
NHEDC1	-0.28756368	0.14128823	-2.22668097	
TRAF5	-0.28755489	0.14128823	-2.22660675	
TPPP2	-0.28743668	0.14138611	-2.22560895	
CITED4	-0.28749388	0.14138611	-2.22609173	
KIR2DL4	-0.28744406	0.14138611	-2.22567126	
PKLR	-0.28750345	0.14138611	-2.22617255	
CCNJL	-0.28744155	0.14138611	-2.22565011	
PPP1R1B	-0.28748156	0.14138611	-2.22598777	
OR6W1P	-0.28743657	0.14138611	-2.22560807	
HOXC4	-0.28739098	0.14148076	-2.22522327	

PLK5P	-0.28732144	0.14155565	-2.22463639	yes
RAB37	0.28731778	0.14155565	2.22460549	
ZNF532	-0.28730479	0.14155565	-2.22449587	
LOC554206	0.28733958	0.14155565	2.22478948	
ADAMTS12	-0.28730916	0.14155565	-2.22453268	
C8orf48	-0.28723260	0.14166794	-2.22388662	
SLITRK3	-0.28722916	0.14166794	-2.22385762	
KRTAP8-1	-0.28724822	0.14166794	-2.22401845	
C3orf10	0.28717011	0.14180065	2.22335935	
GRHL2	0.28709625	0.14197522	2.22273606	
STK32C	-0.28704461	0.14208725	-2.22230041	
RASSF8	-0.28703116	0.14209164	-2.22218688	
PCDH9	-0.28698424	0.14219044	-2.22179103	
MMP21	-0.28696779	0.14220330	-2.22165224	
DKK4	-0.28695385	0.14220906	-2.22153470	
LCE2C	-0.28683925	0.14244326	-2.22056790	
MUSTN1	-0.28683208	0.14244326	-2.22050743	
NAT10	0.28683297	0.14244326	2.22051489	
FRMD1	-0.28682336	0.14244326	-2.22043382	
SFTP8	-0.28678135	0.14252838	-2.22007949	
CD34	-0.28676782	0.14253302	-2.21996540	
ASCC1	0.28674909	0.14255240	2.21980736	yes
GLOD4	0.28669544	0.14263691	2.21935488	
RCBTB1	0.28669616	0.14263691	2.21936096	
ITPRIPL1	-0.28666518	0.14268890	-2.21909967	
CLCNKA	-0.28653223	0.14296178	-2.21797838	
CYBA	0.28651591	0.14296178	2.21784072	
DDB1	0.28649020	0.14296178	2.21762393	
SLC35D1	0.28650813	0.14296178	2.21777518	
LOC100133407	-0.28646552	0.14296178	-2.21741584	
GZMH	-0.28643827	0.14296178	-2.21718606	
OVCH2	-0.28644317	0.14296178	-2.21722740	
RNF34	0.28649967	0.14296178	2.21770385	

SGK493	-0.28649412	0.14296178	-2.21765703	yes
FBXO44	-0.28645362	0.14296178	-2.21731550	yes
NUAK1	-0.28646999	0.14296178	-2.21745351	
FAM178B	-0.28642021	0.14297936	-2.21703378	
LOC148003	-0.28640323	0.14299390	-2.21689057	
OR8K5	-0.28634019	0.14310537	-2.21635904	
FXYD1	-0.28634759	0.14310537	-2.21642143	
CYTH1	0.28631155	0.14315299	2.21611752	
SEP15	0.28628539	0.14319355	2.21589703	
PAAF1	0.28625079	0.14325811	2.21560525	
AATK	-0.28623497	0.14326938	-2.21547193	
FGD5	-0.28617963	0.14333753	-2.21500533	
IVD	0.28617544	0.14333753	2.21497006	
TEX14	-0.28618034	0.14333753	-2.21501135	
LOC100129503	-0.28614485	0.14339077	-2.21471212	
TBK1	0.28611822	0.14343277	2.21448765	
MBOAT2	0.28608315	0.14346518	2.21419201	
TTC4	0.28608896	0.14346518	2.21424097	
CYP2C18	0.28605232	0.14350403	2.21393218	
GNS	0.28604569	0.14350403	2.21387625	
LCE1D	-0.28599855	0.14350403	-2.21347893	
SPN	-0.28601881	0.14350403	-2.21364971	
ERMP1	0.28600378	0.14350403	2.21352304	
NCR2	-0.28600609	0.14350403	-2.21354248	
C1orf213	-0.28596477	0.14353289	-2.21319416	
PAEP	-0.28597540	0.14353289	-2.21328380	
LOC100129540	-0.28594057	0.14356342	-2.21299022	
EFR3A	0.28590934	0.14356342	2.21272704	
PDE1C	-0.28589963	0.14356342	-2.21264520	
RAB3A	-0.28589500	0.14356342	-2.21260617	
RPL14	0.28592681	0.14356342	2.21287424	
RASGRP2	-0.28586219	0.14362311	-2.21232958	yes
FAM186A	-0.28580807	0.14364284	-2.21187356	

GDPD4	-0.28581805	0.14364284	-2.21195763	
TESSP5	-0.28584090	0.14364284	-2.21215020	
C20orf3	0.28581130	0.14364284	2.21190077	
DLD	0.28576462	0.14369402	2.21150735	
R3HDM2	0.28576584	0.14369402	2.21151764	
KCNJ5	-0.28574029	0.14369402	-2.21130232	
PHKG1	-0.28573115	0.14369402	-2.21122533	
EPC1	0.28575176	0.14369402	2.21139901	
ACTL6B	-0.28570475	0.14373556	-2.21100285	
SEP9	0.28568861	0.14374797	2.21086684	
TMEM80	0.28566680	0.14377649	2.21068307	
NR2E3	-0.28562861	0.14379428	-2.21036122	
CD300LD	-0.28560224	0.14379428	-2.21013911	
GEMIN5	0.28556645	0.14379428	2.20983755	
RASSF3	-0.28562211	0.14379428	-2.21030651	
IPO4	0.28557725	0.14379428	2.20992853	
C6orf155	-0.28558603	0.14379428	-2.21000250	
MFRP	-0.28557165	0.14379428	-2.20988136	
PCBD2	0.28561069	0.14379428	2.21021028	
ZIC4	-0.28553801	0.14384170	-2.20959791	
SNIP1	-0.28551684	0.14386847	-2.20941955	
NDUFA12	0.28549584	0.14389477	2.20924260	
CAPN6	-0.28548040	0.14390527	-2.20911252	
C18orf19	0.28544126	0.14398315	2.20878276	
OR2H1	-0.28540029	0.14403286	-2.20843765	
MATN4	-0.28540839	0.14403286	-2.20850586	
CSTB	0.28536360	0.14410383	2.20812855	yes
SMS	0.28535138	0.14410520	2.20802563	
TRIM38	0.28531708	0.14416939	2.20773672	
OR8S1	-0.28529702	0.14419310	-2.20756771	
ALDOA	0.28525704	0.14424012	2.20723093	
A4GNT	-0.28526689	0.14424012	-2.20731394	
ASB7	0.28523616	0.14426618	2.20705505	

CCL8	-0.28518451	0.14437987	-2.20662001	
FIZ1	-0.28511002	0.14452531	-2.20599264	
ZNF622	0.28512034	0.14452531	2.20607960	
ATP1A2	-0.28509404	0.14453745	-2.20585805	
CSNK1G1	0.28505159	0.14462504	2.20550063	
OR10J3	-0.28493057	0.14490357	-2.20448147	
ATP4A	-0.28494035	0.14490357	-2.20456387	
WDR92	0.28488041	0.14491300	2.20405914	
LOC124220	-0.28488049	0.14491300	-2.20405980	yes
BRP44L	0.28490369	0.14491300	2.20425515	
ALLC	-0.28490521	0.14491300	-2.20426794	
MYH11	-0.28482127	0.14501820	-2.20356116	
INTS10	0.28480846	0.14501820	2.20345334	
RYR3	-0.28481430	0.14501820	-2.20350247	
HAVCR1	-0.28478659	0.14504727	-2.20326917	
NPR1	-0.28475759	0.14509670	-2.20302504	
KCTD1	0.28472593	0.14513756	2.20275847	
BRSK2	-0.28469651	0.14513756	-2.20251081	
TMEM88	-0.28470067	0.14513756	-2.20254579	
CACNA2D2	-0.28471406	0.14513756	-2.20265852	
ARC	-0.28462482	0.14530918	-2.20190723	
FAF1	0.28438064	0.14538979	2.19985195	
MAGEE2	-0.28450732	0.14538979	-2.20091819	
CSNK1A1	0.28438720	0.14538979	2.19990716	yes
PRAGMIN	-0.28445225	0.14538979	-2.20045463	
C14orf21	0.28435142	0.14538979	2.19960608	
NRK	-0.28438206	0.14538979	-2.19986387	
OR10H3	-0.28451937	0.14538979	-2.20101964	
FGF22	-0.28444767	0.14538979	-2.20041611	
TMOD3	0.28438043	0.14538979	2.19985022	yes
HMBS	0.28456320	0.14538979	2.20138858	
BLOC1S3	-0.28439618	0.14538979	-2.19998278	yes
MEIS3P1	0.28446274	0.14538979	2.20054296	

LOC441179	-0.28457912	0.14538979	-2.20152258	
ACR	-0.28450245	0.14538979	-2.20087717	
NRTN	-0.28448618	0.14538979	-2.20074024	yes
INO80	0.28447426	0.14538979	2.20063996	
C14orf105	-0.28447382	0.14538979	-2.20063626	
TMEM55A	-0.28441761	0.14538979	-2.20016313	
BCL9	-0.28452556	0.14538979	-2.20107176	
SOAT2	-0.28433993	0.14538979	-2.19950932	
LTV1	0.28435950	0.14538979	2.19967403	
S1PR2	-0.28434834	0.14538979	-2.19958008	
RFTN2	-0.28426914	0.14539252	-2.19891364	
ALAD	0.28427958	0.14539252	2.19900148	
SIGLEC8	-0.28429669	0.14539252	-2.19914549	
HOXC9	-0.28430431	0.14539252	-2.19920961	
LOC390956	-0.28429112	0.14539252	-2.19909853	
CARS	0.28429354	0.14539252	2.19911891	
PVALB	-0.28424846	0.14541841	-2.19873961	
CLSTN1	0.28417226	0.14556991	2.19809833	
MTF1	0.28417254	0.14556991	2.19810068	yes
SLC35F3	-0.28405526	0.14560552	-2.19711391	
GPC5	-0.28414439	0.14560552	-2.19786388	
HK1	0.28410737	0.14560552	2.19755233	
SNCG	-0.28408067	0.14560552	-2.19732770	
UBE2E1	0.28410064	0.14560552	2.19749570	
MIA	-0.28407617	0.14560552	-2.19728981	
NTNG2	-0.28412306	0.14560552	-2.19768436	
ATOH8	-0.28405953	0.14560552	-2.19714980	
CORO6	-0.28407316	0.14560552	-2.19726454	
DEFB132	-0.28402315	0.14566421	-2.19684373	
CDYL2	-0.28396793	0.14578911	-2.19637917	
OR52R1	-0.28391409	0.14589487	-2.19592625	
PIWIL3	-0.28390781	0.14589487	-2.19587340	
GRRP1	-0.28388284	0.14593319	-2.19566335	

RP13-102H20.1	-0.28386450	0.14594240	-2.19550905	
P2RX2	-0.28383166	0.14594240	-2.19523283	
HMGA1	-0.28382165	0.14594240	-2.19514860	
LCN9	-0.28385011	0.14594240	-2.19538801	
AIFM1	0.28383346	0.14594240	2.19524791	
DNAJC15	0.28378543	0.14597980	2.19484391	
IPPK	0.28379073	0.14597980	2.19488849	
ENPEP	-0.28374764	0.14602171	-2.19452608	yes
FOX11	-0.28375073	0.14602171	-2.19455205	
PABPC4	0.28373282	0.14603099	2.19440142	
TMEM14C	0.28369569	0.14610427	2.19408911	
YY2	-0.28365531	0.14617818	-2.19374943	
ASGR2	-0.28364678	0.14617818	-2.19367770	
TSPYL2	-0.28357357	0.14635511	-2.19306201	
hCG_2045089	-0.28354438	0.14637992	-2.19281653	
CALY	-0.28353554	0.14637992	-2.19274223	
PMEPA1	-0.28353021	0.14637992	-2.19269738	
HDX	-0.28349980	0.14638497	-2.19244163	
TIMM8A	0.28348523	0.14638497	2.19231909	
FKBP7	-0.28347230	0.14638497	-2.19221039	
RNASEL	0.28346826	0.14638497	2.19217642	
TCEB1P3	-0.28345908	0.14638497	-2.19209918	
C9orf61	-0.28348360	0.14638497	-2.19230540	
MBOAT1	0.28339747	0.14649555	2.19158112	
CASP3	0.28340058	0.14649555	2.19160733	
C3orf27	-0.28338583	0.14649580	-2.19148325	
GABRB1	-0.28337357	0.14649783	-2.19138019	
OR56A4	-0.28335523	0.14651734	-2.19122600	
RAB42	-0.28333024	0.14655596	-2.19101589	
GPX2	0.28328586	0.14665037	2.19064269	
RASSF5	0.28323816	0.14675434	2.19024170	
XPO4	0.28318298	0.14680426	2.18977779	
OR5AC2	-0.28318490	0.14680426	-2.18979390	

ACBD6	0.28320432	0.14680426	2.18995716	
GAL3ST1	-0.28317465	0.14680426	-2.18970774	
RPS27P13	-0.28306052	0.14696938	-2.18874832	
PIPOX	-0.28305962	0.14696938	-2.18874079	
PCDHGA3	-0.28306411	0.14696938	-2.18877851	
SPAST	0.28309506	0.14696938	2.18903869	
SS18	0.28308599	0.14696938	2.18896242	yes
OR8G2	-0.28300798	0.14708493	-2.18830667	
TMED2	0.28298565	0.14711606	2.18811900	
ADRB3	-0.28295515	0.14713755	-2.18786261	
NFX1	0.28296666	0.14713755	2.18795938	yes
TRIM75	-0.28292575	0.14715948	-2.18761553	
FAM165B	0.28292450	0.14715948	2.18760501	
OR1Q1	-0.28290363	0.14718642	-2.18742964	
AOC2	-0.28286816	0.14725365	-2.18713150	
CAPNS2	0.28285729	0.14725365	2.18704010	
PYCARD	0.28282426	0.14731568	2.18676256	
CDH3	0.28277738	0.14738781	2.18636860	
DDX52	0.28275396	0.14738781	2.18617180	
RP11-35F15.2	-0.28275561	0.14738781	-2.18618560	
SPRR2F	-0.28275323	0.14738781	-2.18616561	
ELF1	0.28272699	0.14743031	2.18594515	yes
TINF2	0.28264575	0.14763164	2.18526248	
GPR126	-0.28261863	0.14765359	-2.18503460	
KIAA1853	-0.28261516	0.14765359	-2.18500538	
C2orf51	-0.28257962	0.14768981	-2.18470683	
MPI	0.28258716	0.14768981	2.18477015	
ELAVL3	-0.28256629	0.14769512	-2.18459483	
CD300C	-0.28254445	0.14772503	-2.18441131	
SCN2B	-0.28250407	0.14780523	-2.18407203	
SLC17A1	-0.28249372	0.14780523	-2.18398510	
ZNF773	-0.28246164	0.14785799	-2.18371554	
CABP2	-0.28245250	0.14785799	-2.18363877	

C13orf34	0.28242842	0.14789440	2.18343651	
C10orf90	-0.28240759	0.14792144	-2.18326151	
CD200	-0.28236958	0.14799819	-2.18294217	
HTR7	-0.28233751	0.14805777	-2.18267278	
FLJ45079	-0.28229179	0.14809046	-2.18228874	
CYCS	0.28229706	0.14809046	2.18233293	
CLOCK	0.28231465	0.14809046	2.18248076	
SNORD116-18	-0.28222262	0.14825753	-2.18170767	
FBXL16	-0.28218356	0.14832148	-2.18137961	
VCX	-0.28217555	0.14832148	-2.18131233	
POLE3	0.28216614	0.14832148	2.18123329	
LRRC8B	0.28212686	0.14840207	2.18090344	yes
GFAP	-0.28209501	0.14846117	-2.18063593	
MRS2	0.28207646	0.14848174	2.18048010	
NKX3-2	-0.28203463	0.14856983	-2.18012877	
KIAA0146	0.28200523	0.14862186	2.17988195	
ADAMTS20	-0.28182488	0.14911258	-2.17836751	
KLF4	0.28181159	0.14911790	2.17825594	
KATNA1	0.28179626	0.14912916	2.17812723	yes
OTOS	-0.28177351	0.14916204	-2.17793616	
IL1R2	0.28175053	0.14919555	2.17774328	
CHL1	0.28164633	0.14928317	2.17686848	
AP1S1	0.28164795	0.14928317	2.17688203	
FOXR2	-0.28166606	0.14928317	-2.17703413	
SAGE1	-0.28162885	0.14928317	-2.17672173	
LRRC4C	-0.28170680	0.14928317	-2.17737610	
C9orf125	0.28166974	0.14928317	2.17706499	
ST6GAL2	-0.28163819	0.14928317	-2.17680010	
DDX21	0.28168134	0.14928317	2.17716240	
WDR18	0.28159730	0.14934172	2.17645687	
ZNF296	-0.28157018	0.14935410	-2.17622919	
SNORD59B	0.28157515	0.14935410	2.17627087	
SLC15A4	0.28155244	0.14937246	2.17608027	

FBN3	-0.28146275	0.14960048	-2.17532742	
MAGEC3	-0.28142676	0.14966340	-2.17502534	
SFRP5	-0.28141831	0.14966340	-2.17495443	
C9orf4	-0.28139637	0.14967499	-2.17477031	yes
ITGBL1	-0.28139148	0.14967499	-2.17472925	
SSRP1	0.28137307	0.14969536	2.17457472	
CACNA1A	-0.28134417	0.14974635	-2.17433216	
SFMBT1	0.28131749	0.14975755	2.17410825	yes
CHST8	-0.28131958	0.14975755	-2.17412578	
DGKB	-0.28125464	0.14981989	-2.17358080	
OR11A1	-0.28126554	0.14981989	-2.17367224	
CRLF3	0.28125046	0.14981989	2.17354575	
ZNF136	0.28128297	0.14981989	2.17381855	
CXCL16	0.28123343	0.14983631	2.17340279	
ACAT2	0.28120406	0.14988872	2.17315634	
PEMT	0.28116584	0.14995336	2.17283564	
SMOC2	-0.28115911	0.14995336	-2.17277912	
SIVA1	-0.28110362	0.15004197	-2.17231349	
ZNF280A	-0.28107731	0.15004197	-2.17209278	
ASB6	0.28107684	0.15004197	2.17208886	
TXN	0.28106171	0.15004197	2.17196187	
SPATA5L1	0.28109231	0.15004197	2.17221860	
TTBK1	-0.28106037	0.15004197	-2.17195063	
ATP13A1	0.28103850	0.15007259	2.17176709	
LIN7A	-0.28102062	0.15009153	-2.17161713	
SUSD3	-0.28096789	0.15017904	-2.17117472	
TRHR	-0.28096864	0.15017904	-2.17118098	
SENP1	0.28092620	0.15023433	2.17082498	
MGAT5	0.28092778	0.15023433	2.17083818	
TMEM105	-0.28091128	0.15024469	-2.17069976	
FMN2	-0.28086989	0.15033243	-2.17035253	
COL4A2	-0.28084427	0.15036886	-2.17013762	yes
PDP2	0.28083468	0.15036886	2.17005713	

PNMA5	-0.28080796	0.15038762	-2.16983299	
NSMAF	0.28080551	0.15038762	2.16981250	
OR4K2	-0.28076996	0.15045834	-2.16951430	
C12orf41	0.28075459	0.15047005	2.16938537	
ITGA9	-0.28072001	0.15049702	-2.16909529	
LY6E	0.28071128	0.15049702	2.16902204	
TIMP3	-0.28071439	0.15049702	-2.16904816	
S1PR3	-0.28063340	0.15069174	-2.16836880	
SEMA4B	0.28057857	0.15073239	2.16790900	
C7orf45	-0.28057408	0.15073239	-2.16787134	
GNAI3	0.28059158	0.15073239	2.16801810	
ACTN1	-0.28059577	0.15073239	-2.16805326	
NCAPD2	0.28055946	0.15074197	2.16774867	
KRTAP13-3	-0.28050996	0.15075399	-2.16733356	
CYP26C1	-0.28053915	0.15075399	-2.16757836	
INHBB	-0.28051636	0.15075399	-2.16738724	
MRPS12	0.28051036	0.15075399	2.16733690	
FAM18B	0.28046877	0.15084143	2.16698811	
LOC100133363	-0.28043339	0.15084540	-2.16669142	
AP2M1	0.28044232	0.15084540	2.16676631	
METTL13	0.28043717	0.15084540	2.16672312	
KIF2B	-0.28041534	0.15086507	-2.16654005	
STH	-0.28039874	0.15088048	-2.16640090	
GCLM	0.28032796	0.15098829	2.16580743	
LCE2A	-0.28034538	0.15098829	-2.16595346	
PKHD1	-0.28033231	0.15098829	-2.16584388	
MAGEB17	-0.28026271	0.15114644	-2.16526029	
ANGPTL7	-0.28022878	0.15117952	-2.16497583	
MRGPRF	-0.28023250	0.15117952	-2.16500703	yes
C2orf85	-0.28019778	0.15123728	-2.16471587	
SLC22A9	-0.28006756	0.15124898	-2.16362426	
SMEK3P	-0.28015929	0.15124898	-2.16439320	
CBLN2	-0.28007569	0.15124898	-2.16369236	

FCN2	-0.28008457	0.15124898	-2.16376681	
AOF2	0.28013939	0.15124898	2.16422636	
CLDN11	-0.28004508	0.15124898	-2.16343580	yes
CLEC1A	-0.28003545	0.15124898	-2.16335507	
RGAG1	-0.28011397	0.15124898	-2.16401328	
SLC1A7	-0.28014719	0.15124898	-2.16429181	
ABCC8	-0.28004863	0.15124898	-2.16346551	
C12orf30	0.28008465	0.15124898	2.16376749	
LDB2	-0.28012189	0.15124898	-2.16407970	
CCT6A	0.28009496	0.15124898	2.16385391	
ELMO1	-0.28004189	0.15124898	-2.16340900	
PRR3	-0.27999155	0.15134466	-2.16298707	
XKR9	-0.27997352	0.15136444	-2.16283594	
PSORS1C2	-0.27993352	0.15143826	-2.16250063	
PSMD3	0.27992579	0.15143826	2.16243589	
MUC17	-0.27985306	0.15161878	-2.16182626	
C10orf32	0.27983001	0.15162018	2.16163305	
ZNF776	0.27983651	0.15162018	2.16168758	
PPP2R3C	0.27978770	0.15171139	2.16127845	
TXNDC3	-0.27974026	0.15181771	-2.16088094	
UNC13B	0.27969307	0.15189018	2.16048544	
FLJ25770	-0.27969931	0.15189018	-2.16053774	
ADAM22	-0.27963186	0.15190438	-2.15997253	
ZNF131	0.27964611	0.15190438	2.16009196	
FAM118B	0.27964322	0.15190438	2.16006770	
BRSK1	-0.27964078	0.15190438	-2.16004724	
SQSTM1	0.27967312	0.15190438	2.16031827	
OR5B17	-0.27959335	0.15192531	-2.15964982	
ATRNL1	-0.27956842	0.15192531	-2.15944092	
OR2B3	-0.27957541	0.15192531	-2.15949950	
ZNF154	-0.27959008	0.15192531	-2.15962239	
ZNF205	-0.27957909	0.15192531	-2.15953031	
CXorf26	0.27952948	0.15200678	2.15911464	

CAPN11	-0.27947827	0.15212441	-2.15868558	
NOTCH4	-0.27946671	0.15212530	-2.15858873	
MPP2	-0.27944782	0.15214777	-2.15843051	yes
ZNF100	0.27941347	0.15214777	2.15814270	
FCER2	-0.27937128	0.15214777	-2.15778923	
ITPR3	0.27941428	0.15214777	2.15814945	
NHLRC3	0.27939923	0.15214777	2.15802340	
MED31	0.27936908	0.15214777	2.15777082	
TBCCD1	0.27937221	0.15214777	2.15779705	
SPRR2G	-0.27937777	0.15214777	-2.15784356	
ZHX2	-0.27935576	0.15215390	-2.15765922	
SNORA50	-0.27933870	0.15217104	-2.15751630	
NOP2	0.27932086	0.15218285	2.15736684	
C8G	-0.27931222	0.15218285	-2.15729445	
DYNLT3	0.27925187	0.15232754	2.15678895	
ARV1	0.27924000	0.15232942	2.15668950	
BTN1A1	-0.27921525	0.15236927	-2.15648217	
GBP3	0.27919622	0.15239226	2.15632278	
FAM57A	0.27918289	0.15239845	2.15621115	
PF4V1	-0.27915773	0.15243955	-2.15600036	
CLN8	0.27914287	0.15245027	2.15587589	
GAFA3	-0.27910728	0.15248905	-2.15557778	
F13A1	-0.27910915	0.15248905	-2.15559347	
TBRG4	0.27903046	0.15268257	2.15493445	
SEMA6C	-0.27899579	0.15270615	-2.15464410	
PAP2D	-0.27898883	0.15270615	-2.15458574	
MUL1	0.27898891	0.15270615	2.15458648	
CLCN2	-0.27894201	0.15281128	-2.15419366	
LCT	-0.27890475	0.15282199	-2.15388166	
ZNF434	0.27891120	0.15282199	2.15393570	
OXSR1	0.27892242	0.15282199	2.15402959	
LELP1	-0.27881950	0.15304079	-2.15316780	
GRN	0.27878020	0.15309072	2.15283874	

OR4K17	-0.27878983	0.15309072	-2.15291934	
RARS2	0.27875940	0.15310948	2.15266453	
RNF6	0.27875145	0.15310948	2.15259801	yes
ADFP	-0.27872555	0.15315295	-2.15238117	
KANK2	-0.27871133	0.15315932	-2.15226212	
NDUFB2	0.27869449	0.15315932	2.15212111	
MKRN3	-0.27868981	0.15315932	-2.15208192	
CRISP3	-0.27866551	0.15319809	-2.15187847	
SSBP1	0.27863615	0.15325184	2.15163269	
COPB1	0.27849336	0.15332759	2.15043731	
MANEAL	-0.27852328	0.15332759	-2.15068777	
DDOST	0.27847243	0.15332759	2.15026207	
FGL1	-0.27858226	0.15332759	-2.15118151	
CNRIP1	-0.27850664	0.15332759	-2.15054849	
EXOC1	0.27848643	0.15332759	2.15037929	
MESP1	-0.27854919	0.15332759	-2.15090468	
PARD3	0.27849412	0.15332759	2.15044363	
ACN9	0.27855099	0.15332759	2.15091977	
VN1R1	-0.27852404	0.15332759	-2.15069412	
FAM40B	-0.27846523	0.15332759	-2.15020187	
OR51B4	-0.27857656	0.15332759	-2.15113382	
ACBD5	0.27848192	0.15332759	2.15034156	
TMEM45B	0.27843525	0.15335715	2.14995088	
GRSF1	0.27843292	0.15335715	2.14993134	
LOC100133412	-0.27838786	0.15342445	-2.14955418	
ASPG	-0.27839181	0.15342445	-2.14958730	
RNF2	0.27837148	0.15343991	2.14941708	yes
DMRT1	-0.27835929	0.15344181	-2.14931509	
ATP1B3	0.27834852	0.15344181	2.14922496	
MGC34800	-0.27831943	0.15346191	-2.14898146	
C3orf33	-0.27832020	0.15346191	-2.14898790	
TCEAL5	-0.27830385	0.15347503	-2.14885104	
SUNC1	-0.27826154	0.15356729	-2.14849695	

ACTR2	0.27824971	0.15356932	2.14839793	
ADAMTS19	-0.27822841	0.15359938	-2.14821973	
DGKK	-0.27820673	0.15363060	-2.14803826	
SHC4	-0.27817559	0.15368987	-2.14777763	
CRYL1	-0.27815253	0.15369219	-2.14758465	
SYT3	-0.27816030	0.15369219	-2.14764967	
SRP14	0.27813444	0.15371279	2.14743327	
RPA1	0.27809435	0.15379861	2.14709780	
BNIP1	0.27804366	0.15391590	2.14667365	
GNRHR	-0.27803107	0.15392020	-2.14656835	
LYG2	-0.27796550	0.15408173	-2.14601973	
NF2	0.27794556	0.15410789	2.14585287	
HECTD1	0.27792857	0.15412531	2.14571068	yes
UNC5D	-0.27787899	0.15420988	-2.14529593	
AGPAT3	0.27787783	0.15420988	2.14528621	
LRRN3	-0.27786368	0.15421889	-2.14516777	yes
XYLT1	-0.27784047	0.15423505	-2.14497364	
VGFB	-0.27783599	0.15423505	-2.14493617	
PURG	-0.27780409	0.15429678	-2.14466931	
CWF19L1	0.27778953	0.15430701	2.14454751	
PLA2G2A	-0.27766798	0.15463540	-2.14353072	
SERPIN4	0.27758832	0.15483951	2.14286439	
SAMD7	-0.27754448	0.15490388	-2.14249775	
MFSD1	0.27754734	0.15490388	2.14252162	
CHMP1B	0.27752648	0.15492440	2.14234718	
ATR	0.27748647	0.15501054	2.14201258	
NXPH4	-0.27741957	0.15504443	-2.14145302	
ZNF524	-0.27743853	0.15504443	-2.14161158	
NAT6	-0.27743370	0.15504443	-2.14157126	
GYPE	-0.27743141	0.15504443	-2.14155208	
PCSK5	0.27742697	0.15504443	2.14151492	yes
AMAC1L3	-0.27740303	0.15506063	-2.14131474	
PLK4	0.27738705	0.15506312	2.14118112	

GRIK2	0.27737307	0.15506312	2.14106417	
SPDYE7P	-0.27736890	0.15506312	-2.14102929	
GPR139	-0.27735623	0.15506782	-2.14092334	
C20orf201	-0.27729106	0.15519600	-2.14037840	
C19orf56	0.27729682	0.15519600	2.14042659	
CETN1	-0.27723592	0.15526126	-2.13991734	
ADAMTS6	-0.27724330	0.15526126	-2.13997906	
GDE1	0.27725260	0.15526126	2.14005681	
TRPC2	-0.27721328	0.15528832	-2.13972804	
BMP15	-0.27720468	0.15528832	-2.13965615	
COX15	0.27717240	0.15529367	2.13938627	
OR2A14	-0.27717510	0.15529367	-2.13940886	
GABRR1	-0.27716965	0.15529367	-2.13936324	
POU3F2	-0.27715040	0.15531806	-2.13920229	
TMEM47	-0.27712054	0.15537410	-2.13895270	
PSRC1	-0.27708959	0.15543344	-2.13869394	
GRIA2	-0.27707333	0.15544895	-2.13855795	
GH1	-0.27704656	0.15546277	-2.13833419	
PSMD6	0.27705633	0.15546277	2.13841588	
DAPK1	-0.27702940	0.15548097	-2.13819071	
ZFPM2	-0.27697843	0.15556711	-2.13776461	
RANGRF	-0.27698095	0.15556711	-2.13778573	
SNORA71B	-0.27694466	0.15563495	-2.13748234	
CLEC1B	-0.27693301	0.15563672	-2.13738492	
LIX1L	-0.27691249	0.15566499	-2.13721339	yes
SUPT4H1	0.27689266	0.15569121	2.13704764	
VASN	-0.27680931	0.15579516	-2.13635095	yes
GNG11	-0.27680262	0.15579516	-2.13629507	
FLJ20464	-0.27683180	0.15579516	-2.13653896	
SLC6A6	0.27681356	0.15579516	2.13638648	
TCEB1	0.27683166	0.15579516	2.13653776	
MTHFR	0.27677619	0.15581273	2.13607414	
RIOK1	0.27677465	0.15581273	2.13606130	

GHSR	-0.27672689	0.15592255	-2.13566210	
DOK1	-0.27670205	0.15596382	-2.13545451	yes
ZNF516	0.27660859	0.15621058	2.13467349	
C12orf53	-0.27658335	0.15623652	-2.13446254	
HTN1	-0.27657785	0.15623652	-2.13441658	
CBLN3	-0.27648870	0.15645687	-2.13367163	
SNN	-0.27648227	0.15645687	-2.13361791	
FAM9C	-0.27645101	0.15651752	-2.13335675	yes
CCDC87	-0.27641673	0.15658727	-2.13307032	
MRPL22	0.27637941	0.15666617	2.13275850	
PPM1K	-0.27635402	0.15667615	-2.13254635	
SOCS7	-0.27636412	0.15667615	-2.13263077	
GCH1	0.27633241	0.15670790	2.13236584	
TCAP	-0.27627968	0.15683316	-2.13192530	
LOC100133406	0.27625977	0.15683576	2.13175897	
IREB2	0.27622369	0.15683576	2.13145754	
ARG1	-0.27623324	0.15683576	-2.13153733	
WRNIP1	0.27624167	0.15683576	2.13160771	
AGPS	0.27624173	0.15683576	2.13160825	
OSBPL3	0.27619315	0.15686790	2.13120243	yes
LCN15	-0.27616371	0.15686790	-2.13095648	
RNF141	0.27615791	0.15686790	2.13090805	
UBL3	0.27617888	0.15686790	2.13108321	yes
CYP26B1	-0.27616239	0.15686790	-2.13094550	
RASGRF2	-0.27613199	0.15691270	-2.13069151	
DPP3	0.27610567	0.15695870	2.13047169	
LIPJ	-0.27607395	0.15698789	-2.13020670	
MCM3AP	0.27607810	0.15698789	2.13024134	
ATP6V1B1	-0.27605710	0.15700545	-2.13006597	
TMEM87A	0.27601039	0.15707972	2.12967585	
GABRQ	-0.27601141	0.15707972	-2.12968434	
PLD4	-0.27596985	0.15716857	-2.12933723	
FRMPD4	-0.27593591	0.15723757	-2.12905381	

DNAJB8	-0.27592467	0.15723832	-2.12895988	
TMCO1	0.27589686	0.15728889	2.12872770	
MCM5	0.27585271	0.15738873	2.12835891	
SORBS3	-0.27582249	0.15744660	-2.12810662	
OR9A2	-0.27572050	0.15763788	-2.12725494	
UQCC	0.27571505	0.15763788	2.12720942	
hCG_2015956	-0.27574666	0.15763788	-2.12747337	
USH2A	-0.27572586	0.15763788	-2.12729969	
KRT15	0.27569583	0.15766270	2.12704895	
DNAJB12	-0.27568131	0.15767337	-2.12692766	
PRIM2	0.27566527	0.15768859	2.12679380	
C11orf39	-0.27562843	0.15776658	-2.12648616	
LYPLA1	0.27560503	0.15779411	2.12629083	
OGDHL	-0.27559734	0.15779411	-2.12622661	
C20orf118	-0.27555631	0.15786131	-2.12588406	
MYO1E	0.27553220	0.15786131	2.12568275	
EXOSC5	0.27553116	0.15786131	2.12567409	
ACTR5	0.27554825	0.15786131	2.12581672	
RPL10P13	-0.27545690	0.15805235	-2.12505410	
ITPRIPL2	0.27542104	0.15810257	2.12475477	
NCR3	-0.27541833	0.15810257	-2.12473214	
ZNRF4	-0.27535956	0.15814536	-2.12424159	
C22orf37	-0.27526260	0.15814536	-2.12343220	
PELI3	-0.27538507	0.15814536	-2.12445450	
CHMP2B	0.27529758	0.15814536	2.12372416	yes
KCNMB4	-0.27532916	0.15814536	-2.12398776	
DPYSL5	-0.27529509	0.15814536	-2.12370341	
BRD2	0.27537622	0.15814536	2.12438063	
MAPK12	-0.27528028	0.15814536	-2.12357979	
SLC4A3	-0.27531164	0.15814536	-2.12384158	
TRGV5	-0.27526172	0.15814536	-2.12342488	
TRPC3	-0.27533315	0.15814536	-2.12402113	
ZNRF1	0.27529755	0.15814536	2.12372391	

ACYP2	0.27527817	0.15814536	2.12356217
RDM1	-0.27522335	0.15822819	-2.12310463
NOX3	-0.27517571	0.15828486	-2.12270703
C3orf36	-0.27517177	0.15828486	-2.12267410
HVCN1	-0.27519177	0.15828486	-2.12284102
OR4P4	-0.27515006	0.15831741	-2.12249293
OR8B12	-0.27513108	0.15834171	-2.12233453
FAM120C	0.27509281	0.15842432	2.12201520
SH2D2A	-0.27507551	0.15844357	-2.12187081
ARHGDIG	-0.27502025	0.15854458	-2.12140964
IDI2	-0.27502277	0.15854458	-2.12143068
NT5C1B	-0.27500651	0.15855306	-2.12129502
WNT10B	-0.27494241	0.15871396	-2.12076013
LOC400657	-0.27492305	0.15873952	-2.12059852
DLL4	-0.27485857	0.15890170	-2.12006056
OR2M4	-0.27483641	0.15893575	-2.11987565
LOC100131928	-0.27479201	0.15903720	-2.11950525
ATE1	0.27471308	0.15911098	2.11884669
ALDH2	0.27472367	0.15911098	2.11893506
INPP1	0.27474274	0.15911098	2.11909416
FRRS1	0.27473636	0.15911098	2.11904091
UBE2Q1	0.27472945	0.15911098	2.11898325
AMZ1	-0.27466153	0.15920983	-2.11841666
PRPF6	0.27465866	0.15920983	2.11839270
FAM107A	-0.27459566	0.15933485	-2.11786716
CLTC	0.27459301	0.15933485	2.11784504
KRTAP23-1	-0.27458473	0.15933485	-2.11777598
EIF1AY	0.27457328	0.15933648	2.11768048
CSDC2	-0.27454150	0.15939984	-2.11741543
MRPL47	0.27451929	0.15941512	2.11723015
ACTR3B	0.27448195	0.15941512	2.11691874
CACNA1C	-0.27448740	0.15941512	-2.11696417
C7orf10	-0.27451046	0.15941512	-2.11715649

NAT13	0.27450344	0.15941512	2.11709798
HUWE1	0.27443588	0.15948884	2.11653447
FRS3	-0.27444303	0.15948884	-2.11659408
RP11-93B14.6	-0.27442112	0.15950023	-2.11641133
PUM2	0.27441035	0.15950023	2.11632149
LOC100129196	-0.27439250	0.15952135	-2.11617267
KRT37	-0.27428978	0.15980046	-2.11531598
AQP7	-0.27424212	0.15989651	-2.11491853
CASQ1	-0.27423643	0.15989651	-2.11487106
GLP1R	-0.27420982	0.15994433	-2.11464920
GPR119	-0.27419690	0.15995054	-2.11454143
PSMC6	0.27418042	0.15996754	2.11440406
LOC120824	-0.27411909	0.16005104	-2.11389267
RNF19B	0.27410000	0.16005104	2.11373350
RNF121	0.27411085	0.16005104	2.11382392
REG1B	-0.27409859	0.16005104	-2.11372174
WDR59	0.27413053	0.16005104	2.11398802
RPRML	-0.27407281	0.16009642	-2.11350678
KRT20	-0.27404009	0.16016296	-2.11323397
SNORD114-26	-0.27396833	0.16034849	-2.11263568
RARS	0.27395094	0.16036838	2.11249066
CIDEA	-0.27390714	0.16040249	-2.11212554
RBM46	-0.27391363	0.16040249	-2.11217968
SNAP91	-0.27391860	0.16040249	-2.11222107
KAAG1	-0.27384450	0.16051415	-2.11160338
OR8A1	-0.27383656	0.16051415	-2.11153721
PRR13	-0.27382707	0.16051415	-2.11145807
TMEM59	0.27382830	0.16051415	2.11146833
IMPG1	-0.27380497	0.16054845	-2.11127381
TNFRSF10B	0.27378679	0.16057077	2.11112231
FAM71F2	-0.27375100	0.16064687	-2.11082394
DSC3	0.27366906	0.16084761	2.11014100
EPHA2	0.27366354	0.16084761	2.11009502

MYT1	-0.27363415	0.16084955	-2.10985006	
ULBP1	-0.27363035	0.16084955	-2.10981836	
SPTLC2	0.27364484	0.16084955	2.10993910	
ABCC5	0.27351136	0.16105701	2.10882666	
RAMP3	-0.27350749	0.16105701	-2.10879441	
HECTD2	-0.27345147	0.16105701	-2.10832760	
RHOXF1	-0.27344321	0.16105701	-2.10825875	
ZNF404	-0.27346166	0.16105701	-2.10841250	
EPDR1	-0.27351346	0.16105701	-2.10884416	
NXT2	0.27354568	0.16105701	2.10911271	yes
TNR	-0.27344843	0.16105701	-2.10830228	
ZNF146	0.27354002	0.16105701	2.10906552	
PDZD3	-0.27346719	0.16105701	-2.10845863	
ZSCAN16	0.27345340	0.16105701	2.10834365	
WDR72	0.27338620	0.16119821	2.10778371	
DCHS1	-0.27336939	0.16121649	-2.10764366	
TP53	0.27332060	0.16133266	2.10723709	
UEVLD	0.27329529	0.16137698	2.10702622	
PPP2R2B	-0.27326518	0.16143602	-2.10677533	
TMEM22	-0.27324319	0.16147020	-2.10659213	
INO80B	-0.27321315	0.16152906	-2.10634183	
NKD2	-0.27312996	0.16175088	-2.10564874	
PTPRD	-0.27310660	0.16178932	-2.10545413	
DHX35	0.27306877	0.16185762	2.10513907	
SFXN1	0.27306269	0.16185762	2.10508834	
C10orf72	-0.27303676	0.16190397	-2.10487238	
LY6K	-0.27289215	0.16231495	-2.10366785	
SLC25A24	0.27285322	0.16234238	2.10334362	
KPNA1	0.27286583	0.16234238	2.10344862	
SERTAD2	0.27285077	0.16234238	2.10332318	
SLC30A4	-0.27282711	0.16238188	-2.10312612	
AFAP1L2	-0.27276868	0.16252838	-2.10263948	
NME2	-0.27275289	0.16254367	-2.10250804	

SOST	-0.27273462	0.16256663	-2.10235587	
LRFN4	-0.27270599	0.16258825	-2.10211745	
SEMA3E	-0.27270597	0.16258825	-2.10211729	
OR13F1	-0.27268545	0.16261815	-2.10194639	
CEP78	0.27265997	0.16266332	2.10173422	
FBXL7	0.27259103	0.16280911	2.10116015	
SNORD36A	0.27259486	0.16280911	2.10119202	
DR1	0.27252948	0.16296553	2.10064765	
TMEM132D	-0.27249034	0.16301267	-2.10032173	
PLRG1	0.27248179	0.16301267	2.10025053	
MMP27	-0.27248662	0.16301267	-2.10029078	
CDCP1	0.27244132	0.16310419	2.09991360	
OR5D16	-0.27242397	0.16310527	-2.09976916	
NACA	0.27241938	0.16310527	2.09973090	
RHAG	-0.27240580	0.16311385	-2.09961786	
LMTK3	-0.27238677	0.16313611	-2.09945940	
ATP8B1	0.27237700	0.16313611	2.09937808	
STYK1	0.27235978	0.16315594	2.09923475	
THRAP3	0.27234227	0.16317670	2.09908893	yes
C5orf30	0.27229937	0.16327581	2.09873182	
EPHA8	-0.27227491	0.16331802	-2.09852821	
SRCRB4D	-0.27221380	0.16335912	-2.09801948	
C4orf7	-0.27220769	0.16335912	-2.09796869	
KCNJ3	-0.27220994	0.16335912	-2.09798741	
RPL6	0.27222889	0.16335912	2.09814515	
CASP2	0.27223504	0.16335912	2.09819633	
SAMD13	-0.27216676	0.16339146	-2.09762799	
ANKRD52	0.27214532	0.16339146	2.09744949	
AGPAT5	0.27215830	0.16339146	2.09755756	
LOC645877	-0.27214336	0.16339146	-2.09743315	
NUP93	0.27215541	0.16339146	2.09753352	
OPTC	-0.27210065	0.16348526	-2.09707768	
OR52B6	-0.27208069	0.16348526	-2.09691153	

HDHD2	0.27208306	0.16348526	2.09693132	
DSG2	0.27206610	0.16349707	2.09679011	
TRPC4AP	0.27202871	0.16357933	2.09647894	
CABLES2	-0.27192806	0.16385728	-2.09564132	
LOC100131138	-0.27186057	0.16399958	-2.09507962	
C1orf58	0.27186605	0.16399958	2.09512528	yes
C9orf46	0.27182416	0.16407902	2.09477665	
DTNA	-0.27178089	0.16417974	-2.09441660	
FBXO21	0.27176457	0.16419696	2.09428085	
LOC100131112	-0.27167621	0.16443177	-2.09354562	
APCS	-0.27166448	0.16443177	-2.09344808	
SLK	0.27165657	0.16443177	2.09338226	
SLC16A14	-0.27158111	0.16456928	-2.09275441	
ABHD6	0.27159926	0.16456928	2.09290544	yes
WNT1	-0.27158000	0.16456928	-2.09274523	
XRCC5	0.27151170	0.16474802	2.09217697	
TREML2	-0.27149463	0.16476763	-2.09203503	
NELL1	-0.27148138	0.16477541	-2.09192478	
LCE3A	-0.27138356	0.16504614	-2.09111105	
ITPR1	-0.27131751	0.16521824	-2.09056170	
ESPNL	-0.27129546	0.16522917	-2.09037829	
NDUFS4	0.27129250	0.16522917	2.09035371	
CTHRC1	-0.27128041	0.16523338	-2.09025310	
LOC100130924	-0.27125599	0.16527598	-2.09004997	
OR111	-0.27124141	0.16528790	-2.08992877	
OR2B11	-0.27122046	0.16529142	-2.08975455	yes
MAGEA1	-0.27121880	0.16529142	-2.08974072	
NRCAM	-0.27112091	0.16556302	-2.08892657	
NDUFAF1	0.27105355	0.16573965	2.08836642	
UQCR	0.27101945	0.16574551	2.08808294	
HS6ST3	-0.27102047	0.16574551	-2.08809136	
NPBWR1	-0.27103454	0.16574551	-2.08820834	
SLC37A1	0.27096446	0.16588367	2.08762567	

TREML1	-0.27094314	0.16591675	-2.08744833
PTH2	-0.27087829	0.16601873	-2.08690922
UNC13D	-0.27088201	0.16601873	-2.08694008
MAPRE1	0.27088812	0.16601873	2.08699088
MUC20	0.27083737	0.16605062	2.08656892
GRM2	-0.27083591	0.16605062	-2.08655683
JMJD2A	0.27083761	0.16605062	2.08657097
MYH14	0.27079177	0.16615505	2.08618987
RHOC	0.27078069	0.16615619	2.08609770
PAICS	0.27073812	0.16622225	2.08574380
CCDC149	-0.27074142	0.16622225	-2.08577125
hCG_1993592	-0.27066828	0.16640717	-2.08516325
SLC35F1	-0.27063315	0.16644858	-2.08487127
GPR137C	-0.27062864	0.16644858	-2.08483373
TUSC5	-0.27060147	0.16644858	-2.08460793
NUP54	0.27060254	0.16644858	2.08461678
ATAD1	0.27060507	0.16644858	2.08463783
SNORD6	0.27057532	0.16646341	2.08439050
DPF1	-0.27058391	0.16646341	-2.08446191
TMEM65	0.27052650	0.16656001	2.08398476
FGF8	-0.27052304	0.16656001	-2.08395601
LOC100133387	-0.27048224	0.16665398	-2.08361687
EZH2	0.27047163	0.16665398	2.08352868
C15orf52	-0.27045546	0.16667110	-2.08339431
TRIM13	0.27030633	0.16678847	2.08215490
TRIM16	0.27032771	0.16678847	2.08233259
SIRPA	-0.27034945	0.16678847	-2.08251328
FLJ40125	-0.27035879	0.16678847	-2.08259092
GADD45A	0.27029215	0.16678847	2.08203705
GNRH2	-0.27032352	0.16678847	-2.08229781
TESSP2	-0.27031113	0.16678847	-2.08219480
INSC	-0.27031256	0.16678847	-2.08220671
MAP4	-0.27030965	0.16678847	-2.08218251

GPBP1L1	0.27038449	0.16678847	2.08280447	
TSG101	0.27028970	0.16678847	2.08201676	
MTMR1	0.27031344	0.16678847	2.08221403	
ADAM5P	-0.27025244	0.16687176	-2.08170710	
TP53RK	0.27019114	0.16699698	2.08119770	
LOC389137	0.27020114	0.16699698	2.08128084	
LOC389458	-0.27016781	0.16703663	-2.08100391	
ETFA	0.27009943	0.16714120	2.08043569	
SAPS1	0.27004599	0.16714120	2.07999169	
LRP2	-0.27011816	0.16714120	-2.08059132	
MYO7B	-0.27004513	0.16714120	-2.07998458	yes
SERPINA10	-0.27006833	0.16714120	-2.08017735	
DPM3	-0.27011129	0.16714120	-2.08053426	
LRTM2	-0.27007818	0.16714120	-2.08025919	
RNF112	-0.27003845	0.16714120	-2.07992907	
LMAN2L	0.27006650	0.16714120	2.08016212	
MSX1	-0.26999534	0.16714270	-2.07957090	
PRDX1	0.27000826	0.16714270	2.07967821	
BAI2	-0.27000595	0.16714270	-2.07965902	
JOSD1	0.26999964	0.16714270	2.07960666	
FOXD3	-0.26994501	0.16716689	-2.07915275	
NGF	-0.26995706	0.16716689	-2.07925291	
FBXO47	-0.26997395	0.16716689	-2.07939322	
ZBTB3	0.26993437	0.16716689	2.07906442	
GFPT2	-0.26994251	0.16716689	-2.07913199	
LOC100128576	0.26990313	0.16723148	2.07880490	
PPAPDC2	0.26978843	0.16752470	2.07785212	
LOC727726	0.26979839	0.16752470	2.07793483	
RPL29	-0.26975056	0.16761024	-2.07753756	
YARS	0.26972689	0.16765120	2.07734089	
OR52I2	-0.26965388	0.16768859	-2.07673453	
RCAN1	-0.26966177	0.16768859	-2.07680008	
NFATC2	-0.26967907	0.16768859	-2.07694374	

OXT	-0.26966653	0.16768859	-2.07683962	
C21orf91	0.26962990	0.16768859	2.07653535	
MS4A12	-0.26964762	0.16768859	-2.07668253	
C17orf75	0.26967246	0.16768859	2.07688881	yes
HINT2	0.26963187	0.16768859	2.07655171	
PLCL1	-0.26961051	0.16770468	-2.07637436	
GPR173	-0.26959290	0.16770468	-2.07622805	
MID1IP1	0.26959333	0.16770468	2.07623167	
SI	-0.26958155	0.16770694	-2.07613385	
COL11A2	-0.26956070	0.16773910	-2.07596066	
TMEM14E	-0.26952525	0.16781715	-2.07566625	
WDTC1	0.26942445	0.16790879	2.07482923	
TCTN3	0.26941404	0.16790879	2.07474276	
GSTA1	0.26941119	0.16790879	2.07471909	
RBM44	-0.26948463	0.16790879	-2.07532894	
TPRKB	0.26945606	0.16790879	2.07509170	
LINS1	0.26946228	0.16790879	2.07514337	
HCN2	-0.26941811	0.16790879	-2.07477654	
ZNF3	0.26942270	0.16790879	2.07481467	
KIAA1958	-0.26938815	0.16792409	-2.07452777	
ADAMTS18	-0.26934053	0.16792409	-2.07413237	
ASTN2	-0.26937346	0.16792409	-2.07440578	
NAP1L3	-0.26930226	0.16792409	-2.07381463	
PHKG2	0.26934124	0.16792409	2.07413826	
TEX12	-0.26934674	0.16792409	-2.07418394	
KTELC1	0.26932759	0.16792409	2.07402497	
RNPEP	0.26932141	0.16792409	2.07397364	
BLVRB	0.26930033	0.16792409	2.07379864	
EIF3B	0.26931447	0.16792409	2.07391599	
BIRC8	-0.26925017	0.16804761	-2.07338217	
MIF	0.26923987	0.16804761	2.07329666	
CFP	-0.26922628	0.16805704	-2.07318384	
FUSIP1	0.26918249	0.16816152	2.07282024	

GALNT13	-0.26914917	0.16819976	-2.07254362	
HSDL2	0.26915176	0.16819976	2.07256512	
P53AIP1	0.26913644	0.16820653	2.07243791	
LOC151174	-0.26912131	0.16822082	-2.07231238	
ADAMTS15	-0.26908752	0.16822730	-2.07203184	
ARFGAP2	0.26910717	0.16822730	2.07219499	
NCR1	-0.26908878	0.16822730	-2.07204231	
TRAF3	0.26904044	0.16834222	2.07164102	
IQCB1	0.26900372	0.16842457	2.07133618	
AHR	0.26893060	0.16855500	2.07072933	
FGF3	-0.26893142	0.16855500	-2.07073611	
USP46	0.26894363	0.16855500	2.07083745	yes
C20orf94	0.26890416	0.16859527	2.07050983	
PTPRQ	-0.26889669	0.16859527	-2.07044781	
RCAN2	-0.26887352	0.16863499	-2.07025553	
CYP19A1	-0.26883552	0.16868948	-2.06994018	
HHEX	-0.26883511	0.16868948	-2.06993673	
SLC7A13	-0.26875471	0.16876704	-2.06926952	
HINFP	0.26874721	0.16876704	2.06920723	
WDR51B	0.26879940	0.16876704	2.06964038	yes
NUDT2	0.26873661	0.16876704	2.06911929	
LOC390940	0.26873992	0.16876704	2.06914676	
PMS2L1	0.26873906	0.16876704	2.06913958	
CUL3	0.26878331	0.16876704	2.06950681	
ZNF384	-0.26869810	0.16882195	-2.06879968	
CISD1	0.26870118	0.16882195	2.06882525	
KIAA0355	-0.26866590	0.16889025	-2.06853247	
GPHB5	-0.26860815	0.16903922	-2.06805325	
KRTAP13-1	-0.26854858	0.16919404	-2.06755899	
PDE2A	-0.26849404	0.16933308	-2.06710645	
RPS27AP17	-0.26847112	0.16937218	-2.06691633	
C20orf111	0.26845146	0.16940101	2.06675319	
AK5	-0.26843804	0.16941012	-2.06664180	

LDOC1L	0.26841143	0.16946090	2.06642111
BCCIP	0.26838204	0.16952054	2.06617724
SH2D6	-0.26834369	0.16954185	-2.06585906
FLJ45455	-0.26835497	0.16954185	-2.06595263
TIE1	-0.26835403	0.16954185	-2.06594491
OBP2A	-0.26829825	0.16955231	-2.06548211
FAM131C	-0.26830060	0.16955231	-2.06550162
C14orf101	0.26832284	0.16955231	2.06568610
ANO2	-0.26831574	0.16955231	-2.06562721
UBAC2	0.26825421	0.16965833	2.06511680
MSC	-0.26823042	0.16970030	-2.06491948
CEND1	-0.26821494	0.16971598	-2.06479107
IGHV7-81	-0.26819068	0.16972614	-2.06458983
AASDHPPT	0.26820094	0.16972614	2.06467488
CASKIN1	-0.26817710	0.16973584	-2.06447713
MT1G	-0.26815855	0.16976124	-2.06432332
REM1	-0.26813025	0.16981755	-2.06408854
ATP8B2	-0.26807378	0.16996310	-2.06362020
PODXL2	-0.26801253	0.17009057	-2.06311217
NUP155	0.26802146	0.17009057	2.06318624
C8orf40	0.26800179	0.17009129	2.06302309
CEBPE	-0.26798674	0.17010564	-2.06289835
LOC100128979	-0.26795831	0.17016246	-2.06266253
PYDC1	-0.26791931	0.17025281	-2.06233913
OGN	-0.26789094	0.17030947	-2.06210386
ZNF35	0.26784833	0.17041135	2.06175052
ASB11	-0.26773745	0.17059866	-2.06083111
UBXN4	0.26773682	0.17059866	2.06082584
ZNF323	0.26774289	0.17059866	2.06087615
LOC644717	-0.26774971	0.17059866	-2.06093272
TUFM	0.26774485	0.17059866	2.06089247
ASNA1	0.26763405	0.17089198	2.05997378
NMB	-0.26760115	0.17092981	-2.05970103

POU2F2	-0.26760710	0.17092981	-2.05975035	
FAM71B	-0.26759058	0.17093004	-2.05961334	
NPAS4	-0.26757273	0.17095342	-2.05946538	
CHD5	-0.26747418	0.17117699	-2.05864840	
C10orf108	-0.26747518	0.17117699	-2.05865671	
SF3A2	-0.26747101	0.17117699	-2.05862210	
C18orf23	-0.26745698	0.17118824	-2.05850579	
NLRP3	-0.26731099	0.17131917	-2.05729574	
FOXN4	-0.26732493	0.17131917	-2.05741126	
PRUNE2	-0.26737255	0.17131917	-2.05780595	
GAMT	-0.26732185	0.17131917	-2.05738575	
GGT1	-0.26735946	0.17131917	-2.05769745	
METTL5	0.26736400	0.17131917	2.05773509	yes
SYCN	-0.26734771	0.17131917	-2.05760009	
BATF3	-0.26735264	0.17131917	-2.05764090	
UCN2	-0.26735395	0.17131917	-2.05765179	
CD7	-0.26731698	0.17131917	-2.05734537	
RNF126P1	-0.26729306	0.17134291	-2.05714712	
LOC134505	-0.26721532	0.17145848	-2.05650277	
TMTC3	0.26719758	0.17145848	2.05635576	
SLC2A4RG	-0.26718348	0.17145848	-2.05623891	
LOC643406	-0.26718572	0.17145848	-2.05625748	
RPP21	0.26722700	0.17145848	2.05659958	
NRIP1	0.26718903	0.17145848	2.05628491	
SPRYD5	-0.26722603	0.17145848	-2.05659153	
GBA3	-0.26717113	0.17146449	-2.05613654	
CCDC90B	0.26715865	0.17147089	2.05603316	
LOC100130289	-0.26714205	0.17149046	-2.05589555	
APBB2	-0.26709957	0.17152581	-2.05554355	
PRKCB	-0.26710897	0.17152581	-2.05562143	
UBA52	0.26711747	0.17152581	2.05569181	
LOC100133316	-0.26705752	0.17162654	-2.05519506	
LOC100133404	-0.26701980	0.17168013	-2.05488251	yes

PRTG	-0.26702903	0.17168013	-2.05495895	
SLC6A14	0.26699407	0.17172887	2.05466927	
POLR2G	0.26697947	0.17174211	2.05454826	
ILF2	0.26692357	0.17188713	2.05408511	
AMPD3	0.26690457	0.17191443	2.05392765	yes
CABP7	-0.26681372	0.17200434	-2.05317498	
C10orf85	-0.26682940	0.17200434	-2.05330483	
FGFRL1	-0.26684896	0.17200434	-2.05346695	
FLJ10490	-0.26685622	0.17200434	-2.05352710	
LOC728607	0.26682162	0.17200434	2.05324043	
PIP5K1A	0.26682239	0.17200434	2.05324677	
FABP1	-0.26680258	0.17200658	-2.05308268	
POM121L2	-0.26678557	0.17202755	-2.05294176	
SLC12A2	-0.26676161	0.17207075	-2.05274323	
TATDN2	0.26673597	0.17211931	2.05253080	
MED19	-0.26671801	0.17214333	-2.05238206	
PELI1	0.26666299	0.17228582	2.05192628	
ADH7	0.26662646	0.17236926	2.05162367	
WDR23	0.26661320	0.17237830	2.05151380	
EFHD2	0.26659132	0.17241492	2.05133255	
TXNDC2	-0.26657047	0.17244825	-2.05115984	
FBXO28	0.26646639	0.17268121	2.05029778	yes
KCNJ14	-0.26646905	0.17268121	-2.05031982	
SKP2	0.26646766	0.17268121	2.05030826	yes
UGT3A2	-0.26643501	0.17274627	-2.05003789	
PPIL2	0.26641841	0.17274627	2.04990038	
PISD	0.26630967	0.17274627	2.04899984	
TNPO2	0.26628855	0.17274627	2.04882491	
KCNIP2	-0.26630135	0.17274627	-2.04893094	
MGST1	0.26638854	0.17274627	2.04965300	
MYO1D	0.26625695	0.17274627	2.04856323	
METTL9	0.26630797	0.17274627	2.04898577	
C9orf156	0.26626030	0.17274627	2.04859099	

PITX2	-0.26640255	0.17274627	-2.04976905	
UGT1A10	0.26640014	0.17274627	2.04974904	
PPP1R7	0.26635383	0.17274627	2.04936557	
ZC3HAV1	0.26627487	0.17274627	2.04871163	
ZNF304	0.26625400	0.17274627	2.04853882	
DERL1	0.26633961	0.17274627	2.04924779	
FSD1	-0.26628705	0.17274627	-2.04881251	
DOHH	-0.26636888	0.17274627	-2.04949017	
IMMP2L	0.26623885	0.17274627	2.04841338	
ZNF577	-0.26623782	0.17274627	-2.04840484	
TNFRSF10D	-0.26628031	0.17274627	-2.04875666	yes
OSBPL11	0.26613930	0.17276234	2.04758905	
CYB5D2	0.26614534	0.17276234	2.04763908	
EMR1	-0.26614779	0.17276234	-2.04765933	
FKBP1B	-0.26617197	0.17276234	-2.04785958	
PTCH1	-0.26618396	0.17276234	-2.04795881	
HIAT1	0.26621421	0.17276234	2.04820929	
SRI	0.26620533	0.17276234	2.04813581	yes
EEF1E1	0.26618704	0.17276234	2.04798436	
ARMCX2	-0.26616796	0.17276234	-2.04782634	
C12orf67	-0.26609151	0.17277898	-2.04719336	
CYLC2	-0.26609540	0.17277898	-2.04722552	
RAPGEFL1	0.26608221	0.17277898	2.04711634	
ABCD3	0.26612129	0.17277898	2.04743987	
RIN3	-0.26609114	0.17277898	-2.04719024	
C3orf52	0.26605773	0.17282413	2.04691366	yes
RPLP1P4	0.26596045	0.17292503	2.04610824	
CTNNB1	0.26598795	0.17292503	2.04633591	
FTSJ2	0.26595416	0.17292503	2.04605615	
OTOG	-0.26599744	0.17292503	-2.04641445	
TAS2R42	-0.26595364	0.17292503	-2.04605183	
ASIP	-0.26595673	0.17292503	-2.04607748	
HEATR1	0.26598553	0.17292503	2.04631585	

NCAM1	-0.26593767	0.17294298	-2.04591964	
C3orf56	-0.26589266	0.17302933	-2.04554705	
SLC39A9	0.26587962	0.17302933	2.04543908	
ADAMTS4	-0.26588907	0.17302933	-2.04551733	
ACOT9	0.26586694	0.17303676	2.04533415	
OR2A25	-0.26585178	0.17305216	-2.04520864	
LOC100049716	0.26582068	0.17310868	2.04495116	
RNH1	0.26580308	0.17310868	2.04480547	
LOC728847	-0.26580885	0.17310868	-2.04485326	
CCDC80	0.26578640	0.17312894	2.04466744	
TNFSF13B	-0.26571436	0.17324484	-2.04407112	
RNF215	-0.26569851	0.17324484	-2.04393988	
ZBTB7C	0.26572879	0.17324484	2.04419058	
PKIA	-0.26570657	0.17324484	-2.04400664	
KRTAP1-1	-0.26572063	0.17324484	-2.04412302	
ZNF655	0.26566319	0.17332488	2.04364758	
SORBS1	-0.26562417	0.17338205	-2.04332460	
AIM1	0.26563057	0.17338205	2.04337760	
NDUFV3	0.26561434	0.17338205	2.04324328	
OAT	0.26558210	0.17341916	2.04297641	
WDR73	0.26558890	0.17341916	2.04303268	
FLRT2	-0.26556662	0.17343565	-2.04284833	
SNX10	-0.26554449	0.17347349	-2.04266517	
AGPAT6	0.26548245	0.17348641	2.04215173	
IMPA1	0.26545986	0.17348641	2.04196480	yes
MRGPRG	-0.26547411	0.17348641	-2.04208274	
OR2M7	-0.26549120	0.17348641	-2.04222412	
PRX	-0.26551459	0.17348641	-2.04241769	
TPD52	0.26551745	0.17348641	2.04244138	
ZNF702P	0.26545786	0.17348641	2.04194829	
TRPM3	-0.26546821	0.17348641	-2.04203387	
SNORA62	-0.26542958	0.17351094	-2.04171425	
UNKL	-0.26543147	0.17351094	-2.04172984	yes

MED12L	-0.26535767	0.17364141	-2.04111917	
FLJ46481	-0.26533259	0.17364141	-2.04091165	
FLJ35767	-0.26533991	0.17364141	-2.04097224	
FAM82A2	0.26536739	0.17364141	2.04119959	
THY1	-0.26533089	0.17364141	-2.04089760	yes
MYO18B	-0.26532704	0.17364141	-2.04086570	
C10orf110	-0.26527384	0.17377902	-2.04042555	
LOC389895	-0.26524612	0.17383491	-2.04019623	
MEP1A	-0.26521198	0.17391145	-2.03991375	
TM2D2	0.26514191	0.17410347	2.03933403	
TAS2R60	-0.26512888	0.17411224	-2.03922621	
PROM2	0.26505793	0.17428156	2.03863929	
FADS6	-0.26504909	0.17428156	-2.03856614	
TBRG1	0.26504531	0.17428156	2.03853488	
GLE1	0.26500830	0.17434834	2.03822873	
IL12RB1	-0.26500395	0.17434834	-2.03819277	
TMED5	0.26497891	0.17439578	2.03798563	
SC65	-0.26487597	0.17462776	-2.03713413	
ANKRD43	-0.26489651	0.17462776	-2.03730404	
SH3PXD2A	0.26488224	0.17462776	2.03718599	
ZNF480	0.26484955	0.17467969	2.03691564	
OR9G1	-0.26483385	0.17468418	-2.03678577	
BMP3	0.26482758	0.17468418	2.03673386	
SNX22	-0.26472428	0.17498402	-2.03587954	
ARPC3	0.26467704	0.17503683	2.03548886	
CRHBP	-0.26468176	0.17503683	-2.03552794	yes
TBPL1	0.26468921	0.17503683	2.03558951	
VPREB3	-0.26463773	0.17510899	-2.03516381	
CLRN1	-0.26463410	0.17510899	-2.03513380	
PAIP2B	-0.26461333	0.17510965	-2.03496201	
PPEF1	-0.26461705	0.17510965	-2.03499277	
MFSD4	0.26458583	0.17516523	2.03473459	
PPID	0.26457184	0.17517718	2.03461896	

KIAA0776	0.26456112	0.17517862	2.03453028	
ZSCAN10	-0.26454517	0.17519691	-2.03439844	
MIER3	0.26451869	0.17524922	2.03417947	
SNORD37	0.26450235	0.17526883	2.03404430	
C9orf141	-0.26434023	0.17575965	-2.03270393	
POU6F1	-0.26431161	0.17581902	-2.03246732	
HFM1	-0.26425115	0.17586137	-2.03196750	
OR3A1	-0.26425495	0.17586137	-2.03199889	
PAK1	0.26423689	0.17586137	2.03184960	
PCBP1	0.26426491	0.17586137	2.03208128	
PRKCG	-0.26425411	0.17586137	-2.03199198	
BMP7	0.26424178	0.17586137	2.03189006	
OR1K1	-0.26420761	0.17592291	-2.03160757	
ZNF32	0.26416932	0.17601367	2.03129103	
LOC100130507	-0.26405228	0.17620588	-2.03032362	
ABCB6	0.26404842	0.17620588	2.03029170	
KRTAP6-3	-0.26405835	0.17620588	-2.03037378	
MUC6	-0.26405835	0.17620588	-2.03037379	
QRICH1	0.26405703	0.17620588	2.03036292	
EIF2B2	0.26405786	0.17620588	2.03036973	
DEFB126	-0.26403159	0.17622716	-2.03015265	
ADA	-0.26402125	0.17622745	-2.03006712	
POU2F3	-0.26400383	0.17625068	-2.02992314	
KRTAP4-1	-0.26397473	0.17631176	-2.02968267	
G6PD	0.26393462	0.17638973	2.02935117	
P2RX1	-0.26392110	0.17638973	-2.02923943	
FLJ10404	-0.26391993	0.17638973	-2.02922975	yes
APEX2	0.26388230	0.17643867	2.02891876	
PGD	0.26387410	0.17643867	2.02885098	
FAM103A1	0.26387657	0.17643867	2.02887139	
TRAP1	0.26381137	0.17660896	2.02833261	
GART	0.26378282	0.17666839	2.02809667	
OR4C11	-0.26376680	0.17668712	-2.02796433	

MVK	0.26375140	0.17670387	2.02783707	
FAM92A1	-0.26374077	0.17670515	-2.02774919	
PPY	-0.26371235	0.17676419	-2.02751434	
SH3RF1	0.26367891	0.17683954	2.02723806	
MAGEB16	-0.26364205	0.17692604	-2.02693351	
PDE4B	-0.26360925	0.17699766	-2.02666245	
ONECUT2	-0.26359623	0.17699766	-2.02655490	
MTSS1	0.26358931	0.17699766	2.02649772	
ADAD1	-0.26356676	0.17701034	-2.02631142	
OR4S2	-0.26356494	0.17701034	-2.02629640	
CYP2B7P1	0.26354404	0.17704502	2.02612375	
SEMA3G	-0.26350670	0.17711722	-2.02581523	yes
RPGRIP1	-0.26350009	0.17711722	-2.02576059	
FLJ38576	-0.26348093	0.17711722	-2.02560231	
SEMA6D	-0.26348891	0.17711722	-2.02566823	
CES7	-0.26345082	0.17718187	-2.02535362	
DLEU7	-0.26342866	0.17722070	-2.02517054	
KPNA3	0.26339818	0.17723105	2.02491869	
FLJ42957	-0.26340463	0.17723105	-2.02497199	yes
SLC6A3	-0.26339482	0.17723105	-2.02489098	
SH2D3C	-0.26334148	0.17727164	-2.02445036	
FLJ43093	-0.26334193	0.17727164	-2.02445406	
KPRP	-0.26334416	0.17727164	-2.02447248	
PRCC	0.26334507	0.17727164	2.02448005	
CCDC28B	-0.26332357	0.17729670	-2.02430238	
OTOR	-0.26329328	0.17736203	-2.02405220	
PRDX5	0.26323952	0.17750377	2.02360820	
CS	0.26319155	0.17761669	2.02321196	
PLEKHF2	0.26318444	0.17761669	2.02315320	
C11orf73	0.26316637	0.17764229	2.02300399	
MTNR1B	-0.26315516	0.17764557	-2.02291138	
LILRA1	-0.26313901	0.17766492	-2.02277805	
SCGB1C1	-0.26305456	0.17780717	-2.02208056	

C3orf46	-0.26308125	0.17780717	-2.02230099	
PDGFB	-0.26307305	0.17780717	-2.02223326	yes
PTRH2	0.26306335	0.17780717	2.02215320	
EBP	0.26299118	0.17784761	2.02155713	
PTGIS	-0.26300414	0.17784761	-2.02166419	
C16orf52	0.26302582	0.17784761	2.02184325	
USF2	-0.26299129	0.17784761	-2.02155809	
SPATA22	-0.26299633	0.17784761	-2.02159972	
LOC100129278	-0.26294401	0.17786515	-2.02116763	
TPH2	-0.26292205	0.17786515	-2.02098632	
KPNB1	0.26291449	0.17786515	2.02092389	
LMO1	-0.26296888	0.17786515	-2.02137301	
PFKFB2	0.26296524	0.17786515	2.02134299	
PFKL	0.26292774	0.17786515	2.02103328	
ADAMTS10	-0.26293986	0.17786515	-2.02113338	yes
LCN12	-0.26287404	0.17793065	-2.02058985	
CYorf15B	0.26287867	0.17793065	2.02062815	
GPR45	-0.26283532	0.17794877	-2.02027019	
REG3G	-0.26285410	0.17794877	-2.02042525	
SLC24A2	-0.26284290	0.17794877	-2.02033276	
ZNF398	0.26282777	0.17794877	2.02020787	yes
MCAT	0.26276579	0.17798509	2.01969606	
WDR21B	-0.26278193	0.17798509	-2.01982931	
FLJ46838	-0.26280201	0.17798509	-2.01999516	yes
TMPPE	0.26277094	0.17798509	2.01973862	
GPR157	0.26276872	0.17798509	2.01972027	
RSAD1	-0.26274123	0.17799888	-2.01949332	
TMEM48	0.26274623	0.17799888	2.01953460	
LOC442461	-0.26272272	0.17802608	-2.01934053	
TMEM64	0.26268824	0.17807225	2.01905587	
GABPB1	0.26269210	0.17807225	2.01908767	
REG3A	-0.26260976	0.17829515	-2.01840790	
CEACAM3	-0.26257622	0.17837146	-2.01813108	

C13orf16	-0.26254351	0.17843858	-2.01786100	
HMCN2	-0.26251504	0.17843858	-2.01762604	
SYP	-0.26251836	0.17843858	-2.01765347	
C16orf35	0.26252932	0.17843858	2.01774391	
TNPO3	0.26249130	0.17844981	2.01743005	
GUF1	0.26249350	0.17844981	2.01744825	
XPO1	0.26246559	0.17850061	2.01721788	
H2BFM	-0.26242197	0.17857682	-2.01685779	
SLC7A14	-0.26242614	0.17857682	-2.01689223	
OLFM4	-0.26239846	0.17862047	-2.01666377	
CLEC4G	-0.26237798	0.17865424	-2.01649473	
FOLR2	-0.26235370	0.17870043	-2.01629434	
OR5B12	-0.26232924	0.17871408	-2.01609248	
SOHLH2	-0.26233327	0.17871408	-2.01612570	
ATG5	0.26230009	0.17877625	2.01585181	
CRYBA2	-0.26223618	0.17888576	-2.01532441	
LOC200810	0.26225263	0.17888576	2.01546020	
C4orf42	0.26224092	0.17888576	2.01536354	
LMO3	-0.26222460	0.17889047	-2.01522889	
FARS2	0.26219736	0.17893601	2.01500407	
PPP1R12B	-0.26219041	0.17893601	-2.01494673	
ADAM10	0.26214537	0.17898550	2.01457502	
FLT4	-0.26213477	0.17898550	-2.01448752	yes
APOB	-0.26213762	0.17898550	-2.01451107	
DUSP11	0.26214907	0.17898550	2.01460554	
GTPBP4	0.26210745	0.17904174	2.01426210	
C10orf28	0.26209727	0.17904193	2.01417808	
LOC100133345	-0.26198547	0.17915832	-2.01325562	
UNQ5836	-0.26199954	0.17915832	-2.01337170	
COG5	0.26199932	0.17915832	2.01336990	
DIRAS2	-0.26199326	0.17915832	-2.01331992	
DLGAP3	-0.26199668	0.17915832	-2.01334811	
NARG1	0.26200500	0.17915832	2.01341671	

ATP6V0E1	0.26204610	0.17915832	2.01375589	
RICS	0.26198075	0.17915832	2.01321667	yes
SIRPB1	-0.26193822	0.17926443	-2.01286576	
BACH2	-0.26176419	0.17980178	-2.01143001	
IL8RA	-0.26173599	0.17985018	-2.01119741	
ABHD8	-0.26172921	0.17985018	-2.01114148	
CHST6	0.26171753	0.17985171	2.01104511	
CCDC21	0.26170852	0.17985171	2.01097080	
YME1L1	0.26163260	0.17993459	2.01034454	
ALKBH2	0.26162842	0.17993459	2.01031008	
GPR6	-0.26162277	0.17993459	-2.01026347	
SLC35E4	-0.26162221	0.17993459	-2.01025887	
C21orf123	-0.26161253	0.17993459	-2.01017898	
NIPA2	0.26162672	0.17993459	2.01029602	
GLP2R	-0.26161658	0.17993459	-2.01021239	
TMED7	0.26157697	0.18001031	2.00988570	
SLC8A1	-0.26156927	0.18001031	-2.00982213	
OR5D18	-0.26152915	0.18010889	-2.00949131	
POP4	0.26137944	0.18044746	2.00825660	
CEACAM4	-0.26140077	0.18044746	-2.00843252	
TRIM32	0.26137568	0.18044746	2.00822556	
TIMM9	0.26137906	0.18044746	2.00825346	
PRPH	-0.26138252	0.18044746	-2.00828196	
UBA6	0.26136007	0.18046562	2.00809681	
RPS4Y1	0.26134186	0.18049229	2.00794671	
COL4A3BP	0.26128828	0.18057780	2.00750484	
VWCE	-0.26130226	0.18057780	-2.00762010	
RBMS1	-0.26128561	0.18057780	-2.00748281	
UNQ1887	0.26127008	0.18059570	2.00735477	
CFL1	0.26121792	0.18071491	2.00692466	
KCNH2	-0.26121370	0.18071491	-2.00688983	
SNORD83B	-0.26119736	0.18073549	-2.00675514	
ZNF676	-0.26115378	0.18084583	-2.00639577	

SLC2A13	0.26106121	0.18104577	2.00563256	
COX8A	0.26105914	0.18104577	2.00561549	
OLFML3	-0.26107499	0.18104577	-2.00574620	
REPS1	0.26105278	0.18104577	2.00556310	
KLRAQ1	0.26102585	0.18110133	2.00534109	
KCNK9	-0.26100002	0.18115328	-2.00512813	
ZNF593	-0.26097740	0.18119468	-2.00494160	
HLA-DQA2	-0.26095221	0.18124453	-2.00473395	
KCNK3	-0.26090469	0.18132224	-2.00434220	
RDH8	-0.26088837	0.18132224	-2.00420767	
LRRC4	0.26089199	0.18132224	2.00423758	
TSPAN6	0.26091227	0.18132224	2.00440470	
FN1	-0.26085952	0.18138421	-2.00396990	
MTA2	0.26082028	0.18144728	2.00364644	
PKHD1L1	-0.26082798	0.18144728	-2.00370992	yes
OR8J3	-0.26078926	0.18151649	-2.00339070	
SYNPO2	-0.26071477	0.18172931	-2.00277681	
EPHA10	-0.26067055	0.18179721	-2.00241232	
TTC19	0.26066404	0.18179721	2.00235868	
BEST1	-0.26067598	0.18179721	-2.00245702	
LHFPL3	-0.26065337	0.18179921	-2.00227075	
TBX5	-0.26063931	0.18181245	-2.00215483	
DUSP8	-0.26062615	0.18182271	-2.00204636	
ZNF821	-0.26059991	0.18187620	-2.00183013	
LOC100133383	-0.26058697	0.18188573	-2.00172350	
LOC100133327	-0.26056944	0.18189774	-2.00157902	
ARL5A	0.26055318	0.18189774	2.00144499	
IRS4	-0.26055616	0.18189774	-2.00146957	
UBFD1	-0.26051188	0.18200110	-2.00110463	
OR8D2	-0.26049921	0.18200975	-2.00100027	
PTPN14	-0.26042833	0.18221107	-2.00041622	
VPS53	0.26034807	0.18231069	1.99975485	
PTH1R	-0.26037012	0.18231069	-1.99993650	

GREM2	-0.26037079	0.18231069	-1.99994208	
SLC20A1	0.26035238	0.18231069	1.99979033	
SPINK2	-0.26034801	0.18231069	-1.99975439	
YIPF5	0.26033452	0.18232212	1.99964319	
IVNS1ABP	0.26027658	0.18244200	1.99916580	yes
SEZ6L	-0.26027024	0.18244200	-1.99911359	
TMPRSS11D	0.26026821	0.18244200	1.99909684	
DEDD2	0.26025088	0.18246615	1.99895409	
TAAR6	-0.26023850	0.18247390	-1.99885210	
TDRG1	-0.26022505	0.18248524	-1.99874124	
MYPOP	-0.26018680	0.18251528	-1.99842618	
HIST1H3G	0.26020270	0.18251528	1.99855718	
FCAMR	-0.26018588	0.18251528	-1.99841857	
LOC113230	-0.26007339	0.18268872	-1.99749188	
C2orf65	-0.26007916	0.18268872	-1.99753943	
IL28A	-0.26009127	0.18268872	-1.99763916	
RHOA	0.26009466	0.18268872	1.99766712	
C7orf44	0.26010801	0.18268872	1.99777703	
BHLHA9	-0.26008011	0.18268872	-1.99754726	
XPNPEP2	-0.26004078	0.18276364	-1.99722320	
FILIP1L	-0.25998508	0.18279011	-1.99676441	
PDIK1L	0.25998299	0.18279011	1.99674722	yes
VGLL2	-0.26000982	0.18279011	-1.99696824	
IBTK	0.26001281	0.18279011	1.99699283	
LRCH2	-0.25995608	0.18279011	-1.99652559	
ROBO3	-0.25997582	0.18279011	-1.99668815	
ARL14	-0.25996813	0.18279011	-1.99662477	
UNC93B1	0.25995265	0.18279011	1.99649730	
ITPR2	-0.25991335	0.18286623	-1.99617359	
BCL2	-0.25990968	0.18286623	-1.99614337	
PP1E	0.25985472	0.18295276	1.99569072	
CLC	-0.25984386	0.18295276	-1.99560129	
TAC4	-0.25984357	0.18295276	-1.99559885	

TBC1D22A	0.25985234	0.18295276	1.99567107	
ZNF134	0.25983244	0.18295647	1.99550724	
DEFB128	-0.25982226	0.18295708	-1.99542334	
ANKRD18B	0.25979431	0.18298567	1.99519313	
HMP19	-0.25978364	0.18298567	-1.99510530	
OR12D3	-0.25978699	0.18298567	-1.99513289	
ATP5J2	0.25973994	0.18309752	1.99474542	
PRDM5	-0.25969363	0.18311853	-1.99436405	
PLCE1	0.25969594	0.18311853	1.99438303	
DEPDC6	-0.25969711	0.18311853	-1.99439264	
LASS5	0.25970231	0.18311853	1.99443554	
RPL29P15	-0.25966381	0.18318436	-1.99411849	
DENND3	-0.25962934	0.18326566	-1.99383462	
LUZP2	-0.25961615	0.18327631	-1.99372596	
ATP5S	0.25958287	0.18334122	1.99345191	
CCRL1	-0.25957663	0.18334122	-1.99340055	
LOC100128178	-0.25954663	0.18334439	-1.99315356	
OPN1LW	-0.25954788	0.18334439	-1.99316382	
CAPZA1	0.25954013	0.18334439	1.99310003	
EIF3A	0.25953574	0.18334439	1.99306386	
EIF2B1	0.25949939	0.18343198	1.99276461	
TIMM13	0.25945730	0.18343766	1.99241800	
OR7A5	-0.25947820	0.18343766	-1.99259012	
LOC100133422	0.25946840	0.18343766	1.99250938	yes
BCAT1	-0.25946071	0.18343766	-1.99244614	
ZBTB47	-0.25944780	0.18343766	-1.99233981	
UPF3A	-0.25941606	0.18351000	-1.99207848	
LACRT	-0.25937427	0.18361575	-1.99173445	
CKAP4	-0.25935610	0.18363902	-1.99158485	
SYT16	-0.25933894	0.18363902	-1.99144359	
PHYHIPL	-0.25933737	0.18363902	-1.99143061	
SLC35A5	0.25931426	0.18368269	1.99124043	
LOC100131510	-0.25925744	0.18380542	-1.99077259	

TARS2	0.25925987	0.18380542	1.99079265	
UNQ6484	-0.25922028	0.18383508	-1.99046672	
LRPPRC	0.25919131	0.18383508	1.99022822	
TRIM58	-0.25920401	0.18383508	-1.99033283	
KCNG2	-0.25918876	0.18383508	-1.99020723	
SLC22A25	-0.25920727	0.18383508	-1.99035967	
C10orf113	0.25920914	0.18383508	1.99037504	
SAMD14	-0.25902420	0.18391924	-1.98885277	
KLHDC10	0.25905478	0.18391924	1.98910449	yes
ANKRD28	0.25904929	0.18391924	1.98905926	
MDFIC	-0.25908230	0.18391924	-1.98933101	
HNF4A	-0.25906741	0.18391924	-1.98920843	
RXFP4	-0.25908271	0.18391924	-1.98933436	
TM4SF1	0.25911957	0.18391924	1.98963775	
PLUNC	-0.25906146	0.18391924	-1.98915942	
PRPF40A	0.25906545	0.18391924	1.98919228	
CTXN3	-0.25902885	0.18391924	-1.98889106	
RTN2	-0.25906828	0.18391924	-1.98921561	
THRB	0.25904012	0.18391924	1.98898382	
MTMR3	0.25910030	0.18391924	1.98947911	
SPATA2	-0.25908732	0.18391924	-1.98937231	
HEY2	0.25899598	0.18398005	1.98862054	
DOPEY1	0.25897987	0.18399769	1.98848788	yes
TBC1D24	-0.25897081	0.18399769	-1.98841339	
RAB26	-0.25894475	0.18405136	-1.98819891	
RGS18	-0.25889830	0.18413503	-1.98781660	
CALCR	-0.25889156	0.18413503	-1.98776117	
USP11	0.25887989	0.18413503	1.98766513	
C1orf156	0.25888560	0.18413503	1.98771206	
HIPK3	0.25876471	0.18415034	1.98671730	yes
PKDREJ	-0.25870087	0.18415034	-1.98619197	
RUVBL2	0.25882233	0.18415034	1.98719144	
SFT2D1	0.25880942	0.18415034	1.98708521	

DEFA6	-0.25871773	0.18415034	-1.98633070	
DSG3	0.25867695	0.18415034	1.98599514	
ACAD8	0.25877974	0.18415034	1.98684092	
C1orf104	-0.25867432	0.18415034	-1.98597350	
MED4	0.25875442	0.18415034	1.98663262	
OR2A12	-0.25875083	0.18415034	-1.98660309	
C2orf80	-0.25864734	0.18415034	-1.98575150	
NOP16	0.25881381	0.18415034	1.98712131	
VTA1	0.25865386	0.18415034	1.98580514	yes
ZNF167	-0.25866781	0.18415034	-1.98591991	
RIT1	0.25878793	0.18415034	1.98690837	
RPL3L	-0.25873548	0.18415034	-1.98647674	
LOC645195	-0.25867851	0.18415034	-1.98600798	
LOC730167	-0.25873538	0.18415034	-1.98647590	
WNT7A	-0.25865044	0.18415034	-1.98577707	
GJA10	-0.25866379	0.18415034	-1.98588685	
C9orf3	0.25869285	0.18415034	1.98612597	
RDH16	-0.25880629	0.18415034	-1.98705945	
CCDC102A	-0.25875583	0.18415034	-1.98664423	
VWA1	-0.25863123	0.18417102	-1.98561894	yes
WNK3	-0.25857506	0.18432501	-1.98515682	
CHD4	0.25854657	0.18433319	1.98492246	
ID1	0.25854293	0.18433319	1.98489246	
OR4D9	-0.25856085	0.18433319	-1.98503990	
MYO1A	-0.25852384	0.18436381	-1.98473543	
STYXL1	0.25850028	0.18437642	1.98454158	
BSND	-0.25850918	0.18437642	-1.98461481	
SERAC1	0.25846258	0.18446904	1.98423142	
PRKRIP1	-0.25844865	0.18448250	-1.98411685	
METAP1	0.25843181	0.18450567	1.98397832	
EIF1	0.25838852	0.18453612	1.98362221	
CCDC116	-0.25840523	0.18453612	-1.98375965	
ZCCHC13	-0.25836629	0.18453612	-1.98343932	

NFKBIL2	-0.25837645	0.18453612	-1.98352293	
ANKRD5	0.25836340	0.18453612	1.98341554	
CD5L	-0.25837296	0.18453612	-1.98349423	
C17orf77	-0.25835121	0.18454381	-1.98331532	
WDR1	0.25832355	0.18460307	1.98308775	
CLCNKB	-0.25818749	0.18475043	-1.98196867	
ERCC4	0.25815109	0.18475043	1.98166929	
SACM1L	0.25819501	0.18475043	1.98203054	
WDR47	0.25815355	0.18475043	1.98168950	yes
SMG1	0.25816988	0.18475043	1.98182381	
GPR124	-0.25818079	0.18475043	-1.98191352	yes
TMED8	0.25821216	0.18475043	1.98217160	
OTOP3	-0.25817964	0.18475043	-1.98190411	
MARS	0.25819341	0.18475043	1.98201732	
ITFG2	0.25815819	0.18475043	1.98172765	
SLIT3	-0.25823122	0.18475043	-1.98232835	
BRD3	-0.25824750	0.18475043	-1.98246224	
REEP4	0.25823525	0.18475043	1.98236147	
IGDCC4	-0.25806190	0.18501490	-1.98093575	
C10orf119	0.25803597	0.18506850	1.98072256	
STAB2	-0.25801180	0.18511626	-1.98052379	
LHX5	-0.25799057	0.18515423	-1.98034920	
SPINT2	0.25793969	0.18529119	1.97993076	
EIF2S1	0.25788452	0.18536006	1.97947716	
ALDH1A1	0.25789103	0.18536006	1.97953068	
SVIL	-0.25787972	0.18536006	-1.97943762	
SLC35E2	0.25787966	0.18536006	1.97943718	
VWDE	-0.25785234	0.18538553	-1.97921254	
MYO7A	-0.25785710	0.18538553	-1.97925166	
FECH	0.25783819	0.18539992	1.97909617	
NTAN1	-0.25780587	0.18542248	-1.97883045	
ZNF652	-0.25780319	0.18542248	-1.97880838	
LAMB3	0.25778519	0.18542248	1.97866043	

C14orf104	0.25780086	0.18542248	1.97878920	
SELI	0.25778223	0.18542248	1.97863607	
CCT4	0.25771045	0.18562086	1.97804593	
TNFRSF4	-0.25770318	0.18562086	-1.97798613	
CLDN24	-0.25766689	0.18570928	-1.97768780	
PFDN2	-0.25765503	0.18571607	-1.97759025	
HTR3D	-0.25757981	0.18583609	-1.97697189	
ZWILCH	0.25759049	0.18583609	1.97705971	
LOC642648	-0.25758928	0.18583609	-1.97704975	
CCDC54	-0.25758693	0.18583609	-1.97703041	
MMADHC	0.25752974	0.18597072	1.97656030	
EPHA4	0.25749344	0.18602643	1.97626189	
ZNF826	-0.25750115	0.18602643	-1.97632528	
RPA2	0.25746794	0.18607888	1.97605231	
SERPING1	-0.25745805	0.18607911	-1.97597098	
ALPP	-0.25742303	0.18609766	-1.97568319	
ZKSCAN1	0.25742853	0.18609766	1.97572840	
IRS2	-0.25742883	0.18609766	-1.97573082	
LOC100127971	-0.25728257	0.18610803	-1.97452873	
TRIM31	0.25731534	0.18610803	1.97479803	
PLD6	-0.25728844	0.18610803	-1.97457693	
SATB2	-0.25732605	0.18610803	-1.97488604	
GBA	0.25728301	0.18610803	1.97453235	
ITGA2B	-0.25729915	0.18610803	-1.97466501	
PAGE2B	-0.25738940	0.18610803	-1.97540677	
MFAP3	0.25734920	0.18610803	1.97507635	
SCARNA1	-0.25733963	0.18610803	-1.97499765	
LOC728613	-0.25729166	0.18610803	-1.97460344	
ZBTB16	-0.25732724	0.18610803	-1.97489588	
CASP8	0.25734903	0.18610803	1.97507497	
ZNF845	0.25730086	0.18610803	1.97467905	
VAPA	0.25738723	0.18610803	1.97538889	yes
PRPH2	-0.25725862	0.18612258	-1.97433191	

VARS	0.25726283	0.18612258	1.97436647	
USP50	-0.25716000	0.18642000	-1.97352142	
FABP3	-0.25714876	0.18642480	-1.97342909	
ACER3	0.25708260	0.18659758	1.97288538	
HIST1H2BN	-0.25707762	0.18659758	-1.97284445	
CRIP1	0.25703590	0.18663891	1.97250167	
SCTR	-0.25704304	0.18663891	-1.97256029	
RGS9	-0.25704734	0.18663891	-1.97259565	
FAR1	0.25701077	0.18669034	1.97229517	
FLJ36070	-0.25697514	0.18677700	-1.97200241	
DEFB125	-0.25695753	0.18680324	-1.97185769	
CBFA2T3	-0.25686616	0.18707709	-1.97110703	
MRPL32	0.25685354	0.18708658	1.97100336	
ARNT2	-0.25682719	0.18714223	-1.97078683	
NPPA	-0.25678987	0.18721188	-1.97048024	
C19orf2	0.25678688	0.18721188	1.97045566	
GALNT3	0.25668124	0.18750125	1.96958791	
C7orf52	-0.25668492	0.18750125	-1.96961808	
EEF1A2	-0.25664068	0.18760480	-1.96925473	
GNG7	-0.25661075	0.18767260	-1.96900888	
RPS7P4	-0.25656492	0.18776102	-1.96863243	
LOC388199	-0.25656933	0.18776102	-1.96866867	
OR52N2	-0.25651606	0.18789224	-1.96823106	
ZP2	-0.25650640	0.18789224	-1.96815176	
NOX4	-0.25648803	0.18792118	-1.96800086	
CHIA	-0.25646401	0.18795226	-1.96780355	
SERINC4	-0.25645924	0.18795226	-1.96776443	
ANXA2P1	0.25642827	0.18799072	1.96751006	
CRIM1	-0.25643125	0.18799072	-1.96753457	
PITPNM2	-0.25640930	0.18802169	-1.96735429	yes
RPS25	0.25637950	0.18808921	1.96710951	
CHAD	-0.25628547	0.18834045	-1.96633732	
ANK1	-0.25629457	0.18834045	-1.96641210	

TOR1B	0.25627224	0.18835208	1.96622874
DMP1	-0.25622070	0.18847633	-1.96580547
FOXG1	-0.25619882	0.18847633	-1.96562585
TMEM14A	0.25619124	0.18847633	1.96556360
APLP2	0.25619222	0.18847633	1.96557161
PPA1	0.25618658	0.18847633	1.96552530
C15orf40	0.25612604	0.18847856	1.96502819
LTB4R	0.25607854	0.18847856	1.96463821
PLA2G2D	-0.25612757	0.18847856	-1.96504078
GNG4	-0.25614288	0.18847856	-1.96516651
AMDHD2	-0.25617587	0.18847856	-1.96543737
MED1	0.25608228	0.18847856	1.96466895
SLC25A40	0.25614690	0.18847856	1.96519952
ZNF69	-0.25616224	0.18847856	-1.96532549
ZDHHC14	-0.25608560	0.18847856	-1.96469617
KREMEN1	0.25611215	0.18847856	1.96491419
BSN	-0.25609285	0.18847856	-1.96475567
ZNF683	-0.25606435	0.18849353	-1.96452169
UNQ5814	-0.25604351	0.18850489	-1.96435061
GARNL4	-0.25604148	0.18850489	-1.96433395
C2orf21	-0.25595950	0.18872879	-1.96366087
LPGAT1	0.25595567	0.18872879	1.96362949
NEUROG1	-0.25593543	0.18876424	-1.96346330
SLC38A11	-0.25592448	0.18876830	-1.96337343
CHRNA2	-0.25590585	0.18879831	-1.96322048
C19orf26	-0.25587816	0.18885896	-1.96299315
ATP6V1F	0.25585993	0.18888763	1.96284352
TRAF3IP2	0.25577685	0.18894467	1.96216154
NEU3	-0.25580372	0.18894467	-1.96238208
TARSL2	-0.25580066	0.18894467	-1.96235695
EN2	-0.25578081	0.18894467	-1.96219402
F10	-0.25582678	0.18894467	-1.96257141
IL17D	-0.25577488	0.18894467	-1.96214534

ZNF468	0.25578075	0.18894467	1.96219356	
HEXA	0.25572498	0.18904753	1.96173580	
PEX1	0.25573409	0.18904753	1.96181055	
ADRA1B	-0.25570136	0.18907007	-1.96154191	
SLC4A11	0.25569885	0.18907007	1.96152132	
BEGAIN	-0.25564712	0.18921213	-1.96109672	
C2orf37	0.25560218	0.18933128	1.96072790	
OR5K3	-0.25556508	0.18937387	-1.96042336	
OR51B2	-0.25556961	0.18937387	-1.96046056	
HPDL	-0.25556041	0.18937387	-1.96038509	
ISG20	0.25553296	0.18943387	1.96015982	
MEP1B	-0.25551095	0.18947550	-1.95997913	yes
FLJ44817	-0.25547982	0.18954798	-1.95972371	
ZNF555	-0.25546060	0.18958014	-1.95956599	
HELLS	0.25544025	0.18961585	1.95939895	
TRADD	0.25543062	0.18961585	1.95931993	
PRR14	-0.25541316	0.18964205	-1.95917670	
ARFGEF1	0.25534128	0.18973187	1.95858680	
RAB3C	-0.25533261	0.18973187	-1.95851573	
CRKL	0.25534520	0.18973187	1.95861903	
NTSR2	-0.25532836	0.18973187	-1.95848083	
C1orf106	0.25533339	0.18973187	1.95852212	
ASAM	-0.25533840	0.18973187	-1.95856321	
CCDC88C	0.25526854	0.18990175	1.95798998	
DEFB137	-0.25524595	0.18994543	-1.95780461	
USP14	0.25521522	0.19001671	1.95755254	
CYB561D2	0.25519219	0.19003269	1.95736355	
GABRA5	-0.25519109	0.19003269	-1.95735456	
MUC3A	-0.25515772	0.19011299	-1.95708076	
MBOAT7	0.25512496	0.19019123	1.95681202	
GLT8D2	-0.25508592	0.19029083	-1.95649174	
PRPS1L1	-0.25499457	0.19056827	-1.95574233	
C15orf32	-0.25496103	0.19059748	-1.95546723	

PPP4R2	0.25491848	0.19059748	1.95511815	
KIAA0746	0.25495850	0.19059748	1.95544644	
DRG1	0.25493918	0.19059748	1.95528797	
MOSC1	-0.25491805	0.19059748	-1.95511464	
TNP2	-0.25491926	0.19059748	-1.95512460	
SLC6A5	-0.25493062	0.19059748	-1.95521771	
C1orf216	-0.25480940	0.19081562	-1.95422344	
DEFA4	-0.25480934	0.19081562	-1.95422298	
DNAJC18	-0.25478604	0.19081562	-1.95403186	
ABTB2	-0.25480324	0.19081562	-1.95417292	
C2orf46	-0.25481149	0.19081562	-1.95424060	
MEFV	-0.25479098	0.19081562	-1.95407241	
SCNN1B	0.25483957	0.19081562	1.95447094	
ANO5	-0.25473734	0.19088632	-1.95363249	
KRT34	-0.25474231	0.19088632	-1.95367325	
PIGT	0.25472650	0.19088632	1.95354357	
FAM70A	-0.25473459	0.19088632	-1.95360991	
RLTPR	-0.25471117	0.19090553	-1.95341781	
PRSS21	-0.25466181	0.19104057	-1.95301303	
OLIG3	-0.25464427	0.19106731	-1.95286919	
WDFY2	0.25459987	0.19109283	1.95250505	
TLCD1	0.25459805	0.19109283	1.95249012	
RACGAP1	0.25461148	0.19109283	1.95260026	
DCTPP1	0.25462401	0.19109283	1.95270304	
SHANK2	-0.25456165	0.19112578	-1.95219166	
HEBP2	0.25455934	0.19112578	1.95217268	yes
ZCCHC3	-0.25457826	0.19112578	-1.95232785	
CUX2	-0.25454332	0.19114738	-1.95204133	
TMEM19	0.25452788	0.19116699	1.95191477	
DACH2	-0.25449156	0.19120033	-1.95161689	
CD300LF	-0.25447941	0.19120033	-1.95151729	
LOC387825	-0.25448443	0.19120033	-1.95155842	
LOC389634	-0.25448539	0.19120033	-1.95156636	

CTBP2	0.25446124	0.19122930	1.95136827	
DHRS2	-0.25443978	0.19124130	-1.95119231	
PROKR1	-0.25439973	0.19124130	-1.95086395	
AK3L1	-0.25442898	0.19124130	-1.95110381	
C6orf66	0.25440374	0.19124130	1.95089683	
KHDC1	-0.25442331	0.19124130	-1.95105732	
VPS26A	0.25440543	0.19124130	1.95091070	
CLCN1	-0.25437569	0.19129028	-1.95066685	
GRIN2D	-0.25435831	0.19131659	-1.95052432	
POLR3H	0.25434319	0.19133517	1.95040041	
KLHDC3	0.25429663	0.19140610	1.95001869	
PNMT	-0.25430672	0.19140610	-1.95010137	
PTGS1	-0.25429341	0.19140610	-1.94999225	
NRBP1	0.25428135	0.19141429	1.94989340	
SH3RF3	-0.25424194	0.19148280	-1.94957032	
ITGA8	-0.25424391	0.19148280	-1.94958647	
CYP11B2	-0.25419368	0.19151165	-1.94917468	
H2BFWT	-0.25420231	0.19151165	-1.94924541	
TRIM2	0.25421663	0.19151165	1.94936279	yes
ANKMY2	0.25418814	0.19151165	1.94912927	
UBE2Z	0.25418524	0.19151165	1.94910552	
MS4A15	-0.25415445	0.19158374	-1.94885306	
PAK2	0.25410347	0.19172467	1.94843517	
JARID1B	0.25406937	0.19180810	1.94815565	
LOC400986	0.25405792	0.19181425	1.94806184	
CPAMD8	-0.25404308	0.19183200	-1.94794017	
KCNG1	-0.25400896	0.19184975	-1.94766052	
KRTAP10-9	-0.25401893	0.19184975	-1.94774219	
CFLAR	0.25400945	0.19184975	1.94766448	
CDH12	-0.25395363	0.19193994	-1.94720697	
GDPD5	-0.25397135	0.19193994	-1.94735220	
LRBA	0.25395477	0.19193994	1.94721632	yes
LOC100133397	-0.25390981	0.19196550	-1.94684784	yes

RP2	0.25393198	0.19196550	1.94702957	yes
SIGLEC1	-0.25390761	0.19196550	-1.94682985	
CCND2	-0.25391994	0.19196550	-1.94693086	
PCDH19	-0.25388495	0.19200998	-1.94664413	
SLC25A13	0.25385198	0.19207465	1.94637391	
FANCB	-0.25383713	0.19207465	-1.94625221	
TMEM119	-0.25384606	0.19207465	-1.94632534	
CSMD2	-0.25377602	0.19211490	-1.94575141	
AK2P2	-0.25378975	0.19211490	-1.94586391	
OR52N5	-0.25376762	0.19211490	-1.94568257	
FAM180B	-0.25377262	0.19211490	-1.94572353	
PECAM1	-0.25378051	0.19211490	-1.94578821	
TAC3	-0.25380561	0.19211490	-1.94599388	
TRIM6	-0.25373762	0.19211886	-1.94543671	
FYTTD1	0.25374475	0.19211886	1.94549510	yes
SIGLEC6	-0.25374027	0.19211886	-1.94545844	
IGHE	-0.25366190	0.19232651	-1.94481621	
OR4N5	-0.25362876	0.19232651	-1.94454464	
C2orf64	0.25364630	0.19232651	1.94468842	
DPPA4	-0.25363153	0.19232651	-1.94456736	
SNORA71D	-0.25363912	0.19232651	-1.94462955	
COL9A1	-0.25358037	0.19245902	-1.94414812	
PIR	0.25350961	0.19266806	1.94356842	
CNNM4	0.25347732	0.19274568	1.94330382	
C18orf20	-0.25346402	0.19275831	-1.94319485	
ALOX12B	-0.25344095	0.19276159	-1.94300584	
C6orf174	-0.25344067	0.19276159	-1.94300354	
NDUFV1	0.25343425	0.19276159	1.94295095	
STK11IP	0.25341530	0.19279355	1.94279575	
YWHAQ	0.25338783	0.19285470	1.94257069	
IMPACT	0.25337602	0.19286228	1.94247390	
ST8SIA5	-0.25335731	0.19289345	-1.94232067	
IRAK4	0.25334534	0.19290158	1.94222259	

BFAR	0.25332736	0.19293028	1.94207528	
EFNA4	0.25329387	0.19301208	1.94180094	
TSPAN17	0.25326255	0.19308493	1.94154437	
P4HA3	-0.25325340	0.19308493	-1.94146946	
LTC4S	-0.25323508	0.19311483	-1.94131939	
FTCD	-0.25322258	0.19312479	-1.94121700	
PPP1R12C	-0.25314451	0.19335944	-1.94057752	yes
FMO1	-0.25311481	0.19342840	-1.94033423	
C1orf2	-0.25310256	0.19343753	-1.94023388	
SAMD11	-0.25307850	0.19345086	-1.94003687	
IL19	-0.25306991	0.19345086	-1.93996646	
TCF15	-0.25307714	0.19345086	-1.94002568	
OR4F15	-0.25305743	0.19346075	-1.93986431	
GRIN2C	-0.25304780	0.19346094	-1.93978536	
HSD11B1	-0.25301591	0.19353742	-1.93952424	
RNF139	0.25294783	0.19373813	1.93896671	
TP53I3	0.25286090	0.19400381	1.93825475	
ZCCHC18	-0.25283497	0.19405998	-1.93804244	
NEU1	0.25278648	0.19419374	1.93764538	
AP4E1	0.25274575	0.19427281	1.93731188	
ZNF705A	-0.25272516	0.19427281	-1.93714329	
METT10D	0.25274058	0.19427281	1.93726954	
RAB34	0.25272560	0.19427281	1.93714689	
GPR108	0.25266583	0.19436585	1.93665746	
C15orf45	-0.25267230	0.19436585	-1.93671046	
RPL29P30	-0.25266784	0.19436585	-1.93667392	
BAP1	0.25265980	0.19436585	1.93660816	
ALPK3	-0.25263021	0.19443473	-1.93636587	
PRMT2	0.25261854	0.19444194	1.93627034	
CCNY	0.25259778	0.19447300	1.93610039	yes
OR6M1	-0.25258722	0.19447300	-1.93601386	
SFRS3	0.25258081	0.19447300	1.93596138	
DDX5	0.25256198	0.19450484	1.93580729	

TRBV7-9	-0.25254792	0.19452032	-1.93569214	
GPR116	-0.25253353	0.19453691	-1.93557436	
KRT13	0.25250563	0.19460001	1.93534597	
HPSE2	-0.25247188	0.19468331	-1.93506963	
PDIA6	0.25245165	0.19472005	1.93490401	
CLEC11A	-0.25242252	0.19478743	-1.93466559	yes
TRIM65	-0.25237407	0.19492145	-1.93426896	
CCL16	-0.25234532	0.19498758	-1.93403366	
COL22A1	-0.25231886	0.19503470	-1.93381702	
MRGPRX1	-0.25231253	0.19503470	-1.93376527	
ANKRD19	-0.25228184	0.19504333	-1.93351401	
C9orf78	0.25228135	0.19504333	1.93351006	
TPR	0.25229146	0.19504333	1.93359278	
FLJ32063	-0.25223938	0.19514119	-1.93316650	
TBC1D9B	0.25222431	0.19514119	1.93304319	
NCOA4	0.25223116	0.19514119	1.93309923	
BIN1	-0.25220470	0.19514295	-1.93288264	
ZNF207	0.25220606	0.19514295	1.93289381	
PM20D1	-0.25212223	0.19518228	-1.93220770	
PART1	-0.25212144	0.19518228	-1.93220124	
MPP1	-0.25210739	0.19518228	-1.93208622	
COPS4	0.25211009	0.19518228	1.93210836	
TLE4	0.25213939	0.19518228	1.93234813	yes
RP1-27O5.1	-0.25216663	0.19518228	-1.93257105	
KLF11	-0.25215568	0.19518228	-1.93248142	
ZNF496	-0.25215056	0.19518228	-1.93243954	
ZFAND2A	0.25211821	0.19518228	1.93217482	
UNQ9391	-0.25206842	0.19522740	-1.93176730	
PLAG1	-0.25207272	0.19522740	-1.93180255	
PPBP	-0.25206569	0.19522740	-1.93174495	
SPACA3	-0.25201429	0.19523200	-1.93132437	
CSF2	-0.25205199	0.19523200	-1.93163290	
LOC346329	-0.25203193	0.19523200	-1.93146868	

OR13C2	-0.25199763	0.19523200	-1.93118803
SLC5A5	-0.25200496	0.19523200	-1.93124801
NUBPL	0.25200786	0.19523200	1.93127173
TCL1B	-0.25200906	0.19523200	-1.93128156
LAYN	0.25195971	0.19523530	1.93087775
CNOT2	0.25198682	0.19523530	1.93109956
SIX3	-0.25195857	0.19523530	-1.93086842
TP53I13	-0.25196425	0.19523530	-1.93091489
SNORD115-33	-0.25189732	0.19526470	-1.93036717
TGDS	0.25193011	0.19526470	1.93063554
POLG	0.25190934	0.19526470	1.93046558
OR4K5	-0.25189293	0.19526470	-1.93033132
MED28	0.25192625	0.19526470	1.93060396
SRPX	-0.25191531	0.19526470	-1.93051441
ZNF584	0.25180940	0.19552000	1.92964786
TPD52L3	-0.25179615	0.19553290	-1.92953942
SLC22A12	-0.25177182	0.19554470	-1.92934033
CRYBA1	-0.25176499	0.19554470	-1.92928445
HSP90AB1	0.25176419	0.19554470	1.92927794
GLOD5	-0.25173459	0.19561404	-1.92903576
C12orf42	-0.25171084	0.19565665	-1.92884149
LOC645769	-0.25170323	0.19565665	-1.92877916
IMPDH1	-0.25168094	0.19570078	-1.92859682
ZNF549	-0.25160106	0.19591100	-1.92794335
TSSK3	-0.25160674	0.19591100	-1.92798984
ARHGEF10	-0.25157645	0.19596318	-1.92774207
TSFM	0.25154197	0.19603068	1.92745993
LOC728285	-0.25153792	0.19603068	-1.92742682
KLHL12	0.25150256	0.19612005	1.92713762
LOC100133322	-0.25144409	0.19616044	-1.92665931
NCOA2	0.25143388	0.19616044	1.92657586
FLJ25006	0.25145125	0.19616044	1.92671791
LOC727721	-0.25143897	0.19616044	-1.92661744

C14orf142	0.25145035	0.19616044	1.92671049	
C1orf97	0.25146737	0.19616044	1.92684977	
PLAC4	-0.25142428	0.19616081	-1.92649730	
ZNF24	0.25141155	0.19617200	1.92639319	
FLJ38379	-0.25138323	0.19620427	-1.92616157	
KIAA0196	0.25138611	0.19620427	1.92618506	
COLEC10	-0.25133940	0.19625741	-1.92580304	
ME3	0.25135680	0.19625741	1.92594537	
PPL	0.25134114	0.19625741	1.92581730	
LOC283174	-0.25128664	0.19638263	-1.92537158	
LAPTM4B	0.25128423	0.19638263	1.92535180	
FKBP4	0.25125245	0.19639411	1.92509195	
KLK5	-0.25126770	0.19639411	-1.92521667	
LHFPL1	-0.25126135	0.19639411	-1.92516474	
SUB1	0.25121510	0.19645547	1.92478651	
REM2	-0.25122077	0.19645547	-1.92483281	
XKR6	-0.25120628	0.19645547	-1.92471431	yes
PHF1	-0.25119677	0.19645556	-1.92463658	
NRBF2	-0.25118141	0.19647590	-1.92451099	
RPL13AP17	-0.25115213	0.19647887	-1.92427151	
ASB18	-0.25116867	0.19647887	-1.92440675	
SNRNP40	0.25115509	0.19647887	1.92429576	
RPS26	-0.25113972	0.19648904	-1.92417002	
COMMD4	-0.25104519	0.19678353	-1.92339700	
ACY1	0.25102221	0.19683031	1.92320914	
SAP18	0.25087284	0.19692631	1.92198788	
FERMT2	-0.25083391	0.19692631	-1.92166961	
OR5P3	-0.25083154	0.19692631	-1.92165017	
IMP5	-0.25094369	0.19692631	-1.92256710	
HEY1	0.25086588	0.19692631	1.92193093	
ABI3BP	-0.25097309	0.19692631	-1.92280752	
INTS7	0.25083834	0.19692631	1.92170581	
HCN3	-0.25095996	0.19692631	-1.92270013	

SET	0.25086935	0.19692631	1.92195933
SEC1	-0.25093809	0.19692631	-1.92252132
TTF1	0.25087420	0.19692631	1.92199893
PCGF2	-0.25091489	0.19692631	-1.92233165
FYCO1	0.25082419	0.19692631	1.92159008
TMEM87B	0.25096691	0.19692631	1.92275696
SLC35B4	0.25089780	0.19692631	1.92219195
KAT2B	-0.25091197	0.19692631	-1.92230775
HIST1H3F	0.25092157	0.19692631	1.92238626
RBX1	0.25085933	0.19692631	1.92187739
NAT8B	-0.25075806	0.19705721	-1.92104946
ROM1	-0.25075839	0.19705721	-1.92105220
TSHB	-0.25077310	0.19705721	-1.92117242
MTRF1	0.25067634	0.19730778	1.92038147
FAM129B	0.25060727	0.19748696	1.91981683
T	-0.25060581	0.19748696	-1.91980493
ATP6V1H	0.25057712	0.19753242	1.91957039
MRPL20	0.25055493	0.19753242	1.91938905
NDRG2	-0.25057332	0.19753242	-1.91953931
BPIL1	-0.25055785	0.19753242	-1.91941286
FOLR3	-0.25052960	0.19755563	-1.91918195
TMEM40	0.25052936	0.19755563	1.91918005
PEX19	0.25048267	0.19768498	1.91879842
RNASE11	-0.25042683	0.19775365	-1.91834204
ZNF497	-0.25044835	0.19775365	-1.91851793
CTTNBP2NL	0.25044231	0.19775365	1.91846852
SCARNA11	-0.25042515	0.19775365	-1.91832826
CA10	-0.25041139	0.19776865	-1.91821585
HCRTR1	-0.25039993	0.19777569	-1.91812219
UTP3	0.25038474	0.19779570	1.91799801
FH	0.25036727	0.19782362	1.91785524
C5orf27	-0.25034212	0.19787823	-1.91764972
OR5R1	-0.25025466	0.19797227	-1.91693498

TLX1	-0.25024921	0.19797227	-1.91689045	
IRF7	-0.25023022	0.19797227	-1.91673528	
KIF11	0.25026875	0.19797227	1.91705011	
PRKCD	0.25027587	0.19797227	1.91710836	
MRPL34	-0.25023480	0.19797227	-1.91677273	
C12orf49	0.25023810	0.19797227	1.91679966	
TPST2	-0.25028028	0.19797227	-1.91714437	
ATPAF2	0.25026926	0.19797227	1.91705428	
KIAA1219	0.25020203	0.19800476	1.91650494	
ZNF174	0.25020966	0.19800476	1.91656732	
TENC1	-0.25012919	0.19820220	-1.91590976	
PSAPL1	-0.25012641	0.19820220	-1.91588703	
IFI16	0.25010980	0.19822720	1.91575134	
SNORD52	0.25008593	0.19827749	1.91555629	
KLHDC7B	-0.25005000	0.19836976	-1.91526270	
AMBN	-0.25001477	0.19845959	-1.91497491	
LOC283392	-0.24999637	0.19849088	-1.91482455	
UBA1	0.24998412	0.19850077	1.91472444	
TRO	-0.24995405	0.19853989	-1.91447885	
AP1G2	0.24995817	0.19853989	1.91451249	
TACR1	-0.24993145	0.19858584	-1.91429416	
BOC	-0.24990428	0.19864769	-1.91407222	
LOC387720	-0.24989062	0.19866250	-1.91396061	
NCBP2	0.24984370	0.19879319	1.91357735	
ARFGEF2	0.24973788	0.19902077	1.91271291	
SCFD2	0.24973140	0.19902077	1.91265995	
NMT1	0.24974961	0.19902077	1.91280872	
COMMD2	0.24974346	0.19902077	1.91275851	yes
COX16	0.24974435	0.19902077	1.91276577	
RNASEH2C	-0.24969846	0.19910288	-1.91239088	
CDH16	-0.24961594	0.19913072	-1.91171691	
OR2T11	-0.24959385	0.19913072	-1.91153651	
C20orf165	-0.24959498	0.19913072	-1.91154573	

ATP11B	0.24966593	0.19913072	1.91212522	
DNAJC16	0.24966523	0.19913072	1.91211949	yes
PAK1IP1	0.24961316	0.19913072	1.91169419	
BDH2	0.24962145	0.19913072	1.91176188	
SSTR2	-0.24965576	0.19913072	-1.91204218	
RTBDN	-0.24962323	0.19913072	-1.91177647	
GHDC	-0.24962162	0.19913072	-1.91176327	
CACNA2D4	-0.24958710	0.19913072	-1.91148137	
RBPJL	-0.24949891	0.19923422	-1.91076112	
DNA2	0.24951740	0.19923422	1.91091213	
EP400NL	-0.24950526	0.19923422	-1.91081299	
ARSB	-0.24949172	0.19923422	-1.91070242	
PREP	0.24950013	0.19923422	1.91077110	
RANGAP1	0.24951709	0.19923422	1.91090955	
C17orf68	-0.24952557	0.19923422	-1.91097887	
AQP2	-0.24944092	0.19937876	-1.91028756	
HMGXB4	0.24941607	0.19943168	1.91008461	
KLF6	0.24938842	0.19943168	1.90985879	
PARD6A	-0.24938824	0.19943168	-1.90985733	
PRKAR1B	-0.24939781	0.19943168	-1.90993545	
FAM171A2	-0.24931837	0.19961019	-1.90928675	
LRIG2	0.24931953	0.19961019	1.90929622	
LOC100130696	-0.24926381	0.19970653	-1.90884130	
PCNA	0.24926266	0.19970653	1.90883191	
PRKACG	-0.24926722	0.19970653	-1.90886911	
S100A6	0.24923640	0.19976553	1.90861751	
DSTYK	0.24918473	0.19988065	1.90819556	
PHPT1	-0.24918486	0.19988065	-1.90819665	
KBTBD7	0.24916863	0.19990417	1.90806412	
LIN28	-0.24914705	0.19994686	-1.90788794	
MBNL3	0.24911476	0.19996147	1.90762435	
C15orf44	0.24912166	0.19996147	1.90768066	
SEC24C	0.24912746	0.19996147	1.90772799	

CBX2	-0.24910098	0.19997692	-1.90751181	
SNAI1	-0.24907757	0.19999397	-1.90732069	
VDR	0.24907737	0.19999397	1.90731909	
ZBTB20	-0.24898240	0.20027384	-1.90654377	
TEP1	0.24897866	0.20027384	1.90651322	
ERBB2	0.24893444	0.20033033	1.90615222	
XAB2	0.24894270	0.20033033	1.90621964	
KCNK17	-0.24894940	0.20033033	-1.90627435	
SERPINF2	-0.24889788	0.20042558	-1.90585378	
SCGBL	-0.24887037	0.20048915	-1.90562924	
FOXP1	-0.24885086	0.20049066	-1.90546997	
POU5F1P1	-0.24885343	0.20049066	-1.90549100	
PHOX2B	-0.24884186	0.20049066	-1.90539656	
TMEM50A	0.24880111	0.20058884	1.90506395	
KIAA0020	0.24879513	0.20058884	1.90501512	
THRSP	-0.24872754	0.20066715	-1.90446344	
SLC14A2	-0.24871840	0.20066715	-1.90438886	
CCDC3	-0.24875572	0.20066715	-1.90469343	
SYDE2	-0.24873748	0.20066715	-1.90454460	
EIF3H	0.24871668	0.20066715	1.90437477	
CBR1	0.24873922	0.20066715	1.90455881	
CHRNE	-0.24869853	0.20069798	-1.90422668	
SLC39A12	-0.24866066	0.20079798	-1.90391758	
TOE1	0.24860618	0.20085794	1.90347298	
SELM	-0.24862373	0.20085794	-1.90361623	yes
SYCP1	-0.24860927	0.20085794	-1.90349816	
NICN1	0.24860702	0.20085794	1.90347979	
SEC14L4	-0.24858071	0.20091450	-1.90326512	
JAM2	-0.24856692	0.20093011	-1.90315258	
EYA4	0.24849811	0.20100771	1.90259102	
COG2	0.24850252	0.20100771	1.90262707	
AGXT2L1	-0.24850153	0.20100771	-1.90261896	
UQCRRS1	-0.24852441	0.20100771	-1.90280564	

MICAL2	0.24853024	0.20100771	1.90285325	
C7orf36	0.24848269	0.20102904	1.90246524	
LMX1A	-0.24842379	0.20110473	-1.90198461	
C14orf115	-0.24844699	0.20110473	-1.90217388	
MIB1	0.24842498	0.20110473	1.90199434	
UGP2	0.24844172	0.20110473	1.90213093	
TMEM194B	0.24841006	0.20112016	1.90187258	
BTNL9	-0.24835156	0.20116291	-1.90139525	
SH3GLB1	0.24836714	0.20116291	1.90152238	
RPS4X	0.24835125	0.20116291	1.90139270	
SMARCC1	0.24836226	0.20116291	1.90148256	
C1orf170	-0.24838275	0.20116291	-1.90164970	
SERPINA13	-0.24829945	0.20131200	-1.90097006	
SERPINB5	0.24825607	0.20143160	1.90061612	
MTFMT	0.24823619	0.20145783	1.90045395	
C17orf66	-0.24822996	0.20145783	-1.90040309	
RRM1	0.24821988	0.20146047	1.90032090	
C20orf173	-0.24819057	0.20153071	-1.90008177	
TMEM126A	0.24816666	0.20158199	1.89988668	
DHX9	0.24815267	0.20159840	1.89977255	
CALB2	-0.24814192	0.20160342	-1.89968490	
RPL41	0.24810503	0.20170034	1.89938393	
SLC27A6	-0.24808245	0.20171422	-1.89919975	
CHRD	-0.24809156	0.20171422	-1.89927401	yes
MRPS30	0.24805320	0.20174120	1.89896110	
ODF4	-0.24805742	0.20174120	-1.89899554	
DRG2	0.24801972	0.20174120	1.89868800	
SIGLECP3	-0.24801892	0.20174120	-1.89868148	
ELP3	0.24801910	0.20174120	1.89868299	
TTF2	0.24803224	0.20174120	1.89879010	
CHDH	-0.24798377	0.20183204	-1.89839480	
NKX2-6	-0.24793364	0.20194291	-1.89798585	
NRD1	0.24793871	0.20194291	1.89802725	

PTGFRN	0.24781879	0.20231442	1.89704912	
VIL1	-0.24779523	0.20236463	-1.89685699	
MRAP2	0.24776481	0.20240624	1.89660888	
TAF1A	0.24777373	0.20240624	1.89668165	
SRD5A2L2	-0.24773188	0.20248952	-1.89634029	
EFHD1	-0.24770785	0.20254142	-1.89614433	
USP27X	-0.24768132	0.20254149	-1.89592795	
PTPRF	0.24768158	0.20254149	1.89593013	
SPARCL1	-0.24767992	0.20254149	-1.89591661	
NFIX	-0.24764568	0.20262548	-1.89563739	
MSX2P1	-0.24763449	0.20262548	-1.89554610	
KCNE2	-0.24762821	0.20262548	-1.89549486	
APPBP2	0.24756921	0.20270243	1.89501376	
SPRR4	-0.24759512	0.20270243	-1.89522502	
TCF25	0.24757241	0.20270243	1.89503984	
JUND	-0.24758592	0.20270243	-1.89515000	
ZNF396	0.24754698	0.20274804	1.89483252	
LOC100133091	-0.24744278	0.20279561	-1.89398287	
CSK	0.24751284	0.20279561	1.89455411	
ABCA1	0.24747372	0.20279561	1.89423520	
TBC1D1	-0.24745690	0.20279561	-1.89409804	
C12orf72	0.24750966	0.20279561	1.89452819	
GABRA2	-0.24744537	0.20279561	-1.89400403	
SSX9	-0.24749396	0.20279561	-1.89440020	
MAGEA11	-0.24744063	0.20279561	-1.89396540	
STRBP	0.24749923	0.20279561	1.89444313	yes
COL23A1	-0.24748704	0.20279561	-1.89434379	
RG9MTD1	0.24741290	0.20286070	1.89373926	
FAM134C	0.24738154	0.20293861	1.89348356	
FAAH	0.24736827	0.20295269	1.89337536	
SPINK4	-0.24734118	0.20301554	-1.89315452	
LRP10	0.24732156	0.20304871	1.89299454	
ATP6V1C1	0.24731323	0.20304871	1.89292663	

DRD4	-0.24725911	0.20317427	-1.89248545	
SAC3D1	-0.24725957	0.20317427	-1.89248923	
CCNT2	0.24722155	0.20327415	1.89217928	
BHLHB9	-0.24717380	0.20341009	-1.89179004	
ACOT12	-0.24716261	0.20341686	-1.89169882	
EXT1	0.24713477	0.20343562	1.89147182	
IRF2BP1	-0.24712023	0.20343562	-1.89135330	yes
PCDHB8	0.24713133	0.20343562	1.89144377	
ZNF747	-0.24712224	0.20343562	-1.89136975	
OR1L8	-0.24701934	0.20353953	-1.89053099	
DLX1	-0.24706586	0.20353953	-1.89091013	
APLNR	-0.24701753	0.20353953	-1.89051621	
GPR20	-0.24701967	0.20353953	-1.89053364	
NUP43	0.24702300	0.20353953	1.89056084	
CLEC17A	-0.24701672	0.20353953	-1.89050960	
MXD1	0.24708040	0.20353953	1.89102870	
TTYH2	-0.24703392	0.20353953	-1.89064981	
TBC1D14	0.24699109	0.20359738	1.89030071	
LOC441242	0.24693777	0.20375317	1.88986616	
FAM120A	0.24691926	0.20378590	1.88971529	
FLJ41484	-0.24690809	0.20379268	-1.88962423	
C1orf147	-0.24688637	0.20383675	-1.88944726	
SNAI3	-0.24687309	0.20385101	-1.88933899	
RPL36AP49	-0.24685188	0.20386649	-1.88916617	
PRAM1	-0.24685021	0.20386649	-1.88915251	
PFTK2	-0.24683944	0.20387186	-1.88906473	
GKN2	-0.24680059	0.20396137	-1.88874818	
PBRM1	0.24679564	0.20396137	1.88870781	yes
RPL36P14	-0.24678632	0.20396161	-1.88863188	
SNX2	0.24677461	0.20397033	1.88853645	
KLHL2	0.24675566	0.20398860	1.88838204	
DEFB112	-0.24675095	0.20398860	-1.88834367	
ODZ1	-0.24673314	0.20399896	-1.88819852	

CIDEB	0.24672954	0.20399896	1.88816915	
CNTN4	-0.24671231	0.20402723	-1.88802875	
FLOT2	0.24668462	0.20409254	1.88780310	
LACE1	0.24659283	0.20409614	1.88705520	
OR4C3	-0.24659465	0.20409614	-1.88707003	
C21orf87	-0.24666509	0.20409614	-1.88764398	
GPX4	0.24661976	0.20409614	1.88727459	
APOF	-0.24658202	0.20409614	-1.88696709	
ART3	-0.24659579	0.20409614	-1.88707931	
ASB4	-0.24660321	0.20409614	-1.88713979	
SGTB	-0.24659761	0.20409614	-1.88709413	
KIAA1462	-0.24666207	0.20409614	-1.88761942	
CARD14	-0.24663995	0.20409614	-1.88743915	
BTNL8	-0.24658385	0.20409614	-1.88698200	
OR10K2	-0.24655945	0.20414333	-1.88678324	
PTPRU	0.24640258	0.20433492	1.88550518	
LIAS	0.24641376	0.20433492	1.88559627	yes
GAB4	-0.24646249	0.20433492	-1.88599321	
C17orf50	-0.24643804	0.20433492	-1.88579403	
TIGD3	-0.24645382	0.20433492	-1.88592262	
GSTA4	0.24645601	0.20433492	1.88594044	
KCNJ4	-0.24646178	0.20433492	-1.88598743	
MAS1	-0.24643573	0.20433492	-1.88577527	
UPK2	-0.24647163	0.20433492	-1.88606771	
FZD9	-0.24639467	0.20433492	-1.88544075	
PDE5A	-0.24640364	0.20433492	-1.88551378	
MAGI1	-0.24642475	0.20433492	-1.88568574	
MED18	0.24637486	0.20437246	1.88527932	
SERPIND1	-0.24636163	0.20438667	-1.88517157	
HBS1L	0.24633108	0.20446225	1.88492266	
LOC255411	-0.24630208	0.20453232	-1.88468646	
TPM3	0.24627593	0.20459234	1.88447344	
BAAT	-0.24625733	0.20462560	-1.88432195	

PSORS1C1	-0.24624798	0.20462612	-1.88424573	
GRIN2A	-0.24623054	0.20464082	-1.88410367	
TRIM15	-0.24622541	0.20464082	-1.88406192	
MYO3B	-0.24618687	0.20470007	-1.88374798	
OGG1	-0.24618108	0.20470007	-1.88370081	
MRP63	0.24619032	0.20470007	1.88377611	yes
DMC1	-0.24613376	0.20473734	-1.88331534	
FAM19A2	-0.24614666	0.20473734	-1.88342044	
PPP1R3B	-0.24614011	0.20473734	-1.88336713	
KIAA0317	0.24615367	0.20473734	1.88347754	yes
ELFN2	-0.24609019	0.20485917	-1.88296050	
IGF1R	0.24605926	0.20490360	1.88270863	
FAM47C	-0.24606829	0.20490360	-1.88278210	
BICD2	0.24604969	0.20490492	1.88263068	
ARID2	0.24593079	0.20523309	1.88166234	yes
KLRB1	0.24594555	0.20523309	1.88178248	
PDE1B	-0.24592962	0.20523309	-1.88165277	
PGRMC1	0.24582427	0.20541131	1.88079492	
ZNF548	0.24583753	0.20541131	1.88090285	
TAPT1	0.24582636	0.20541131	1.88081193	
LRRC33	-0.24584899	0.20541131	-1.88099618	
USP9Y	0.24584556	0.20541131	1.88096827	yes
KIAA0494	0.24584802	0.20541131	1.88098831	
ZNF321	0.24580714	0.20543952	1.88065543	
SBK1	-0.24578507	0.20548529	-1.88047568	
FGFR3	0.24577026	0.20550527	1.88035508	
ADRA1D	-0.24574200	0.20557305	-1.88012495	
OR2AT4	-0.24568556	0.20570981	-1.87966538	
ZBTB4	-0.24568515	0.20570981	-1.87966210	
ACVR1C	-0.24566341	0.20575447	-1.87948507	
ZNF804B	-0.24561285	0.20590165	-1.87907340	
HMX2	-0.24558489	0.20593576	-1.87884581	
COL20A1	-0.24559170	0.20593576	-1.87890121	

ZSCAN5A	0.24557048	0.20595438	1.87872843
C19orf70	0.24554110	0.20599359	1.87848923
RNF138	0.24554653	0.20599359	1.87853346
ITGA3	0.24552605	0.20601447	1.87836674
SOX30	-0.24546708	0.20603476	-1.87788670
ATP11A	0.24549243	0.20603476	1.87809300
TRIML1	-0.24548241	0.20603476	-1.87801144
MPO	-0.24546529	0.20603476	-1.87787212
SPINK9	-0.24549017	0.20603476	-1.87807464
LAS1L	0.24550889	0.20603476	1.87822707
PKP1	0.24543476	0.20611078	1.87762356
CASP1	0.24542275	0.20612088	1.87752580
CSNK1G2	0.24537137	0.20624566	1.87710754
C7orf58	-0.24536936	0.20624566	-1.87709121
PRMT6	0.24534589	0.20629659	1.87690015
LOC100131232	-0.24531036	0.20635291	-1.87661092
UNQ1870	-0.24531483	0.20635291	-1.87664733
DICER1	0.24530152	0.20635291	1.87653894
IPO5	0.24529341	0.20635291	1.87647297
IDE	0.24527235	0.20639530	1.87630152
PTGDR	-0.24524090	0.20647468	-1.87604557
C19orf22	0.24522423	0.20650144	1.87590988
C12orf50	-0.24516322	0.20664901	-1.87541329
SNORA80	-0.24517031	0.20664901	-1.87547097
TCL1A	-0.24515535	0.20664901	-1.87534922
HIST2H2AB	0.24512940	0.20670843	1.87513803
EEPD1	0.24512036	0.20670843	1.87506452
POLR3G	-0.24500341	0.20680208	-1.87411269
B3GNT2	0.24507136	0.20680208	1.87466566
CTNNA2	-0.24500140	0.20680208	-1.87409640
ITIH1	-0.24504693	0.20680208	-1.87446686
CT47.13	-0.24507040	0.20680208	-1.87465791
UCHL1	-0.24500853	0.20680208	-1.87415440

ZNF140	0.24504565	0.20680208	1.87445647
ZNF436	0.24505688	0.20680208	1.87454784
DNAH17	-0.24502484	0.20680208	-1.87428713
DIRAS3	-0.24501871	0.20680208	-1.87423724
PEX11G	-0.24499342	0.20680208	-1.87403142
OR6N1	-0.24494044	0.20692581	-1.87360029
LIMCH1	-0.24494272	0.20692581	-1.87361886
HPGD	0.24493105	0.20692669	1.87352387
MAMLD1	-0.24490928	0.20694489	-1.87334671
RP5-1000E10.4	0.24490766	0.20694489	1.87333353
TMEM95	-0.24487413	0.20703190	-1.87306072
CLDN12	0.24484259	0.20708204	1.87280407
COG1	0.24484180	0.20708204	1.87279763
OBSL1	-0.24478215	0.20710189	-1.87231227
ALOX15B	-0.24477229	0.20710189	-1.87223204
ZNF326	0.24478608	0.20710189	1.87234425
PKD1L3	0.24479768	0.20710189	1.87243870
EVL	-0.24478696	0.20710189	-1.87235143
ITCH	0.24477545	0.20710189	1.87225782
GRHPR	0.24478567	0.20710189	1.87234093
TNFSF11	-0.24475947	0.20711504	-1.87212774
ANKRD18A	0.24472892	0.20715890	1.87187918
ANKRD16	0.24473699	0.20715890	1.87194487
HOXC6	-0.24467477	0.20731960	-1.87143867
CST5	-0.24464514	0.20739283	-1.87119760
CCDC155	-0.24460737	0.20746255	-1.87089029
ORM1	-0.24460802	0.20746255	-1.87089557
C14orf179	0.24455396	0.20758818	1.87045581
SFTA2	-0.24455402	0.20758818	-1.87045631
UBOX5	0.24452754	0.20764999	1.87024091
SFT2D2	0.24451399	0.20766582	1.87013066
TERT	-0.24450457	0.20766688	-1.87005402
B4GALNT3	0.24446827	0.20776403	1.86975879

FAM26F	-0.24445618	0.20777466	-1.86966042
OR7D2	-0.24442069	0.20780373	-1.86937172
NKX2-8	-0.24442703	0.20780373	-1.86942331
UMOD	-0.24442389	0.20780373	-1.86939779
ACER1	-0.24437622	0.20793020	-1.86900998
SFRS7	0.24436212	0.20794801	1.86889532
PRRX1	-0.24434015	0.20799401	-1.86871661
FOXL2	-0.24430637	0.20808226	-1.86844190
CSPG5	-0.24425698	0.20813960	-1.86804019
IFNA6	-0.24426340	0.20813960	-1.86809237
KRTAP5-10	-0.24427675	0.20813960	-1.86820094
LPPR4	-0.24425390	0.20813960	-1.86801510
NID1	-0.24423379	0.20817897	-1.86785156
ZNF488	-0.24420251	0.20819800	-1.86759714
ZNF57	0.24420979	0.20819800	1.86765640
PLEKHG6	0.24418638	0.20819800	1.86746601
SEMA4G	-0.24416240	0.20819800	-1.86727102
UFD1L	0.24420047	0.20819800	1.86758062
C10orf76	0.24416190	0.20819800	1.86726692
ADIPOR2	0.24414651	0.20819800	1.86714178
SNRNP25	0.24414873	0.20819800	1.86715984
THSD7B	-0.24415857	0.20819800	-1.86723981
DIRAS1	-0.24411311	0.20828499	-1.86687017
TMEM151B	-0.24408001	0.20837094	-1.86660099
CCDC12	0.24404748	0.20844514	1.86633642
SARS2	0.24404110	0.20844514	1.86628455
CD5	-0.24398658	0.20860790	-1.86584125
IL11RA	-0.24393896	0.20874602	-1.86545404
EGLN3	-0.24391974	0.20874715	-1.86529774
DENND1B	0.24391136	0.20874715	1.86522956
ZSCAN2	-0.24391596	0.20874715	-1.86526699
SNORD115-23	-0.24387361	0.20880502	-1.86492269
H2AFZ	0.24386794	0.20880502	1.86487653

MLH1	0.24387403	0.20880502	1.86492609	
KCNA7	-0.24382944	0.20884657	-1.86456355	
MUC1	0.24384345	0.20884657	1.86467748	
PIGX	0.24382908	0.20884657	1.86456058	
STK24	0.24372227	0.20919731	1.86369222	
SLC27A5	-0.24367484	0.20924841	-1.86330664	
EIF4G2	0.24367168	0.20924841	1.86328096	yes
NUP62CL	0.24369676	0.20924841	1.86348483	
AGPAT9	0.24368297	0.20924841	1.86337279	
EIF3M	0.24365488	0.20927610	1.86314442	
C11orf87	-0.24363933	0.20929933	-1.86301799	
MAN1A2	0.24361302	0.20936122	1.86280410	
TMEM52	-0.24354875	0.20955956	-1.86228169	
CLIP1	0.24352336	0.20961820	1.86207528	yes
C5orf28	0.24349786	0.20967723	1.86186803	
NCBP1	0.24345482	0.20970136	1.86151821	
ARHGEF3	0.24346548	0.20970136	1.86160482	
FAM163B	-0.24346981	0.20970136	-1.86164003	
FLJ33544	-0.24345738	0.20970136	-1.86153901	
IL10RB	0.24343160	0.20975223	1.86132945	
FAM129A	-0.24340760	0.20976252	-1.86113443	
GLCE	0.24340518	0.20976252	1.86111474	
ALG1	0.24340150	0.20976252	1.86108483	
ALPL	0.24337362	0.20983019	1.86085821	
RWDD2B	0.24332750	0.20991676	1.86048341	
ACSL1	-0.24333772	0.20991676	-1.86056647	
C3orf26	0.24332234	0.20991676	1.86044142	
MRPL3	0.24329077	0.20999772	1.86018489	
TSPAN32	-0.24327557	0.21001978	-1.86006137	
RBM28	0.24324977	0.21008003	1.85985166	
TANK	0.24321871	0.21012122	1.85959926	
NUP160	0.24321112	0.21012122	1.85953756	
RNF148	-0.24321904	0.21012122	-1.85960192	

C1orf131	0.24314465	0.21028510	1.85899742	
SPATA19	-0.24313290	0.21028510	-1.85890192	
LOC388931	-0.24313242	0.21028510	-1.85889803	
CYSLTR2	-0.24312936	0.21028510	-1.85887314	
DNAH8	-0.24311857	0.21029128	-1.85878554	
LOC339483	-0.24308096	0.21039418	-1.85847985	
CXorf61	-0.24302839	0.21051081	-1.85805276	
GABRA1	-0.24301278	0.21051081	-1.85792590	
OR3A2	-0.24302985	0.21051081	-1.85806455	
TMEM116	0.24301235	0.21051081	1.85792242	
GPR25	-0.24299018	0.21055808	-1.85774228	
MGAT2	0.24293163	0.21070392	1.85726656	
PTK6	0.24294044	0.21070392	1.85733814	
IPO7	0.24283999	0.21074013	1.85652202	
CSNK2A1	0.24287970	0.21074013	1.85684465	yes
ALDH1A3	0.24283695	0.21074013	1.85649737	
FBXW11	0.24286718	0.21074013	1.85674292	
CLIC4	-0.24283630	0.21074013	-1.85649206	
DHDH	-0.24283609	0.21074013	-1.85649037	
ANXA4	0.24284762	0.21074013	1.85658405	yes
APOA1	-0.24283684	0.21074013	-1.85649640	
ATP2A2	0.24289271	0.21074013	1.85695034	
PGK2	-0.24283106	0.21074013	-1.85644944	
RP5-1022P6.2	0.24281291	0.21077295	1.85630203	
CHRNA3	-0.24273102	0.21103584	-1.85563681	
MYOM3	-0.24271516	0.21106045	-1.85550795	
INCENP	-0.24270099	0.21107896	-1.85539281	
FLJ43763	-0.24267940	0.21112427	-1.85521742	
TIMM23	0.24262679	0.21124895	1.85479012	
SYNGR2	0.24263188	0.21124895	1.85483149	
GABRG1	-0.24259176	0.21131827	-1.85450556	
ASNSD1	0.24258952	0.21131827	1.85448738	
WDR4	0.24254768	0.21140742	1.85414750	

MMP26	-0.24254154	0.21140742	-1.85409770	
DSCAML1	-0.24253773	0.21140742	-1.85406672	
BRP44	0.24252796	0.21141006	1.85398736	yes
OR13G1	-0.24251744	0.21141540	-1.85390194	
TOX	-0.24249014	0.21148143	-1.85368020	
IL8RB	-0.24245664	0.21155078	-1.85340812	
LLGL2	0.24245289	0.21155078	1.85337764	
NFRKB	0.24244362	0.21155162	1.85330236	
HTATIP2	0.24239664	0.21168888	1.85292079	
KIAA1967	0.24235136	0.21182002	1.85255310	
RSPO1	-0.24233589	0.21184333	-1.85242744	
B4GALNT1	-0.24232154	0.21186256	-1.85231093	
TRA2B	0.24229150	0.21193863	1.85206695	
C1orf100	-0.24224725	0.21200355	-1.85170765	
KIFC3	-0.24225123	0.21200355	-1.85174000	
ROBO4	-0.24224648	0.21200355	-1.85170135	yes
COPG	0.24214927	0.21212678	1.85091200	
ABL2	0.24216721	0.21212678	1.85105770	
ATP1A3	-0.24219546	0.21212678	-1.85128709	
IL22	-0.24215563	0.21212678	-1.85096370	
STK32B	-0.24219384	0.21212678	-1.85127397	
MMP25	-0.24218053	0.21212678	-1.85116587	
TXNRD1	0.24216668	0.21212678	1.85105337	
COL5A2	-0.24212045	0.21219848	-1.85067804	
MPZL3	0.24210733	0.21221132	1.85057148	
ALG2	0.24209886	0.21221132	1.85050274	
EDNRB	-0.24205961	0.21226101	-1.85018407	
AQP8	-0.24207544	0.21226101	-1.85031259	
MAN2A1	0.24204907	0.21226101	1.85009849	
SLC28A2	-0.24205096	0.21226101	-1.85011381	
NEBL	0.24197906	0.21240541	1.84953001	yes
PTGR1	0.24198869	0.21240541	1.84960827	yes
CDH29	0.24197317	0.21240541	1.84948224	

DDX47	0.24199217	0.21240541	1.84963652
WSCD1	-0.24194711	0.21246720	-1.84927068
ASPRV1	-0.24192810	0.21247187	-1.84911636
C9orf123	0.24192780	0.21247187	1.84911389
OR7G3	-0.24190211	0.21250120	-1.84890536
SYT13	-0.24190169	0.21250120	-1.84890194
PNPLA1	-0.24184764	0.21259922	-1.84846313
AUP1	0.24185847	0.21259922	1.84855105
RASAL2	0.24184930	0.21259922	1.84847658
ZCCHC17	0.24182145	0.21266155	1.84825052
FCGR3A	-0.24178843	0.21271598	-1.84798251
NOX1	-0.24179669	0.21271598	-1.84804950
F12	-0.24175922	0.21278931	-1.84774538
EEF2	0.24171968	0.21290015	1.84742440
MAGI3	0.24169528	0.21295603	1.84722639
PLEKHG4	-0.24166086	0.21304833	-1.84694701
PITRM1	0.24160094	0.21307532	1.84646064
GFRA2	-0.24160018	0.21307532	-1.84645444
GNAT2	-0.24160031	0.21307532	-1.84645550
RRP15	0.24160206	0.21307532	1.84646976
ZDHHC4	0.24161667	0.21307532	1.84658835
PSAP	0.24159410	0.21307532	1.84640512
RPE	0.24158144	0.21307532	1.84630241
MCM8	0.24158639	0.21307532	1.84634256
DLG2	-0.24154557	0.21311679	-1.84601124
F13B	-0.24155128	0.21311679	-1.84605757
ACTBL2	-0.24154292	0.21311679	-1.84598976
GREB1	-0.24153406	0.21311679	-1.84591782
SWAP70	0.24147071	0.21326178	1.84540367
KIF16B	0.24146718	0.21326178	1.84537501
TRAPPC6A	0.24147332	0.21326178	1.84542492
CDKN1A	0.24145747	0.21326441	1.84529622
ABCD1	-0.24141965	0.21336915	-1.84498936

PTRF	-0.24139765	0.21338380	-1.84481082	yes
PRKX	0.24140541	0.21338380	1.84487375	
LOC201229	0.24134262	0.21350271	1.84436425	
HNRNPCL1	-0.24133298	0.21350271	-1.84428601	
hCG_1645727	-0.24133229	0.21350271	-1.84428042	
JMJD5	-0.24132901	0.21350271	-1.84425377	
ACCN3	-0.24126453	0.21370454	-1.84373058	
MCTS1	0.24124604	0.21373913	1.84358056	
C14orf33	-0.24121315	0.21376081	-1.84331364	
NDUFC2	0.24121738	0.21376081	1.84334800	
YEATS4	0.24121985	0.21376081	1.84336804	
ALAS1	0.24119007	0.21381210	1.84312643	
SMURF1	0.24116983	0.21385311	1.84296217	
SCAF1	-0.24112952	0.21396718	-1.84263509	
DDX20	0.24107206	0.21398277	1.84216893	
CTBS	0.24106487	0.21398277	1.84211063	
OSTN	-0.24104937	0.21398277	-1.84198489	
OR6K3	-0.24107957	0.21398277	-1.84222982	
L1TD1	-0.24107830	0.21398277	-1.84221953	
ANKRD57	0.24104108	0.21398277	1.84191756	
BPHL	0.24103165	0.21398277	1.84184108	
HIST1H2AI	0.24102790	0.21398277	1.84181066	
B3GNT5	0.24102656	0.21398277	1.84179980	yes
RNASE7	-0.24109202	0.21398277	-1.84233087	
PTER	0.24108849	0.21398277	1.84230226	
FBLN7	-0.24101055	0.21400842	-1.84166992	
EXOSC1	0.24096536	0.21414031	1.84130334	
EPS8	0.24094131	0.21419440	1.84110823	yes
REXO4	0.24093259	0.21419440	1.84103743	
PGLYRP2	-0.24089596	0.21429520	-1.84074028	
LOC136242	-0.24085421	0.21441467	-1.84040166	
FAM91A1	0.24082655	0.21448284	1.84017729	
KIAA1147	0.24079817	0.21455366	1.83994706	

ISCA2	-0.24075593	0.21467505	-1.83960444	
MCM7	0.24073127	0.21473232	1.83940445	
OR13A1	-0.24071711	0.21474881	-1.83928963	
CDK5R1	-0.24070883	0.21474881	-1.83922246	
C1orf110	0.24066864	0.21479744	1.83889644	yes
TRIM61	-0.24067939	0.21479744	-1.83898368	
PRMT8	-0.24067100	0.21479744	-1.83891564	
MATN3	-0.24064521	0.21481757	-1.83870647	
SREBF2	0.24064705	0.21481757	1.83872137	
C14orf83	0.24062092	0.21485473	1.83850943	
PPP2CA	0.24061713	0.21485473	1.83847867	
ERO1LB	-0.24059769	0.21489299	-1.83832107	
LOC100128612	0.24054947	0.21491381	1.83793000	
TMEM167A	0.24055701	0.21491381	1.83799111	
DDX10	0.24053418	0.21491381	1.83780594	
C2orf69	0.24056745	0.21491381	1.83807583	
PADI1	0.24052955	0.21491381	1.83776842	
ZNF552	0.24052936	0.21491381	1.83776691	
OR4A15	-0.24057817	0.21491381	-1.83816270	
PCDHB9	-0.24051250	0.21493586	-1.83763018	
RERGL	-0.24050544	0.21493586	-1.83757288	
OR8G5	-0.24046076	0.21506631	-1.83721059	
C8orf73	-0.24041041	0.21518881	-1.83680228	
ZNF502	0.24040934	0.21518881	1.83679358	
HEATR5A	0.24038662	0.21523913	1.83660938	
hCG_2018279	-0.24029702	0.21553397	-1.83588284	
LOC646813	0.24026583	0.21561536	1.83562992	
MESDC1	-0.24024826	0.21564692	-1.83548749	
TFAM	0.24023657	0.21565699	1.83539269	
TDRD1	-0.24022232	0.21567640	-1.83527720	
OR1S2	-0.24020343	0.21567793	-1.83512403	
AOF1	0.24012733	0.21567793	1.83450706	
AIRE	-0.24014435	0.21567793	-1.83464500	

CATSPER4	-0.24016336	0.21567793	-1.83479917	
TRIM34	-0.24013444	0.21567793	-1.83456467	
SLC25A38	-0.24014007	0.21567793	-1.83461036	
LARP6	-0.24021286	0.21567793	-1.83520045	
RINT1	0.24017656	0.21567793	1.83490617	
SNCB	-0.24012366	0.21567793	-1.83447728	
DYRK2	0.24016777	0.21567793	1.83483492	
WASF1	-0.24014059	0.21567793	-1.83461455	
LOC100130138	-0.24007884	0.21580922	-1.83411397	
CARD17	-0.24006138	0.21584045	-1.83397241	
DRD5	-0.24001929	0.21589653	-1.83363117	
PDC	-0.24002002	0.21589653	-1.83363707	
DDX43	-0.24002486	0.21589653	-1.83367635	
LOC100132793	0.23989002	0.21599139	1.83258329	
FRAT1	-0.23989770	0.21599139	-1.83264553	yes
C20orf142	0.23997414	0.21599139	1.83326517	
TMEM71	0.23987747	0.21599139	1.83248154	
DES	-0.23992499	0.21599139	-1.83286680	
CENPV	-0.23991787	0.21599139	-1.83280906	
CATSPER2P1	0.23997454	0.21599139	1.83326843	
C5orf22	0.23992581	0.21599139	1.83287340	
RNASE1	-0.23989890	0.21599139	-1.83265528	yes
KLF9	-0.23989576	0.21599139	-1.83262986	
THUMPD2	0.23996121	0.21599139	1.83316038	
CLDN10	0.23988229	0.21599139	1.83252061	
RUSC2	-0.23988879	0.21599139	-1.83257334	yes
LOC100133403	-0.23983404	0.21601994	-1.83212954	
YIPF6	0.23985848	0.21601994	1.83232763	
SLC17A6	-0.23984695	0.21601994	-1.83223419	
ZNF668	-0.23983812	0.21601994	-1.83216260	
JMJD2C	0.23982344	0.21602613	1.83204366	
DCPS	0.23976334	0.21620283	1.83155654	
SPDYE4	-0.23975736	0.21620283	-1.83150808	

A2BP1	-0.23974632	0.21621066	-1.83141860	
XRN2	0.23972226	0.21623250	1.83122358	
LMAN1L	-0.23971365	0.21623250	-1.83115383	
STX8	0.23972434	0.21623250	1.83124045	
SLC44A4	0.23967894	0.21632706	1.83087245	
LCE3E	-0.23964746	0.21635072	-1.83061736	
IER5L	-0.23964578	0.21635072	-1.83060377	
ZNF607	0.23965935	0.21635072	1.83071369	yes
SH2B3	-0.23962486	0.21636218	-1.83043424	
RPL17	0.23962639	0.21636218	1.83044664	
SLC13A5	-0.23958000	0.21649395	-1.83007069	
CCDC88A	-0.23955259	0.21652921	-1.82984858	
MTFR1	0.23955611	0.21652921	1.82987709	
HSD3B7	-0.23954111	0.21653871	-1.82975551	
KEL	-0.23952482	0.21656583	-1.82962349	
BDKRB2	0.23950279	0.21661399	1.82944497	
LSM2	0.23940913	0.21692488	1.82868602	
ADCK4	0.23936383	0.21705848	1.82831903	
C3orf49	-0.23933638	0.21711653	-1.82809659	
XIAP	0.23932135	0.21711653	1.82797484	
GP6	-0.23932906	0.21711653	-1.82803727	
DPYSL2	-0.23930119	0.21715791	-1.82781151	
TIRAP	0.23928726	0.21716037	1.82769861	
RPS12	0.23928275	0.21716037	1.82766210	
C3orf38	0.23925657	0.21722387	1.82745001	
OLIG2	-0.23923911	0.21725539	-1.82730848	
GPR56	0.23922592	0.21727120	1.82720165	
CHI3L2	-0.23913148	0.21739282	-1.82643656	
N6AMT2	0.23912013	0.21739282	1.82634464	
EXOSC10	0.23912362	0.21739282	1.82637285	
PNPO	0.23914162	0.21739282	1.82651874	
GSDMB	0.23913326	0.21739282	1.82645096	
OTUD7B	0.23910652	0.21739282	1.82623437	

USP35	-0.23914561	0.21739282	-1.82655103
RAB27A	0.23917468	0.21739282	1.82678652
DDX18	0.23910917	0.21739282	1.82625585
SLIT2	-0.23910402	0.21739282	-1.82621414
MAP3K2	0.23898493	0.21766744	1.82524945
ATL3	0.23899987	0.21766744	1.82537044
C6orf15	-0.23898934	0.21766744	-1.82528512
CCDC73	-0.23900885	0.21766744	-1.82544321
QSOX1	0.23898638	0.21766744	1.82526117
SNORD116-27	-0.23894708	0.21772947	-1.82494282
RNASEK	0.23894145	0.21772947	1.82489727
AOC3	-0.23894194	0.21772947	-1.82490117
ZNF79	0.23890762	0.21782128	1.82462325
ACOXL	-0.23888441	0.21787404	-1.82443525
LOC100130019	0.23882591	0.21802405	1.82396144
SERPINA11	-0.23882953	0.21802405	-1.82399072
COX7B2	-0.23879238	0.21811485	-1.82368984
SYN2	-0.23877385	0.21815044	-1.82353977
STAM	0.23875576	0.21818439	1.82339329
FAM177A1	0.23871045	0.21822070	1.82302634
KLHL17	-0.23871108	0.21822070	-1.82303144
IFITM5	-0.23871843	0.21822070	-1.82309093
CASP9	0.23873550	0.21822070	1.82322921
C9orf170	-0.23867454	0.21828771	-1.82273548
AGXT2	-0.23867709	0.21828771	-1.82275621
TMOD2	-0.23866523	0.21828935	-1.82266015
SLC9A4	0.23863722	0.21832727	1.82243331
BCHE	-0.23863837	0.21832727	-1.82244264
RXFP3	-0.23860912	0.21833293	-1.82220575
PLEKHA2	0.23861165	0.21833293	1.82222625
PRDX2	0.23861976	0.21833293	1.82229192
SNORD36B	0.23856944	0.21834868	1.82188444
KCNA4	-0.23857483	0.21834868	-1.82192806

PCP4	-0.23859577	0.21834868	-1.82209764	
AZIN1	0.23857620	0.21834868	1.82193921	yes
COQ7	0.23851062	0.21853276	1.82140817	
FOXF2	-0.23849211	0.21856836	-1.82125829	
NDST3	-0.23847336	0.21860489	-1.82110640	
MMP16	-0.23838912	0.21885780	-1.82042440	
JARID1D	0.23838707	0.21885780	1.82040778	
GPR120	-0.23834363	0.21895278	-1.82005609	
SPINK6	-0.23834797	0.21895278	-1.82009121	
CAMK2B	-0.23833259	0.21896088	-1.81996672	
GPA33	-0.23824616	0.21896699	-1.81926695	
SLC26A1	-0.23821818	0.21896699	-1.81904048	
CYP2F1	0.23824049	0.21896699	1.81922105	
NXNL2	-0.23827450	0.21896699	-1.81949640	
SGK3	0.23830549	0.21896699	1.81974727	
IL12B	-0.23822334	0.21896699	-1.81908219	
KCNK2	-0.23827609	0.21896699	-1.81950923	
RNF111	0.23829176	0.21896699	1.81963611	
NSUN2	0.23821603	0.21896699	1.81902304	
SRPK1	0.23830384	0.21896699	1.81973396	
LOC728545	-0.23825521	0.21896699	-1.81934022	
ZBED3	-0.23824363	0.21896699	-1.81924647	
TNFSF10	0.23823365	0.21896699	1.81916566	
C10orf18	0.23820487	0.21897558	1.81893270	
NDUFA5	0.23817181	0.21899981	1.81866509	
ZBTB10	-0.23818792	0.21899981	-1.81879550	
TAF1B	0.23817550	0.21899981	1.81869492	
DUSP14	0.23813253	0.21911217	1.81834709	
TMIGD2	-0.23812020	0.21912510	-1.81824726	
NPHS2	-0.23809948	0.21916898	-1.81807956	
GOPC	0.23808673	0.21918347	1.81797634	
ELF4	0.23805087	0.21928327	1.81768605	
WSCD2	-0.23796212	0.21957849	-1.81696772	

NDUFB1	0.23793305	0.21965330	1.81673245
SOX6	-0.23786030	0.21977465	-1.81614365
SMAP1	0.23789032	0.21977465	1.81638659
ACTR6	0.23785288	0.21977465	1.81608361
USP26	-0.23784728	0.21977465	-1.81603831
SLITRK2	-0.23784800	0.21977465	-1.81604408
STX10	0.23785969	0.21977465	1.81613868
CPNE8	0.23783391	0.21979147	1.81593011
LOC440957	0.23781850	0.21981584	1.81580540
WNT3A	-0.23779810	0.21985867	-1.81564028
TRY6	-0.23775739	0.21991141	-1.81531082
ROR2	-0.23776308	0.21991141	-1.81535687
DCLRE1A	0.23776662	0.21991141	1.81538551
FAM113B	-0.23774104	0.21993928	-1.81517851
S1PR4	-0.23771139	0.22001637	-1.81493854
SNX17	0.23769482	0.22004505	1.81480449
RBBP9	0.23763109	0.22021346	1.81428877
TMC8	-0.23762288	0.22021346	-1.81422233
ZNF581	-0.23762775	0.22021346	-1.81426171
PRSS33	-0.23761311	0.22021701	-1.81414326
UGT2A1	0.23748083	0.22033627	1.81307297
CNR1	-0.23756134	0.22033627	-1.81372435
CHMP4B	0.23753705	0.22033627	1.81352785
LHFPL5	-0.23754480	0.22033627	-1.81359057
ALPPL2	-0.23749393	0.22033627	-1.81317897
GYPC	-0.23749430	0.22033627	-1.81318195
POTEC	-0.23747862	0.22033627	-1.81305511
MC2R	-0.23753286	0.22033627	-1.81349394
MPL	-0.23747523	0.22033627	-1.81302762
DOLPP1	0.23751081	0.22033627	1.81331552
SORBS2	-0.23752341	0.22033627	-1.81341745
CAPZA3	-0.23753858	0.22033627	-1.81354021
HEATR3	0.23744748	0.22040643	1.81280312

HIST1H1E	0.23743289	0.22042786	1.81268512	
OR10J5	-0.23741999	0.22044307	-1.81258070	
LGALS8	0.23740990	0.22044785	1.81249907	
MDH2	0.23733826	0.22068067	1.81191949	
CMKLR1	-0.23731264	0.22069739	-1.81171226	
BOLA1	0.23732198	0.22069739	1.81178780	
SPG21	0.23730736	0.22069739	1.81166953	
SHANK3	-0.23728717	0.22073962	-1.81150619	yes
C18orf25	0.23720701	0.22097167	1.81085769	
CYP2W1	-0.23721449	0.22097167	-1.81091823	
CLEC4F	-0.23714016	0.22112832	-1.81031699	
SNORD33	-0.23711490	0.22112832	-1.81011267	
ANKRD56	0.23715147	0.22112832	1.81040850	
PMCHL2	-0.23711901	0.22112832	-1.81014592	
SCEL	0.23711203	0.22112832	1.81008948	
MDC1	-0.23713376	0.22112832	-1.81026520	
C8orf84	-0.23708916	0.22118061	-1.80990442	
ZNF250	0.23706712	0.22120216	1.80972619	
HNF1A	-0.23706577	0.22120216	-1.80971530	
ADAT2	-0.23702085	0.22124063	-1.80935192	
SKI	-0.23702027	0.22124063	-1.80934726	
ADAM21	-0.23703484	0.22124063	-1.80946509	
WDR20	0.23704247	0.22124063	1.80952680	
LAMA4	-0.23698392	0.22128688	-1.80905328	
NDUFAB1	0.23698395	0.22128688	1.80905352	
LBH	-0.23698147	0.22128688	-1.80903343	
KCNK7	-0.23694380	0.22136155	-1.80872874	
ATRN	0.23695084	0.22136155	1.80878572	
ZNF521	-0.23692982	0.22138086	-1.80861568	
RAET1G	-0.23691161	0.22141586	-1.80846845	
TMEM155	-0.23688454	0.22148380	-1.80824951	
THYN1	0.23687351	0.22149215	1.80816034	
CD55	0.23682748	0.22161171	1.80778804	

DNAJC5	0.23682378	0.22161171	1.80775812	
C20orf160	-0.23677560	0.22169294	-1.80736850	yes
ANK3	0.23678266	0.22169294	1.80742562	yes
AKR1C3	0.23677646	0.22169294	1.80737547	
PCDHGC5	-0.23663132	0.22219692	-1.80620185	
CBLC	0.23660972	0.22221199	1.80602723	
BAI3	-0.23661236	0.22221199	-1.80604857	
IDI1	0.23658370	0.22227621	1.80581684	
DLK1	-0.23653734	0.22241621	-1.80544197	
PIK3IP1	0.23652640	0.22242428	1.80535352	
USP22	0.23646758	0.22252238	1.80487797	
TIAM2	-0.23644745	0.22252238	-1.80471524	
KRT86	-0.23646564	0.22252238	-1.80486227	
PSMA3	0.23647295	0.22252238	1.80492134	
SPG11	0.23644935	0.22252238	1.80473058	
SSH2	-0.23645407	0.22252238	-1.80476876	
PAX6	-0.23643281	0.22254427	-1.80459687	
NCKAP1	0.23641292	0.22256093	1.80443603	
CAND2	-0.23640204	0.22256093	-1.80434814	
C6orf25	-0.23641038	0.22256093	-1.80441552	
ATP8B3	-0.23636583	0.22265904	-1.80405541	
FAM73B	0.23635819	0.22265904	1.80399364	
TNFSF12	-0.23634671	0.22266917	-1.80390082	
TRIAP1	0.23632042	0.22273453	1.80368825	
LECT2	-0.23629543	0.22279504	-1.80348623	
DSG4	-0.23627052	0.22282257	-1.80328494	
PGF	-0.23627116	0.22282257	-1.80329006	yes
MCL1	0.23623431	0.22292496	1.80299220	
PNMA3	-0.23622202	0.22293812	-1.80289290	
ICOSLG	-0.23618974	0.22299321	-1.80263197	
MAPK11	-0.23619630	0.22299321	-1.80268494	yes
DAB2IP	-0.23617286	0.22302351	-1.80249554	
LOC100131373	-0.23614866	0.22308116	-1.80229989	

RAB32	-0.23611554	0.22313807	-1.80203217
PCDHB16	-0.23611499	0.22313807	-1.80202776
TRIM55	-0.23610715	0.22313807	-1.80196438
GBP7	-0.23608868	0.22314168	-1.80181511
THSD1	-0.23609354	0.22314168	-1.80185440
KRT6B	0.23606524	0.22319652	1.80162561
BAT3	0.23605468	0.22320326	1.80154032
RAI1	0.23604583	0.22320366	1.80146876
KCNQ5	-0.23602077	0.22323191	-1.80126622
CHD8	0.23602693	0.22323191	1.80131605
OLR1	-0.23600202	0.22324061	-1.80111467
CD320	-0.23600095	0.22324061	-1.80110603
CBX7	-0.23597150	0.22331790	-1.80086802
COL9A2	-0.23595984	0.22332877	-1.80077384
KRTAP10-4	-0.23593510	0.22333125	-1.80057385
OR10G7	-0.23592422	0.22333125	-1.80048595
MYBPC2	-0.23592614	0.22333125	-1.80050147
GCM2	-0.23593037	0.22333125	-1.80053565
ZNF517	-0.23587972	0.22346476	-1.80012634
SEP12	-0.23585185	0.22347097	-1.79990110
A3GALT2	-0.23585443	0.22347097	-1.79992195
RGS20	-0.23585389	0.22347097	-1.79991760
C2orf52	0.23577770	0.22361745	1.79930187
SDK1	0.23578984	0.22361745	1.79940000
MSL1	-0.23579608	0.22361745	-1.79945047
CABP1	-0.23578319	0.22361745	-1.79934626
GOS2	-0.23576278	0.22364056	-1.79918132
OR8B8	-0.23575108	0.22365165	-1.79908679
RAB11B	0.23572797	0.22370537	1.79890006
LIFR	-0.23569148	0.22380910	-1.79860523
SLC5A10	-0.23561271	0.22403831	-1.79796882
ATP6V1E1	0.23561583	0.22403831	1.79799395
ETFDH	0.23559270	0.22405195	1.79780714

SLC5A1	-0.23559161	0.22405195	-1.79779831	
KCNE3	0.23553833	0.22409032	1.79736785	
CDH17	-0.23550285	0.22409032	-1.79708118	
C15orf59	-0.23554903	0.22409032	-1.79745429	
PPHLN1	0.23555448	0.22409032	1.79749835	
PLN	-0.23553448	0.22409032	-1.79733670	
PPIL3	0.23550840	0.22409032	1.79712603	
USP29	-0.23554492	0.22409032	-1.79742112	
CCDC90A	0.23551584	0.22409032	1.79718612	
SLCO1A2	-0.23550947	0.22409032	-1.79713470	
FANCD2	0.23547049	0.22415192	1.79681978	
GPSM1	-0.23546022	0.22415192	-1.79673684	
SAPS3	0.23546420	0.22415192	1.79676899	yes
LCN6	-0.23543225	0.22422394	-1.79651088	yes
ASPHD2	0.23540758	0.22427478	1.79631158	
CCL4	0.23540123	0.22427478	1.79626029	
DIS3L	0.23534132	0.22443859	1.79577628	
C3orf57	0.23530825	0.22443859	1.79550919	
C22orf31	-0.23531576	0.22443859	-1.79556985	
NPAS2	0.23529313	0.22443859	1.79538704	
RMND1	0.23529131	0.22443859	1.79537234	
CAND1	0.23528777	0.22443859	1.79534376	
FAM186B	-0.23530732	0.22443859	-1.79550168	
SIGLEC5	-0.23530703	0.22443859	-1.79549928	
CTSH	0.23527678	0.22444717	1.79525492	
ERAL1	0.23526313	0.22446565	1.79514471	
ANKRD50	0.23524573	0.22449820	1.79500415	
ZEB1	-0.23519909	0.22460762	-1.79462747	
BANF1	-0.23520704	0.22460762	-1.79469166	
LOC728450	-0.23518985	0.22460965	-1.79455278	
MSH2	0.23515097	0.22469007	1.79423875	
PENK	-0.23515634	0.22469007	-1.79428214	
CD109	0.23511944	0.22477559	1.79398408	

LOC100127889	-0.23510271	0.22480565	-1.79384900	
LIPH	0.23506505	0.22491416	1.79354484	
ZNF300	0.23504336	0.22496285	1.79336967	
OTUB1	0.23500947	0.22497029	1.79309601	
C1orf183	-0.23500659	0.22497029	-1.79307268	
RPL5	0.23502597	0.22497029	1.79322924	
STAG3L4	0.23502151	0.22497029	1.79319317	
NYX	-0.23497272	0.22506465	-1.79279916	
LOC730098	-0.23496396	0.22506487	-1.79272847	
ERCC6	0.23493260	0.22513261	1.79247523	
TMEM217	-0.23491982	0.22513261	-1.79237196	
CD44	0.23492194	0.22513261	1.79238914	
PPM1B	0.23490459	0.22515712	1.79224898	
TOMM34	0.23488255	0.22519698	1.79207102	yes
LOC100133419	-0.23487658	0.22519698	-1.79202279	
SPTLC1	0.23483800	0.22527649	1.79171126	
C10orf125	-0.23484466	0.22527649	-1.79176504	
KLHL1	-0.23482928	0.22527659	-1.79164090	
WDR64	-0.23480575	0.22533230	-1.79145083	
PCDHGC4	0.23478741	0.22536851	1.79130275	
MAPK14	0.23471366	0.22539427	1.79070732	
ADNP2	0.23468926	0.22539427	1.79051026	
KDSR	0.23471368	0.22539427	1.79070746	
HEYL	-0.23475935	0.22539427	-1.79107621	
SLC40A1	-0.23468505	0.22539427	-1.79047632	
ASSP11	0.23473156	0.22539427	1.79085185	
LIN28B	-0.23471115	0.22539427	-1.79068700	
MAG	-0.23470979	0.22539427	-1.79067604	
DPRX	-0.23473455	0.22539427	-1.79087598	
RIT2	-0.23469578	0.22539427	-1.79056293	
CCDC136	-0.23476500	0.22539427	-1.79112182	
RC3H2	0.23467568	0.22539688	1.79040066	
VWA2	0.23466130	0.22541829	1.79028454	

ZNF114	-0.23462435	0.22552436	-1.78998625
SORCS3	-0.23460682	0.22555760	-1.78984470
ERVWE1	-0.23456305	0.22568932	-1.78949135
HIST1H4J	-0.23455414	0.22569021	-1.78941942
LOC100129624	-0.23451119	0.22578638	-1.78907263
LGR4	0.23451753	0.22578638	1.78912381
TMEM126B	0.23450196	0.22578847	1.78899814
AATF	0.23439138	0.22617139	1.78810547
PDIA5	-0.23437038	0.22621773	-1.78793599
SPAG5	0.23432583	0.22634108	1.78757638
MRI1	0.23432025	0.22634108	1.78753130
RAB5A	0.23430228	0.22634345	1.78738626
SLC24A6	0.23430782	0.22634345	1.78743099
TROVE2	0.23428142	0.22638933	1.78721786
CDH24	-0.23425296	0.22646378	-1.78698817
MRPS18C	0.23423070	0.22651495	1.78680848
EIF4ENIF1	-0.23421273	0.22654993	-1.78666351
ABHD7	-0.23419864	0.22657038	-1.78654973
EIF3K	0.23415424	0.22670492	1.78619137
SNORD8	-0.23413796	0.22673356	-1.78606005
ZNF317	0.23411559	0.22678518	1.78587951
TMEM115	0.23407178	0.22678708	1.78552595
TIMM8B	0.23408976	0.22678708	1.78567100
POU4F2	-0.23407519	0.22678708	-1.78555342
EDC3	0.23409421	0.22678708	1.78570691
KRT75	-0.23407611	0.22678708	-1.78556087
NRG2	-0.23406004	0.22679870	-1.78543116
ALX4	-0.23402656	0.22685960	-1.78516095
hCG_2019139	-0.23403323	0.22685960	-1.78521482
ZNF837	-0.23401067	0.22688684	-1.78503273
SNORD80	0.23399138	0.22689431	1.78487705
MID1	0.23399369	0.22689431	1.78489574
C11orf1	0.23391818	0.22713750	1.78428642

POL3S	-0.23390388	0.22715879	-1.78417101	
KRT80	0.23382867	0.22736767	1.78356408	
HIST1H2BC	0.23383924	0.22736767	1.78364942	
HIST1H2BO	-0.23382253	0.22736767	-1.78351459	
CTSE	-0.23380606	0.22739715	-1.78338172	
SLC5A11	-0.23379171	0.22739739	-1.78326587	
BCKDHA	0.23378870	0.22739739	1.78324161	
RASGEF1C	-0.23368307	0.22756923	-1.78238936	
FLJ42258	-0.23370399	0.22756923	-1.78255811	
ANKMY1	0.23371551	0.22756923	1.78265105	
NUP133	0.23373352	0.22756923	1.78279636	
LMBR1	0.23368344	0.22756923	1.78239237	
RILP	-0.23371484	0.22756923	-1.78264565	
AP4M1	0.23368263	0.22756923	1.78238578	
OR10V1	-0.23364126	0.22769272	-1.78205207	
TET2	0.23360388	0.22776861	1.78175045	yes
PTDSS1	0.23360656	0.22776861	1.78177212	
GPR114	-0.23354947	0.22787616	-1.78131157	
CUL9	0.23355807	0.22787616	1.78138095	
TMEM53	0.23356077	0.22787616	1.78140266	
UCHL3	0.23350771	0.22796866	1.78097463	
MYLK3	-0.23351510	0.22796866	-1.78103431	
DNAJB3	-0.23349540	0.22798253	-1.78087532	
ARRB1	-0.23344995	0.22799108	-1.78050873	
RAB3IL1	-0.23345143	0.22799108	-1.78052063	
WDR13	0.23346600	0.22799108	1.78063820	
SNORA56	0.23345704	0.22799108	1.78056596	
C7orf49	0.23348127	0.22799108	1.78076139	
ARFIP1	0.23338599	0.22818846	1.77999282	
GSPT1	0.23338045	0.22818846	1.77994811	
ABCA9	-0.23331803	0.22826127	-1.77944464	
OR5M10	-0.23332743	0.22826127	-1.77952042	
CYB5R2	0.23334321	0.22826127	1.77964772	

POLB	0.23334735	0.22826127	1.77968112	
TSPAN18	-0.23332030	0.22826127	-1.77946296	
ZNF197	0.23328054	0.22830789	1.77914222	
ZMPSTE24	0.23327981	0.22830789	1.77913640	
CDKN1B	0.23328377	0.22830789	1.77916832	
OR5H2	-0.23326481	0.22833202	-1.77901535	
UBAP2L	0.23325134	0.22835031	1.77890676	
MOBK11B	0.23322975	0.22839934	1.77873264	
SPRY4	-0.23321150	0.22843576	-1.77858540	
DENND5B	-0.23319860	0.22845194	-1.77848135	
CPB2	-0.23318503	0.22847065	-1.77837192	
RYR1	-0.23317217	0.22848666	-1.77826822	
TMEM147	0.23313237	0.22860463	1.77794721	
ZUFSP	0.23310512	0.22860988	1.77772747	
NR3C2	-0.23310739	0.22860988	-1.77774583	
RECQL4	-0.23310530	0.22860988	-1.77772896	
GTF2H1	0.23307790	0.22868025	1.77750799	
GGT6	0.23299585	0.22895826	1.77684632	
KIF5C	-0.23296980	0.22902428	-1.77663627	
CDH4	-0.23295484	0.22902704	-1.77651563	
FLJ41170	-0.23295184	0.22902704	-1.77649143	
C6orf81	-0.23292560	0.22909379	-1.77627987	
ITGA7	-0.23282253	0.22938651	-1.77544882	yes
PSMD12	0.23283314	0.22938651	1.77553431	
ZNF17	0.23282352	0.22938651	1.77545674	
FANCF	0.23280850	0.22940470	1.77533566	yes
NOL11	0.23278328	0.22940470	1.77513234	
PPPDE1	0.23279791	0.22940470	1.77525029	
C1orf124	0.23278935	0.22940470	1.77518124	
RCL1	0.23275565	0.22941038	1.77490959	
IQSEC3	-0.23275685	0.22941038	-1.77491919	
SLC2A2	-0.23277116	0.22941038	-1.77503463	
SLC10A1	-0.23274734	0.22941038	-1.77484258	

JARID2	0.23268575	0.22961135	1.77434602
RUSC1	-0.23264544	0.22969898	-1.77402105
GANC	0.23264704	0.22969898	1.77403392
LOC100128570	0.23263400	0.22970608	1.77392881
GTF2A1L	-0.23261595	0.22970608	-1.77378327
MIA2	-0.23262057	0.22970608	-1.77382056
GAPT	-0.23260915	0.22970608	-1.77372848
ZNF271	0.23254884	0.22985535	1.77324228
MAP3K8	0.23253688	0.22985535	1.77314591
DTWD2	0.23253541	0.22985535	1.77313405
SCN5A	-0.23255705	0.22985535	-1.77330849
C19orf34	-0.23248672	0.23000705	-1.77274150
LETM1	0.23247826	0.23000705	1.77267337
A4GALT	0.23243638	0.23008006	1.77233576
ELOVL2	-0.23242867	0.23008006	-1.77227362
PPP2R5B	-0.23243224	0.23008006	-1.77230240
AMMECR1	0.23242465	0.23008006	1.77224119
C1orf59	0.23235217	0.23015513	1.77165704
MRGPRX2	-0.23233461	0.23015513	-1.77151544
ZNF784	-0.23234256	0.23015513	-1.77157954
KIAA0664	0.23234933	0.23015513	1.77163409
DEFB121	-0.23232332	0.23015513	-1.77142446
C21orf86	-0.23231037	0.23015513	-1.77132009
TMEM160	-0.23231736	0.23015513	-1.77137643
SMEK1	0.23232419	0.23015513	1.77143153
U2AF1	0.23237910	0.23015513	1.77187408
C16orf3	-0.23231990	0.23015513	-1.77139690
GGH	0.23231444	0.23015513	1.77135287
ALCAM	0.23228425	0.23022174	1.77110955
RPS11P5	0.23224647	0.23033264	1.77080512
SLC9A6	0.23221190	0.23037338	1.77052646
EEF1A1	0.23217141	0.23037338	1.77020019
OR2B6	-0.23218751	0.23037338	-1.77032996

ID4	-0.23216709	0.23037338	-1.77016535
LY6H	-0.23222536	0.23037338	-1.77063494
PSMD10	0.23220168	0.23037338	1.77044411
CCDC154	-0.23218645	0.23037338	-1.77032142
CST7	-0.23218144	0.23037338	-1.77028097
THNSL2	0.23210901	0.23056152	1.76969735
ATCD1	-0.23206998	0.23064471	-1.76938279
OR8K3	-0.23207114	0.23064471	-1.76939214
IFNA2	-0.23201397	0.23082516	-1.76893146
MCCC1	0.23200526	0.23082566	1.76886126
ESM1	-0.23197162	0.23087046	-1.76859018
FAM36A	-0.23196776	0.23087046	-1.76855907
LSM3	0.23196934	0.23087046	1.76857187
MED15	0.23195632	0.23088133	1.76846695
FLJ39639	-0.23192618	0.23096342	-1.76822408
SLC35B3	0.23191181	0.23098550	1.76810825
FAM26D	-0.23183453	0.23121450	-1.76748560
KCNT2	-0.23183517	0.23121450	-1.76749081
OR5T2	-0.23178215	0.23137653	-1.76706358
STEAP1	0.23176629	0.23137653	1.76693581
TTC35	0.23176854	0.23137653	1.76695392
PTPDC1	-0.23174428	0.23142638	-1.76675852
GTF2H3	0.23173606	0.23142638	1.76669232
SIX1	0.23170453	0.23151394	1.76643823
IL8	0.23167440	0.23159614	1.76619553
PPAT	0.23166379	0.23160390	1.76611010
ZNF816A	0.23160423	0.23176698	1.76563026
CNNM1	-0.23160391	0.23176698	-1.76562765
HDAC6	0.23151420	0.23195447	1.76490504
DLEU1	0.23148950	0.23195447	1.76470612
LOC139431	-0.23154312	0.23195447	-1.76513797
FOXA3	-0.23146419	0.23195447	-1.76450224
MYL6	-0.23146057	0.23195447	-1.76447308

PAX2	-0.23153439	0.23195447	-1.76506769	
RARRES1	-0.23146989	0.23195447	-1.76454814	
C3orf51	-0.23151003	0.23195447	-1.76487145	
ZNF469	-0.23151268	0.23195447	-1.76489283	
MAP4K3	0.23147050	0.23195447	1.76455301	
AQR	0.23147599	0.23195447	1.76459724	
ARL5B	0.23143648	0.23200198	1.76427899	
C1orf111	-0.23143101	0.23200198	-1.76423496	
KHDRBS1	0.23141823	0.23201809	1.76413202	
CCDC27	-0.23138394	0.23211635	-1.76385582	
ERP27	-0.23133092	0.23212083	-1.76342880	
METTL6	0.23137246	0.23212083	1.76376337	
XRRA1	0.23132289	0.23212083	1.76336412	
GSTM4	0.23132511	0.23212083	1.76338201	
EXD2	0.23134928	0.23212083	1.76357670	
TRPV1	0.23134395	0.23212083	1.76353375	
PITPNM1	0.23133716	0.23212083	1.76347904	
LSM14B	-0.23127293	0.23215278	-1.76296175	
MARK2	0.23129525	0.23215278	1.76314154	
ALG6	0.23128497	0.23215278	1.76305877	
PSENN	0.23129792	0.23215278	1.76316302	
MRC2	-0.23127178	0.23215278	-1.76295249	yes
OR51L1	-0.23120093	0.23239072	-1.76238192	
PRDM16	-0.23118914	0.23240309	-1.76228701	
SLC12A7	0.23116731	0.23241419	1.76211119	
LOC100133411	-0.23115286	0.23241419	-1.76199478	
MAP6D1	-0.23115206	0.23241419	-1.76198838	
C7orf64	0.23115462	0.23241419	1.76200895	
FSTL5	-0.23111692	0.23248317	-1.76170542	
SNX4	0.23112234	0.23248317	1.76174902	
ZNF770	0.23109117	0.23254893	1.76149807	
NCAPD3	0.23106614	0.23261198	1.76129647	
CCDC124	-0.23102310	0.23267856	-1.76094994	

EPHA3	-0.23103084	0.23267856	-1.76101226	
USP30	0.23103903	0.23267856	1.76107817	
NOP58	0.23101320	0.23268379	1.76087018	
METTL3	0.23100404	0.23268618	1.76079641	
MORC3	0.23095313	0.23281777	1.76038655	
MKKS	0.23095255	0.23281777	1.76038185	
GEN1	0.23089710	0.23297794	1.75993535	
PLG	-0.23089361	0.23297794	-1.75990727	
CIB2	-0.23087443	0.23298600	-1.75975289	
KRT18	0.23087771	0.23298600	1.75977930	
SAP30BP	0.23083662	0.23304808	1.75944843	
SERPINA2	-0.23083354	0.23304808	-1.75942364	
PRPS1	0.23083261	0.23304808	1.75941620	
RGS16	-0.23081921	0.23306674	-1.75930827	
TWIST1	-0.23080082	0.23310447	-1.75916022	
TMEM224	-0.23077919	0.23315459	-1.75898612	
HOXC10	-0.23076161	0.23318926	-1.75884454	
KIAA1949	-0.23074920	0.23320413	-1.75874463	
ZPBP2	-0.23072630	0.23322650	-1.75856029	
GRP	0.23073148	0.23322650	1.75860196	
PHACTR3	-0.23070300	0.23325044	-1.75837271	
SCARNA5	-0.23070884	0.23325044	-1.75841975	
PSME4	0.23067112	0.23330723	1.75811607	
SOX14	-0.23067490	0.23330723	-1.75814651	
NLGN3	-0.23063551	0.23341095	-1.75782941	
AGPAT2	0.23060918	0.23347917	1.75761744	
KLHDC2	0.23058109	0.23355413	1.75739134	
MAD2L1BP	0.23053022	0.23371642	1.75698187	
ANKRD13B	-0.23051003	0.23374365	-1.75681940	
COL8A2	-0.23048085	0.23374365	-1.75658452	yes
GC	-0.23050422	0.23374365	-1.75677257	
TRHDE	-0.23048999	0.23374365	-1.75665808	
C1orf53	-0.23048052	0.23374365	-1.75658183	

FAM149B1	0.23045745	0.23378030	1.75639613	yes
ITGAV	0.23044463	0.23378030	1.75629298	
YTHDF1	0.23045053	0.23378030	1.75634049	
INHBE	-0.23043690	0.23378030	-1.75623073	
CYP4B1	0.23041639	0.23382629	1.75606565	
ZNF780A	0.23035711	0.23397321	1.75558856	
OR52D1	-0.23034402	0.23397321	-1.75548323	
MAP3K7	0.23035108	0.23397321	1.75554001	
PROK1	-0.23035718	0.23397321	-1.75558910	
FLJ10213	0.23032405	0.23401715	1.75532253	
GABBR1	-0.23030779	0.23404691	-1.75519161	
ATP7A	0.23027110	0.23415501	1.75489637	
AADAC	0.23024343	0.23422854	1.75467368	
IFT52	0.23022328	0.23427322	1.75451153	yes
SYCE2	-0.23018270	0.23436369	-1.75418496	
ANGEL2	0.23018895	0.23436369	1.75423530	
CLU	-0.23013805	0.23439524	-1.75382568	
ANKLE1	-0.23014047	0.23439524	-1.75384513	
CSNK2A2	0.23013463	0.23439524	1.75379812	
ZNF564	0.23013196	0.23439524	1.75377663	
BCMO1	-0.23016496	0.23439524	-1.75404217	
ROBO1	0.23009786	0.23449354	1.75350222	
MRPS14	0.23008615	0.23450586	1.75340800	
B3GNT1	-0.23002497	0.23458820	-1.75291576	
TNNI3K	-0.23004245	0.23458820	-1.75305639	
NEUROG2	-0.23000606	0.23458820	-1.75276358	
TMBIM1	0.23000860	0.23458820	1.75278404	
LOC728606	-0.23001101	0.23458820	-1.75280341	
TNIP2	0.23000522	0.23458820	1.75275680	
RNF8	0.23001527	0.23458820	1.75283767	
CYP2S1	0.22999351	0.23460052	1.75266264	
NUDT16	-0.22992401	0.23483490	-1.75210346	
CNGB3	-0.22991473	0.23483793	-1.75202877	

FGB	-0.22989271	0.23485065	-1.75185163	
MGC33894	-0.22987248	0.23485065	-1.75168885	
VAX2	-0.22986342	0.23485065	-1.75161594	
NRN1	-0.22986047	0.23485065	-1.75159220	
APOO	0.22988057	0.23485065	1.75175389	
CD22	-0.22986587	0.23485065	-1.75163564	yes
GSN	0.22982117	0.23496405	1.75127600	
GYS2	-0.22981399	0.23496405	-1.75121825	
C7orf43	-0.22979292	0.23500609	-1.75104873	
RAB11FIP4	0.22978608	0.23500609	1.75099371	
S100A7	-0.22974874	0.23508437	-1.75069339	
MRPS5	0.22975153	0.23508437	1.75071583	
SH3BGR	-0.22972588	0.23511723	-1.75050942	
SH3GL1	0.22972323	0.23511723	1.75048813	
TRIM59	0.22968647	0.23522600	1.75019238	
DYSFIP1	-0.22967113	0.23525236	-1.75006901	
ENO3	-0.22958204	0.23547926	-1.74935239	
PLAC1L	-0.22957824	0.23547926	-1.74932179	
ZDHHC21	0.22958772	0.23547926	1.74939810	
RGS8	-0.22959065	0.23547926	-1.74942163	
ACADSB	0.22956463	0.23549899	1.74921236	
OPRL1	-0.22955603	0.23549944	-1.74914320	
NMUR1	-0.22954014	0.23552800	-1.74901533	
ADAMTS8	-0.22952795	0.23554229	-1.74891728	
TMEM63B	0.22951687	0.23555231	1.74882816	
FMR1NB	-0.22949521	0.23557850	-1.74865401	
UAP1	0.22949311	0.23557850	1.74863708	
C1orf85	0.22947267	0.23562459	1.74847264	
C7	-0.22945711	0.23565186	-1.74834752	
PET112L	0.22944068	0.23568248	1.74821541	
SLC16A10	-0.22940060	0.23578379	-1.74789303	
CXXC5	-0.22939743	0.23578379	-1.74786756	
CECR2	-0.22938192	0.23581089	-1.74774283	

CTBP1	0.22934430	0.23591207	1.74744020	
DENR	0.22933872	0.23591207	1.74739537	
HYI	-0.22925848	0.23618874	-1.74675006	
FAM168B	0.22924136	0.23622211	1.74661236	
C10orf46	0.22923265	0.23622301	1.74654236	yes
SLC1A6	-0.22920108	0.23631213	-1.74628846	
STARD8	-0.22916321	0.23642556	-1.74598395	
LAMC3	-0.22904311	0.23657616	-1.74501828	
CHCHD4	-0.22903524	0.23657616	-1.74495498	
SLC31A2	-0.22910592	0.23657616	-1.74552327	
TMEM176B	-0.22908867	0.23657616	-1.74538455	
LIPM	-0.22902892	0.23657616	-1.74490418	
MOS	-0.22910983	0.23657616	-1.74555468	
MTMR12	0.22901710	0.23657616	1.74480910	
PTPRM	-0.22906690	0.23657616	-1.74520949	
SBK2	-0.22907784	0.23657616	-1.74529752	
GPR101	-0.22901415	0.23657616	-1.74478539	
SLC13A2	-0.22901927	0.23657616	-1.74482658	
PTPLA	-0.22909410	0.23657616	-1.74542826	
SLC25A44	0.22906062	0.23657616	1.74515907	
ZDHHC7	0.22897518	0.23669395	1.74447204	
SNORD49A	0.22896442	0.23670284	1.74438552	
KRCC1	0.22892973	0.23680414	1.74410660	
LOC100133325	-0.22886370	0.23696118	-1.74357580	
RHBDD3	-0.22886519	0.23696118	-1.74358777	
GRAMD3	0.22886855	0.23696118	1.74361476	
SLAIN1	-0.22882014	0.23709687	-1.74322556	
CYB5A	0.22877876	0.23715876	1.74289293	
APH1A	0.22879277	0.23715876	1.74300557	
LIPF	-0.22878539	0.23715876	-1.74294622	
MAOA	0.22876063	0.23719615	1.74274721	
NRGN	-0.22873998	0.23721066	-1.74258114	yes
LYRM2	-0.22874497	0.23721066	-1.74262129	

LOC642864	-0.22873026	0.23721553	-1.74250307
VSIG2	0.22870320	0.23722216	1.74228552
KRT85	-0.22870605	0.23722216	-1.74230845
NDUFV2	0.22870551	0.23722216	1.74230409
LRRC8A	0.22869339	0.23722744	1.74220663
BCL2L11	0.22867030	0.23724702	1.74202109
ISM1	-0.22865954	0.23724702	-1.74193457
TRIT1	0.22866284	0.23724702	1.74196109
TRIM7	0.22865454	0.23724702	1.74189434
PSD	-0.22863524	0.23728898	-1.74173923
CNTNAP2	-0.22862391	0.23730013	-1.74164818
DOCK5	0.22860919	0.23732442	1.74152981
CELSR2	0.22859888	0.23732654	1.74144698
TBCA	-0.22858332	0.23732654	-1.74132187
CD83	-0.22858334	0.23732654	-1.74132206
LOC100130348	-0.22853318	0.23738480	-1.74091892
C19orf41	-0.22850379	0.23738480	-1.74068266
OR51A2	-0.22851682	0.23738480	-1.74078736
KCTD3	0.22853995	0.23738480	1.74097331
CHIC1	-0.22853688	0.23738480	-1.74094862
KLK10	0.22850076	0.23738480	1.74065832
SLC1A1	0.22854325	0.23738480	1.74099978
YES1	0.22850364	0.23738480	1.74068142
C18orf10	0.22847980	0.23743325	1.74048982
AMBRA1	0.22840838	0.23766182	1.73991581
DENND1C	-0.22840383	0.23766182	-1.73987931
APOBEC3F	-0.22837935	0.23769133	-1.73968250
KIAA0247	0.22837953	0.23769133	1.73968401
OPN1SW	-0.22836491	0.23771119	-1.73956652
LOC645870	-0.22835736	0.23771119	-1.73950577
ACTR1B	0.22832013	0.23772482	1.73920658
ZFP28	-0.22834403	0.23772482	-1.73939866
ACRBP	-0.22833618	0.23772482	-1.73933558

HN1L	0.22832267	0.23772482	1.73922699
RHOG	-0.22828402	0.23783193	-1.73891642
JAKMIP1	-0.22823298	0.23793168	-1.73850624
FLT1	-0.22824083	0.23793168	-1.73856934
CIAPIN1	0.22823753	0.23793168	1.73854283
ZNF660	-0.22820700	0.23798317	-1.73829752
C15orf41	0.22820283	0.23798317	1.73826401
FAM151A	-0.22815900	0.23805007	-1.73791180
MNT	-0.22815495	0.23805007	-1.73787927
RABIF	0.22816154	0.23805007	1.73793222
MRPS11	0.22815187	0.23805007	1.73785452
GGNBP1	-0.22810229	0.23817687	-1.73745614
AP3B2	-0.22810775	0.23817687	-1.73750001
E2F7	0.22806981	0.23827010	1.73719514
DSCR3	0.22805153	0.23830830	1.73704830
HRCT1	-0.22802092	0.23836942	-1.73680231
C18orf12	-0.22801893	0.23836942	-1.73678633
NRXN2	-0.22800256	0.23840024	-1.73665482
AGER	-0.22793881	0.23851001	-1.73614262
NEUROD2	-0.22794280	0.23851001	-1.73617468
TRMT6	0.22794973	0.23851001	1.73623037
C10orf59	-0.22794971	0.23851001	-1.73623022
FGFBP1	0.22793218	0.23851001	1.73608932
C21orf99	-0.22788020	0.23867893	-1.73567176
FABP4	-0.22786482	0.23870596	-1.73554818
HTR1A	-0.22784151	0.23876375	-1.73536093
OR10T2	-0.22778551	0.23894841	-1.73491108
PROKR2	-0.22772847	0.23903928	-1.73445282
MOCS1	-0.22773591	0.23903928	-1.73451259
CCDC47	0.22772867	0.23903928	1.73445443
PTX3	-0.22773551	0.23903928	-1.73450938
RINL	-0.22768803	0.23907095	-1.73412802
GIMAP1	-0.22766988	0.23907095	-1.73398219

LOC100133410	-0.22767504	0.23907095	-1.73402367	
NSUN4	0.22768880	0.23907095	1.73413417	
SSTR1	-0.22769357	0.23907095	-1.73417248	
DDX3Y	0.22767585	0.23907095	1.73403015	
RPL29P31	-0.22766110	0.23907242	-1.73391165	
UBE2L3	0.22754184	0.23947039	1.73295373	
DSCR8	-0.22754577	0.23947039	-1.73298532	
RNU2-2	-0.22751927	0.23952545	-1.73277247	
SLC29A2	-0.22749649	0.23954869	-1.73258950	
ARAF	0.22749917	0.23954869	1.73261102	
IGSF22	-0.22747189	0.23961166	-1.73239193	
PCSK6	-0.22743007	0.23974162	-1.73205608	
LOC257358	-0.22740601	0.23980254	-1.73186283	
BCL9L	-0.22736563	0.23986475	-1.73153855	
MECR	0.22734802	0.23986475	1.73139717	
C22orf26	-0.22736271	0.23986475	-1.73151511	
NARG2	0.22736356	0.23986475	1.73152192	
NPFF	-0.22735476	0.23986475	-1.73145128	
MAP7D2	-0.22733146	0.23989652	-1.73126419	
XPO6	0.22729171	0.24001855	1.73094494	
UCHL5	0.22728070	0.24002873	1.73085652	
NSUN5	0.22722216	0.24019125	1.73038647	
GRINL1A	-0.22722467	0.24019125	-1.73040656	
KRTAP19-3	-0.22718613	0.24029889	-1.73009715	
NAP5	-0.22716946	0.24033113	-1.72996330	
FGD1	-0.22715225	0.24036549	-1.72982506	
C21orf70	-0.22712661	0.24043269	-1.72961920	
ST3GAL2	-0.22709668	0.24051663	-1.72937886	yes
FAM12B	-0.22707807	0.24055645	-1.72922945	
OLFML2B	-0.22704963	0.24063462	-1.72900108	
EVI1	0.22702710	0.24064887	1.72882027	yes
FRG1	0.22702080	0.24064887	1.72876966	
FLJ16165	-0.22702920	0.24064887	-1.72883709	

PILRA	-0.22697310	0.24080216	-1.72838671	
CCL17	-0.22690886	0.24102010	-1.72787093	
SCN11A	-0.22688900	0.24102189	-1.72771150	
SYT10	-0.22687422	0.24102189	-1.72759287	
STX18	0.22687502	0.24102189	1.72759927	
AKT1S1	-0.22689340	0.24102189	-1.72774685	
COPB2	0.22686646	0.24102189	1.72753055	
UBE3B	0.22684810	0.24106084	1.72738313	
ASCL3	-0.22682253	0.24112586	-1.72717791	
CH25H	0.22681467	0.24112586	1.72711479	
LHX9	-0.22677798	0.24123639	-1.72682022	
LOC100133402	-0.22674814	0.24132018	-1.72658071	
RPP30	0.22673102	0.24133687	1.72644328	
TRAPPC6B	0.22671872	0.24133687	1.72634456	
IL1F10	-0.22672549	0.24133687	-1.72639889	
PXDNL	-0.22668187	0.24143237	-1.72604876	
SERPINB12	-0.22667751	0.24143237	-1.72601378	
MINPP1	0.22665112	0.24150273	1.72580198	
A1CF	-0.22663597	0.24152708	-1.72568034	
MYO6	0.22662814	0.24152708	1.72561745	yes
RNF166	-0.22660970	0.24156638	-1.72546949	
WNT10A	-0.22659642	0.24158556	-1.72536286	
PDZD7	-0.22657342	0.24164271	-1.72517827	
OR2C1	-0.22656172	0.24165569	-1.72508440	
PSMA8	-0.22655044	0.24166707	-1.72499382	
ZC3H12D	-0.22650400	0.24177258	-1.72462111	
PRELP	-0.22650559	0.24177258	-1.72463385	
GPR158	-0.22649832	0.24177258	-1.72457557	
LANCL1	0.22644992	0.24192914	1.72418707	
REG1A	-0.22638813	0.24213816	-1.72369118	yes
C12orf35	0.22636862	0.24218175	1.72353462	
ZRSR2	-0.22631361	0.24236436	-1.72309317	
RAB40A	-0.22628936	0.24242655	-1.72289858	

GPAA1	0.22620899	0.24270873	1.72225364
HLA-DOA	-0.22618753	0.24272720	-1.72208146
WDR75	0.22619426	0.24272720	1.72213549
C1orf83	0.22616006	0.24276924	1.72186108
TIMP2	-0.22616585	0.24276924	-1.72190754
SYTL2	0.22612952	0.24283719	1.72161600
BMP5	-0.22612599	0.24283719	-1.72158771
C6orf123	-0.22610119	0.24290166	-1.72138868
SEP2	0.22605113	0.24306523	1.72098702
C7orf13	0.22602558	0.24306696	1.72078207
GNG3	-0.22602559	0.24306696	-1.72078211
LOC100133426	-0.22603717	0.24306696	-1.72087505
LOC100131720	-0.22589608	0.24308719	-1.71974313
PECI	-0.22592872	0.24308719	-1.72000499
GABARAPL2	0.22595349	0.24308719	1.72020370
ADH1A	-0.22590087	0.24308719	-1.71978151
FAM109A	-0.22597030	0.24308719	-1.72033855
ADSS	0.22589122	0.24308719	1.71970415
OR5A2	-0.22594312	0.24308719	-1.72012052
NR5A2	-0.22596863	0.24308719	-1.72032517
AMFR	0.22591572	0.24308719	1.71990070
NTN3	-0.22589976	0.24308719	-1.71977259
PLEKHA9	-0.22595300	0.24308719	-1.72019974
RLIM	0.22598224	0.24308719	1.72043436
POU1F1	-0.22593995	0.24308719	-1.72009509
UBE2V2	0.22598288	0.24308719	1.72043944
CD6	-0.22600061	0.24308719	-1.72058170
NR1D2	0.22588666	0.24308719	1.71966756
DCST1	-0.22587288	0.24310850	-1.71955699
ATG7	0.22583822	0.24318241	1.71927896
CSF1	-0.22583733	0.24318241	-1.71927184
HPSE	0.22577469	0.24339169	1.71876929
SPEM1	-0.22575061	0.24339169	-1.71857613

C12orf5	0.22576221	0.24339169	1.71866919	
AMIGO1	-0.22575122	0.24339169	-1.71858102	
MIOS	0.22570223	0.24348331	1.71818805	
UTY	0.22570443	0.24348331	1.71820571	
FCRL4	-0.22570443	0.24348331	-1.71820574	
ESRRA	-0.22567672	0.24355069	-1.71798346	
ZCCHC10	0.22561233	0.24377084	1.71746701	
RAB9A	0.22557488	0.24388522	1.71716665	
CPZ	-0.22553480	0.24401002	-1.71684514	
ANXA6	-0.22551355	0.24406076	-1.71667470	
ZNF663	-0.22546966	0.24420055	-1.71632276	
IL2RA	-0.22545740	0.24421596	-1.71622442	yes
ZFR2	-0.22544040	0.24425002	-1.71608806	
ABCA12	0.22542756	0.24426771	1.71598509	
FLJ45256	-0.22538707	0.24439423	-1.71566036	
FLJ22184	-0.22533510	0.24456600	-1.71524364	
DMRTC2	-0.22532329	0.24457966	-1.71514889	
RPS24	0.22526173	0.24475643	1.71465528	
SMYD3	0.22526809	0.24475643	1.71470626	
LOC440733	-0.22525309	0.24475760	-1.71458598	
ADK	0.22522764	0.24482084	1.71438193	
NQO1	0.22522035	0.24482084	1.71432351	yes
LOC284379	-0.22513081	0.24509082	-1.71360552	
ELOVL3	-0.22513360	0.24509082	-1.71362790	
TMSB10	0.22512686	0.24509082	1.71357381	
GABRB2	-0.22509339	0.24518995	-1.71330545	
SCUBE3	-0.22506158	0.24521739	-1.71305045	
ABCB9	-0.22506344	0.24521739	-1.71306537	
SVOP	-0.22506141	0.24521739	-1.71304907	
LOC100130872	-0.22501742	0.24535807	-1.71269639	
C16orf38	-0.22500185	0.24537707	-1.71257160	
ZNF2	-0.22499593	0.24537707	-1.71252409	
PSMD5	0.22497767	0.24541623	1.71237771	

SLC20A2	0.22493804	0.24550687	1.71205998
CAMK2A	-0.22494505	0.24550687	-1.71211618
RPS15	0.22492689	0.24551800	1.71197057
TUBGCP4	0.22490832	0.24555840	1.71182171
SEC13	0.22488718	0.24557606	1.71165225
KCNK5	-0.22489407	0.24557606	-1.71170750
PEX3	0.22484130	0.24572435	1.71128445
CEBPA	-0.22480048	0.24576951	-1.71095723
GNMT	-0.22479657	0.24576951	-1.71092591
VPS35	0.22479724	0.24576951	1.71093128
PCDHB12	-0.22479654	0.24576951	-1.71092566
UPK1B	0.22477095	0.24583770	1.71072055
LOC100128252	-0.22468418	0.24588141	-1.71002500
PNPLA6	0.22474884	0.24588141	1.71054332
COL13A1	-0.22466831	0.24588141	-1.70989781
DYNC1H1	0.22474201	0.24588141	1.71048858
METRNL	-0.22471786	0.24588141	-1.71029495
MEX3D	-0.22466957	0.24588141	-1.70990792
FXVD4	-0.22466928	0.24588141	-1.70990560
CNO	0.22469703	0.24588141	1.71012798
LOC651503	-0.22470342	0.24588141	-1.71017923
YWHAZ	0.22467961	0.24588141	1.70998840
BUB3	0.22470188	0.24588141	1.71016687
OR5AU1	-0.22465238	0.24591146	-1.70977016
TNNT1	-0.22463470	0.24594847	-1.70962839
GLRX	0.22462369	0.24595911	1.70954014
ABCG5	-0.22459191	0.24605182	-1.70928543
NDUFA3	-0.22456514	0.24609185	-1.70907092
ACP1	0.22457093	0.24609185	1.70911727
ASGR1	-0.22454662	0.24613219	-1.70892248
INTS2	0.22448821	0.24626449	1.70845434
SPRR2C	-0.22449645	0.24626449	-1.70852038
NAT11	0.22450384	0.24626449	1.70857957

MCOLN3	-0.22446297	0.24629853	-1.70825209	
C6orf62	0.22446306	0.24629853	1.70825279	
VSNL1	0.22440121	0.24650998	1.70775709	
NLK	0.22438924	0.24651799	1.70766115	
ZNF695	-0.22438256	0.24651799	-1.70760763	
TMEM66	0.22435475	0.24659515	1.70738476	
SEP3	-0.22431736	0.24667733	-1.70708518	
ALOXE3	-0.22431837	0.24667733	-1.70709326	
PVRL1	0.22430686	0.24668602	1.70700099	
C5orf4	-0.22428808	0.24669714	-1.70685052	
IPP	0.22427400	0.24669714	1.70673771	yes
LOC552889	0.22428013	0.24669714	1.70678682	yes
SLC7A10	-0.22427081	0.24669714	-1.70671218	
GATA3	-0.22421521	0.24685686	-1.70626664	
GPR84	-0.22421386	0.24685686	-1.70625578	
TMEM204	-0.22420414	0.24686244	-1.70617795	
BRWD3	0.22417220	0.24695606	1.70592200	
MGC33407	-0.22409917	0.24704799	-1.70533688	
REV1	0.22412808	0.24704799	1.70556853	
AICDA	-0.22409963	0.24704799	-1.70534059	
PTPRA	0.22411577	0.24704799	1.70546988	
RAB6C	-0.22412503	0.24704799	-1.70554403	
CD164	0.22411419	0.24704799	1.70545718	
ZNF576	-0.22407667	0.24710426	-1.70515658	
ANKLE2	0.22404710	0.24712277	1.70491968	
SLC7A6OS	0.22406095	0.24712277	1.70503069	
CPNE3	0.22404920	0.24712277	1.70493652	
RAG1AP1	0.22402235	0.24718797	1.70472136	
RGMA	-0.22401050	0.24720203	-1.70462647	
DENND2D	0.22399624	0.24722565	1.70451224	
TNS1	-0.22395434	0.24735884	-1.70417657	
FGF17	-0.22394226	0.24737385	-1.70407977	
MAP3K6	0.22384999	0.24770692	1.70334061	

MGST2	0.22379920	0.24785889	1.70293371	
CLIC6	0.22379511	0.24785889	1.70290100	
TBL1XR1	0.22375180	0.24799793	1.70255408	
LOC100130633	0.22373640	0.24801851	1.70243069	
DLX3	-0.22373003	0.24801851	-1.70237968	
AP1M2	0.22371817	0.24803268	1.70228465	
CA8	-0.22367154	0.24815202	-1.70191116	
FBXO18	0.22367422	0.24815202	1.70193267	
AK2	0.22364877	0.24820955	1.70172876	
ST6GALNAC2	0.22363116	0.24821360	1.70158776	
HSPB7	-0.22363282	0.24821360	-1.70160101	
ELFN1	-0.22359879	0.24824340	-1.70132850	
MKL1	-0.22360204	0.24824340	-1.70135450	
SCIN	0.22360105	0.24824340	1.70134662	
KLK2	-0.22355406	0.24838825	-1.70097023	
HK3	-0.22353825	0.24841813	-1.70084364	
BDKRB1	0.22351217	0.24848888	1.70063474	
ADAM3A	-0.22347220	0.24854463	-1.70031462	
ZNF544	0.22347142	0.24854463	1.70030841	
COMMD8	0.22347114	0.24854463	1.70030612	
LRRC2	-0.22346500	0.24854463	-1.70025700	
SSPO	-0.22345195	0.24856359	-1.70015246	
LCLAT1	0.22343076	0.24861493	1.69998273	
RASGEF1A	-0.22341498	0.24864472	-1.69985640	
LIM2	-0.22338831	0.24871788	-1.69964279	
DNAJB1	0.22333343	0.24882087	1.69920333	
ARHGAP1	0.22332934	0.24882087	1.69917057	
ZNF223	0.22332929	0.24882087	1.69917022	
CREB3L3	-0.22334489	0.24882087	-1.69929508	
LOC283711	-0.22332093	0.24882122	-1.69910322	
EGFL7	-0.22329530	0.24885732	-1.69889797	yes
TMEM30A	0.22330067	0.24885732	1.69894103	
AKT3	-0.22321021	0.24886241	-1.69821668	

CDH10	-0.22322747	0.24886241	-1.69835483
RAPGEF4	-0.22320301	0.24886241	-1.69815902
COPE	0.22320554	0.24886241	1.69817926
C7orf29	-0.22324597	0.24886241	-1.69850301
GGA2	0.22322050	0.24886241	1.69829908
KCNA6	-0.22322414	0.24886241	-1.69832823
MCART6	-0.22322849	0.24886241	-1.69836301
SYT4	-0.22325003	0.24886241	-1.69853548
EFTUD1	0.22328236	0.24886241	1.69879437
TAS1R2	-0.22320659	0.24886241	-1.69818764
RPL10L	-0.22318569	0.24889350	-1.69802036
OR9K2	-0.22317319	0.24889350	-1.69792026
RPL12	0.22317039	0.24889350	1.69789783
CDX4	-0.22313343	0.24900766	-1.69760191
RSHL1	-0.22310818	0.24907525	-1.69739974
LOC100131401	-0.22308520	0.24908917	-1.69721577
GBAP	0.22306729	0.24908917	1.69707236
HSF1	-0.22307522	0.24908917	-1.69713582
PDE11A	-0.22309281	0.24908917	-1.69727668
PRKG1	-0.22305510	0.24908917	-1.69697477
NROB2	-0.22305744	0.24908917	-1.69699352
hCG_1776018	-0.22298921	0.24931857	-1.69644726
GPR128	-0.22297581	0.24933905	-1.69633994
ADAMTS17	-0.22296503	0.24934907	-1.69625368
SAFB	0.22294611	0.24939155	1.69610215
CRYAB	-0.22292884	0.24940677	-1.69596392
YTHDF2	0.22292577	0.24940677	1.69593934
GNA11	0.22290394	0.24944401	1.69576463
RRAGC	0.22289990	0.24944401	1.69573226
FGF6	-0.22287918	0.24948572	-1.69556641
KCNK10	-0.22287292	0.24948572	-1.69551625
SLC39A11	0.22276906	0.24955540	1.69468491
MMD2	-0.22278483	0.24955540	-1.69481111

TMEM189	0.22284144	0.24955540	1.69526426	
CLEC4GP1	-0.22273992	0.24955540	-1.69445167	
TEX15	-0.22274479	0.24955540	-1.69449065	
RPN2	0.22279554	0.24955540	1.69489682	
C2orf47	0.22276741	0.24955540	1.69467171	
C10orf57	0.22275693	0.24955540	1.69458776	yes
LOC100133439	0.22279260	0.24955540	1.69487335	
SPACA1	-0.22276589	0.24955540	-1.69465951	
SPPL2A	0.22275568	0.24955540	1.69457776	
CHRD1	-0.22279137	0.24955540	-1.69486349	
ZNF432	0.22282078	0.24955540	1.69509887	
KIAA0101	0.22274745	0.24955540	1.69451195	
DGKH	0.22270544	0.24962770	1.69417561	
SPP1	-0.22270333	0.24962770	-1.69415879	
USP4	0.22269704	0.24962770	1.69410842	
CDK6	0.22262246	0.24970826	1.69351144	
ERMAP	-0.22262680	0.24970826	-1.69354622	
ACMSD	-0.22262366	0.24970826	-1.69352110	
DAB2	-0.22261914	0.24970826	-1.69348490	
ZMYND8	0.22261971	0.24970826	1.69348947	
GGTA1	-0.22265593	0.24970826	-1.69377933	
PGGT1B	0.22265035	0.24970826	1.69373470	
MYOC	-0.22261039	0.24971032	-1.69341483	
APBA2	-0.22259363	0.24974425	-1.69328074	
RPS15AP25	-0.22257751	0.24977567	-1.69315169	
NPY5R	-0.22256453	0.24979457	-1.69304783	
ERGIC2	0.22254938	0.24982211	1.69292660	
POSTN	-0.22251986	0.24990695	-1.69269030	
CYP27A1	-0.22249003	0.24999302	-1.69245158	

genename	r-value	FDR	t-value	CMH-associated
TMPRSS4	0.73246336	0.00000187	7.97891041	
RGS18	-0.71471580	0.00000421	-7.57843960	
F2RL1	0.70441459	0.00000554	7.36004662	
MPP1	-0.70257461	0.00000554	-7.32203325	
TRIM16	0.69346090	0.00000602	7.13793848	
ITGB3	-0.69472811	0.00000602	-7.16312928	
RAB25	0.69236760	0.00000602	7.11630737	
FER1L6	0.69338193	0.00000602	7.13637287	
MYO5B	0.68779116	0.00000750	7.02677386	
CDCP1	0.68470168	0.00000845	6.96723410	
CYP2C18	0.68250769	0.00000881	6.92538236	
GNG11	-0.68044917	0.00000881	-6.88643369	
DYSF	-0.68074166	0.00000881	-6.89194911	yes
TJP2	0.67457721	0.00001236	6.77698367	
DHRS9	0.66775188	0.00001541	6.65272356	yes
CEACAM5	0.66848179	0.00001541	6.66586478	
LIPH	0.66834816	0.00001541	6.66345624	
ATP7B	0.66758293	0.00001541	6.64968670	
LOC57228	0.66680573	0.00001541	6.63574084	
OSBPL2	0.66613790	0.00001541	6.62378841	
SRPX2	0.65542679	0.00002929	6.43590745	
MACC1	0.65494042	0.00002929	6.42754184	
CTNND1	0.65315322	0.00003142	6.39692160	
RDH10	0.64937778	0.00003446	6.33284674	
F13A1	-0.65060155	0.00003446	-6.35352619	
ANXA2P1	0.65013896	0.00003446	6.34569929	
CAPN2	0.64918038	0.00003446	6.32951903	
GPR110	0.64603904	0.00004047	6.27685877	
MAL2	0.64386999	0.00004326	6.24081780	yes
STK24	0.64385880	0.00004326	6.24063262	
FXD3	0.64319685	0.00004361	6.22968542	
EBF1	-0.64026336	0.00004607	-6.18145717	yes

MARK2	0.64067861	0.00004607	6.18825611	
HABP4	-0.64162343	0.00004607	-6.20375997	
PRKCB	-0.64125943	0.00004607	-6.19778121	
SYTL5	0.63987106	0.00004607	6.17504247	
CYP2C9	0.63747024	0.00004888	6.13596277	
SERINC5	0.63715825	0.00004888	6.13090653	
TNFRSF21	0.63813803	0.00004888	6.14680248	
FAM49A	-0.63750553	0.00004888	-6.13653507	
DQX1	0.63639426	0.00004994	6.11854646	
TGFA	0.63591676	0.00005018	6.11083654	yes
ANXA2	0.63431053	0.00005397	6.08498833	yes
SH2D4A	0.63318241	0.00005642	6.06691293	
FLI1	-0.63190270	0.00005823	-6.04648678	
FHL5	-0.63196931	0.00005823	-6.04754803	
OCIAD2	0.63122828	0.00005838	6.03575515	
CLDN7	0.63079162	0.00005838	6.02881903	
NID2	-0.63102951	0.00005838	-6.03259665	
RICS	0.63033998	0.00005876	6.02165492	yes
NHSL2	-0.62971566	0.00005889	-6.01176849	
KIAA1217	0.62963656	0.00005889	6.01051720	
ATP10B	0.62889893	0.00006034	5.99886418	
CLEC14A	-0.62742708	0.00006224	-5.97569177	yes
GPX2	0.62763294	0.00006224	5.97892636	
KLF5	0.62772460	0.00006224	5.98036738	
SULT1C4	-0.62613294	0.00006480	-5.95540459	
STX3	0.62641797	0.00006480	5.95986583	
RASGRP2	-0.62565990	0.00006548	-5.94800931	yes
CXCL12	-0.62480164	0.00006767	-5.93461927	
INMT	-0.62390277	0.00006925	-5.92063352	yes
LMO7	0.62355569	0.00006925	5.91524346	
RHBDL2	0.62367233	0.00006925	5.91705420	
UNC13B	0.62311374	0.00006993	5.90838845	
OSTalpha	0.62005192	0.00007812	5.86114961	

MYO10	0.61985668	0.00007812	5.85815230	
PGD	0.61960689	0.00007812	5.85431988	
GIMAP5	-0.61989173	0.00007812	-5.85869018	
TXN	0.62028398	0.00007812	5.86471462	
B4GALT4	0.61974154	0.00007812	5.85638544	
EPB41L1	0.61747626	0.00008637	5.82174871	
ITM2A	-0.61733442	0.00008637	-5.81958775	
ABHD2	0.61663428	0.00008675	5.80893451	
S1PR1	-0.61635229	0.00008675	-5.80465001	
CTTN	0.61693663	0.00008675	5.81353233	
MRAS	-0.61629430	0.00008675	-5.80376935	
VIM	-0.61555918	0.00008923	-5.79261918	
RASSF2	-0.61435902	0.00009419	-5.77446731	
PPBP	-0.61330462	0.00009853	-5.75857335	
SGCE	-0.61309542	0.00009853	-5.75542569	
DPYSL2	-0.61138279	0.00010699	-5.72973030	
CSGALNACT1	-0.61083645	0.00010892	-5.72156038	
ANXA6	-0.60957726	0.00011206	-5.70278018	
GIMAP4	-0.60998671	0.00011206	-5.70887943	
TMEM55A	-0.60945305	0.00011206	-5.70093147	
PRKAR2B	-0.60946764	0.00011206	-5.70114851	
TUBB1	-0.60850972	0.00011664	-5.68691222	
TMEM45B	0.60800251	0.00011855	5.67939021	
CMKLR1	-0.60770718	0.00011913	-5.67501553	
SHE	-0.60743994	0.00011953	-5.67106022	
S100P	0.60693438	0.00012026	5.66358580	
ARHGAP25	-0.60692342	0.00012026	-5.66342389	
SGPP2	0.60531849	0.00012705	5.63976864	
IKZF2	0.60563317	0.00012705	5.64439815	yes
JAM2	-0.60549276	0.00012705	-5.64233201	
TRIM29	0.60508507	0.00012732	5.63633727	
TSPAN15	0.60479461	0.00012800	5.63207065	
RBM35A	0.60426209	0.00013039	5.62425764	

F11R	0.60358340	0.00013387	5.61431718
MRAP2	0.60314817	0.00013567	5.60795253
JAM3	-0.60287355	0.00013632	-5.60394072
RUNX1T1	-0.60134429	0.00014648	-5.58165755
ZFPM2	-0.60079962	0.00014933	-5.57374427
ELMO1	-0.60055370	0.00014984	-5.57017531
CYP3A5	0.59961373	0.00015428	5.55655694
ERBB3	0.59946752	0.00015428	5.55444186
S100A14	0.59957491	0.00015428	5.55599520
MUC16	0.59928938	0.00015431	5.55186602
C20orf24	0.59898746	0.00015535	5.54750325
SYTL2	0.59845026	0.00015837	5.53974994
BNIP1	0.59786299	0.00016189	5.53128736
UPK1B	0.59654973	0.00017191	5.51241321
SH3RF1	0.59607596	0.00017314	5.50562119
FGFBP1	0.59616219	0.00017314	5.50685665
DSP	0.59526117	0.00017911	5.49396096
CEACAM6	0.59437066	0.00018601	5.48124703
GLT8D4	-0.59364455	0.00019152	-5.47090352
DENND2C	0.59257965	0.00020068	5.45577113
PPP1R3C	-0.59210034	0.00020399	-5.44897441
ANKRD29	-0.59118785	0.00020634	-5.43605977
ITGA9	-0.59108054	0.00020634	-5.43454306
NFATC2	-0.59123179	0.00020634	-5.43668082
C4orf18	-0.59148759	0.00020634	-5.44029840
RBM47	0.59120875	0.00020634	5.43635523
GBP6	0.59090143	0.00020659	5.43201258
GIMAP1	-0.59011106	0.00021011	-5.42086103
GGTA1	-0.59015312	0.00021011	-5.42145380
SELL	-0.59016832	0.00021011	-5.42166808
SERPIN8	0.58967037	0.00021325	5.41465347
BDKRB2	0.58945851	0.00021392	5.41167192
CD93	-0.58887215	0.00021546	-5.40342880

CAMK1D	0.58888001	0.00021546	5.40353929	
B4GALT5	0.58906551	0.00021546	5.40614563	
ADFP	-0.58820843	0.00022123	-5.39411396	
LRRC4	0.58778822	0.00022435	5.38822521	
AQP1	-0.58698700	0.00023196	-5.37701540	
S100A16	0.58602739	0.00024176	5.36362136	
DIDO1	0.58587805	0.00024183	5.36153999	
ST6GALNAC1	0.58555656	0.00024228	5.35706229	
BTK	-0.58569772	0.00024228	-5.35902787	
POF1B	0.58540873	0.00024237	5.35500455	
ANXA11	0.58524078	0.00024271	5.35266774	
PTPRH	0.58475832	0.00024695	5.34596071	
CNRIP1	-0.58438379	0.00024837	-5.34076016	
CCDC21	0.58436896	0.00024837	5.34055430	
PLCE1	0.58361843	0.00025616	5.33014869	
MGP	-0.58321061	0.00025968	-5.32450319	
TTC39A	0.58301054	0.00026053	5.32173583	
SPRR3	0.58278515	0.00026109	5.31861994	
VANGL1	0.58269977	0.00026109	5.31744010	
SELM	-0.58177412	0.00026464	-5.30466622	yes
ALDH3A1	0.58217461	0.00026464	5.31018910	
SDCBP2	0.58185999	0.00026464	5.30584986	
GYPC	-0.58201310	0.00026464	-5.30796108	
FAM65B	-0.58190022	0.00026464	-5.30640457	
CAV1	-0.58156854	0.00026566	-5.30183337	
TRAK1	0.58135367	0.00026681	5.29887428	
FMNL3	-0.58106964	0.00026890	-5.29496518	
RASEF	0.58085783	0.00027004	5.29205199	
GSR	0.58001376	0.00027812	5.28045898	
SDC2	-0.58001400	0.00027812	-5.28046231	
SUSD4	0.57983906	0.00027881	5.27806283	
NEBL	0.57965539	0.00027950	5.27554463	yes
TMEM204	-0.57954156	0.00027950	-5.27398471	

ERLIN1	0.57888731	0.00028147	5.26502753	yes
RASSF8	-0.57891714	0.00028147	-5.26543551	
FLRT2	-0.57908114	0.00028147	-5.26767956	
DDR2	-0.57879276	0.00028147	-5.26373428	
TM6SF1	-0.57924989	0.00028147	-5.26998957	
MME	-0.57802418	0.00029064	-5.25323399	
APOD	-0.57724328	0.00029852	-5.24258673	
CDH1	0.57725490	0.00029852	5.24274509	
RFTN1	-0.57486239	0.00032784	-5.21025728	
DHX35	0.57491976	0.00032784	5.21103396	
C6orf134	0.57502810	0.00032784	5.21250097	
SCEL	0.57521096	0.00032784	5.21497798	
MARVELD2	0.57460541	0.00032893	5.20677969	yes
RAPGEFL1	0.57434535	0.00032893	5.20326280	
TMEM40	0.57446666	0.00032893	5.20490303	
BAG1	0.57433307	0.00032893	5.20309678	
G6PD	0.57360745	0.00033517	5.19329654	
LMCD1	-0.57365193	0.00033517	-5.19389683	yes
NRN1	-0.57363883	0.00033517	-5.19371998	
LOC100133317	-0.57321482	0.00033976	-5.18800125	
CA12	0.57202410	0.00035799	5.17197501	
ARMCX1	-0.57176552	0.00036055	-5.16850112	
MFSD2	0.57117360	0.00036901	5.16055758	
CYP2C19	0.57092072	0.00037155	5.15716764	
TMEM100	-0.57072554	0.00037307	-5.15455260	
SLC9A8	0.57023677	0.00037790	5.14800976	
HOXB2	-0.57002272	0.00037790	-5.14514696	
TACSTD2	0.57008145	0.00037790	5.14593231	
WIPF1	-0.57028538	0.00037790	-5.14866011	
SLC40A1	-0.56939538	0.00038744	-5.13676573	
SNORA20	-0.56925947	0.00038797	-5.13495163	yes
RHOJ	-0.56885213	0.00039360	-5.12951860	
EBF3	-0.56845248	0.00039514	-5.12419343	yes

HBB	-0.56845938	0.00039514	-5.12428534	
VILL	0.56851515	0.00039514	5.12502816	
C1orf116	0.56832337	0.00039560	5.12247424	
RREB1	0.56800546	0.00039965	5.11824343	
PECAM1	-0.56781751	0.00040125	-5.11574374	
SERPINB11	0.56744874	0.00040527	5.11084267	
CD34	-0.56740150	0.00040527	-5.11021527	
ZDHHC3	0.56709749	0.00040918	5.10617865	
FAM83A	0.56689841	0.00041106	5.10353707	
ASCC2	0.56659896	0.00041494	5.09956610	
KCNN3	-0.56619300	0.00041903	-5.09418742	
LGALS1	-0.56618988	0.00041903	-5.09414620	
FGR	-0.56576274	0.00042355	-5.08849278	
LIMS2	-0.56583181	0.00042355	-5.08940654	yes
SLC16A9	0.56547413	0.00042534	5.08467640	
JARID2	0.56554165	0.00042534	5.08556896	
GABRP	0.56527495	0.00042687	5.08204421	
CYP4F12	0.56520076	0.00042687	5.08106402	
TM9SF4	0.56505616	0.00042781	5.07915432	
GOLGA1	0.56485578	0.00042813	5.07650895	
ANO2	-0.56484513	0.00042813	-5.07636839	
LDB2	-0.56435863	0.00043607	-5.06995138	
TANC2	0.56351489	0.00045168	5.05884082	
FGF2	-0.56339217	0.00045175	-5.05722672	
RASSF3	-0.56331916	0.00045175	-5.05626670	
DNM3	-0.56288642	0.00045896	-5.05058003	
CD83	-0.56229108	0.00046984	-5.04276656	
CDGAP	-0.56157086	0.00048378	-5.03332943	
PTPRB	-0.56115517	0.00049108	-5.02789014	
GLE1	0.56086160	0.00049133	5.02405218	
KLF9	-0.56094512	0.00049133	-5.02514385	
GAN	0.56093675	0.00049133	5.02503446	
EMP3	-0.56057243	0.00049368	-5.02027452	

BDKRB1	0.56065260	0.00049368	5.02132151	
SPRR1A	0.56046886	0.00049393	5.01892207	
TTC28	-0.55982485	0.00050245	-5.01052039	
COLEC12	-0.55985970	0.00050245	-5.01097481	
FAIM3	-0.55985247	0.00050245	-5.01088046	
NSDHL	0.55972749	0.00050259	5.00925144	
ATP8B2	-0.55937726	0.00050867	-5.00468901	
HEBP2	0.55911430	0.00051060	5.00126609	yes
THRB	0.55919544	0.00051060	5.00232206	
C1orf106	0.55860862	0.00051836	4.99468975	
NAV3	-0.55862014	0.00051836	-4.99483943	
MAP7	0.55835490	0.00052232	4.99139315	
NQO1	0.55794630	0.00052791	4.98608854	yes
DUOXA1	0.55803306	0.00052791	4.98721453	
MEOX2	-0.55782521	0.00052870	-4.98451759	
ILDR1	0.55758317	0.00053031	4.98137874	
MGST1	0.55766984	0.00053031	4.98250239	
SMAD3	0.55738459	0.00053089	4.97880487	
NUAK1	-0.55746218	0.00053089	-4.97981040	
CX3CR1	-0.55702164	0.00053768	-4.97410371	
FRMD3	-0.55644003	0.00055006	-4.96657889	
FCGR2A	-0.55577260	0.00056047	-4.95795689	
S100A11	0.55585403	0.00056047	4.95900811	yes
CLEC7A	-0.55593092	0.00056047	-4.96000083	
AKR1C2	0.55559729	0.00056058	4.95569445	
DNMBP	0.55566950	0.00056058	4.95662630	
PLXNC1	-0.55525243	0.00056509	-4.95124681	
LST1	-0.55533167	0.00056509	-4.95226844	
CR1	-0.55503594	0.00056739	-4.94845660	
TMPRSS2	0.55499490	0.00056739	4.94792790	
SMARCC1	0.55435348	0.00058203	4.93967036	
CLDN4	0.55395929	0.00059033	4.93460192	
C12orf49	0.55352015	0.00059997	4.92896125	

MYH14	0.55313447	0.00060827	4.92401208	
NPLOC4	0.55266418	0.00061674	4.91798342	
SOD3	-0.55273481	0.00061674	-4.91888840	
TNS3	-0.55246326	0.00062006	-4.91540987	
GIMAP8	-0.55235546	0.00062077	-4.91402960	
CSTB	0.55215120	0.00062422	4.91141518	yes
CPA4	0.55197162	0.00062698	4.90911771	
ATP1B1	0.55188331	0.00062717	4.90798824	
GALNT5	0.55167290	0.00062858	4.90529814	
RAB38	0.55167142	0.00062858	4.90527928	
PTRF	-0.55155855	0.00062949	-4.90383684	yes
FABP3	-0.55130702	0.00062995	-4.90062370	
CD200	-0.55142382	0.00062995	-4.90211542	
EXD2	0.55122193	0.00062995	4.89953712	
TMEM164	0.55126022	0.00062995	4.90002602	
TCEB3	0.55090134	0.00063685	4.89544532	
ALDH3B2	0.55080169	0.00063743	4.89417418	
KIF13B	0.55045346	0.00063939	4.88973422	
ANGPT1	-0.55034106	0.00063939	-4.88830191	
C14orf139	-0.55059398	0.00063939	-4.89152537	
LBH	-0.55039964	0.00063939	-4.88904835	
GRAP2	-0.55048840	0.00063939	-4.89017949	
CCDC109A	0.55003040	0.00064613	4.88434512	yes
BCAS1	0.54993492	0.00064666	4.88312957	
C19orf21	0.54918279	0.00065822	4.87356418	
ODZ4	0.54915622	0.00065822	4.87322660	
MEF2C	-0.54929862	0.00065822	-4.87503617	
STYK1	0.54917932	0.00065822	4.87352007	
TUBA1C	0.54934204	0.00065822	4.87558809	
PIP4K2C	0.54890305	0.00066164	4.87001078	
SDPR	-0.54888872	0.00066164	-4.86982880	
KRT8	0.54842839	0.00067086	4.86398683	
ANGPTL1	-0.54847068	0.00067086	-4.86452329	

ROR1	-0.54775182	0.00068915	-4.85541210	
VAMP8	0.54759089	0.00069179	4.85337452	
ENTPD5	0.54751595	0.00069179	4.85242589	
ACACA	0.54715633	0.00070064	4.84787624	
KIAA0146	0.54692795	0.00070312	4.84498883	
MOXD1	-0.54695177	0.00070312	-4.84528990	
APBB1IP	-0.54662258	0.00070695	-4.84113057	
UBAP2	0.54666205	0.00070695	4.84162908	
RAB11FIP1	0.54658402	0.00070695	4.84064351	
GCLC	0.54638289	0.00071098	4.83810410	yes
ERMP1	0.54627663	0.00071202	4.83676287	
MNDA	-0.54607362	0.00071614	-4.83420144	
DACT1	-0.54593494	0.00071631	-4.83245240	
SCIN	0.54592261	0.00071631	4.83229688	
EMCN	-0.54551736	0.00072697	-4.82718924	
C9orf152	0.54539659	0.00072853	4.82566804	
FCGR3A	-0.54526231	0.00073054	-4.82397711	
LRCH2	-0.54509377	0.00073135	-4.82185563	
TKT	0.54512703	0.00073135	4.82227416	
CCL14	-0.54464851	0.00074355	-4.81625472	
CAPN5	0.54434769	0.00075113	4.81247398	
CDH5	-0.54409751	0.00075652	-4.80933175	
MFNG	-0.54404349	0.00075652	-4.80865352	
TPRXL	0.54391290	0.00075851	4.80701432	
ZBTB7C	0.54363116	0.00076552	4.80347929	
RPAIN	0.54356332	0.00076552	4.80262852	
OCLN	0.54326344	0.00077330	4.79886911	
MBOAT2	0.54295055	0.00077920	4.79494928	
TMEM63B	0.54295598	0.00077920	4.79501729	
TGFB111	-0.54273989	0.00078404	-4.79231187	yes
WBSCR17	-0.54260022	0.00078646	-4.79056389	
GEM	-0.54181441	0.00080871	-4.78074007	
ABCC1	0.54186494	0.00080871	4.78137122	

SDC4	0.54175642	0.00080871	4.78001584	
GMFG	-0.54131117	0.00082215	-4.77445816	
LIFR	-0.54111882	0.00082412	-4.77205896	
SOCS2	-0.54112536	0.00082412	-4.77214044	
ELTD1	-0.54087305	0.00083053	-4.76899494	
GJB5	0.54069120	0.00083466	4.76672905	
SNX10	-0.54005533	0.00085500	-4.75881300	
GRHL2	0.54000292	0.00085500	4.75816110	
CMTM3	-0.53982323	0.00085917	-4.75592654	
CD37	-0.53975114	0.00085933	-4.75503024	
LGALS3	0.53956113	0.00086392	4.75266864	yes
PLBD1	0.53939673	0.00086758	4.75062623	
ST14	0.53887053	0.00088505	4.74409416	
PAK3	-0.53873986	0.00088749	-4.74247329	
OMD	-0.53863950	0.00088852	-4.74122859	
XK	-0.53851250	0.00088852	-4.73965409	
PVRL4	0.53857070	0.00088852	4.74037566	
ANKRD22	0.53817137	0.00089401	4.73542698	
CPT2	0.53822052	0.00089401	4.73603591	
ZDHC5	0.53824873	0.00089401	4.73638537	
C13orf18	-0.53757926	0.00090941	-4.72809768	
PDGFD	-0.53762035	0.00090941	-4.72860603	
CLINT1	0.53770261	0.00090941	4.72962377	
SPRR1B	0.53735772	0.00091556	4.72535790	
SDR16C5	0.53718874	0.00091896	4.72326915	
MFSD6	0.53714115	0.00091896	4.72268095	
ATP8B1	0.53697067	0.00092315	4.72057465	
TLR4	-0.53670441	0.00093121	-4.71728653	
PGCP	-0.53653911	0.00093462	-4.71524618	
SLC2A1	0.53649001	0.00093462	4.71464025	
C17orf57	-0.53640881	0.00093529	-4.71363837	
SRGN	-0.53624268	0.00093940	-4.71158926	
KRT18	0.53598994	0.00094705	4.70847313	

BAZ1A	0.53571382	0.00094831	4.70507094	yes
DPT	-0.53570373	0.00094831	-4.70494659	
HEG1	-0.53577805	0.00094831	-4.70586218	
HPSE2	-0.53585575	0.00094831	-4.70681950	
CSTF2	0.53550359	0.00095322	4.70248189	
FHL1	-0.53540893	0.00095322	-4.70131651	
H2AFY	0.53539363	0.00095322	4.70112822	yes
MARCH3	0.53527274	0.00095559	4.69964036	
MSRB3	-0.53506531	0.00096154	-4.69708842	
MMP16	-0.53488878	0.00096365	-4.69491757	
OLFML3	-0.53491810	0.00096365	-4.69527809	
TTC9	0.53482594	0.00096367	4.69414502	
ITGA5	-0.53447071	0.00097584	-4.68977976	
CLDN10	0.53436930	0.00097748	4.68853419	
GRHL1	0.53421532	0.00098134	4.68664361	
TAGAP	-0.53402405	0.00098418	-4.68429597	
SGPP1	-0.53402442	0.00098418	-4.68430043	
CD226	-0.53363807	0.00098964	-4.67956156	
CIT	0.53358785	0.00098964	4.67894583	
PLXND1	-0.53367982	0.00098964	-4.68007350	yes
HOXB3	-0.53363317	0.00098964	-4.67950151	
TIAM1	0.53358799	0.00098964	4.67894762	
RAI2	-0.53340581	0.00099281	-4.67671460	
MMD	-0.53339132	0.00099281	-4.67653711	
PBX3	-0.53314083	0.00100089	-4.67346847	
TMOD1	-0.53293434	0.00100713	-4.67094015	
MUC4	0.53287235	0.00100720	4.67018134	
PRCC	0.53277882	0.00100863	4.66903676	
SH3RF2	0.53217733	0.00103214	4.66168115	
TIE1	-0.53207908	0.00103381	-4.66048066	
ENPP2	-0.53178138	0.00104431	-4.65684457	
TEK	-0.53162692	0.00104586	-4.65495887	
HDHD3	0.53165424	0.00104586	4.65529238	

MCM4	0.53148335	0.00104758	4.65320679
REEP4	0.53146916	0.00104758	4.65303362
SMAD7	-0.53128990	0.00105028	-4.65084688
TRAF5	-0.53129637	0.00105028	-4.65092572
NPAS2	0.53103797	0.00105718	4.64777507
FAM57A	0.53101744	0.00105718	4.64752481
RNF150	-0.53066844	0.00107025	-4.64327239
ITGBL1	-0.53058670	0.00107129	-4.64227684
PADI1	0.53049262	0.00107290	4.64113139
SRPX	-0.53013209	0.00108669	-4.63674361
ABCC5	0.53001792	0.00108925	4.63535491
RSPO3	-0.52923461	0.00112307	-4.62583631
SCARA5	-0.52886782	0.00113775	-4.62138479
CXorf36	-0.52872715	0.00114171	-4.61967856
FGFR1	-0.52843828	0.00114753	-4.61617635
FLJ38723	0.52837457	0.00114753	4.61540425
EPS8L1	0.52841288	0.00114753	4.61586855
GLT8D2	-0.52843405	0.00114753	-4.61612504
KLF2	-0.52810245	0.00115792	-4.61210759
KRT13	0.52752710	0.00118334	4.60514388
ARRB1	-0.52737077	0.00118825	-4.60325329
ZBTB20	-0.52679299	0.00121234	-4.59627141
HMGCLL1	-0.52677647	0.00121234	-4.59607196
LY86	-0.52658046	0.00121939	-4.59370548
ADCYAP1R1	-0.52643480	0.00122327	-4.59194755
RAET1E	0.52639040	0.00122327	4.59141180
TNFRSF10C	-0.52606430	0.00123709	-4.58747860
KRT80	0.52591766	0.00123990	4.58571083
RXFP1	-0.52589647	0.00123990	-4.58545540
TALDO1	0.52565797	0.00124933	4.58258159
SETBP1	-0.52544901	0.00125729	-4.58006491
SLC37A1	0.52516189	0.00126574	4.57660880
ADAMTS1	-0.52512519	0.00126574	-4.57616714

SMG7	0.52511933	0.00126574	4.57609668	yes
AKT3	-0.52494382	0.00126909	-4.57398535	
JARID1B	0.52494562	0.00126909	4.57400697	
RARRES2	-0.52480324	0.00127357	-4.57229471	
LIX1L	-0.52446144	0.00128551	-4.56818636	yes
LMTK2	0.52441180	0.00128551	4.56759000	
AP1S2	-0.52446843	0.00128551	-4.56827034	
AKR1C3	0.52390064	0.00131003	4.56145239	
AGR2	0.52374146	0.00131568	4.55954250	
AGPAT3	0.52345610	0.00132827	4.55612022	
SNORD116-26	-0.52338470	0.00132916	-4.55526431	
GPRC5A	0.52316125	0.00133845	4.55258642	
PLCG2	-0.52307960	0.00133992	-4.55160827	
RASGRF2	-0.52275749	0.00135479	-4.54775103	
ZBTB16	-0.52254033	0.00136083	-4.54515201	
ZBED4	0.52257933	0.00136083	4.54561870	
RASD2	-0.52245383	0.00136262	-4.54411707	
SLC26A9	0.52219164	0.00137434	4.54098139	
NOSTRIN	-0.52213225	0.00137463	-4.54027131	
LONRF3	-0.52204197	0.00137667	-4.53919223	
KCNK1	0.52167176	0.00139051	4.53476896	
SLC9A4	0.52171908	0.00139051	4.53533421	
TIMP3	-0.52163661	0.00139051	-4.53434927	
CCND2	-0.52146434	0.00139730	-4.53229238	
RBP7	-0.52140970	0.00139735	-4.53164013	
ITGAM	-0.52109852	0.00141221	-4.52792702	
KCNMA1	-0.52090932	0.00141981	-4.52567073	
RCSD1	-0.52086054	0.00141981	-4.52508915	
LAD1	0.52056796	0.00143381	4.52160197	
BMPR1B	0.52006421	0.00146050	4.51560326	
FKBP10	-0.51971592	0.00147823	-4.51145949	yes
ILK	-0.51960719	0.00148062	-4.51016656	
ASAP2	0.51957003	0.00148062	4.50972470	

SRXN1	0.51929494	0.00149411	4.50645501	
ATP1A2	-0.51905927	0.00150529	-4.50365540	
KL	-0.51893497	0.00150968	-4.50217939	
FAM59A	0.51869169	0.00152145	4.49929162	
WHSC1	0.51840427	0.00153606	4.49588189	
FREM2	0.51831461	0.00153837	4.49481862	
SPARCL1	-0.51826079	0.00153845	-4.49418046	
FAP	-0.51816149	0.00154139	-4.49300328	
C8orf84	-0.51796562	0.00154569	-4.49068200	
GLTP	0.51793609	0.00154569	4.49033218	
CTTNBP2NL	0.51795650	0.00154569	4.49057400	
RAB27B	0.51745803	0.00157267	4.48467096	
RNF8	0.51739840	0.00157316	4.48396522	
GPR124	-0.51694992	0.00159866	-4.47866025	yes
ETS1	-0.51648389	0.00162569	-4.47315291	
KCNAB1	-0.51627538	0.00163603	-4.47069065	
CLIC2	-0.51568990	0.00166712	-4.46378258	
GRASP	-0.51560263	0.00166712	-4.46275360	yes
PLAGL2	0.51561052	0.00166712	4.46284659	
MS4A7	-0.51566376	0.00166712	-4.46347433	
PTPN13	0.51548193	0.00166832	4.46133078	
CGNL1	-0.51550317	0.00166832	-4.46158107	
TNFSF13B	-0.51519321	0.00168261	-4.45792872	
GSTA4	0.51513953	0.00168261	4.45729647	
FAM3B	0.51511688	0.00168261	4.45702971	
RASGRP3	-0.51461726	0.00171267	-4.45114846	
TCF21	-0.51457506	0.00171267	-4.45065199	
KRT6A	0.51439474	0.00172160	4.44853102	
OTUD7B	0.51431658	0.00172350	4.44761204	
DCN	-0.51418573	0.00172905	-4.44607365	
SPAG5	0.51401636	0.00173732	4.44408313	
FBXO34	0.51379323	0.00174633	4.44146187	
TPO	-0.51378647	0.00174633	-4.44138251	yes

THSD1	-0.51360977	0.00175166	-4.43930761	
FA2H	0.51363281	0.00175166	4.43957814	
PLEK	-0.51349056	0.00175651	-4.43790819	
ALOX5	-0.51330888	0.00176522	-4.43577619	
PLVAP	-0.51326698	0.00176522	-4.43528452	yes
SLC7A11	0.51314548	0.00176674	4.43385935	
NR5A2	-0.51315377	0.00176674	-4.43395650	
TBXAS1	-0.51301721	0.00176878	-4.43235507	
TGFB3	-0.51303856	0.00176878	-4.43260540	
TNFSF4	-0.51294710	0.00177023	-4.43153300	
ASS1	0.51288216	0.00177132	4.43077167	
GFRA1	-0.51262981	0.00178576	-4.42781421	
C7	-0.51257490	0.00178615	-4.42717092	
CLIC1	0.51243744	0.00179246	4.42556078	
RASIP1	-0.51212059	0.00181172	-4.42185125	yes
KRT23	0.51194100	0.00181857	4.41974965	
CAPNS1	0.51192777	0.00181857	4.41959487	
DOCK11	-0.51184921	0.00182071	-4.41867587	
ANXA1	0.51178365	0.00182192	4.41790899	
ALPL	0.51164538	0.00182487	4.41629208	
TMPRSS11A	0.51165742	0.00182487	4.41643290	
PDLIM3	-0.51153691	0.00182569	-4.41502395	
MRPL37	0.51154576	0.00182569	4.41512747	
LRRC8C	-0.51097446	0.00186343	-4.40845295	
SLIT3	-0.51087482	0.00186722	-4.40728959	
ARHGAP15	-0.51077978	0.00187069	-4.40618022	
TFEC	-0.51069243	0.00187359	-4.40516087	
DAAM2	-0.51043433	0.00187847	-4.40214981	yes
ZNF521	-0.51055198	0.00187847	-4.40352216	
LOC387763	-0.51048189	0.00187847	-4.40270455	
KIAA1199	0.51049109	0.00187847	4.40281190	
SCNN1A	0.51035223	0.00188102	4.40119240	
ZNF503	-0.51021542	0.00188768	-4.39959729	

E2F7	0.51009140	0.00189340	4.39815157	
GPR115	0.50977536	0.00191364	4.39446948	
PROM2	0.50951055	0.00192802	4.39138603	
LANCL2	0.50949115	0.00192802	4.39116017	
VSIG2	0.50922815	0.00194453	4.38809956	
GLIPR1	-0.50911796	0.00194936	-4.38681781	
SERPINB2	0.50897432	0.00195679	4.38514738	
PDE3A	-0.50871798	0.00196933	-4.38216745	
PREX1	-0.50871993	0.00196933	-4.38219010	
CHRD1	-0.50864250	0.00197154	-4.38129022	
ECT2	0.50853394	0.00197632	4.38002893	
BCL6B	-0.50847651	0.00197713	-4.37936182	
CHP	0.50834441	0.00198378	4.37782752	
BANK1	-0.50829733	0.00198380	-4.37728084	
SORL1	0.50817736	0.00198953	4.37588789	
OLFML1	-0.50801917	0.00199829	-4.37405178	
TSPAN1	0.50773330	0.00201720	4.37073523	
RUNDC3B	-0.50758512	0.00202212	-4.36901685	
HK1	0.50757818	0.00202212	4.36893639	
PDE2A	-0.50743034	0.00203020	-4.36722248	
MYL9	-0.50722338	0.00203922	-4.36482412	
GPR116	-0.50716067	0.00203922	-4.36409757	
PRKG1	-0.50726328	0.00203922	-4.36528640	
SLK	0.50713230	0.00203922	4.36376892	
HN1	0.50698286	0.00204752	4.36203812	
PLK2	-0.50672205	0.00206485	-4.35901865	
SLC2A3	-0.50654525	0.00206801	-4.35697265	
PREX2	-0.50655582	0.00206801	-4.35709494	
ACVRL1	-0.50656473	0.00206801	-4.35719808	yes
C10orf72	-0.50623865	0.00208926	-4.35342639	
ESAM	-0.50611575	0.00209559	-4.35200550	
PHACTR4	0.50605195	0.00209707	4.35126795	
SOX21	0.50564986	0.00212275	4.34662236	

BSPRY	0.50565672	0.00212275	4.34670165	
SERPINB1	0.50544581	0.00213595	4.34426625	
ZCCHC24	-0.50513248	0.00215459	-4.34065033	
VWF	-0.50516557	0.00215459	-4.34103206	
NES	-0.50489717	0.00215916	-4.33793626	yes
ALOX12P2	0.50493825	0.00215916	4.33840997	
LAMA4	-0.50500683	0.00215916	-4.33920094	
CHST10	-0.50493168	0.00215916	-4.33833417	yes
NHSL1	0.50438561	0.00219880	4.33204041	
FHOD3	-0.50425747	0.00220593	-4.33056444	
THSD7A	-0.50414665	0.00221159	-4.32928836	
LPIN1	-0.50407006	0.00221431	-4.32840662	
LY9	-0.50357548	0.00225339	-4.32271584	
CSTA	0.50345679	0.00225986	4.32135104	
PTGR1	0.50329510	0.00226620	4.31949235	yes
PRDM6	-0.50332734	0.00226620	-4.31986288	
DUOX2	0.50322553	0.00226839	4.31869274	
PHLPP	0.50310690	0.00227492	4.31732960	
DENND5A	-0.50297843	0.00228234	-4.31585370	
AGPAT9	0.50266836	0.00230597	4.31229314	
MYO5C	0.50255757	0.00231190	4.31102148	
MARCH1	-0.50250947	0.00231224	-4.31046954	
SFN	0.50243595	0.00231485	4.30962591	
CYBRD1	-0.50221572	0.00233068	-4.30709953	
FANCI	0.50161034	0.00237925	4.30016074	
MRRF	0.50159388	0.00237925	4.29997223	
IL1RN	0.50123281	0.00240680	4.29583774	
GIMAP6	-0.50100755	0.00240680	-4.29325999	
ST5	0.50098786	0.00240680	4.29303474	
FER1L4	0.50100018	0.00240680	4.29317567	
HORMAD1	0.50107148	0.00240680	4.29399145	
TEAD2	-0.50099102	0.00240680	-4.29307092	
PPP1R14A	-0.50113182	0.00240680	-4.29468197	

SNORD8	-0.50092000	0.00240904	-4.29225842	
NDN	-0.50085609	0.00241053	-4.29152742	
N4BP1	0.50081682	0.00241053	4.29107821	yes
AKR1B10	0.50061046	0.00242570	4.28871873	
SERPINI1	-0.50050263	0.00242766	-4.28748608	
SERPINB13	0.50050435	0.00242766	4.28750574	
CPE	-0.50012150	0.00243350	-4.28313167	
ANXA2P2	0.50018843	0.00243350	4.28389607	yes
IMPA2	0.50009536	0.00243350	4.28283308	
NPR1	-0.50035240	0.00243350	-4.28576932	
PDGFRB	-0.50009673	0.00243350	-4.28284879	
BNC2	-0.50020579	0.00243350	-4.28409444	
PCDHGA4	-0.50016744	0.00243350	-4.28365632	
FZD4	-0.50011706	0.00243350	-4.28308088	
TBX3	-0.49972391	0.00246218	-4.27859262	
MAP7D3	-0.49970486	0.00246218	-4.27837523	
AP1M2	0.49946550	0.00248083	4.27564449	
ABCA12	0.49928705	0.00249379	4.27360955	
CUGBP2	-0.49916168	0.00249577	-4.27218025	
CYBB	-0.49911557	0.00249577	-4.27165475	
KRT4	0.49909616	0.00249577	4.27143347	
TLL1	-0.49916263	0.00249577	-4.27219111	
NXPH3	-0.49904707	0.00249583	-4.27087399	
C3orf52	0.49901078	0.00249583	4.27046046	yes
SAMD4A	-0.49883548	0.00250858	-4.26846317	
VIT	-0.49877419	0.00251042	-4.26776500	
ABCB1	-0.49835035	0.00254325	-4.26293950	
SH3PXD2A	0.49837761	0.00254325	4.26324969	
IGSF3	0.49793266	0.00258002	4.25818796	
BGN	-0.49788052	0.00258101	-4.25759505	
GPRASP2	-0.49778369	0.00258512	-4.25649427	
C1orf110	0.49754610	0.00258512	4.25379409	yes
PEAR1	-0.49763492	0.00258512	-4.25480335	yes

MYO1D	0.49755793	0.00258512	4.25392851	
CXCL16	0.49774875	0.00258512	4.25609706	
NKD1	-0.49767504	0.00258512	-4.25525935	yes
SGPL1	0.49760086	0.00258512	4.25441628	
GRHL3	0.49725025	0.00261030	4.25043349	
ERG	-0.49704999	0.00262613	-4.24815982	
ZNF385D	-0.49677696	0.00264938	-4.24506152	
MEOX1	-0.49661305	0.00265191	-4.24320227	
MVK	0.49667905	0.00265191	4.24395086	
PAFAH2	0.49660841	0.00265191	4.24314960	
WDFY4	-0.49658627	0.00265191	-4.24289848	
FLT1	-0.49632178	0.00265785	-4.23989979	
ST8SIA6	-0.49632832	0.00265785	-4.23997395	
SLC8A1	-0.49643241	0.00265785	-4.24115396	
SERPING1	-0.49636252	0.00265785	-4.24036156	
KIAA0319L	0.49642317	0.00265785	4.24104911	
C3orf57	0.49623355	0.00266263	4.23889982	
EPS15L1	0.49608648	0.00267339	4.23723334	
EIF6	0.49603411	0.00267456	4.23664002	
RAET1L	0.49589980	0.00268192	4.23511871	
ENTPD1	-0.49588014	0.00268192	-4.23489614	
MFAP5	-0.49574241	0.00269181	-4.23333653	
COL6A2	-0.49547751	0.00270397	-4.23033814	yes
CAMSAP1	0.49558041	0.00270397	4.23150271	
LOC339524	-0.49550729	0.00270397	-4.23067516	
TMEM63C	0.49546124	0.00270397	4.23015404	
EPHA3	-0.49496387	0.00275117	-4.22452878	
FERMT3	-0.49472185	0.00277223	-4.22179345	
CLIC4	-0.49459208	0.00278161	-4.22032736	
UGT1A10	0.49439904	0.00279770	4.21814719	
AQP3	0.49428012	0.00280602	4.21680447	
P2RY2	0.49399573	0.00283134	4.21359481	
MMRN2	-0.49396154	0.00283134	-4.21320906	

ERN2	0.49369680	0.00285092	4.21022295	
DARC	-0.49365836	0.00285092	-4.20978957	
HIF3A	-0.49370101	0.00285092	-4.21027040	
PDZRN3	-0.49353909	0.00285944	-4.20844481	
MTF1	0.49338324	0.00287195	4.20668816	yes
CTNNAL1	-0.49323024	0.00288419	-4.20496427	
CYP4F3	0.49317601	0.00288575	4.20435327	
NFIB	-0.49311690	0.00288784	-4.20368743	
PITRM1	0.49305403	0.00289034	4.20297940	
PDCD1LG2	-0.49294030	0.00289840	-4.20169866	
SERPINB5	0.49262551	0.00292852	4.19815532	
OSR2	-0.49246099	0.00293806	-4.19630426	
DLG3	0.49241996	0.00293806	4.19584276	
NPR2	-0.49243549	0.00293806	-4.19601741	
MYO1F	-0.49236222	0.00294006	-4.19519329	
LPCAT3	0.49216908	0.00295257	4.19302146	
FRZB	-0.49213076	0.00295257	-4.19259063	
KRT6B	0.49219402	0.00295257	4.19330181	
ADARB1	-0.49209130	0.00295258	-4.19214706	
CEACAM8	0.49189844	0.00296963	4.18997947	
NRP1	-0.49178705	0.00297767	-4.18872799	
PPARGC1A	-0.49174414	0.00297808	-4.18824593	
SLC7A7	-0.49161460	0.00298818	-4.18679086	
TMEM47	-0.49151010	0.00299551	-4.18561734	
KLF11	-0.49141298	0.00300202	-4.18452694	
GATA2	-0.49119087	0.00301843	-4.18203409	
HERC5	-0.49118924	0.00301843	-4.18201580	
DUOX1	0.49063929	0.00307663	4.17584783	
TMEM11	0.49055665	0.00308165	4.17492151	
LRRK2	-0.49036471	0.00309930	-4.17277074	
UNC5C	-0.49030162	0.00310210	-4.17206400	
CHD7	0.48967956	0.00317025	4.16509975	yes
SPARC	-0.48955170	0.00318077	-4.16366933	

PLCB1	-0.48917520	0.00321237	-4.15945940	
MYRIP	-0.48920836	0.00321237	-4.15983012	
AQP9	-0.48916964	0.00321237	-4.15939727	
SNORD116-25	-0.48901858	0.00322581	-4.15770905	yes
AEBP1	-0.48886349	0.00323979	-4.15597628	
DOK5	-0.48841949	0.00328890	-4.15101842	
B4GALNT3	0.48820608	0.00330555	4.14863698	
C16orf70	0.48821335	0.00330555	4.14871802	
ZNF732	-0.48815491	0.00330710	-4.14806603	
KCNT2	-0.48777992	0.00334857	-4.14388425	
PI16	-0.48761382	0.00335964	-4.14203295	
PTPRC	-0.48762113	0.00335964	-4.14211440	
MCCC2	0.48756212	0.00336130	4.14145675	
PRRX1	-0.48721955	0.00339931	-4.13764073	
HECW1	-0.48670428	0.00345970	-4.13190562	
ALDOC	-0.48660875	0.00346700	-4.13084295	
UBA1	0.48629785	0.00350202	4.12738590	
MYLK	-0.48611453	0.00352078	-4.12534848	
ITGB2	-0.48578389	0.00355887	-4.12167543	
MYOF	0.48537126	0.00360819	4.11709486	
CD84	-0.48531036	0.00361120	-4.11641915	
HOXA5	-0.48518617	0.00362263	-4.11504138	
SNORD116-23	-0.48498536	0.00364017	-4.11281428	
LOC283174	-0.48497833	0.00364017	-4.11273634	
FMNL2	-0.48477070	0.00366288	-4.11043455	
GSDMC	0.48461314	0.00367897	4.10868843	
RACGAP1	0.48431966	0.00370327	4.10543739	
GALNT12	0.48437751	0.00370327	4.10607813	
SYTL4	0.48433763	0.00370327	4.10563645	
CXCR4	-0.48422353	0.00371118	-4.10437296	
SH2D3C	-0.48412659	0.00371727	-4.10329969	
CEACAM7	0.48410311	0.00371727	4.10303971	
SNORA23	-0.48396737	0.00373063	-4.10153731	

CENPF	0.48382665	0.00374471	4.09998022	
PSME3	0.48361307	0.00376745	4.09761758	
SLC25A44	0.48358573	0.00376745	4.09731521	
HEPACAM2	0.48341624	0.00378061	4.09544116	
LUM	-0.48341515	0.00378061	-4.09542907	
SLC44A3	0.48321328	0.00379299	4.09319777	
TRAT1	-0.48323346	0.00379299	-4.09342086	
SLC9A3R1	0.48322605	0.00379299	4.09333894	
SHROOM4	-0.48312242	0.00380040	-4.09219373	yes
FIBIN	-0.48296431	0.00381249	-4.09044707	
SLC5A4	-0.48292349	0.00381249	-4.08999613	
RAB7L1	-0.48295198	0.00381249	-4.09031085	
CYTSB	0.48274419	0.00383229	4.08801604	
FAM54A	0.48264529	0.00384092	4.08692420	
DSG3	0.48243345	0.00385502	4.08458612	
SYT11	-0.48248932	0.00385502	-4.08520262	
TBC1D4	-0.48246435	0.00385502	-4.08492712	yes
FN1	-0.48238290	0.00385692	-4.08402828	
FOXF1	-0.48229501	0.00385889	-4.08305864	
FAM101B	-0.48231778	0.00385889	-4.08330983	yes
DSC3	0.48208987	0.00387787	4.08079597	
TAGLN	-0.48208646	0.00387787	-4.08075830	
KDEL1	0.48191439	0.00387960	4.07886110	
GAB3	-0.48189071	0.00387960	-4.07860010	
INHBA	-0.48202448	0.00387960	-4.08007484	
PRKX	0.48192197	0.00387960	4.07894465	
SLC12A6	0.48194247	0.00387960	4.07917068	
IKIP	-0.48166098	0.00388875	-4.07606819	
MYO1E	0.48170663	0.00388875	4.07657118	
PRDX1	0.48165883	0.00388875	4.07604450	
FKBP7	-0.48164344	0.00388875	-4.07587485	
BAI3	-0.48177824	0.00388875	-4.07736038	
CYYR1	-0.48153175	0.00389940	-4.07464435	

SLC31A1	0.48137854	0.00391598	4.07295676
COX7A1	-0.48132073	0.00391904	-4.07232014
DACH1	-0.48128374	0.00391915	-4.07191290
IGFBP7	-0.48111461	0.00393454	-4.07005088
WISP1	-0.48110327	0.00393454	-4.06992606
IL10RB	0.48105383	0.00393644	4.06938180
LRP8	0.48098924	0.00394051	4.06867096
MMRN1	-0.48092299	0.00394483	-4.06794202
TSPAN18	-0.48083826	0.00395180	-4.06700972
FERMT2	-0.48050684	0.00399283	-4.06336461
CD53	-0.48048108	0.00399283	-4.06308132
HMGB3	0.48023606	0.00401792	4.06038812
ADAM19	-0.48026317	0.00401792	-4.06068611
MFGE8	-0.48017456	0.00402165	-4.05971229
APEX2	0.48010125	0.00402711	4.05890683
PAXIP1	0.47963937	0.00407884	4.05383446
GUCY1A3	-0.47969139	0.00407884	-4.05440561
ATOX8	-0.47966867	0.00407884	-4.05415610
DHRS3	0.47960497	0.00407884	4.05345686
IFNE	0.47939227	0.00410497	4.05112264
PSCA	0.47930608	0.00411247	4.05017703
CCR6	-0.47918582	0.00412504	-4.04885789
PRDM5	-0.47884613	0.00415411	-4.04513339
EVI2B	-0.47883649	0.00415411	-4.04502771
ATP13A5	0.47881792	0.00415411	4.04482425
BCL2	-0.47881348	0.00415411	-4.04477555
C13orf33	-0.47889488	0.00415411	-4.04566774
FAM83B	0.47871422	0.00416368	4.04368767
GOS2	-0.47859833	0.00417577	-4.04241786
ARRDC4	0.47839101	0.00420168	4.04014700
RCOR1	0.47830152	0.00420455	4.03916704
SCUBE1	-0.47832769	0.00420455	-4.03945359
ZFP64	0.47819430	0.00421545	4.03799302

EZH2	0.47790526	0.00424869	4.03482965	
ZDHHHC13	0.47791964	0.00424869	4.03498691	yes
HTRA3	-0.47786428	0.00424959	-4.03438118	
BAIAP2	0.47772307	0.00426052	4.03283645	
FAT4	-0.47772260	0.00426052	-4.03283130	
PODN	-0.47756931	0.00426793	-4.03115486	
IL8RA	-0.47760928	0.00426793	-4.03159200	
IP6K2	0.47758082	0.00426793	4.03128072	
ZNF483	-0.47752458	0.00426944	-4.03066580	
DLC1	-0.47730385	0.00429330	-4.02825285	
SGK196	0.47729946	0.00429330	4.02820484	
ORMDL2	0.47720389	0.00429731	4.02716043	
HVCN1	-0.47722970	0.00429731	-4.02744242	
GIMAP7	-0.47715537	0.00429944	-4.02663020	
PHACTR1	-0.47707161	0.00430701	-4.02571501	
IL18	0.47700475	0.00431198	4.02498467	
CTNNA1	0.47696757	0.00431238	4.02457858	
UNQ353	0.47680931	0.00431558	4.02285014	
RFTN2	-0.47682303	0.00431558	-4.02299998	
ECM2	-0.47682813	0.00431558	-4.02305568	
SLC2A4	-0.47680889	0.00431558	-4.02284557	
GSTP1	0.47676462	0.00431710	4.02236214	
USP54	0.47659070	0.00433780	4.02046355	
CRIM1	-0.47656218	0.00433780	-4.02015223	
IFITM2	-0.47650307	0.00434165	-4.01950715	
SAE1	0.47641043	0.00435072	4.01849619	
ZEB1	-0.47610344	0.00438795	-4.01514746	
EFHD2	0.47611364	0.00438795	4.01525864	
MRVI1	-0.47564680	0.00445458	-4.01016976	
EPB41L2	-0.47561064	0.00445490	-4.00977572	
COL5A2	-0.47529180	0.00449990	-4.00630286	
SLC29A1	-0.47526026	0.00449990	-4.00595946	
CLEC12A	-0.47508026	0.00452294	-4.00399980	

NAP1L5	-0.47504862	0.00452294	-4.00365549	
CLCA2	0.47495178	0.00453306	4.00260150	
KIAA0317	0.47490981	0.00453434	4.00214485	yes
CYP2B7P1	0.47486901	0.00453544	4.00170084	
FAM117A	-0.47477089	0.00454581	-4.00063344	
RECK	-0.47460963	0.00456643	-3.99887942	
SLC25A37	-0.47450067	0.00457815	-3.99769453	
SOX18	-0.47446980	0.00457815	-3.99735887	
ZNF185	0.47442388	0.00458012	3.99685957	
KIF11	0.47431431	0.00459246	3.99566851	
LEPR	-0.47414823	0.00460969	-3.99386357	
GALNTL1	-0.47410768	0.00460969	-3.99342296	yes
ISG20L2	0.47413891	0.00460969	3.99376235	
LARP5	0.47397230	0.00462260	3.99195224	yes
C12orf32	0.47396154	0.00462260	3.99183542	
MAP3K3	-0.47388839	0.00462909	-3.99104089	
GLRX3	0.47375101	0.00464616	3.98954899	
KIAA0100	0.47358331	0.00466831	3.98772827	
INADL	0.47338806	0.00468794	3.98560924	yes
PARP15	-0.47340950	0.00468794	-3.98584198	
ARHGAP6	-0.47336441	0.00468794	-3.98535262	
CSF3R	-0.47328899	0.00469491	-3.98453438	
LYPD3	0.47312015	0.00471747	3.98270295	
C1orf144	0.47300622	0.00473094	3.98146737	
PTGIS	-0.47294121	0.00473624	-3.98076248	
ABCB6	0.47284524	0.00474675	3.97972201	
ENG	-0.47275589	0.00475616	-3.97875356	
GALNT3	0.47252346	0.00476821	3.97623491	
APBB2	-0.47251845	0.00476821	-3.97618069	
TRPV2	-0.47254500	0.00476821	-3.97646827	yes
KIAA1305	0.47262477	0.00476821	3.97733260	
GARNL3	-0.47255281	0.00476821	-3.97655286	
NAP1L3	-0.47237274	0.00478721	-3.97460224	

ACTN1	-0.47221926	0.00480760	-3.97294019	
GPC3	-0.47195197	0.00484748	-3.97004665	
MSN	-0.47180698	0.00486100	-3.96847774	
SEMA6A	-0.47180974	0.00486100	-3.96850756	
GPR133	-0.47164975	0.00488232	-3.96677684	
ATP2C2	0.47154967	0.00489388	3.96569433	
FABP4	-0.47149915	0.00489692	-3.96514801	
SRD5A3	0.47114184	0.00495314	3.96128548	
CNKS2	-0.47110004	0.00495469	-3.96083376	
COL4A1	-0.47087898	0.00498185	-3.95844548	yes
VKORC1	-0.47087892	0.00498185	-3.95844485	
BVES	-0.47078831	0.00499198	-3.95746617	
MUC1	0.47069934	0.00500184	3.95650549	
TTC7B	-0.47037379	0.00503042	-3.95299125	
GPM6A	-0.47040035	0.00503042	-3.95327787	
NKIRAS2	0.47038264	0.00503042	3.95308666	
LOC388796	0.47046707	0.00503042	3.95399795	
C10orf58	0.47048885	0.00503042	3.95423298	
CD80	-0.46987347	0.00511357	-3.94759445	
PDE5A	-0.46980011	0.00512088	-3.94680354	
EBNA1BP2	0.46966778	0.00513394	3.94537713	
ABO	0.46962982	0.00513394	3.94496800	
TYMS	0.46964925	0.00513394	3.94517743	
NID1	-0.46951353	0.00514903	-3.94371483	
SPIN3	-0.46945758	0.00514933	-3.94311208	
ANKLE2	0.46944706	0.00514933	3.94299875	
CLEC3B	-0.46923659	0.00518150	-3.94073168	yes
IGJ	-0.46911602	0.00519750	-3.93943326	
FYN	-0.46897246	0.00521299	-3.93788781	
GTF2E2	0.46896624	0.00521299	3.93782085	yes
ADAMTS5	-0.46887049	0.00522456	-3.93679027	
UBAP2L	0.46875735	0.00523934	3.93557273	
SNORD15B	-0.46870252	0.00524348	-3.93498274	

GUCY1A2	-0.46866658	0.00524417	-3.93459615	
KCNMB1	-0.46854970	0.00525969	-3.93333879	
TOX	-0.46849896	0.00526311	-3.93279308	
FGD5	-0.46837726	0.00527958	-3.93148427	
DPEP2	-0.46834371	0.00527986	-3.93112356	
DLL4	-0.46822057	0.00529665	-3.92979966	
KIAA0408	-0.46816348	0.00530128	-3.92918598	
MDH2	0.46805055	0.00531090	3.92797227	
PIK3R1	-0.46804751	0.00531090	-3.92793966	
ABHD6	0.46800236	0.00531335	3.92745448	yes
CHN1	-0.46783003	0.00533933	-3.92560300	
CYTH3	-0.46779851	0.00533933	-3.92526435	
ZHX3	-0.46772052	0.00534791	-3.92442672	
CCDC88A	-0.46737128	0.00540727	-3.92067699	
GAPT	-0.46726850	0.00541267	-3.91957395	
OLFML2B	-0.46730333	0.00541267	-3.91994774	
NAP1L4	0.46722696	0.00541267	3.91912821	
PRDM10	0.46718819	0.00541267	3.91871223	
PIR	0.46718387	0.00541267	3.91866581	
ST3GAL2	-0.46708951	0.00542447	-3.91765348	yes
LPCAT4	0.46697237	0.00544060	3.91639694	
ELL3	0.46693912	0.00544091	3.91604036	
PSMD11	0.46690414	0.00544155	3.91566519	
GSTM5	-0.46677604	0.00545982	-3.91429152	
ZDHHC9	0.46673053	0.00546247	3.91380356	
EVI2A	-0.46660848	0.00547736	-3.91249520	
VTCN1	0.46658907	0.00547736	3.91228721	
LYPD6B	0.46630496	0.00552554	3.90924277	
FSTL1	-0.46621026	0.00553767	-3.90822838	
DENND5B	-0.46610543	0.00555177	-3.90710561	
PPP1R16B	-0.46587214	0.00558884	-3.90460788	
CALD1	-0.46581906	0.00558884	-3.90403965	
DDX23	0.46582495	0.00558884	3.90410270	

PTK6	0.46558377	0.00562840	3.90152180	
BCHE	-0.46554027	0.00563078	-3.90105635	
NONO	0.46545301	0.00564168	3.90012297	
DOCK2	-0.46526203	0.00566887	-3.89808043	
C12orf36	0.46525142	0.00566887	3.89796698	
PGM5	-0.46515829	0.00568100	-3.89697122	
PDGFRL	-0.46512032	0.00568234	-3.89656528	
FAM107A	-0.46499519	0.00568542	-3.89522782	
C7orf31	-0.46500181	0.00568542	-3.89529861	
GPR65	-0.46501927	0.00568542	-3.89548514	
PPAP2B	-0.46498027	0.00568542	-3.89506834	
C1orf115	-0.46483414	0.00570804	-3.89350681	
DGKG	-0.46469913	0.00572855	-3.89206440	yes
FILIP1L	-0.46466790	0.00572860	-3.89173082	
GSTA1	0.46461445	0.00573219	3.89115986	
ADAM22	-0.46455700	0.00573219	-3.89054636	
ACE2	0.46456145	0.00573219	3.89059384	
SMOC2	-0.46443715	0.00574979	-3.88926653	
CHMP4C	0.46420604	0.00578958	3.88679944	
LMOD1	-0.46408732	0.00580712	-3.88553243	
FAM3D	0.46344757	0.00589872	3.87870977	
KANK2	-0.46347597	0.00589872	-3.87901251	
TAF5L	0.46355876	0.00589872	3.87989503	yes
FERMT1	0.46359961	0.00589872	3.88033053	
FEZ1	-0.46349566	0.00589872	-3.87922241	yes
ZEB2	-0.46345833	0.00589872	-3.87882451	
CCDC102B	-0.46335764	0.00590452	-3.87775133	
PRPF4	0.46337937	0.00590452	3.87798290	
ADPRH	-0.46326667	0.00591677	-3.87678199	
KIAA1462	-0.46323108	0.00591778	-3.87640282	
MREG	0.46316185	0.00592444	3.87566520	
PRRG4	0.46313724	0.00592444	3.87540304	
CFHR3	-0.46307546	0.00592460	-3.87474499	

ASPN	-0.46307873	0.00592460	-3.87477978	
C10orf10	-0.46286972	0.00595411	-3.87255387	
FCRL3	-0.46288339	0.00595411	-3.87269951	
TMEM108	-0.46273094	0.00597626	-3.87107641	
CNR1	-0.46206503	0.00610771	-3.86399193	
CCDC6	0.46199706	0.00611306	3.86326933	
SFRS9	0.46197859	0.00611306	3.86307292	
LHFP	-0.46176387	0.00612628	-3.86079073	
ABI3BP	-0.46181716	0.00612628	-3.86135701	
AR	-0.46183013	0.00612628	-3.86149487	
HTRA1	-0.46178020	0.00612628	-3.86096421	yes
WFDC1	-0.46188123	0.00612628	-3.86203802	yes
HARS	0.46152509	0.00615927	3.85825371	
PCOLCE	-0.46157318	0.00615927	-3.85876456	
SLC4A11	0.46151603	0.00615927	3.85815749	
FBLN5	-0.46138263	0.00616946	-3.85674063	
AGTR1	-0.46135406	0.00616946	-3.85643725	
CYTH4	-0.46142918	0.00616946	-3.85723502	
CYTIP	-0.46134717	0.00616946	-3.85636408	
CLCA4	0.46118276	0.00619146	3.85461847	
EIF4E2	0.46118930	0.00619146	3.85468788	
SMURF1	0.46107496	0.00620213	3.85347417	
RBM35B	0.46107232	0.00620213	3.85344610	
TIMP2	-0.46088054	0.00623643	-3.85141094	
HBD	-0.46080238	0.00624669	-3.85058166	
CTSL1	-0.46056954	0.00627722	-3.84811204	
ACP6	0.46057797	0.00627722	3.84820144	
TBX4	-0.46059386	0.00627722	-3.84836988	
VCAM1	-0.46053823	0.00627754	-3.84777994	
GPR141	-0.46046441	0.00628695	-3.84699722	
ID2	-0.46032126	0.00631124	-3.84547971	
PVRL3	-0.46012320	0.00634746	-3.84338062	
CKMT2	-0.46007100	0.00635230	-3.84282749	

TBC1D1	-0.45992809	0.00637678	-3.84131346	
TLL4	0.45974055	0.00641106	3.83932725	
HEYL	-0.45967680	0.00641847	-3.83865229	
BZW2	0.45955737	0.00643805	3.83738782	
C1S	-0.45933582	0.00648010	-3.83504297	
SERINC2	0.45924915	0.00649264	3.83412596	
MFAP3L	-0.45913591	0.00651107	-3.83292793	
APLNR	-0.45902086	0.00652341	-3.83171105	
LOC644538	-0.45903617	0.00652341	-3.83187305	
GM2A	0.45885295	0.00655405	3.82993551	
MYO6	0.45878305	0.00656301	3.82919653	yes
UNC45B	-0.45864544	0.00658706	-3.82774203	yes
KIAA1609	0.45856779	0.00659780	3.82692134	
NGFRAP1	-0.45853211	0.00659919	-3.82654433	
ASSP11	0.45842047	0.00660440	3.82536469	
PMP22	-0.45843410	0.00660440	-3.82550876	
SELP	-0.45842529	0.00660440	-3.82541564	
FAM26E	-0.45829578	0.00661259	-3.82404758	
RPL23AP32	-0.45835053	0.00661259	-3.82462585	
RGS5	-0.45831246	0.00661259	-3.82422377	
TLR10	-0.45819449	0.00662869	-3.82297779	
ITGB6	0.45794319	0.00667200	3.82032448	
DHX33	0.45796349	0.00667200	3.82053873	
LRRC32	-0.45780854	0.00669578	-3.81890327	
CSF1	-0.45772680	0.00670766	-3.81804066	
PDE4B	-0.45769081	0.00670920	-3.81766091	
HS6ST2	0.45758916	0.00672562	3.81658838	
PF4	-0.45741711	0.00675810	-3.81477366	
TMX4	-0.45728551	0.00678148	-3.81338583	
STAP2	0.45723949	0.00678534	3.81290062	
DENND2A	-0.45710230	0.00681010	-3.81145438	
SYNPO2	-0.45702513	0.00682113	-3.81064103	
ADH1B	-0.45695463	0.00683065	-3.80989804	

FBN1	-0.45674534	0.00687221	-3.80769293	
ASAM	-0.45668486	0.00687949	-3.80705589	
GTF3C1	0.45658416	0.00688937	3.80599528	
SLC9A2	0.45660978	0.00688937	3.80626510	
AMMECR1	0.45653261	0.00689461	3.80545244	
DAB2	-0.45627328	0.00694820	-3.80272224	
SYNM	-0.45622503	0.00695271	-3.80221434	
ST6GAL1	0.45615065	0.00695658	3.80143159	
TOP2A	0.45616359	0.00695658	3.80156776	
PIP4K2A	-0.45603026	0.00697799	-3.80016487	
EDNRB	-0.45599683	0.00697907	-3.79981310	
MCOLN3	-0.45576612	0.00702651	-3.79738640	
ANKS1B	-0.45567889	0.00704029	-3.79646914	
FXD1	-0.45554034	0.00706624	-3.79501249	
BCL2L15	0.45520428	0.00713934	3.79148075	
PLS1	0.45517559	0.00713934	3.79117932	
KIAA1949	-0.45500349	0.00717368	-3.78937157	
HTATIP2	0.45491132	0.00718892	3.78840362	
STARD9	-0.45484291	0.00719847	-3.78768530	
CDH11	-0.45476656	0.00720995	-3.78688372	
RNU2-2	-0.45470938	0.00721683	-3.78628346	
STS	0.45458824	0.00723917	3.78501200	
AHCYL2	0.45444660	0.00726656	3.78352567	
CD22	-0.45414579	0.00733291	-3.78037020	yes
PAPSS2	-0.45361527	0.00745669	-3.77480916	
TMEM189	0.45334427	0.00750997	3.77197038	
ARHGAP10	-0.45337024	0.00750997	-3.77224234	
KRT10	0.45325758	0.00752450	3.77106260	
ITPR2	-0.45315084	0.00753692	-3.76994501	
CHST6	0.45317659	0.00753692	3.77021455	
CYP4F11	0.45305300	0.00755432	3.76892080	
AIM2	-0.45298683	0.00756378	-3.76822818	
OGN	-0.45281562	0.00759976	-3.76643652	

ATP10A	-0.45275902	0.00760686	-3.76584429	
RNF19B	0.45271999	0.00760953	3.76543599	
R3HDM2	0.45252805	0.00765098	3.76342833	
TNFRSF1B	-0.45245714	0.00766177	-3.76268681	
ELN	-0.45223418	0.00770975	-3.76035573	
TTF2	0.45221227	0.00770975	3.76012672	
KIAA0101	0.45199066	0.00775932	3.75781082	
BRI3BP	0.45160360	0.00785210	3.75376800	
DCLRE1C	0.45132395	0.00791769	3.75084867	
GNLY	-0.45112541	0.00795423	-3.74877696	
AMOTL1	-0.45112548	0.00795423	-3.74877761	
STIL	0.45107156	0.00795423	3.74821516	
POLR1C	0.45107137	0.00795423	3.74821317	yes
TFAP2C	0.45100399	0.00796451	3.74751024	
DDX41	0.45073590	0.00802788	3.74471448	
CD40	-0.45066443	0.00803934	-3.74396940	
ABCC9	-0.45052380	0.00806861	-3.74250342	
SSPN	-0.45049784	0.00806861	-3.74223291	
LCP1	-0.45042811	0.00807968	-3.74150627	
NFKBIA	-0.45039413	0.00808122	-3.74115210	
CCNB2	0.45027970	0.00810425	3.73995988	
ZNF423	-0.44991852	0.00819372	-3.73619821	
C3	-0.44983723	0.00820807	-3.73535186	
CYP27A1	-0.44965268	0.00825046	-3.73343094	
SLCO2A1	-0.44942581	0.00830460	-3.73107038	
CAPN9	0.44933367	0.00831441	3.73011187	
CTSD	0.44935084	0.00831441	3.73029040	
GALNTL2	-0.44919654	0.00834428	-3.72868563	
ANKRD44	-0.44916441	0.00834540	-3.72835153	
NAALAD2	-0.44894055	0.00837831	-3.72602417	
ADRA1A	-0.44900418	0.00837831	-3.72668564	yes
GUCY1B3	-0.44893258	0.00837831	-3.72594128	
TSR1	0.44896584	0.00837831	3.72628706	

IFIT1	-0.44886531	0.00838913	-3.72524216	
PCBD1	0.44870430	0.00842587	3.72356896	
LOC100129285	0.44833763	0.00852003	3.71976028	
CCDC56	0.44828232	0.00852768	3.71918594	
DGKA	0.44819370	0.00854467	3.71826581	
CCNA2	0.44805308	0.00857629	3.71680613	
TGFBR2	-0.44795833	0.00859510	-3.71582283	
NAT5	0.44788599	0.00860763	3.71507216	
NAV1	0.44777806	0.00863023	3.71395234	
LOC100133401	-0.44763284	0.00865556	-3.71244606	
RANGAP1	0.44763457	0.00865556	3.71246391	
UGT2B17	-0.44756612	0.00866659	-3.71175405	
GRK5	-0.44740567	0.00870428	-3.71009029	
NRGN	-0.44723792	0.00874420	-3.70835139	yes
AADAC	0.44719673	0.00874805	3.70792444	
ACADL	-0.44693339	0.00881563	-3.70519575	
FHL3	-0.44689420	0.00881893	-3.70478976	
P2RY10	-0.44652399	0.00890999	-3.70095594	
KDR	-0.44655126	0.00890999	-3.70123832	
PTPN1	0.44641928	0.00893239	3.69987210	
ADH7	0.44627933	0.00896514	3.69842366	
C3orf55	-0.44617110	0.00898870	-3.69730378	
PKP2	0.44613760	0.00899042	3.69695719	
FUT3	0.44587270	0.00906014	3.69421721	
RAB32	-0.44571015	0.00907555	-3.69253647	
ARHGEF15	-0.44579145	0.00907555	-3.69337698	yes
MCAM	-0.44574821	0.00907555	-3.69292992	
BDH1	0.44573592	0.00907555	3.69280287	
CARD8	-0.44567002	0.00907927	-3.69212162	
TCEAL2	-0.44545276	0.00913546	-3.68987600	
CREB3L1	0.44513327	0.00922253	3.68657527	
SLC14A1	-0.44503178	0.00924471	-3.68552717	
CCDC141	-0.44496648	0.00925606	-3.68485289	yes

RARRES1	-0.44492800	0.00925937	-3.68445552	
SLC22A23	0.44474780	0.00930537	3.68259520	
RRP12	0.44470329	0.00931052	3.68213579	
NFX1	0.44465047	0.00931097	3.68159072	yes
BST1	-0.44464699	0.00931097	-3.68155475	
KRT19	0.44448910	0.00933374	3.67992555	
RNASE1	-0.44452051	0.00933374	-3.68024965	yes
CDH23	-0.44449972	0.00933374	-3.68003509	yes
GAB2	-0.44446224	0.00933374	-3.67964848	
CPVL	-0.44421822	0.00939950	-3.67713145	
CA1	-0.44417362	0.00940477	-3.67667150	
HUNK	0.44414153	0.00940624	3.67634060	
PLXDC2	-0.44409692	0.00941153	-3.67588054	
PITPNM2	-0.44403241	0.00942289	-3.67521546	yes
ALCAM	0.44372905	0.00950744	3.67208875	
CNN1	-0.44364361	0.00952536	-3.67120842	
CSF2RB	-0.44357351	0.00953857	-3.67048622	
TRHDE	-0.44351918	0.00953857	-3.66992655	
CFHR5	-0.44354338	0.00953857	-3.67017583	
SNORD116-14	-0.44338268	0.00954025	-3.66852064	
GEFT	-0.44333645	0.00954025	-3.66804455	yes
FAM117B	0.44334562	0.00954025	3.66813901	
FAM84A	0.44335463	0.00954025	3.66823172	
C8orf42	-0.44344056	0.00954025	-3.66911669	
PTGDR	-0.44332426	0.00954025	-3.66791899	
BOC	-0.44337321	0.00954025	-3.66842315	
TMBIM6	0.44325806	0.00955233	3.66723740	
CACNB2	-0.44319185	0.00956444	-3.66655564	
DENND3	-0.44315049	0.00956889	-3.66612985	
MCOLN2	-0.44303558	0.00958777	-3.66494704	
ANLN	0.44304287	0.00958777	3.66502204	
PARVG	-0.44289443	0.00961484	-3.66349442	
WISP2	-0.44291506	0.00961484	-3.66370668	

CORO2A	0.44255386	0.00971256	3.65999091	
GOT2	0.44250296	0.00972008	3.65946745	
GCNT2	0.44242650	0.00973563	3.65868116	
HMHA1	-0.44239789	0.00973619	-3.65838707	
CD52	-0.44226393	0.00976237	-3.65700980	
PRKCDBP	-0.44223412	0.00976237	-3.65670341	
C21orf81	0.44223796	0.00976237	3.65674286	
MAGEH1	-0.44220597	0.00976281	-3.65641405	
OLFM1	-0.44214702	0.00977294	-3.65580814	
ZMYND8	0.44207117	0.00978840	3.65502868	
FOXA1	0.44201838	0.00979663	3.65448622	
MEG3	-0.44188871	0.00982913	-3.65315399	
COL15A1	-0.44156135	0.00992457	-3.64979189	
DCPS	0.44150885	0.00993281	3.64925279	
COL19A1	-0.44144291	0.00993667	-3.64857593	
FXD6	-0.44144795	0.00993667	-3.64862762	
NPAS3	-0.44141688	0.00993667	-3.64830865	
TRAM1L1	-0.44135591	0.00994764	-3.64768279	yes
ARPC1A	0.44116507	0.01000022	3.64572438	
KIAA1274	-0.44103186	0.01003449	-3.64435768	
ACTA2	-0.44089547	0.01006989	-3.64295860	
MAPK13	0.44077795	0.01009930	3.64175341	
S100A2	0.44057582	0.01015627	3.63968103	
C3orf62	0.44047115	0.01017711	3.63860816	
LTBP1	-0.44045876	0.01017711	-3.63848114	
TNS1	-0.44029608	0.01022157	-3.63681410	
SEP4	-0.44022294	0.01023685	-3.63606468	yes
CAMK2N1	-0.44016044	0.01024865	-3.63542445	
HSPA12B	-0.43990922	0.01032257	-3.63285144	
TM4SF18	-0.43965687	0.01039734	-3.63026795	
PDZRN4	-0.43961005	0.01040411	-3.62978880	
RAMP3	-0.43956245	0.01041018	-3.62930165	
KIF16B	0.43953896	0.01041018	3.62906118	

PARVB	-0.43948689	0.01041473	-3.62852836	yes
STAT5B	-0.43947254	0.01041473	-3.62838160	
CNDP2	0.43937810	0.01043739	3.62741530	
COL8A1	-0.43934316	0.01044026	-3.62705784	
FAM120A	0.43928629	0.01045044	3.62647600	
TRAJ41	-0.43916898	0.01046966	-3.62527619	
TPM1	-0.43919215	0.01046966	-3.62551313	
MELK	0.43914988	0.01046966	3.62508079	
PARP4	0.43904894	0.01048585	3.62404854	
HPCAL1	-0.43906571	0.01048585	-3.62422001	
FLJ78302	-0.43887848	0.01053090	-3.62230574	
SLC30A4	-0.43886204	0.01053090	-3.62213772	
OVOL1	0.43879476	0.01053592	3.62144996	
RYR2	-0.43881192	0.01053592	-3.62162546	
PLEKHA7	0.43868023	0.01056562	3.62027944	
TMTC4	0.43863072	0.01057349	3.61977357	
COL4A2	-0.43858356	0.01058058	-3.61929168	yes
LY96	-0.43843287	0.01061381	-3.61775219	
SNORA54	-0.43844811	0.01061381	-3.61790781	
IL6	-0.43837627	0.01062413	-3.61717407	
PCSK5	0.43813978	0.01068502	3.61475897	yes
ZNF154	-0.43812561	0.01068502	-3.61461421	
AOC3	-0.43811850	0.01068502	-3.61454162	
ME1	0.43802337	0.01070852	3.61357046	
PCDH18	-0.43781125	0.01077203	-3.61140540	
C10orf12	0.43773512	0.01078920	3.61062858	
ACIN1	0.43766259	0.01080516	3.60988862	
IL2RG	-0.43754455	0.01083679	-3.60868437	
VASH1	-0.43748129	0.01084963	-3.60803920	
PIK3AP1	-0.43743826	0.01085553	-3.60760028	
KLF3	0.43740744	0.01085722	3.60728596	
FGF7	-0.43735508	0.01086237	-3.60675206	
ZBTB8OS	0.43728909	0.01086237	3.60607919	

PLSCR4	-0.43729718	0.01086237	-3.60616160	
SLC22A3	-0.43729105	0.01086237	-3.60609912	
PCDH9	-0.43712333	0.01091067	-3.60438927	
TDRD10	-0.43695822	0.01094384	-3.60270649	
ANKRD56	0.43696899	0.01094384	3.60281624	
MYO19	0.43695019	0.01094384	3.60262462	
CNKSR3	0.43666744	0.01103325	3.59974385	
KLK13	0.43661125	0.01104388	3.59917158	
MGC13057	-0.43654843	0.01105685	-3.59853178	
NAGA	0.43650088	0.01106449	3.59804750	
COL14A1	-0.43646447	0.01106824	-3.59767677	
TBX2	-0.43642021	0.01107474	-3.59722614	yes
SLCO2B1	-0.43631731	0.01110182	-3.59617848	
TBX18	-0.43624988	0.01111649	-3.59549208	
SACS	-0.43622104	0.01111762	-3.59519855	
AFF3	-0.43608741	0.01115563	-3.59383854	
MXI1	-0.43597500	0.01118626	-3.59269476	
DNAJC18	-0.43592855	0.01119363	-3.59222208	
YIPF1	0.43564815	0.01128401	3.58937007	
ST6GALNAC3	-0.43556609	0.01130414	-3.58853558	
FOXF2	-0.43549702	0.01131966	-3.58783340	
TLR8	-0.43546012	0.01132371	-3.58745823	
FPR1	-0.43541383	0.01132912	-3.58698769	
TAL1	-0.43539395	0.01132912	-3.58678556	yes
ICAM3	-0.43534707	0.01133675	-3.58630911	
NDUFA8	0.43530009	0.01134129	3.58583157	
ELOVL7	-0.43525807	0.01134129	-3.58540451	
PLA2G10	0.43525800	0.01134129	3.58540380	
ANXA3	0.43511185	0.01138451	3.58391867	
NTAN1	-0.43500848	0.01141249	-3.58286848	
MAGI2	-0.43497831	0.01141421	-3.58256207	
FAM160A1	0.43487091	0.01144371	3.58147114	
PABPC5	-0.43478572	0.01145614	-3.58060592	

NR2F2	-0.43479638	0.01145614	-3.58071425	
GEMIN7	0.43469251	0.01148062	3.57965947	
FRMD4A	-0.43453355	0.01152897	-3.57804565	
TLL12	0.43443129	0.01155689	3.57700777	
ABCC3	0.43433005	0.01158450	3.57598027	
SH3BP5	-0.43427926	0.01159379	-3.57546499	
PK4	-0.43417020	0.01162434	-3.57435847	
SLA	-0.43409447	0.01163355	-3.57359017	
ARHGEF10	-0.43411817	0.01163355	-3.57383064	
GPI	0.43370300	0.01176802	3.56962043	
FLT4	-0.43357836	0.01179542	-3.56835707	yes
E2F8	0.43359912	0.01179542	3.56856750	
A2M	-0.43354250	0.01179936	-3.56799362	
SNORD113-3	-0.43344517	0.01181674	-3.56700726	
PDLIM1	0.43344910	0.01181674	3.56704708	
IL8RB	-0.43341999	0.01181675	-3.56675210	
ADCY4	-0.43333441	0.01183914	-3.56588504	
SEMA3A	0.43330589	0.01184040	3.56559605	yes
FAM110B	-0.43321570	0.01186456	-3.56468242	
C17orf85	0.43301808	0.01192881	3.56268100	
ETV5	-0.43285424	0.01198070	-3.56102215	
EFEMP2	-0.43265780	0.01201680	-3.55903373	yes
PTPRM	-0.43271081	0.01201680	-3.55957023	
S100B	-0.43270533	0.01201680	-3.55951479	
JAGN1	0.43266562	0.01201680	3.55911289	
PSD3	0.43250938	0.01205381	3.55753187	yes
TPM2	-0.43252047	0.01205381	-3.55764406	
CDH7	-0.43244106	0.01207014	-3.55684063	
PDE4DIP	-0.43239255	0.01207901	-3.55634988	
P2RY12	-0.43229481	0.01209513	-3.55536118	
TNXB	-0.43227501	0.01209513	-3.55516089	
FNDC1	-0.43229123	0.01209513	-3.55532491	
MPP2	-0.43214098	0.01213579	-3.55380548	yes

EZR	0.43209279	0.01213579	3.55331819	yes
ACTN2	-0.43209737	0.01213579	-3.55336442	
UGT1A6	0.43188726	0.01218548	3.55124027	
BLVRA	0.43189895	0.01218548	3.55135851	
TMEM62	0.43193674	0.01218548	3.55174047	
IPPK	0.43180140	0.01220078	3.55037246	
SPSB1	0.43179736	0.01220078	3.55033165	
SNTG2	-0.43177227	0.01220089	-3.55007813	
TXK	-0.43167805	0.01222733	-3.54912596	
PIGU	0.43159416	0.01224627	3.54827832	yes
IL1R1	-0.43157889	0.01224627	-3.54812404	
STK38	0.43151999	0.01224987	3.54752903	
TSPAN4	-0.43152469	0.01224987	-3.54757647	
PTGS1	-0.43141051	0.01228226	-3.54642308	
HDGF	0.43128519	0.01232080	3.54515744	
GPR18	-0.43118459	0.01234995	-3.54414171	
RGS9	-0.43099792	0.01241235	-3.54225722	
IGSF6	-0.43071326	0.01251308	-3.53938458	
TMEM93	0.43067278	0.01251923	3.53897620	
PTPRG	-0.43063481	0.01252441	-3.53859315	
CXCR5	-0.43056040	0.01254380	-3.53784247	
TMEM154	0.43037175	0.01256994	3.53593990	yes
SEMA3D	-0.43038101	0.01256994	-3.53603327	
P2RX7	-0.43042568	0.01256994	-3.53648380	
ROBO4	-0.43041274	0.01256994	-3.53635325	yes
LRRC37A4	0.43037040	0.01256994	3.53592632	
SHPK	0.43019315	0.01262965	3.53413919	
RRAS	-0.43011141	0.01265208	-3.53331530	
LOC645106	-0.43000231	0.01268531	-3.53221568	
MS4A1	-0.42989235	0.01271896	-3.53110764	
HOXA4	-0.42983072	0.01273360	-3.53048664	
SPRYD4	0.42976601	0.01274292	3.52983474	
ID4	-0.42975814	0.01274292	-3.52975547	

CORO1A	-0.42967180	0.01276738	-3.52888579	
TXLNA	0.42955330	0.01280462	3.52769223	
SMAD6	-0.42938933	0.01285788	-3.52604122	
HSD17B14	-0.42937036	0.01285788	-3.52585018	yes
SNORD116-27	-0.42930902	0.01287229	-3.52523263	
USP39	0.42926096	0.01287229	3.52474886	
ITGA1	-0.42926151	0.01287229	-3.52475445	
CNTN4	-0.42920259	0.01288584	-3.52416131	
PLN	-0.42906369	0.01293157	-3.52276351	
FIGN	-0.42895062	0.01296709	-3.52162575	
BMP5	-0.42886079	0.01299336	-3.52072205	
ENPEP	-0.42883454	0.01299414	-3.52045796	yes
BRD2	0.42874146	0.01302177	3.51952170	
EMR3	-0.42861430	0.01306321	-3.51824293	
ARNTL2	0.42852471	0.01308957	3.51734203	
MUC20	0.42834686	0.01315175	3.51555418	
TRMT6	0.42823796	0.01318613	3.51445969	
EPCAM	0.42806273	0.01324618	3.51269889	
RPS6KA2	-0.42804209	0.01324618	-3.51249149	
ADAMTS10	-0.42797797	0.01326247	-3.51184736	yes
SLC2A14	-0.42795012	0.01326395	-3.51156754	
ATRNL1	-0.42781179	0.01331067	-3.51017819	
OTUB1	0.42777707	0.01331498	3.50982949	
SLC36A1	0.42768491	0.01333295	3.50890406	
LRRC33	-0.42768727	0.01333295	-3.50892775	
ITGA8	-0.42759720	0.01335907	-3.50802343	
GPC6	-0.42756296	0.01336322	-3.50767958	
CELSR2	0.42750393	0.01337758	3.50708708	
CRYAB	-0.42733359	0.01342794	-3.50537734	
IKZF3	-0.42735348	0.01342794	-3.50557697	
CLIP3	-0.42713594	0.01349978	-3.50339416	
CLEC4A	-0.42709173	0.01350814	-3.50295062	
BTG2	-0.42692399	0.01356790	-3.50126813	

NEXN	-0.42688016	0.01357613	-3.50082858	
NOLC1	0.42666078	0.01365780	3.49862891	
CD48	-0.42650618	0.01371262	-3.49707925	
VPS52	0.42646488	0.01371988	3.49666528	
C10orf25	-0.42640014	0.01373703	-3.49601650	
MYH11	-0.42635110	0.01374757	-3.49552513	
GRAMD1B	0.42624970	0.01378023	3.49450919	
CAMK4	-0.42620045	0.01379090	-3.49401579	
LASP1	0.42614065	0.01379749	3.49341671	
AVPR1A	-0.42613693	0.01379749	-3.49337950	
TARSL2	-0.42592547	0.01387697	-3.49126169	
DDIT4L	-0.42589333	0.01388045	-3.49093991	
ARHGAP9	-0.42577295	0.01391131	-3.48973459	
ZNF552	0.42578577	0.01391131	3.48986293	
ITGAX	-0.42566183	0.01394849	-3.48862227	
GABRE	0.42549521	0.01400953	3.48695472	
FLNA	-0.42515040	0.01414764	-3.48350530	
ARL4C	-0.42509532	0.01416112	-3.48295444	
RAC2	-0.42500463	0.01419005	-3.48204755	
USP10	0.42497570	0.01419224	3.48175824	yes
LRP12	-0.42470252	0.01430065	-3.47902745	
COX5A	0.42463157	0.01431080	3.47831832	
CD28	-0.42463359	0.01431080	-3.47833858	
TGFBR3	-0.42455194	0.01433518	-3.47752263	
SLC44A4	0.42451214	0.01434216	3.47712501	
CSRP1	-0.42442179	0.01434476	-3.47622232	
ABHD11	0.42441106	0.01434476	3.47611510	
ADAMTSL1	-0.42445456	0.01434476	-3.47654971	yes
ROD1	0.42443861	0.01434476	3.47639035	yes
AMPD3	0.42427752	0.01439285	3.47478115	yes
ZNF699	-0.42417554	0.01440688	-3.47376268	
RNF125	-0.42421293	0.01440688	-3.47413616	
EFHD1	-0.42417435	0.01440688	-3.47375085	

CLEC1A	-0.42390316	0.01451587	-3.47104326	
ANKH	-0.42387367	0.01451843	-3.47074887	
ADCY5	-0.42379881	0.01452013	-3.47000175	
LOC400986	0.42383067	0.01452013	3.47031973	
GNB4	-0.42381775	0.01452013	-3.47019073	
ENTPD7	0.42374091	0.01452483	3.46942389	
USP13	-0.42375469	0.01452483	-3.46956137	
PPP2R4	0.42370107	0.01453201	3.46902632	
MERTK	-0.42355756	0.01458510	-3.46759443	
LRRC59	0.42344156	0.01461566	3.46643723	
CPNE5	-0.42346039	0.01461566	-3.46662509	
KIAA0748	-0.42333077	0.01465445	-3.46533223	
LMAN2	0.42304575	0.01477129	3.46249023	
SLC43A1	-0.42277777	0.01488125	-3.45981941	
TBC1D2	0.42271210	0.01490027	3.45916510	
CYGB	-0.42262354	0.01492968	-3.45828271	
PSMG3	0.42256879	0.01494381	3.45773733	
HAPLN1	-0.42243799	0.01499248	-3.45643452	
NCKAP1L	-0.42240787	0.01499548	-3.45613457	
CLIP1	0.42233860	0.01501629	3.45544471	yes
MRGPRF	-0.42226187	0.01504052	-3.45468065	yes
ITGA7	-0.42220629	0.01505515	-3.45412733	yes
LGALS9C	0.42216149	0.01506488	3.45368129	
IFI44L	-0.42206843	0.01509666	-3.45275499	
EIF2AK3	0.42203491	0.01510126	3.45242133	
ODZ3	-0.42193559	0.01512527	-3.45143280	
POLE4	-0.42193786	0.01512527	-3.45145547	
VCAN	-0.42190124	0.01513027	-3.45109103	
SNORA3	-0.42133142	0.01538224	-3.44542312	
PIK3R5	-0.42100409	0.01552400	-3.44216950	
BTLA	-0.42073894	0.01563758	-3.43953510	
AIF1	-0.42067566	0.01565638	-3.43890653	
PRKD1	-0.42054588	0.01570665	-3.43761759	

HLA-DOA	-0.42048899	0.01571293	-3.43705268
CCNB1	0.42048582	0.01571293	3.43702125
DSG2	0.42028776	0.01579580	3.43505492
STX18	0.42010427	0.01587210	3.43323368
GLRB	-0.42000502	0.01590838	-3.43224886
PLCL1	-0.41995460	0.01592133	-3.43174862
NUP62	0.41989453	0.01593892	3.43115260
NTNG1	-0.41983804	0.01594364	-3.43059229
GALNT7	0.41984665	0.01594364	3.43067762
CPXM2	-0.41970939	0.01598634	-3.42931619
FAM113B	-0.41970246	0.01598634	-3.42924747
C14orf49	-0.41966365	0.01599061	-3.42886255
FAM171B	-0.41964702	0.01599061	-3.42869763
PLK4	0.41962000	0.01599242	3.42842972
PLEKHO1	-0.41939428	0.01608996	-3.42619181
TSPYL2	-0.41935727	0.01609662	-3.42582493
RNF182	-0.41927861	0.01610099	-3.42504522
UGCG	0.41930122	0.01610099	3.42526932
XPNPEP1	0.41928460	0.01610099	3.42510462
ATP1A1	0.41908372	0.01618414	3.42311392
APLF	-0.41897618	0.01621739	-3.42204848
RENBP	-0.41896894	0.01621739	-3.42197670
CMTM4	0.41883292	0.01627235	3.42062939
STARD13	-0.41866574	0.01634273	-3.41897377
LCP2	-0.41864030	0.01634385	-3.41872188
ADORA2B	0.41844223	0.01641381	3.41676098
NEDD9	-0.41842831	0.01641381	-3.41662316
C11orf9	0.41842937	0.01641381	3.41663370
P2RY13	-0.41829164	0.01646969	-3.41527051
FAM19A2	-0.41820490	0.01650108	-3.41441211
RNF25	0.41807344	0.01655465	3.41311147
C1R	-0.41796987	0.01659454	-3.41208696
NR2F1	-0.41793937	0.01659823	-3.41178520

FANCD2	0.41781491	0.01662570	3.41055433	
PIK3CG	-0.41785772	0.01662570	-3.41097769	
CAPNS2	0.41783199	0.01662570	3.41072325	
ZNF398	0.41766326	0.01668971	3.40905475	yes
C10orf11	-0.41760365	0.01670796	-3.40846545	
UNC13D	-0.41741228	0.01676995	-3.40657384	
TMEM184A	0.41743265	0.01676995	3.40677518	
FAM5C	-0.41741063	0.01676995	-3.40655754	
HSD11B1	-0.41732528	0.01677821	-3.40571404	
RNF43	0.41735117	0.01677821	3.40596993	
DNAJC11	0.41733831	0.01677821	3.40584286	
PLCL2	-0.41726950	0.01679467	-3.40516285	
C11orf80	0.41710412	0.01686617	3.40352893	
CD14	-0.41705408	0.01687981	-3.40303470	
NCF4	-0.41701672	0.01688381	-3.40266564	
SIGLEC6	-0.41700037	0.01688381	-3.40250412	
WASF3	-0.41668523	0.01699672	-3.39939229	
TPX2	0.41675133	0.01699672	3.40004489	
SEP6	-0.41672424	0.01699672	-3.39977737	
PRELP	-0.41668604	0.01699672	-3.39940024	
CENPO	0.41650697	0.01707554	3.39763267	
OSTF1	0.41643725	0.01709938	3.39694457	
EXOC3	0.41613772	0.01724067	3.39398936	
DPY19L1	0.41601267	0.01727788	3.39275595	
BIRC3	-0.41597399	0.01727788	-3.39237452	
SGCD	-0.41603059	0.01727788	-3.39293264	
TACR1	-0.41599033	0.01727788	-3.39253560	
COTL1	-0.41591034	0.01729888	-3.39174679	
ROR2	-0.41581536	0.01732536	-3.39081033	
SLC15A2	0.41579061	0.01732536	3.39056634	yes
PTTG1	0.41580341	0.01732536	3.39069248	
C7orf10	-0.41562221	0.01740045	-3.38890629	
SYCP2L	-0.41536314	0.01749179	-3.38635327	

IDH1	0.41535493	0.01749179	3.38627235	
C6orf186	-0.41537382	0.01749179	-3.38645851	
MS4A14	-0.41541628	0.01749179	-3.38687688	
SLC7A8	0.41521138	0.01755459	3.38485824	
ANKRD35	0.41510614	0.01756490	3.38382164	
MMP2	-0.41514057	0.01756490	-3.38416070	
PAX9	0.41510097	0.01756490	3.38377074	
JPH2	-0.41513265	0.01756490	-3.38408269	yes
TACR2	-0.41498391	0.01760543	-3.38261794	
SCD5	-0.41495537	0.01760543	-3.38233690	
FZD7	-0.41495690	0.01760543	-3.38235201	
ELOVL6	0.41492339	0.01761034	3.38202200	
KLK11	0.41462238	0.01775609	3.37905891	
PMEPA1	-0.41453773	0.01778873	-3.37822589	
BRI3	-0.41441184	0.01783127	-3.37698720	
NR6A1	0.41442941	0.01783127	3.37716011	
BIN2	-0.41422584	0.01790862	-3.37515751	
VPS25	0.41422035	0.01790862	3.37510350	
TMEM119	-0.41416887	0.01792395	-3.37459722	
FRAG1	0.41414466	0.01792485	3.37435905	
ASXL2	0.41404584	0.01796530	3.37338732	yes
TNFSF12	-0.41383144	0.01806739	-3.37127943	
FCRL2	-0.41371436	0.01811790	-3.37012865	
RNF17	-0.41367321	0.01812788	-3.36972417	
BAIAP2L1	0.41359777	0.01815622	3.36898288	yes
ADAMTS6	-0.41351654	0.01818772	-3.36818474	
FBLN2	-0.41321677	0.01832487	-3.36523998	
CD69	-0.41322424	0.01832487	-3.36531341	
CD79B	-0.41315578	0.01834569	-3.36464106	
PLEKHG6	0.41299988	0.01841451	3.36311028	
TFPI	-0.41298376	0.01841451	-3.36295202	
NSFL1C	0.41276668	0.01852031	3.36082122	
GMDS	0.41264917	0.01857219	3.35966800	

CDR1	-0.41251862	0.01862821	-3.35838713	
EOMES	-0.41250194	0.01862821	-3.35822347	
NDUFS6	0.41234472	0.01870217	3.35668129	
CBR1	0.41231915	0.01870393	3.35643046	
NRBP1	0.41204664	0.01883473	3.35375833	
CASS4	-0.41203710	0.01883473	-3.35366480	
CRKRS	0.41197444	0.01885702	3.35305053	
CHD4	0.41192744	0.01887067	3.35258981	
ZC4H2	-0.41153475	0.01907675	-3.34874179	
KT112	0.41140328	0.01913785	3.34745397	
CCDC3	-0.41136990	0.01914404	-3.34712704	
ICAM2	-0.41130443	0.01916825	-3.34648582	
CTSB	0.41121004	0.01920874	3.34556161	
EDA	-0.41109472	0.01926112	-3.34443248	yes
PLA2G4C	-0.41104754	0.01927514	-3.34397061	
RPS27L	-0.41098087	0.01930019	-3.34331798	
CYP2S1	0.41093073	0.01930427	3.34282722	
TSPAN7	-0.41092907	0.01930427	-3.34281104	
ZNF18	0.41080305	0.01936295	3.34157775	
RAPGEF4	-0.41077512	0.01936616	-3.34130440	
KLF12	-0.41074704	0.01936947	-3.34102964	
NFS1	0.41071533	0.01937484	3.34071934	
PTBP1	0.41065440	0.01939678	3.34012318	
CRTC3	-0.41057405	0.01942977	-3.33933712	
DAPP1	0.41052851	0.01943043	3.33889172	yes
HHEX	-0.41054058	0.01943043	-3.33900973	
LIN7A	-0.41035378	0.01951721	-3.33718275	
C4BPA	-0.41030356	0.01953321	-3.33669165	
AUTS2	0.41027939	0.01953435	3.33645534	
SEMA4F	-0.41017266	0.01957000	-3.33541178	
C2orf29	0.41018790	0.01957000	3.33556080	
NFRKB	0.41010613	0.01959538	3.33476136	
ANAPC7	0.41008181	0.01959664	3.33452360	

PDXDC1	0.40999809	0.01963190	3.33370531	
SMG5	0.40991307	0.01966797	3.33287442	
C15orf48	0.40986137	0.01968496	3.33236917	
CDKN1C	-0.40983632	0.01968667	-3.33212436	
PAICS	0.40971509	0.01971665	3.33093985	
DIO2	-0.40972773	0.01971665	-3.33106331	
CBX7	-0.40975903	0.01971665	-3.33136913	
GFPT2	-0.40969594	0.01971665	-3.33075278	
SPRR2A	0.40955780	0.01978348	3.32940329	
EGFLAM	-0.40945630	0.01981000	-3.32841198	
JUP	0.40944582	0.01981000	3.32830958	
PPFIBP2	0.40947651	0.01981000	3.32860938	
SMAP1	0.40939357	0.01982747	3.32779940	
MFAP4	-0.40933544	0.01984836	-3.32723170	
PCGF3	0.40913750	0.01995028	3.32529926	
C1QTNF7	-0.40910273	0.01995297	-3.32495981	
JAZF1	-0.40906706	0.01995297	-3.32461166	
LTBP2	-0.40908288	0.01995297	-3.32476604	
CTSF	-0.40901859	0.01996838	-3.32413855	
DOK1	-0.40889179	0.02002167	-3.32290113	yes
GNA15	0.40888315	0.02002167	3.32281679	
ALOX5AP	-0.40880820	0.02005257	-3.32208550	
CHRM3	-0.40876744	0.02006358	-3.32168781	
SLC2A6	-0.40856377	0.02016984	-3.31970107	yes
LIMCH1	-0.40839867	0.02025391	-3.31809100	
SLITRK3	-0.40805679	0.02044285	-3.31475816	
ACAA2	-0.40799161	0.02046485	-3.31412289	
RAB8B	-0.40797596	0.02046485	-3.31397040	
MAP3K12	-0.40775885	0.02058100	-3.31185498	
CNN3	-0.40765299	0.02063114	-3.31082384	
MAGI3	0.40757093	0.02066715	3.31002456	
TRPC1	-0.40752361	0.02068241	-3.30956372	
SPN	-0.40745124	0.02071269	-3.30885901	

CD248	-0.40719675	0.02085262	-3.30638137	
PRR16	-0.40702209	0.02094498	-3.30468146	
ENSA	0.40699817	0.02094625	3.30444877	
QRICH1	0.40683048	0.02100827	3.30281714	
PARD3	0.40684287	0.02100827	3.30293768	
GALNT11	-0.40684887	0.02100827	-3.30299604	
RBPMS2	-0.40656851	0.02114121	-3.30026906	
NDNL2	-0.40656901	0.02114121	-3.30027386	
COL6A3	-0.40654165	0.02114432	-3.30000786	
C1orf96	-0.40641494	0.02120847	-3.29877574	
SRGAP1	0.40631747	0.02125485	3.29782818	
PRR15	0.40628582	0.02126093	3.29752043	
SLC10A6	0.40622601	0.02128429	3.29693910	
hCG_21078	0.40610448	0.02132053	3.29575789	
ITIH5	-0.40610188	0.02132053	-3.29573263	
PPAP2A	-0.40614092	0.02132053	-3.29611209	
PPP1R13B	0.40598247	0.02138067	3.29457233	
SPEG	-0.40588186	0.02140535	-3.29359474	yes
LATS2	-0.40587742	0.02140535	-3.29355169	
CASP6	0.40588454	0.02140535	3.29362082	
ZNF676	-0.40582635	0.02141077	-3.29305555	
NAPSB	-0.40582534	0.02141077	-3.29304570	
C12orf64	-0.40565117	0.02149165	-3.29135398	
SLC1A1	0.40565768	0.02149165	3.29141721	
PPM1G	0.40561582	0.02150015	3.29101071	
PTPN14	-0.40544754	0.02157769	-3.28937662	
RRM2	0.40545808	0.02157769	3.28947898	
ANO5	-0.40536241	0.02161717	-3.28855013	
PECI	-0.40526428	0.02166087	-3.28759759	
APTX	0.40524904	0.02166087	3.28744967	yes
SNORD116-6	-0.40510043	0.02174013	-3.28600743	
AP1S3	0.40501715	0.02177873	3.28519925	
RERGL	-0.40497976	0.02178864	-3.28483653	

VGLL3	-0.40488331	0.02183558	-3.28390081
OSR1	-0.40475760	0.02187611	-3.28268135
GPRIN3	-0.40477331	0.02187611	-3.28283379
ZDHHC16	0.40475418	0.02187611	3.28264824
FNIP2	-0.40470438	0.02188767	-3.28216523
ARHGAP29	-0.40469280	0.02188767	-3.28205294
TREM1	-0.40460385	0.02191660	-3.28119031
PBK	0.40461047	0.02191660	3.28125447
ALS2CR11	-0.40443918	0.02200684	-3.27959365
MTFR1	0.40430978	0.02207506	3.27833931
RPN1	0.40427556	0.02208315	3.27800755
GNG2	-0.40423997	0.02209211	-3.27766269
DIRAS3	-0.40410306	0.02216535	-3.27633589
LOC100131508	-0.40401464	0.02216805	-3.27547910
CALHM2	-0.40404001	0.02216805	-3.27572496
DGCR8	0.40399184	0.02216805	3.27525816
DUS2L	0.40400983	0.02216805	3.27543254
RGS13	-0.40400101	0.02216805	-3.27534705
RAMP2	-0.40382221	0.02225763	-3.27361498
PFTK1	-0.40378694	0.02225763	-3.27327334
TRIM48	-0.40380047	0.02225763	-3.27340441
FBLN1	-0.40375569	0.02226395	-3.27297067
ACTG1	0.40369264	0.02229055	3.27236008
TIMM23	0.40364065	0.02231013	3.27185654
DOK6	-0.40347038	0.02240539	-3.27020795
FAF2	0.40341482	0.02242735	3.26967005
IYD	0.40334508	0.02245844	3.26899498
EGLN3	-0.40326554	0.02249586	-3.26822515
HK2	0.40320372	0.02252194	3.26762687
FAM162B	-0.40314260	0.02254760	-3.26703536
CD36	-0.40308339	0.02257205	-3.26646247
SLC10A5	0.40304143	0.02258541	3.26605652
MPDU1	0.40296779	0.02261923	3.26534404

FGL2	-0.40288964	0.02264229	-3.26458805	
NDUFA10	0.40289495	0.02264229	3.26463942	
ZNF323	0.40271051	0.02274457	3.26285553	
RCAN2	-0.40258027	0.02274661	-3.26159619	
MPZL3	0.40263037	0.02274661	3.26208061	
TJP3	0.40258781	0.02274661	3.26166909	
RHOB	-0.40261981	0.02274661	-3.26197850	
RYR3	-0.40259717	0.02274661	-3.26175956	
FAM65A	-0.40261521	0.02274661	-3.26193401	yes
LOC100133329	-0.40253151	0.02276453	-3.26112478	
CERK	-0.40237237	0.02285427	-3.25958637	
MARVELD1	-0.40223880	0.02292761	-3.25829537	
MMP7	-0.40219300	0.02294373	-3.25785283	
TMPRSS11D	0.40210541	0.02298721	3.25700648	
RFWD3	0.40203282	0.02302094	3.25630509	
ABI3	-0.40192833	0.02305036	-3.25529567	
ANTXR1	-0.40192467	0.02305036	-3.25526030	
DPM2	0.40195226	0.02305036	3.25552684	
NHEDC2	-0.40185003	0.02307170	-3.25453940	
TMEM45A	-0.40185843	0.02307170	-3.25462050	
TYROBP	-0.40175284	0.02312173	-3.25360075	
TDRKH	-0.40170723	0.02313790	-3.25316027	
ANKS6	0.40162935	0.02317262	3.25240826	
GGT5	-0.40160116	0.02317262	-3.25213611	yes
PTPN3	0.40155923	0.02317262	3.25173126	
SMARCA4	0.40154943	0.02317262	3.25163666	
FAM55C	-0.40157993	0.02317262	-3.25193108	
TOM1L2	0.40147764	0.02320611	3.25094356	
ALAS1	0.40140183	0.02324231	3.25021180	
B3GNT3	0.40124036	0.02332786	3.24865335	
TMC4	0.40123058	0.02332786	3.24855902	
SNHG10	-0.40119651	0.02333655	-3.24823023	
EPHA6	-0.40107760	0.02338957	-3.24708296	

SUSD1	0.40107471	0.02338957	3.24705505	
MAPK6	0.40090149	0.02349089	3.24538401	
RGNEF	0.40083105	0.02352391	3.24470469	
HIST1H2BM	0.40080611	0.02352659	3.24446415	
GPR146	-0.40054895	0.02368031	-3.24198446	
TMC7	0.40053461	0.02368031	3.24184626	
PET112L	0.40032042	0.02381035	3.23978167	
RNPEP	0.40029597	0.02381275	3.23954610	
SLC2A12	0.40012026	0.02390322	3.23785295	
GTF3C2	0.40012277	0.02390322	3.23787716	
SCARNA8	-0.40005343	0.02393434	-3.23720909	
LARS2	0.40001096	0.02394898	3.23679992	
GALNT6	0.39994754	0.02396874	3.23618908	
DOCK3	-0.39994010	0.02396874	-3.23611742	
S1PR3	-0.39986287	0.02400700	-3.23537354	
MPEG1	-0.39983973	0.02400766	-3.23515064	
ITPR1	-0.39980256	0.02400766	-3.23479271	
RCC2	0.39979945	0.02400766	3.23476275	
NOS3	-0.39971236	0.02405270	-3.23392410	
CNPY4	-0.39944186	0.02422303	-3.23131990	
POLQ	0.39936307	0.02426274	3.23056161	
TENC1	-0.39930948	0.02427988	-3.23004583	
OAS1	0.39929649	0.02427988	3.22992085	
MRPL48	0.39922295	0.02431608	3.22921322	
SHANK3	-0.39909110	0.02439244	-3.22794463	yes
TLCD1	0.39871313	0.02462556	3.22430928	
H2AFY2	0.39871230	0.02462556	3.22430130	
HNRNPAB	0.39868215	0.02463208	3.22401146	
IKZF1	-0.39859113	0.02466448	-3.22313631	
PPM1K	-0.39857330	0.02466448	-3.22296489	
NCAM2	-0.39859012	0.02466448	-3.22312662	
SNORD113-4	-0.39853833	0.02467438	-3.22262876	
GSTZ1	0.39851616	0.02467540	3.22241567	

GRAMD1A	-0.39845806	0.02469152	-3.22185714	
SELPLG	-0.39844314	0.02469152	-3.22171379	
METT11D1	0.39843092	0.02469152	3.22159627	
C7orf58	-0.39838585	0.02470849	-3.22116311	
AFG3L2	0.39836250	0.02471037	3.22093867	
C16orf45	-0.39830850	0.02473358	-3.22041973	
CCR7	-0.39815345	0.02482513	-3.21892994	
SGMS2	0.39812410	0.02482513	3.21864798	yes
CLEC4E	-0.39811533	0.02482513	-3.21856365	
DNAJC16	0.39805956	0.02484969	3.21802787	yes
BMP7	0.39794326	0.02491665	3.21691078	
SORBS1	-0.39790050	0.02493218	-3.21650008	
COL4A6	-0.39782648	0.02496966	-3.21578916	
RCN3	-0.39778615	0.02498352	-3.21540193	
HIST1H2BF	0.39750553	0.02516670	3.21270771	
RGS2	-0.39745821	0.02518560	-3.21225352	
CTSC	0.39740817	0.02519190	3.21177325	
TST	0.39742389	0.02519190	3.21192413	
TCERG1	0.39736325	0.02520311	3.21134215	
SMARCA1	-0.39733070	0.02520311	-3.21102979	
DENND1C	-0.39734460	0.02520311	-3.21116319	
BRCA1	0.39727112	0.02523075	3.21045807	
ERP27	-0.39713458	0.02531141	-3.20914800	
GSS	0.39709584	0.02531141	3.20877627	
GLIS2	-0.39709787	0.02531141	-3.20879580	
ATP8A1	-0.39701021	0.02534313	-3.20795484	
MEFV	-0.39701298	0.02534313	-3.20798142	
LONRF2	-0.39695527	0.02536764	-3.20742789	
RUNDC1	0.39679796	0.02544670	3.20591928	
FMOD	-0.39680520	0.02544670	-3.20598872	
RBMS3	-0.39678287	0.02544670	-3.20577458	
ZNF7	0.39670994	0.02548415	3.20507529	
PGR	-0.39658679	0.02555757	-3.20389460	

KRT16	0.39648525	0.02561568	3.20292119	
DTX2	0.39638884	0.02567022	3.20199718	
SNRK	-0.39631864	0.02570601	-3.20132444	
C1orf162	-0.39623627	0.02575058	-3.20053515	
SVEP1	-0.39621590	0.02575058	-3.20034002	
TMSL3	-0.39608124	0.02583300	-3.19904990	
SLIT2	-0.39591396	0.02593928	-3.19744760	
STX1A	0.39576710	0.02601728	3.19604117	
CES2	0.39576572	0.02601728	3.19602799	
SYNPO	-0.39554106	0.02616611	-3.19387715	
EXPH5	0.39549829	0.02618039	3.19346776	yes
VPS13D	0.39548078	0.02618039	3.19330013	
IFIT2	-0.39542553	0.02619102	-3.19277136	
WSCD2	-0.39544531	0.02619102	-3.19296061	
GPR132	-0.39537205	0.02620039	-3.19225947	
RNASE6	-0.39539022	0.02620039	-3.19243345	
MRPS18A	0.39532278	0.02622156	3.19178800	
PRKAR2A	0.39523605	0.02627018	3.19095810	yes
PPFIA2	-0.39520274	0.02627971	-3.19063943	
TMEM54	0.39515421	0.02628554	3.19017513	
STIM2	0.39515496	0.02628554	3.19018226	
LPPR4	-0.39512652	0.02629098	-3.18991022	
EIF4A1	0.39504766	0.02633395	3.18915582	
EPHX1	0.39487167	0.02644847	3.18747258	
KCTD1	0.39483509	0.02646050	3.18712268	
AHNAK2	0.39481006	0.02646403	3.18688336	
KLHL23	-0.39475998	0.02648603	-3.18640446	
RFFL	0.39470430	0.02651219	3.18587208	
GDF10	-0.39463551	0.02654805	-3.18521447	
IL10RA	-0.39461258	0.02655006	-3.18499526	
GJC1	-0.39451109	0.02660155	-3.18402509	
CYTH1	0.39450256	0.02660155	3.18394356	
CLN8	0.39434851	0.02670079	3.18247125	

SKAP2	-0.39423327	0.02677146	-3.18137008	
RAB33B	-0.39416619	0.02680639	-3.18072910	
PXDN	-0.39412745	0.02682022	-3.18035901	
COL1A2	-0.39401622	0.02688818	-3.17929647	
AFAP1L1	-0.39395209	0.02689092	-3.17868396	
PENK	-0.39396164	0.02689092	-3.17877513	
DOCK8	-0.39395284	0.02689092	-3.17869110	
C20orf160	-0.39379800	0.02697369	-3.17721236	yes
EVPL	0.39374085	0.02697369	3.17666674	
GJA1	-0.39377726	0.02697369	-3.17701433	
PKHD1L1	-0.39379916	0.02697369	-3.17722352	yes
GPSN2	0.39374151	0.02697369	3.17667300	
A2ML1	0.39370645	0.02697644	3.17633825	
MSR1	-0.39369702	0.02697644	-3.17624823	
FMNL1	-0.39364782	0.02699826	-3.17577849	
DUSP6	-0.39338087	0.02718379	-3.17323045	
LDLR	0.39328427	0.02722639	3.17230858	
PLAC8	0.39329391	0.02722639	3.17240054	yes
GSDMB	0.39321629	0.02726259	3.17165990	
HLA-DOB	-0.39318608	0.02727027	-3.17137169	
UHRF1BP1	0.39314107	0.02728915	3.17094228	
IL2RA	-0.39307834	0.02732145	-3.17034391	yes
USP49	0.39296418	0.02737604	3.16925491	
ACPP	0.39294626	0.02737604	3.16908402	
DCHS1	-0.39298534	0.02737604	-3.16945678	
MAP3K9	0.39288646	0.02740623	3.16851370	
UBAP1	0.39285539	0.02741464	3.16821742	
C11orf48	0.39277811	0.02745817	3.16748043	
PYGM	-0.39272946	0.02747768	-3.16701661	
ZBTB10	-0.39271251	0.02747768	-3.16685498	
PDGFC	-0.39267403	0.02749177	-3.16648809	
PKIA	-0.39263228	0.02750776	-3.16609003	
LRRC2	-0.39261314	0.02750776	-3.16590759	

MS4A2	-0.39251171	0.02755466	-3.16494070	
LOC285943	-0.39252509	0.02755466	-3.16506828	
AIM1	0.39233745	0.02762499	3.16327993	
MRPS7	0.39235062	0.02762499	3.16340541	
PGM2	0.39232006	0.02762499	3.16311421	
SDC1	0.39236553	0.02762499	3.16354753	
NBPF3	0.39235440	0.02762499	3.16344147	
MS4A4A	-0.39229483	0.02762909	-3.16287373	
CFH	-0.39223776	0.02765751	-3.16232998	
KLHL4	-0.39211895	0.02773323	-3.16119804	yes
USP5	0.39191326	0.02787591	3.15923879	
GLT25D2	-0.39181082	0.02793953	-3.15826318	
C1QTNF1	-0.39177744	0.02794029	-3.15794533	yes
P2RX5	-0.39177016	0.02794029	-3.15787605	
BEND2	-0.39167486	0.02799854	-3.15696860	
TMEM140	-0.39144326	0.02816251	-3.15476403	
PPME1	0.39132546	0.02823866	3.15364294	
ABCA9	-0.39128284	0.02825641	-3.15323734	
SPTBN2	0.39117592	0.02832429	3.15221998	
WIPI2	0.39114753	0.02833099	3.15194988	
VDR	0.39087967	0.02851017	3.14940204	
JMJD2A	0.39087891	0.02851017	3.14939483	
TMCC1	0.39072714	0.02861387	3.14795159	
C5orf41	-0.39062851	0.02867598	-3.14701385	
SELI	0.39031248	0.02891039	3.14401004	
ACTG2	-0.39023208	0.02895856	-3.14324603	
DES	-0.39011117	0.02903908	-3.14209726	
FLT3LG	-0.39003421	0.02908469	-3.14136619	
KCNH8	-0.38997027	0.02908839	-3.14075886	
IGSF11	0.38997053	0.02908839	3.14076127	
RASAL2	0.38997192	0.02908839	3.14077452	
CTNS	0.38992531	0.02910852	3.14033178	
MARCH8	-0.38986238	0.02914303	-3.13973414	

LYN	0.38973622	0.02922822	3.13853605	
NFE2L2	0.38970992	0.02923349	3.13828635	
EGLN1	-0.38955724	0.02934023	-3.13683681	
USP46	0.38950659	0.02936510	3.13635607	yes
THOC4	0.38940493	0.02943110	3.13539112	
ASB2	-0.38923140	0.02955367	-3.13374433	
ATP5J2	0.38921376	0.02955367	3.13357700	
GNB5	-0.38916379	0.02957817	-3.13310286	yes
GNL2	0.38911478	0.02959251	3.13263791	
CDCA8	0.38910670	0.02959251	3.13256128	
PAG1	-0.38884610	0.02977731	-3.13008939	
STARD8	-0.38883980	0.02977731	-3.13002965	
ZNRF1	0.38878919	0.02980252	3.12954963	
LAPTM5	-0.38875069	0.02981787	-3.12918455	
ISM1	-0.38868186	0.02985798	-3.12853195	
PYHIN1	-0.38855656	0.02991220	-3.12734401	
C10orf113	0.38858426	0.02991220	3.12760665	
SEMA6D	-0.38857089	0.02991220	-3.12747985	
EYA2	0.38849166	0.02994922	3.12672876	
ATXN7L1	0.38843123	0.02998262	3.12615601	
ARHGAP4	-0.38832888	0.03003436	-3.12518602	
LSAMP	-0.38833781	0.03003436	-3.12527061	
OGG1	-0.38820275	0.03012184	-3.12399074	
BLOC1S2	0.38811922	0.03017444	3.12319932	
RP1-19N1.1	-0.38800806	0.03024991	-3.12214632	
PTGDS	-0.38794200	0.03028828	-3.12152054	
ARNT2	-0.38775856	0.03042390	-3.11978320	
BTBD11	0.38769265	0.03046233	3.11915913	
SERPINB3	0.38755701	0.03055881	3.11787491	
GDE1	0.38745974	0.03060724	3.11695412	
BCL7B	0.38747349	0.03060724	3.11708432	
TXNRD1	0.38743880	0.03060840	3.11675593	
NPAL3	0.38736197	0.03065617	3.11602878	

B3GNT1	-0.38733444	0.03066284	-3.11576824	
SPINT2	0.38729382	0.03066416	3.11538377	
DCTD	0.38729969	0.03066416	3.11543932	
GDPD2	0.38724823	0.03068593	3.11495241	
PLAGL1	-0.38722611	0.03068812	-3.11474306	
AIF1L	-0.38720282	0.03069130	-3.11452264	
SLC22A17	-0.38714898	0.03071432	-3.11401324	yes
SNORD114-6	-0.38713630	0.03071432	-3.11389324	
SIAE	0.38710250	0.03072629	3.11357349	
NCOA6	0.38699173	0.03080268	3.11252560	
AMIGO2	-0.38680674	0.03092872	-3.11077588	
C21orf34	-0.38680261	0.03092872	-3.11073683	
FAT3	-0.38674103	0.03095304	-3.11015441	
ZC3H12B	-0.38673480	0.03095304	-3.11009557	
MFSD4	0.38666948	0.03099165	3.10947789	
GZMK	-0.38659681	0.03103651	-3.10879077	
PPP1R10	0.38649814	0.03110337	3.10785800	
GPR39	0.38647858	0.03110349	3.10767309	
SAMD9	0.38643200	0.03112645	3.10723278	
GTPBP8	0.38625908	0.03125640	3.10559843	
AFAP1L2	-0.38617904	0.03130785	-3.10484216	
GPRC5B	-0.38608653	0.03137000	-3.10396803	
FUT2	0.38593117	0.03145313	3.10250038	
TTC22	0.38593077	0.03145313	3.10249659	
CASQ2	-0.38595937	0.03145313	-3.10276680	
KPNA6	0.38586433	0.03149327	3.10186908	
TMEM176B	-0.38570584	0.03161220	-3.10037222	
GADL1	-0.38567833	0.03161918	-3.10011249	
HPS4	0.38563021	0.03164382	3.09965817	
SLC31A2	-0.38547809	0.03174115	-3.09822198	
PEG3	-0.38549573	0.03174115	-3.09838848	
AKR1A1	0.38543967	0.03175280	3.09785922	
STK35	0.38542588	0.03175280	3.09772908	

DHX32	0.38532647	0.03182169	3.09679075	yes
SYT15	-0.38529473	0.03183239	-3.09649122	
PDGFRA	-0.38527295	0.03183452	-3.09628569	
MADD	0.38521551	0.03186738	3.09574361	
WDR59	0.38513781	0.03191775	3.09501047	
SOX2	0.38490475	0.03210270	3.09281170	
VPS4B	0.38487216	0.03211424	3.09250427	
GRB7	0.38474957	0.03220398	3.09134803	
LRP1B	-0.38469247	0.03223689	-3.09080962	
NCOA7	-0.38459862	0.03230186	-3.08992461	
SPIB	-0.38456879	0.03231108	-3.08964338	
LOC100130511	0.38442245	0.03242206	3.08826378	
SLC16A14	-0.38430086	0.03250764	-3.08711765	
BRD9	0.38428622	0.03250764	3.08697971	
ARAP2	0.38424920	0.03252323	3.08663075	
C1QTNF5	-0.38406265	0.03252597	-3.08487287	yes
C1orf83	0.38407831	0.03252597	3.08502047	
COL6A1	-0.38406705	0.03252597	-3.08491434	yes
SLC16A13	0.38416586	0.03252597	3.08584537	
RASL12	-0.38405415	0.03252597	-3.08479283	yes
GPR108	0.38410719	0.03252597	3.08529253	
ZKSCAN1	0.38412845	0.03252597	3.08549289	
MLF2	0.38419885	0.03252597	3.08615629	
HIST1H3I	0.38422663	0.03252597	3.08641812	
C1orf38	-0.38410723	0.03252597	-3.08529298	
UGT1A4	0.38395468	0.03259644	3.08385566	
SPINK5	0.38382700	0.03269187	3.08265294	
PRICKLE1	-0.38380079	0.03269809	-3.08240611	
ADAMTSL4	-0.38377299	0.03270572	-3.08214427	
NOP14	0.38373029	0.03272650	3.08174207	
PTP4A3	-0.38362022	0.03274195	-3.08070553	
ZNF85	-0.38364824	0.03274195	-3.08096941	
ATP13A4	0.38365213	0.03274195	3.08100609	

STK16	0.38366649	0.03274195	3.08114126	
SERPINH1	-0.38361726	0.03274195	-3.08067767	
CTSK	-0.38355718	0.03277809	-3.08011203	
EPHA1	0.38352350	0.03279099	3.07979487	
PAWR	0.38347962	0.03281289	3.07938173	
BCL2A1	-0.38337526	0.03288826	-3.07839932	
GLS	-0.38334826	0.03289530	-3.07814517	
RAB10	0.38325341	0.03294555	3.07725241	
ADRB2	-0.38327189	0.03294555	-3.07742632	
RAPGEF3	-0.38314955	0.03301472	-3.07627497	yes
HSPB1	0.38313733	0.03301472	3.07615999	
MMP25	-0.38296705	0.03314915	-3.07455776	
HOXB4	-0.38281721	0.03326580	-3.07314818	
MSLN	0.38274242	0.03331564	3.07244473	
CR2	-0.38270924	0.03332832	-3.07213266	
WDR55	0.38263054	0.03333424	3.07139261	
PNPO	0.38264911	0.03333424	3.07156717	
PARP6	0.38262667	0.03333424	3.07135621	
XPO5	0.38264037	0.03333424	3.07148500	
LRRTM4	-0.38254960	0.03337653	-3.07063147	
ENTPD3	0.38254149	0.03337653	3.07055521	
CACNA1H	-0.38251780	0.03338077	-3.07033249	
CCDC50	-0.38246604	0.03341016	-3.06984583	yes
H19	0.38239459	0.03345724	3.06917409	
CLEC1B	-0.38234723	0.03348275	-3.06872889	
FPR2	-0.38222104	0.03357914	-3.06754278	
ZNF385B	-0.38219340	0.03358698	-3.06728303	
ICAM1	-0.38215520	0.03360435	-3.06692396	
PPP1CA	0.38205807	0.03367483	3.06601122	
PAX5	-0.38192548	0.03372653	-3.06476544	
SCN7A	-0.38191324	0.03372653	-3.06465046	
SYNC	-0.38192222	0.03372653	-3.06473486	
GBF1	0.38198125	0.03372653	3.06528940	

RGN	-0.38190635	0.03372653	-3.06458573	
EVL	-0.38180820	0.03379818	-3.06366369	
STAG3OS	0.38164732	0.03392684	3.06215269	
TEAD3	0.38158753	0.03396400	3.06159118	
C20orf94	0.38146247	0.03406059	3.06041684	
PCCB	0.38143788	0.03406582	3.06018600	
NOS1	0.38140195	0.03408138	3.05984869	
SNORD116-24	-0.38134176	0.03411906	-3.05928362	
CALCRL	-0.38128766	0.03415124	-3.05877578	
TSC22D3	-0.38112275	0.03421861	-3.05722795	
GYPA	-0.38115967	0.03421861	-3.05757442	
ZNF788	-0.38115558	0.03421861	-3.05753609	
MUC21	0.38111984	0.03421861	3.05720064	
C21orf7	-0.38118539	0.03421861	-3.05781580	
TRIM2	0.38104965	0.03426561	3.05654196	yes
SLC35A4	0.38097941	0.03427663	3.05588286	
SLC39A11	0.38098093	0.03427663	3.05589706	
IL6ST	-0.38094831	0.03427663	-3.05559104	
NUSAP1	0.38094379	0.03427663	3.05554863	
AXL	-0.38101512	0.03427663	-3.05621789	
KIAA1147	0.38086976	0.03432724	3.05485409	
HIPK2	0.38075884	0.03439782	3.05381353	
VPRBP	0.38075532	0.03439782	3.05378052	
TNFAIP8L3	-0.38066664	0.03446206	-3.05294869	
PLXDC1	-0.38057025	0.03453351	-3.05204474	
ZWINT	0.38040583	0.03465730	3.05050297	
IL2	-0.38039856	0.03465730	-3.05043487	
DYNC1I1	-0.38034558	0.03468897	-3.04993810	
MDM2	0.38029400	0.03471937	3.04945459	
EFHA2	-0.38027313	0.03472138	-3.04925895	
MAMDC2	-0.38015561	0.03481289	-3.04815737	
CASC5	0.38012641	0.03482264	3.04788366	
ITGA2B	-0.38006132	0.03486570	-3.04727363	

IKBKB	0.38003715	0.03487080	3.04704715	
PERP	0.37975635	0.03511484	3.04441618	
IGFBP4	-0.37970855	0.03514127	-3.04396848	
EPB41L4B	0.37969073	0.03514127	3.04380155	
ASCL1	0.37958453	0.03522097	3.04280686	
C6orf132	0.37956821	0.03522097	3.04265401	
PKIG	-0.37952701	0.03524209	-3.04226814	
MYOM2	-0.37947213	0.03527605	-3.04175418	
ATXN7L3	0.37934542	0.03537747	3.04056782	
MAP3K7IP3	0.37915181	0.03554222	3.03875535	yes
FCRLA	-0.37911868	0.03555591	-3.03844518	
PCOLCE2	-0.37909958	0.03555636	-3.03826646	
C4orf14	0.37907573	0.03556131	3.03804322	
LDLRAD3	-0.37885500	0.03572400	-3.03597771	
IGKC	-0.37884786	0.03572400	-3.03591087	
FAM135A	0.37887464	0.03572400	3.03616140	
CMTM1	-0.37868260	0.03584687	-3.03436477	
CD109	0.37868098	0.03584687	3.03434963	
BYSL	0.37866260	0.03584687	3.03417769	
DPAGT1	0.37853218	0.03595326	3.03295785	
NDUFS2	0.37843855	0.03602481	3.03208225	
GPR97	-0.37833053	0.03611025	-3.03107215	
KCNIP2	-0.37829333	0.03612807	-3.03072434	
IPO13	0.37819120	0.03620808	3.02976951	
ASPM	0.37811269	0.03625203	3.02903564	
APOL3	-0.37810825	0.03625203	-3.02899416	
FBXL11	0.37796190	0.03637480	3.02762633	
TMC8	-0.37790517	0.03641156	-3.02709614	
GNA12	-0.37780606	0.03645348	-3.02617006	
TGM3	0.37782406	0.03645348	3.02633827	
TLN1	-0.37782252	0.03645348	-3.02632388	
GJA9	0.37777841	0.03646229	3.02591170	
MKI67	0.37764951	0.03654742	3.02470747	

RAB9B	-0.37763466	0.03654742	-3.02456881	
CYB5R2	0.37765973	0.03654742	3.02480299	
SYNJ2BP	0.37756520	0.03659667	3.02391998	
MIA	-0.37752201	0.03662056	-3.02351654	
CCL21	-0.37718841	0.03692645	-3.02040142	
COPZ2	-0.37710084	0.03699381	-3.01958390	yes
PTTG1IP	0.37700238	0.03707192	3.01866489	
SLAMF6	-0.37694809	0.03709631	-3.01815812	
HTT	0.37694049	0.03709631	3.01808725	
SPIRE2	0.37688066	0.03713679	3.01752888	
CX3CL1	-0.37682139	0.03717676	-3.01697576	
KLRD1	-0.37676533	0.03721362	-3.01645262	
FYB	-0.37673226	0.03722765	-3.01614409	
EMILIN2	-0.37671414	0.03722765	-3.01597507	
ADAP2	-0.37667647	0.03724652	-3.01562356	
EWSR1	0.37659782	0.03730565	3.01488982	
C11orf51	0.37657758	0.03730744	3.01470104	
KIAA0907	0.37647005	0.03739508	3.01369802	
NOVA1	-0.37633942	0.03750570	-3.01247970	
GMPR	-0.37625008	0.03755757	-3.01164664	
RUSC2	-0.37625456	0.03755757	-3.01168843	yes
EMP2	0.37618217	0.03757017	3.01101348	
GART	0.37620024	0.03757017	3.01118190	
SYNJ2	0.37621337	0.03757017	3.01130432	
KDELC1	-0.37610631	0.03762702	-3.01030617	
SAMD3	-0.37606606	0.03763050	-3.00993098	
SLBP	0.37606750	0.03763050	3.00994440	
BLK	-0.37590208	0.03777483	-3.00840250	
CKAP2	0.37584684	0.03779123	3.00788771	
LOC541471	0.37584634	0.03779123	3.00788303	
QTRTD1	0.37583053	0.03779123	3.00773566	
IMPDH2	0.37570197	0.03790081	3.00653768	
TACC1	-0.37564843	0.03793587	-3.00603884	

C17orf87	-0.37560593	0.03795996	-3.00564292
GTF2I	0.37555659	0.03797263	3.00518327
DDI2	0.37556301	0.03797263	3.00524303
TRMT2B	0.37545467	0.03805607	3.00423382
IGHA1	-0.37529586	0.03817830	-3.00275468
MID1IP1	0.37530369	0.03817830	3.00282768
LETM1	0.37518581	0.03827028	3.00172995
FOXM1	0.37511124	0.03832679	3.00103566
DOCK10	-0.37508576	0.03833403	-3.00079842
FAM102A	0.37505476	0.03834682	3.00050981
KPNA7	0.37498800	0.03839559	2.99988825
NNMT	-0.37484700	0.03851925	-2.99857584
ATP9A	0.37470427	0.03858400	2.99724751
CCDC58	0.37473153	0.03858400	2.99750125
UCRC	0.37469163	0.03858400	2.99712990
ACER2	0.37470084	0.03858400	2.99721564
HIST1H3G	0.37472107	0.03858400	2.99740384
CYTH2	0.37465160	0.03860602	2.99675745
C18orf22	0.37460369	0.03863604	2.99631166
CLNK	-0.37449431	0.03872832	-2.99529408
ABCA8	-0.37443242	0.03877261	-2.99471827
PCTK1	0.37432829	0.03885984	2.99374974
SULT1B1	-0.37430046	0.03886962	-2.99349093
SCGB3A1	-0.37420395	0.03894930	-2.99259336
FUT6	0.37418483	0.03895024	2.99241552
ISLR	-0.37410949	0.03897401	-2.99171497
NDUFB4	0.37413792	0.03897401	2.99197938
SLC16A5	0.37410695	0.03897401	2.99169141
SLC17A5	0.37402454	0.03900247	2.99092517
HOXA2	-0.37403521	0.03900247	-2.99102438
TSPAN8	0.37404192	0.03900247	2.99108669
SNORA13	-0.37394545	0.03906462	-2.99018990
WDFY2	0.37382108	0.03917315	2.98903379

PDGFB	-0.37371801	0.03926011	-2.98807586	yes
ZHX2	-0.37356521	0.03937969	-2.98665590	
NME1	0.37357575	0.03937969	2.98675383	
ACAP1	-0.37353648	0.03939059	-2.98638895	
TBX5	-0.37350717	0.03940209	-2.98611665	
CRYBB2	-0.37339097	0.03947330	-2.98503711	
HEMGN	-0.37341000	0.03947330	-2.98521390	
SMTN	-0.37338362	0.03947330	-2.98496886	yes
SFRP1	-0.37335307	0.03948612	-2.98468502	
SERPIN6	0.37324760	0.03957618	2.98370536	
SNORD116-4	-0.37303358	0.03977602	-2.98171792	
MLPH	0.37301812	0.03977602	2.98157433	
KCNJ8	-0.37290620	0.03985798	-2.98053522	
KIF3C	-0.37285295	0.03985798	-2.98004095	
PTPRF	0.37287108	0.03985798	2.98020920	
RGS1	-0.37284874	0.03985798	-2.98000178	
SLC7A6OS	0.37287767	0.03985798	2.98027037	
PTPN18	0.37282417	0.03986475	2.97977375	
DAPL1	0.37280508	0.03986583	2.97959658	
TMEM35	-0.37268073	0.03997629	-2.97844240	
CKAP5	0.37258858	0.04005346	2.97758717	
POLR1D	0.37254597	0.04007908	2.97719173	
MRFAP1L1	-0.37233266	0.04028309	-2.97521269	
COL5A1	-0.37230792	0.04029013	-2.97498312	yes
ETV4	0.37227824	0.04030234	2.97470785	
MUC13	0.37223791	0.04032572	2.97433375	
GNG7	-0.37201124	0.04053119	-2.97223149	
STARD5	0.37200624	0.04053119	2.97218516	
FAM13C	-0.37192086	0.04056543	-2.97139346	
PGDS	-0.37191973	0.04056543	-2.97138306	
PPL	0.37195389	0.04056543	2.97169970	
SNORA46	-0.37182384	0.04064754	-2.97049402	
TMOD2	-0.37177692	0.04067809	-2.97005899	

SLC26A10	-0.37167523	0.04076653	-2.96911645	yes
BUB1B	0.37162539	0.04080025	2.96865445	
ARPC4	0.37135817	0.04096096	2.96617826	
DMBT1	-0.37129509	0.04096096	-2.96559377	
GPD2	0.37133078	0.04096096	2.96592448	
GOLPH3L	0.37139083	0.04096096	2.96648082	yes
PRKACB	-0.37142471	0.04096096	-2.96679477	
TSPAN14	0.37140160	0.04096096	2.96658059	
ZNF239	-0.37129439	0.04096096	-2.96558733	
CAST	0.37131932	0.04096096	2.96581832	yes
EIF4G3	0.37131707	0.04096096	2.96579740	yes
AP1G2	0.37136351	0.04096096	2.96622770	
RNF166	-0.37124567	0.04098554	-2.96513601	
LAMA2	-0.37123545	0.04098554	-2.96504128	
LOC344887	0.37119659	0.04100781	2.96468135	
CENPI	0.37111145	0.04106030	2.96389267	
TPK1	-0.37112113	0.04106030	-2.96398234	
TET3	0.37103871	0.04111868	2.96321899	
ARL2	-0.37096423	0.04117898	-2.96252929	
KRT24	0.37092152	0.04120547	2.96213377	
PIWIL4	-0.37090044	0.04120892	-2.96193853	
C22orf30	0.37084177	0.04125247	2.96139531	
IGSF9B	-0.37078350	0.04128158	-2.96085579	
HMBS	0.37077882	0.04128158	2.96081253	
FXYD5	-0.37073258	0.04131193	-2.96038445	
CDC42BPB	0.37062975	0.04140286	2.95943246	
LOC728607	0.37059128	0.04142496	2.95907644	
SIPA1L3	0.37043165	0.04157708	2.95759908	
POSTN	-0.37039982	0.04159215	-2.95730446	
hCG_1644301	-0.37031419	0.04164593	-2.95651215	
FAM70A	-0.37032305	0.04164593	-2.95659413	
EIF4G1	0.37017282	0.04164798	2.95520418	
LOC441108	-0.37025338	0.04164798	-2.95594952	

GPR87	0.37022386	0.04164798	2.95567641	
PRCP	-0.37028879	0.04164798	-2.95627709	
PLEKHO2	-0.37018842	0.04164798	-2.95534853	
GPR174	-0.37024483	0.04164798	-2.95587043	
ITGA10	-0.37017012	0.04164798	-2.95517924	
SLC16A4	-0.37020280	0.04164798	-2.95548156	
C3orf70	-0.37012611	0.04167624	-2.95477214	
UNQ9368	-0.37006157	0.04172662	-2.95417517	
DYRK4	-0.37001121	0.04175125	-2.95370933	
PDLIM7	-0.37000326	0.04175125	-2.95363580	yes
SIN3A	0.36994588	0.04179401	2.95310510	
TSPAN3	0.36987030	0.04184404	2.95240617	
ITGA11	-0.36985054	0.04184404	-2.95222343	
VPS37B	0.36984639	0.04184404	2.95218508	
ELF3	0.36980644	0.04185218	2.95181564	
RAB1F	0.36980347	0.04185218	2.95178822	
ST6GALNAC5	-0.36976397	0.04187575	-2.95142293	
OXSRI	0.36973131	0.04189193	2.95112100	
ZNF300	0.36971059	0.04189523	2.95092942	
MFAP2	-0.36957378	0.04202410	-2.94966466	
ERLIN2	0.36954973	0.04203103	2.94944234	
ANKRD18B	0.36949143	0.04207507	2.94890347	
FGF10	-0.36944418	0.04210717	-2.94846679	
TOP1	0.36937981	0.04215789	2.94787185	
DCTPP1	0.36930239	0.04222285	2.94715639	
A4GALT	0.36927151	0.04223725	2.94687108	
ID3	-0.36909001	0.04241580	-2.94519413	
NFE2	-0.36898955	0.04250628	-2.94426621	yes
LOC342541	0.36892705	0.04255538	2.94368892	
RPP38	0.36889443	0.04257180	2.94338758	
ARFGEF2	0.36871045	0.04275429	2.94168857	
PITPNM3	0.36867168	0.04277753	2.94133062	
ALDH1A3	0.36862308	0.04281161	2.94088193	

POLR3C	0.36849191	0.04293595	2.93967098	yes
HOXB6	-0.36847499	0.04293595	-2.93951480	yes
ETV1	-0.36843079	0.04294175	-2.93910680	
LASS6	0.36839938	0.04294175	2.93881685	yes
PCDH17	-0.36844971	0.04294175	-2.93928144	
HSD17B3	0.36840637	0.04294175	2.93888141	
KCTD12	-0.36827847	0.04299765	-2.93770095	
CCDC89	0.36832914	0.04299765	2.93816859	
BNC1	0.36829259	0.04299765	2.93783129	
TTN	-0.36828931	0.04299765	-2.93780101	
TSPAN5	0.36822557	0.04303668	2.93721286	
FCRL5	-0.36820724	0.04303755	-2.93704371	
TUBG1	0.36814149	0.04309084	2.93643697	
B3GNT6	0.36809887	0.04311858	2.93604375	
SYDE1	-0.36795796	0.04325526	-2.93474374	yes
GIMAP2	-0.36792588	0.04327141	-2.93444782	
TFPI2	-0.36788983	0.04329197	-2.93411535	
WDHD1	0.36782543	0.04333115	2.93352127	
SCNN1B	0.36781954	0.04333115	2.93346696	
SNORA60	-0.36779219	0.04334208	-2.93321479	
LRRC8B	0.36774643	0.04337350	2.93279273	yes
FCER1G	-0.36767291	0.04343581	-2.93211475	
ABTB1	-0.36762532	0.04346933	-2.93167594	
KCMF1	0.36759513	0.04348349	2.93139755	
ANTXR2	-0.36756975	0.04349230	-2.93116352	
NCAPG	0.36742950	0.04360976	2.92987050	
MRC2	-0.36743371	0.04360976	-2.92990931	yes
AHCYL1	0.36716636	0.04388481	2.92744517	
SFRP4	-0.36712459	0.04391211	-2.92706021	
LDOC1	-0.36695840	0.04407750	-2.92552897	
ASF1B	0.36690809	0.04407750	2.92506549	
MS4A6A	-0.36690775	0.04407750	-2.92506234	
FAM114A1	0.36691039	0.04407750	2.92508663	

ABHD4	0.36673433	0.04425354	2.92346490	
VN1R1	-0.36670611	0.04426573	-2.92320503	
TSPYL5	-0.36665683	0.04430175	-2.92275114	
RIOK3	0.36662363	0.04431960	2.92244537	
SNORA49	-0.36656182	0.04436986	-2.92187622	
PLA2G4F	0.36648325	0.04443918	2.92115278	
POR	0.36640874	0.04450399	2.92046675	
PDCD6	0.36619811	0.04470586	2.91852785	
C1orf174	0.36619653	0.04470586	2.91851327	
ABAT	0.36613254	0.04474144	2.91792436	
UHL3	0.36613052	0.04474144	2.91790575	
MCCC1	0.36607792	0.04476177	2.91742168	
THBS2	-0.36608854	0.04476177	-2.91751945	
WTIP	-0.36604930	0.04477068	-2.91715832	yes
DGKB	-0.36603536	0.04477068	-2.91703002	
NCAPD2	0.36588415	0.04492365	2.91563872	
PDE1A	-0.36583060	0.04496508	-2.91514600	
NUP188	0.36577746	0.04500608	2.91465715	
PMS2L5	0.36571395	0.04505900	2.91407295	
SNORD116-11	-0.36563325	0.04511181	-2.91333063	
HIRA	0.36563374	0.04511181	2.91333514	
SHC4	-0.36558272	0.04514993	-2.91286597	
UBE4B	0.36533649	0.04533364	2.91060174	
DDB1	0.36535408	0.04533364	2.91076350	
MGAT3	-0.36534586	0.04533364	-2.91068791	
COQ6	0.36540539	0.04533364	2.91123524	
POLR2D	0.36534249	0.04533364	2.91065687	
MPZL2	0.36529351	0.04536325	2.91020660	
SP4	-0.36517140	0.04546429	-2.90908401	
DNAJC7	0.36518316	0.04546429	2.90919214	
TCEA3	0.36509326	0.04553465	2.90836584	
EGFL7	-0.36499227	0.04559078	-2.90743762	yes
AKAP1	0.36500834	0.04559078	2.90758538	

STX10	0.36502463	0.04559078	2.90773508
MBTPS1	0.36497563	0.04559078	2.90728472
VCP	0.36494739	0.04560348	2.90702524
GTF3C5	0.36485198	0.04569410	2.90614846
MRPL45	0.36481949	0.04571177	2.90584996
FRRS1	0.36472095	0.04580621	2.90494467
PPIL2	0.36462481	0.04586067	2.90406147
MOCS1	-0.36462610	0.04586067	-2.90407329
TMEM69	0.36462239	0.04586067	2.90403924
COL3A1	-0.36456151	0.04588986	-2.90348004
ALAS2	-0.36452868	0.04588986	-2.90317851
KRT2	0.36452840	0.04588986	2.90317589
RPL13AP5	0.36457515	0.04588986	2.90360531
RALBP1	0.36448020	0.04592594	2.90273325
PMPCA	0.36433854	0.04599348	2.90143233
LRRC8A	0.36434808	0.04599348	2.90151991
SLC11A1	-0.36437621	0.04599348	-2.90177825
SCG2	0.36433628	0.04599348	2.90141155
PRC1	0.36436513	0.04599348	2.90167648
SULF1	-0.36422960	0.04609797	-2.90043203
LHPP	0.36408832	0.04624318	2.89913509
BAG2	-0.36399676	0.04633040	-2.89829464
RNF216	-0.36392106	0.04638236	-2.89759979
CAPN1	0.36391817	0.04638236	2.89757332
PSMD3	0.36379449	0.04650762	2.89643834
HS6ST3	-0.36376882	0.04651763	-2.89620279
STIP1	0.36372060	0.04655422	2.89576032
ARHGEF6	-0.36370231	0.04655556	-2.89559254
HEPH	-0.36364851	0.04659877	-2.89509885
CYP4X1	-0.36363032	0.04660001	-2.89493197
LTF	-0.36354137	0.04668475	-2.89411599
MYCT1	-0.36347837	0.04673894	-2.89353809
LOC100129278	-0.36342405	0.04675497	-2.89303990

CGRRF1	-0.36342559	0.04675497	-2.89305403	
TSTA3	0.36339633	0.04675497	2.89278568	
FAHD1	0.36340003	0.04675497	2.89281955	
HLA-DQA1	-0.36335815	0.04677990	-2.89243543	
C1orf113	0.36329925	0.04682935	2.89189534	
GSTM4	0.36317221	0.04693938	2.89073035	
COPS7B	0.36318917	0.04693938	2.89088586	
MAN1A1	-0.36314024	0.04695703	-2.89043730	
CACNA2D1	-0.36303910	0.04705686	-2.88950997	
LILRB1	-0.36300419	0.04706218	-2.88918996	
SLC24A1	0.36300047	0.04706218	2.88915584	
ST3GAL6	-0.36289907	0.04709296	-2.88822638	
SIRPA	-0.36292896	0.04709296	-2.88850036	
FAAH2	0.36287228	0.04709296	2.88798082	
CTAGE5	0.36287828	0.04709296	2.88803580	
DPF3	-0.36289469	0.04709296	-2.88818627	yes
SELENBP1	0.36290322	0.04709296	2.88826440	
JHDM1D	0.36279932	0.04715949	2.88731215	yes
RPL28	0.36267023	0.04729303	2.88612917	
TBC1D22A	0.36244977	0.04751438	2.88410936	
HLA-DMB	-0.36243543	0.04751438	-2.88397801	
MCM3	0.36243400	0.04751438	2.88396489	
SNORA50	-0.36237383	0.04756610	-2.88341370	
SERPINA3	-0.36233585	0.04759125	-2.88306583	yes
ERO1LB	-0.36228098	0.04761628	-2.88256324	
AIFM1	0.36229297	0.04761628	2.88267311	
NMU	0.36220565	0.04768631	2.88187339	
MRPS5	0.36218366	0.04769232	2.88167202	
POLR1A	0.36213742	0.04770708	2.88124852	
NCCRP1	0.36214387	0.04770708	2.88130763	
STAMBP	0.36211799	0.04771002	2.88107066	
DHRS1	0.36200627	0.04775760	2.88004766	
HIST1H1B	0.36201548	0.04775760	2.88013206	

PFKFB2	0.36199364	0.04775760	2.87993209	
LGR4	0.36202955	0.04775760	2.88026085	
CACNA1D	0.36199400	0.04775760	2.87993534	
TTC39C	0.36194671	0.04777331	2.87950242	yes
BMP6	-0.36194773	0.04777331	-2.87951169	
KRT222P	-0.36188637	0.04782555	-2.87894997	
CDCA2	0.36175353	0.04796524	2.87773408	
FAM70B	-0.36173504	0.04796714	-2.87756482	yes
SNORA64	-0.36159555	0.04811523	-2.87628825	
CCNK	0.36150368	0.04820599	2.87544757	
HDAC1	0.36146284	0.04821450	2.87507395	
SSFA2	0.36147434	0.04821450	2.87517915	
ING1	-0.36127504	0.04840143	-2.87335589	
SH3BGRL	-0.36128230	0.04840143	-2.87342231	
RDH13	0.36124507	0.04841074	2.87308175	
PLEKHB2	0.36122732	0.04841074	2.87291933	
QARS	0.36121672	0.04841074	2.87282239	
ARF3	0.36119672	0.04841453	2.87263953	
DUSP2	-0.36113957	0.04844410	-2.87211678	
PTGER2	-0.36113868	0.04844410	-2.87210862	
LOC81691	0.36111619	0.04845094	2.87190302	
CCDC110	-0.36104200	0.04850432	-2.87122451	
CACNA1C	-0.36103863	0.04850432	-2.87119369	
C3orf67	0.36099121	0.04854156	2.87076004	
MASTL	0.36094918	0.04857226	2.87037572	
TP53	0.36091733	0.04859056	2.87008455	
LGI2	-0.36088086	0.04861451	-2.86975112	
GPX3	-0.36081105	0.04867918	-2.86911288	
CD300A	-0.36068697	0.04879712	-2.86797857	
SLC12A4	-0.36068092	0.04879712	-2.86792330	
KIAA1310	0.36064904	0.04881556	2.86763193	
SNAI1	-0.36062251	0.04882746	-2.86738946	
MECR	0.36048247	0.04897851	2.86610963	

GRAMD3	0.36043095	0.04902113	2.86563883	
INPP5D	-0.36030801	0.04915164	-2.86451550	
PTGER3	-0.36026747	0.04918088	-2.86414512	
ATP13A2	0.36023308	0.04920255	2.86383099	
FAM78A	-0.36020115	0.04922122	-2.86353924	
HCCS	0.36012315	0.04929671	2.86282677	yes
TRIM7	0.36009061	0.04931616	2.86252955	
HCK	-0.36002429	0.04936856	-2.86192384	
OR4A5	-0.36001464	0.04936856	-2.86183565	
CTSL2	0.35985818	0.04944448	2.86040691	
CHMP2A	0.35988560	0.04944448	2.86065725	
ITGB8	0.35985825	0.04944448	2.86040749	
DRG1	0.35989412	0.04944448	2.86073502	
RAG1AP1	0.35985273	0.04944448	2.86035708	
PTPRK	0.35990322	0.04944448	2.86081820	
NT5C2	0.35978929	0.04950226	2.85977788	
TXN2	0.35973761	0.04952483	2.85930604	
KIF23	0.35974522	0.04952483	2.85937549	
TMEM111	0.35962133	0.04964824	2.85824447	
SNX19	0.35954934	0.04969611	2.85758739	
TPH1	0.35955158	0.04969611	2.85760783	
PRKCD	0.35945824	0.04978857	2.85675588	
HOXA3	-0.35933312	0.04992355	-2.85561405	
SH3RF3	-0.35924644	0.04999001	-2.85482313	
RALGPS1	0.35925237	0.04999001	2.85487725	
LRFN5	-0.35922241	0.04999918	-2.85460381	
ACACB	-0.35918283	0.05002775	-2.85424274	
ZFP82	-0.35896180	0.05028346	-2.85222643	
PPP2R2C	0.35877039	0.05050299	2.85048074	
GAS6	-0.35859712	0.05070041	-2.84890095	
CHFR	0.35855454	0.05073312	2.84851275	
LOC93432	-0.35844608	0.05084922	-2.84752401	
ECH1	0.35820199	0.05105304	2.84529943	

MAST2	0.35821789	0.05105304	2.84544428
ATP6VOC	0.35825448	0.05105304	2.84577779
MOBK12B	-0.35823922	0.05105304	-2.84563866
FZD6	0.35820409	0.05105304	2.84531856
MCTP2	0.35817965	0.05106026	2.84509583
GJA4	-0.35806527	0.05118453	-2.84405362
ITPA	0.35800423	0.05124106	2.84349756
RHOBTB3	-0.35780803	0.05142827	-2.84171035
FLJ10357	-0.35780758	0.05142827	-2.84170623
LOC729687	0.35783837	0.05142827	2.84198670
TBC1D14	0.35777411	0.05144979	2.84140135
C15orf17	0.35771919	0.05146016	2.84090126
LIMD2	-0.35774649	0.05146016	-2.84114988
CXCL14	-0.35771611	0.05146016	-2.84087315
ANGPT2	-0.35757277	0.05162239	-2.83956785
AP3S2	0.35748230	0.05171713	2.83874416
GTF2IRD1	0.35743587	0.05175542	2.83832147
DDX26B	-0.35732755	0.05187336	-2.83733536
KIF20A	0.35727994	0.05189922	2.83690197
ZNF792	-0.35727425	0.05189922	-2.83685020
CLECL1	-0.35704831	0.05216937	-2.83479394
EIF4EBP2	0.35699644	0.05217663	2.83432199
DKK1	0.35699108	0.05217663	2.83427320
KIFC3	-0.35695974	0.05217663	-2.83398807
S100A3	0.35697269	0.05217663	2.83410594
MED20	0.35701324	0.05217663	2.83447485
LRRN4CL	-0.35681515	0.05234240	-2.83267266
FAM82A2	0.35679217	0.05235072	2.83246355
MAGED1	0.35675026	0.05237636	2.83208232
RNF144A	-0.35673926	0.05237636	-2.83198231
ACTA1	-0.35665395	0.05246562	-2.83120633
KAT2B	-0.35651584	0.05261391	-2.82995030
EI24	0.35650683	0.05261391	2.82986840

YARS	0.35646337	0.05264897	2.82947316	
LOC285033	0.35636826	0.05275141	2.82860842	
MYO3A	0.35629664	0.05282333	2.82795728	
PCBD2	0.35627698	0.05282741	2.82777855	
GOLSYN	0.35615045	0.05297129	2.82662833	
PSMD8	0.35613239	0.05297330	2.82646415	
KIFC1	0.35607511	0.05302668	2.82594355	
C6orf123	-0.35602148	0.05305367	-2.82545616	
AOX1	-0.35602782	0.05305367	-2.82551377	
CHPT1	-0.35585237	0.05320263	-2.82391937	
RPS18	0.35586336	0.05320263	2.82401925	
TMEM53	0.35584197	0.05320263	2.82382492	
STRADA	0.35586293	0.05320263	2.82401532	
STARD4	-0.35581945	0.05320309	-2.82362026	
MED24	0.35580863	0.05320309	2.82352202	
RANBP3L	-0.35553966	0.05353575	-2.82107856	
SNORD50A	-0.35549610	0.05354973	-2.82068295	
SLC3A2	0.35549670	0.05354973	2.82068844	
TSLP	-0.35525473	0.05384757	-2.81849107	
MN1	-0.35523055	0.05385778	-2.81827154	yes
BIK	0.35517694	0.05388521	2.81778483	
DSEL	-0.35518397	0.05388521	-2.81784865	
RHOD	0.35512595	0.05393108	2.81732194	
EPN2	0.35506407	0.05396957	2.81676017	
PLEK2	0.35506718	0.05396957	2.81678841	
CCBE1	-0.35495117	0.05409796	-2.81573534	
IQGAP3	0.35491951	0.05411823	2.81544800	
DPP3	0.35483888	0.05420383	2.81471625	
COX6B1	0.35481376	0.05421540	2.81448831	
ACTBL2	-0.35466162	0.05439679	-2.81310781	
KCTD7	-0.35448154	0.05461622	-2.81147412	
SNAI2	-0.35442116	0.05467527	-2.81092641	
LRRC70	-0.35436999	0.05470983	-2.81046235	

ITGA2	0.35436258	0.05470983	2.81039507	
TBC1D10C	-0.35433619	0.05472322	-2.81015580	
DNMT1	0.35418148	0.05490954	2.80875271	
RAB3C	-0.35411328	0.05495725	-2.80813434	
AKAP12	-0.35411584	0.05495725	-2.80815755	
GNAO1	-0.35408696	0.05497062	-2.80789572	yes
GALE	0.35392530	0.05514482	2.80643014	
SLC25A5	0.35394029	0.05514482	2.80656605	
DAGLB	0.35377336	0.05532860	2.80505290	
GLCE	0.35373404	0.05534613	2.80469653	
C12orf51	0.35372764	0.05534613	2.80463853	
PPP4R1	0.35358208	0.05552177	2.80331954	yes
ABCA1	0.35354993	0.05554322	2.80302821	
PLCG1	-0.35353166	0.05554578	-2.80286265	
ICA1	0.35350775	0.05555603	2.80264600	
ER12	0.35345015	0.05559371	2.80212418	
CSRNP3	-0.35344734	0.05559371	-2.80209867	
LHFPL2	-0.35337213	0.05567394	-2.80141739	
DIP2A	0.35331741	0.05571304	2.80092164	
VSNL1	0.35331076	0.05571304	2.80086144	
PMFBP1	0.35325326	0.05576923	2.80034058	
PIGL	0.35317595	0.05585258	2.79964036	
GRLF1	0.35312812	0.05589564	2.79920727	
DST	-0.35309571	0.05591763	-2.79891376	
TRAP1	0.35304389	0.05592443	2.79844442	
ARFGEF1	0.35300141	0.05592443	2.79805976	
SIRPB2	-0.35304261	0.05592443	-2.79843285	
FAM177B	0.35303956	0.05592443	2.79840523	
SVIL	-0.35300545	0.05592443	-2.79809640	
DAP3	0.35299277	0.05592443	2.79798160	yes
NEDD4	-0.35293098	0.05598673	-2.79742215	
AKR1C1	0.35287375	0.05604284	2.79690392	
STK32A	-0.35270685	0.05613353	-2.79539311	

HDLBP	0.35274548	0.05613353	2.79574279	
KRAS	0.35271537	0.05613353	2.79547022	yes
ENPP1	-0.35269365	0.05613353	-2.79527360	
C6orf106	0.35278898	0.05613353	2.79613655	
BMX	-0.35275269	0.05613353	-2.79580804	
ARHGAP11A	0.35271828	0.05613353	2.79549655	
SCARNA6	-0.35266946	0.05614440	-2.79505470	
KLK10	0.35255907	0.05627379	2.79405553	
PON3	0.35253357	0.05628650	2.79382479	
FAM20A	-0.35239010	0.05644550	-2.79252656	
SP2	0.35238564	0.05644550	2.79248621	
PDSS1	0.35229057	0.05655430	2.79162606	
ARF1	0.35219831	0.05665940	2.79079140	
GPR176	-0.35212832	0.05673380	-2.79015834	
SLC4A1	-0.35207813	0.05676838	-2.78970432	
COG7	0.35207088	0.05676838	2.78963878	
ANXA10	0.35198128	0.05679152	2.78882840	
SCRG1	-0.35200439	0.05679152	-2.78903742	
LRRC42	0.35199635	0.05679152	2.78896475	
PPP1R2P3	-0.35198124	0.05679152	-2.78882809	
F10	-0.35197307	0.05679152	-2.78875417	
HLA-DPB1	-0.35194031	0.05681447	-2.78845792	
AP1G1	0.35189215	0.05685879	2.78802241	
SNORD116-10	-0.35185568	0.05688691	-2.78769266	
MRPS16	0.35179641	0.05694672	2.78715671	
CD44	0.35176476	0.05696819	2.78687059	
NTRK3	-0.35170432	0.05699325	-2.78632412	
CERCAM	-0.35171020	0.05699325	-2.78637728	
UXS1	0.35169819	0.05699325	2.78626869	
RNF133	-0.35163901	0.05705304	-2.78573372	
IWS1	0.35148432	0.05724599	2.78433547	
SEMA4B	0.35142176	0.05731074	2.78377000	
MED15	0.35120237	0.05759510	2.78178749	

C20orf11	0.35109616	0.05769876	2.78082795	
PTPRE	-0.35110065	0.05769876	-2.78086852	
PON2	0.35086932	0.05799525	2.77877898	
SLC6A13	-0.35070584	0.05820335	-2.77730262	
FES	-0.35064748	0.05824071	-2.77677565	
HS3ST1	0.35064711	0.05824071	2.77677232	
ATP5I	0.35046736	0.05847266	2.77514950	
ITGA4	-0.35044081	0.05848741	-2.77490988	
GGH	0.35041805	0.05849680	2.77470438	
ZNF540	-0.35039989	0.05849965	-2.77454046	
SLCO4A1	-0.35029346	0.05862803	-2.77357988	yes
LOC100133404	-0.35017411	0.05877508	-2.77250277	yes
CA11	-0.34998678	0.05901968	-2.77081248	
SNORD116-2	-0.34990116	0.05911920	-2.77004002	
LPCAT1	-0.34979842	0.05924344	-2.76911327	
PCOTH	0.34967472	0.05939805	2.76799761	
SULT2B1	0.34965664	0.05940085	2.76783452	
FRK	0.34961828	0.05943283	2.76748860	yes
SAMD12	0.34953099	0.05953536	2.76670143	
PSME4	0.34945426	0.05962278	2.76600961	
C9orf47	-0.34938433	0.05970049	-2.76537914	
YPEL1	-0.34933752	0.05974485	-2.76495711	
CENPN	0.34931813	0.05974958	2.76478230	
C22orf28	0.34929350	0.05976188	2.76456031	
RBPMS	-0.34927694	0.05976253	-2.76441101	
ZAK	-0.34915724	0.05991252	-2.76333202	
EHD2	-0.34883060	0.06036404	-2.76038861	
PLUNC	-0.34880520	0.06037759	-2.76015973	
PIGN	0.34859222	0.06058676	2.75824117	
PLP2	0.34862929	0.06058676	2.75857512	
ZNF671	-0.34861884	0.06058676	-2.75848098	
KLRC4	-0.34858151	0.06058676	-2.75814471	
SEC22C	-0.34858475	0.06058676	-2.75817390	

IL11RA	-0.34848024	0.06071149	-2.75723261	
RPLP0	0.34841639	0.06075792	2.75665762	
TARS2	0.34841869	0.06075792	2.75667839	
GNE	0.34832993	0.06082820	2.75587912	
HNF4G	0.34832870	0.06082820	2.75586806	
TMEM163	-0.34832025	0.06082820	-2.75579193	
DSC2	0.34828097	0.06086227	2.75543826	
TMEM98	-0.34795883	0.06131312	-2.75253835	
KCNE3	0.34793103	0.06133044	2.75228822	
ST8SIA1	-0.34791443	0.06133124	-2.75213874	
FRY	-0.34785939	0.06138606	-2.75164349	
NAT15	0.34784522	0.06138606	2.75151593	
ZNF346	0.34778514	0.06145121	2.75097527	
PIGW	0.34771385	0.06153301	2.75033386	
ADAM33	-0.34765933	0.06159004	-2.74984332	yes
ABCA6	-0.34761485	0.06163223	-2.74944309	
KPNA2	0.34742701	0.06188759	2.74775337	
CYR61	-0.34738027	0.06190771	-2.74733296	
CROT	0.34737302	0.06190771	2.74726778	
LOC730241	-0.34736538	0.06190771	-2.74719905	
CLDN5	-0.34724743	0.06205966	-2.74613827	
GRIA1	-0.34722363	0.06207126	-2.74592428	
ERGIC1	0.34714805	0.06216019	2.74524472	
TNFSF8	-0.34712818	0.06216595	-2.74506601	
EFTUD2	0.34689690	0.06248834	2.74298680	
IQGAP2	-0.34680297	0.06260539	-2.74214247	
NEGR1	-0.34674702	0.06266544	-2.74163965	
NADSYN1	0.34672843	0.06266931	2.74147256	
NAP1L2	-0.34669185	0.06270026	-2.74114382	
CLDN11	-0.34664525	0.06274632	-2.74072508	yes
GALNT4	0.34661172	0.06277272	2.74042377	
GBP2	-0.34656483	0.06281927	-2.74000243	
FRAP1	0.34638016	0.06307398	2.73834327	

FLJ20444	-0.34618405	0.06332383	-2.73658171	
MSMB	0.34618326	0.06332383	2.73657468	
BAG5	0.34615666	0.06333993	2.73633578	
S100A10	0.34613431	0.06334959	2.73613504	
DNAJC14	0.34609784	0.06338070	2.73580745	
MAEA	0.34608144	0.06338133	2.73566022	
ICK	0.34602871	0.06341290	2.73518669	
SLC37A4	0.34603601	0.06341290	2.73525221	
LY6D	0.34594228	0.06352001	2.73441064	
ATP5O	0.34589757	0.06356376	2.73400919	
DYNLT1	0.34571847	0.06381248	2.73240137	
EGR2	-0.34567143	0.06385996	-2.73197910	
TH1L	0.34562741	0.06390286	2.73158395	
CCDC80	0.34561056	0.06390421	2.73143280	
FAM46C	-0.34558161	0.06392410	-2.73117289	
SCARNA16	-0.34550185	0.06402174	-2.73045714	yes
GPR4	-0.34530060	0.06430603	-2.72865125	
MED30	-0.34517347	0.06445253	-2.72751077	
EXO1	0.34518499	0.06445253	2.72761413	
MDFIC	-0.34514806	0.06446712	-2.72728282	
ERCC6	0.34509323	0.06451466	2.72679095	
PDK3	-0.34508533	0.06451466	-2.72672009	
ASB5	-0.34496415	0.06467701	-2.72563330	
FAIM2	0.34491572	0.06472722	2.72519895	
PNPLA4	0.34485556	0.06479562	2.72465939	
INTS9	0.34482588	0.06481689	2.72439328	
NACC1	0.34476626	0.06488453	2.72385868	
ADAM32	-0.34474234	0.06489692	-2.72364425	
SPRY1	-0.34466831	0.06498696	-2.72298053	
IGHG3	-0.34444943	0.06530227	-2.72101844	
CYSLTR1	-0.34440974	0.06531453	-2.72066270	
FAM129C	-0.34442511	0.06531453	-2.72080039	
SARDH	-0.34426444	0.06551624	-2.71936048	

GPR56	0.34417117	0.06563710	2.71852472	
TSPAN17	0.34391266	0.06601730	2.71620885	
C10orf59	-0.34386834	0.06606196	-2.71581183	
NPAL1	0.34380372	0.06610355	2.71523304	
GCLM	0.34379505	0.06610355	2.71515540	
ACAT2	0.34379418	0.06610355	2.71514766	
PAQR8	0.34376728	0.06612087	2.71490672	
PRDX2	0.34365118	0.06627296	2.71386704	
ENC1	-0.34362623	0.06627296	-2.71364357	
PLEKHM1	0.34362303	0.06627296	2.71361495	
CXorf39	0.34358124	0.06631381	2.71324070	yes
DERA	0.34352635	0.06637535	2.71274924	
RBM44	-0.34348613	0.06641378	-2.71238916	
RPL7AP66	0.34339637	0.06653050	2.71158559	
CFI	-0.34334297	0.06658987	-2.71110755	
ERMAP	0.34315388	0.06683920	2.70941514	
LOC375295	-0.34315955	0.06683920	-2.70946586	yes
PCDH10	-0.34313771	0.06683970	-2.70927040	
IRF8	-0.34303983	0.06696998	-2.70839448	
PDE7B	-0.34291975	0.06708534	-2.70732013	
ITK	-0.34293826	0.06708534	-2.70748568	
NOTCH4	-0.34292125	0.06708534	-2.70733347	
PDE9A	-0.34289738	0.06709574	-2.70711996	yes
PHKA1	0.34280851	0.06721209	2.70632486	
MGC16385	0.34277976	0.06723268	2.70606770	
CDK6	0.34269111	0.06729836	2.70527474	
EPDR1	-0.34270609	0.06729836	-2.70540870	
ARPC5L	0.34271564	0.06729836	2.70549412	
TMEM87B	0.34265552	0.06732992	2.70495638	
PRSS23	0.34256635	0.06744710	2.70415885	
CTHRC1	-0.34249662	0.06750804	-2.70353528	
ORC6L	0.34250593	0.06750804	2.70361853	
SFMBT2	-0.34237791	0.06767281	-2.70247379	

ESCO2	0.34230802	0.06775956	2.70184885	
MYLK4	0.34227083	0.06779389	2.70151634	
CDC20B	0.34212732	0.06794835	2.70023344	
C12orf69	-0.34214808	0.06794835	-2.70041905	
MST1R	0.34214193	0.06794835	2.70036407	
SSX6	0.34197680	0.06811443	2.69888813	
PRB4	-0.34199217	0.06811443	-2.69902549	
C1QBP	0.34198324	0.06811443	2.69894572	
PKD1L1	-0.34186015	0.06827068	-2.69784571	
DAK	0.34184837	0.06827068	2.69774044	
NDRG1	-0.34182854	0.06827725	-2.69756319	
SCARNA4	-0.34176599	0.06835281	-2.69700430	yes
RNF141	0.34174463	0.06836186	2.69681348	
TM4SF1	0.34157319	0.06861384	2.69528178	
HHIP	-0.34154656	0.06863146	-2.69504391	
RAMP1	-0.34144607	0.06876895	-2.69414635	yes
STOM	-0.34139554	0.06879986	-2.69369508	
C3AR1	-0.34141110	0.06879986	-2.69383403	
SQRDL	0.34121172	0.06907337	2.69205348	
OR51B4	-0.34105499	0.06930349	-2.69065415	
SNRPB	0.34101847	0.06933746	2.69032806	
TMCO4	0.34096664	0.06939648	2.68986543	
KIAA0556	0.34089994	0.06945415	2.68926998	
C15orf34	0.34090753	0.06945415	2.68933774	
PEX13	0.34085846	0.06949632	2.68889974	yes
FAM105A	-0.34063788	0.06983260	-2.68693116	
RGAG4	-0.34054982	0.06994687	-2.68614543	
HEBP1	-0.34053699	0.06994687	-2.68603100	
SPDEF	0.34051082	0.06995813	2.68579751	
FADS3	-0.34049871	0.06995813	-2.68568942	yes
LRBA	0.34045172	0.07000966	2.68527019	yes
ATP1B2	-0.34039741	0.07004739	-2.68478572	
CD40LG	-0.34041107	0.07004739	-2.68490753	

APOE	-0.34032376	0.07011707	-2.68412870	
TNFAIP6	-0.34032530	0.07011707	-2.68414243	
GZF1	-0.34029774	0.07013411	-2.68389661	
SNAPIN	0.34023828	0.07020637	2.68336625	
SLC2A10	0.34014729	0.07033084	2.68255472	
KBTBD8	-0.33992684	0.07067024	-2.68058893	
SP140	-0.33979184	0.07081641	-2.67938541	
KIRREL	-0.33979664	0.07081641	-2.67942819	
CA8	-0.33980179	0.07081641	-2.67947407	
SFRS14	0.33973868	0.07085269	2.67891149	
DIS3L2	0.33974628	0.07085269	2.67897925	
DCLK2	-0.33970248	0.07088687	-2.67858877	
LCOR	0.33968252	0.07089401	2.67841088	yes
SCML4	-0.33961065	0.07096154	-2.67777032	
RQCD1	0.33961601	0.07096154	2.67781809	yes
SCN4B	-0.33953371	0.07101152	-2.67708455	
CCDC64	0.33954668	0.07101152	2.67720020	
NCOR1	0.33954973	0.07101152	2.67722732	
WFDC2	0.33941509	0.07115722	2.67602753	
IFITM1	-0.33941772	0.07115722	-2.67605093	
CUZD1	-0.33916103	0.07155628	-2.67376398	
NUP210L	-0.33909322	0.07164386	-2.67315992	yes
ZNF750	0.33903130	0.07172161	2.67260842	
TLE4	0.33896851	0.07180091	2.67204915	yes
SH3BGR	-0.33894468	0.07181470	-2.67183691	
LOC100129151	0.33877194	0.07207826	2.67029870	
SPRY4	-0.33875703	0.07207826	-2.67016588	
SNORD116-15	-0.33865133	0.07218498	-2.66922476	
EPHA2	0.33861573	0.07218498	2.66890788	
SNORD114-3	-0.33866163	0.07218498	-2.66931652	yes
RIN3	-0.33863211	0.07218498	-2.66905367	
LNX1	0.33862751	0.07218498	2.66901271	
DNM1	-0.33859354	0.07219610	-2.66871035	

TESC	-0.33855181	0.07224027	-2.66833883	yes
SLAIN1	-0.33847369	0.07231963	-2.66764347	
SGTB	-0.33847688	0.07231963	-2.66767183	
FAM8A1	-0.33840517	0.07240923	-2.66703357	
SIGLEC12	-0.33832820	0.07251326	-2.66634855	
RPIA	0.33821883	0.07267243	2.66537527	
RGS6	-0.33820166	0.07267512	-2.66522248	
ZNF22	-0.33814685	0.07274180	-2.66473477	
OGDH	0.33808225	0.07279868	2.66415995	
DDX56	0.33809283	0.07279868	2.66425406	
IDE	0.33805630	0.07281635	2.66392905	
COL12A1	-0.33797105	0.07285551	-2.66317062	
PPP2R2A	0.33800975	0.07285551	2.66351492	
SLC18A2	-0.33799411	0.07285551	-2.66337579	
HMCN1	-0.33797746	0.07285551	-2.66322766	
NUP214	0.33792503	0.07290738	2.66276127	
IRF6	0.33790557	0.07291404	2.66258820	
LOC728175	0.33784077	0.07299797	2.66201178	
SSU72	0.33777939	0.07307614	2.66146585	
P2RX1	-0.33771178	0.07316503	-2.66086450	
RNY5	-0.33765670	0.07323259	-2.66037469	
COL13A1	-0.33758445	0.07329467	-2.65973218	
C2orf15	0.33755829	0.07329467	2.65949961	
C9orf84	0.33757037	0.07329467	2.65960706	
NOG	-0.33756892	0.07329467	-2.65959410	
TMX2	0.33754089	0.07329791	2.65934485	
GRIN2A	-0.33751527	0.07331519	-2.65911713	
PAPOLB	-0.33749874	0.07331695	-2.65897013	
HIST1H3B	0.33733377	0.07357295	2.65750344	
JTV1	0.33724088	0.07370578	2.65667780	
PRMT5	0.33719262	0.07372885	2.65624881	
ZNF831	-0.33721000	0.07372885	-2.65640326	
CCDC136	-0.33718097	0.07372885	-2.65614529	

IL7R	-0.33715364	0.07374920	-2.65590237	
SCAMP2	0.33687622	0.07420047	2.65343715	
SCO1	0.33685665	0.07420752	2.65326327	
RTF1	0.33683285	0.07422189	2.65305181	
CMIP	0.33678360	0.07428025	2.65261425	
SLC39A2	0.33675194	0.07430824	2.65233297	
BHLHE41	-0.33670914	0.07435549	-2.65195281	
SF3B3	0.33669174	0.07435884	2.65179822	
ATHL1	-0.33660178	0.07448781	-2.65099915	
EDN1	-0.33651464	0.07461208	-2.65022521	yes
OR7E91P	0.33643340	0.07472627	2.64950374	
SLC6A1	-0.33640148	0.07475488	-2.64922021	
UNQ5814	-0.33631992	0.07485949	-2.64849605	
COQ9	0.33629496	0.07485949	2.64827438	
QRFPR	-0.33629495	0.07485949	-2.64827430	
IQCJ	-0.33627288	0.07487102	-2.64807835	
FLJ25006	0.33615893	0.07504255	2.64706670	
VRK3	0.33611513	0.07509200	2.64667784	
TADA3L	0.33600417	0.07525874	2.64569285	
OSTN	-0.33597137	0.07528909	-2.64540172	
HOXD4	-0.33593850	0.07531956	-2.64511003	yes
PHB2	0.33587857	0.07539740	2.64457810	
RIPK1	0.33584090	0.07540933	2.64424380	
SFXN1	0.33584814	0.07540933	2.64430805	
RBMX2	0.33579633	0.07543337	2.64384831	
PLK1	0.33580977	0.07543337	2.64396760	
SIRPD	-0.33577845	0.07543771	-2.64368959	
C11orf20	-0.33570373	0.07551459	-2.64302663	yes
SOD2	-0.33571911	0.07551459	-2.64316305	
RXFP2	-0.33568617	0.07551839	-2.64287077	
STX11	-0.33566823	0.07552285	-2.64271163	
TBC1D8	0.33564587	0.07553506	2.64251324	
AKAP13	0.33559026	0.07555166	2.64201986	

CHST14	-0.33559974	0.07555166	-2.64210399	
VNN2	-0.33560681	0.07555166	-2.64216666	
GPR183	-0.33553305	0.07562498	-2.64151231	
RAD23A	0.33551764	0.07562507	2.64137556	
DDAH2	-0.33540611	0.07579380	-2.64038627	
ASAP1	-0.33538523	0.07580350	-2.64020105	
C6orf125	0.33535239	0.07583421	2.63990977	
C22orf37	-0.33517150	0.07611973	-2.63830556	
NOL12	0.33515943	0.07611973	2.63819852	
C9orf23	0.33497260	0.07639532	2.63654197	
C6orf136	0.33497557	0.07639532	2.63656823	
DNAJB5	-0.33494003	0.07642578	-2.63625314	
SASH3	-0.33491351	0.07644554	-2.63601807	
GLIPR2	0.33477528	0.07666313	2.63479279	yes
SLC25A15	0.33474523	0.07668923	2.63452637	
KIAA1161	0.33472290	0.07670163	2.63432844	
LRP4	0.33467756	0.07675485	2.63392663	
MAF	-0.33462985	0.07680786	-2.63350379	
VAC14	0.33461704	0.07680786	2.63339029	
PTCH1	-0.33458918	0.07683012	-2.63314338	
C1QTNF2	-0.33455670	0.07686059	-2.63285557	
SNORD114-2	-0.33452324	0.07689283	-2.63255908	
IGHE	-0.33450056	0.07690593	-2.63235808	
NOP16	0.33442908	0.07700579	2.63172476	
METAP1	0.33433564	0.07714490	2.63089689	
ERBB2	0.33412963	0.07743059	2.62907193	
KANK1	-0.33413394	0.07743059	-2.62911019	
SLAMF1	-0.33415649	0.07743059	-2.62930987	
COPE	0.33409533	0.07743720	2.62876819	
ZNF442	-0.33410817	0.07743720	-2.62888193	
GRTP1	0.33407073	0.07745384	2.62855032	
RPP40	0.33402580	0.07747952	2.62815241	yes
DDR1	0.33403565	0.07747952	2.62823958	

SCARNA23	-0.33396718	0.07755704	-2.62763324	
HNRNPUL1	0.33382702	0.07778074	2.62639212	
PPP1R3B	-0.33377689	0.07781587	-2.62594830	
TIMELESS	0.33378342	0.07781587	2.62600611	
KIAA0355	-0.33368539	0.07795274	-2.62513818	
CDO1	-0.33363974	0.07800734	-2.62473405	
NAT10	0.33351420	0.07817829	2.62362285	
CACNB3	0.33351961	0.07817829	2.62367074	
CUX1	0.33345462	0.07825815	2.62309547	
HMGXB4	0.33337229	0.07835159	2.62236688	
EMILIN1	-0.33338656	0.07835159	-2.62249318	
GBGT1	-0.33322236	0.07859488	-2.62104011	
FANCA	0.33317519	0.07865262	2.62062278	
KLF10	-0.33297803	0.07898244	-2.61887852	
TFEB	-0.33289582	0.07910413	-2.61815135	
TFIP11	0.33282435	0.07920643	2.61751925	
MUCL1	0.33277043	0.07925024	2.61704238	
C4orf8	0.33276980	0.07925024	2.61703678	
NCAPD3	0.33275152	0.07925578	2.61687513	
MYOC	-0.33263248	0.07944501	-2.61582249	
MAOB	-0.33260718	0.07946339	-2.61559876	
CYB5R1	0.33253269	0.07957161	2.61494011	
C10orf99	0.33234815	0.07988149	2.61330874	
REL	0.33231969	0.07990574	2.61305717	
FTSJ3	0.33228714	0.07993750	2.61276946	
AAMP	0.33217336	0.08011846	2.61176379	
PBRM1	0.33188238	0.08062658	2.60919260	yes
UGT1A1	0.33185269	0.08065329	2.60893029	
STON2	0.33160980	0.08107496	2.60678480	
GPR34	-0.33154404	0.08114050	-2.60620398	
STAM	0.33154548	0.08114050	2.60621669	
MGLL	-0.33148715	0.08121792	-2.60570155	
RHOH	-0.33130387	0.08148378	-2.60408315	

NOP2	0.33129865	0.08148378	2.60403706	
WNT7B	0.33131076	0.08148378	2.60414404	
DIP2B	0.33125700	0.08153304	2.60366940	
MLF1IP	0.33114721	0.08168116	2.60270007	
OBFC1	0.33115671	0.08168116	2.60278398	
TACC2	0.33107394	0.08178963	2.60205336	
SNORD22	-0.33105117	0.08180377	-2.60185236	
DUSP14	0.33101296	0.08184679	2.60151512	
IL1B	-0.33090834	0.08201420	-2.60059171	
RAB19	0.33077793	0.08223031	2.59944088	
PTPRZ1	0.33075371	0.08224724	2.59922719	
LASS3	0.33063913	0.08243153	2.59821625	
MTMR12	0.33062528	0.08243153	2.59809403	
ICMT	0.33054143	0.08256080	2.59735429	
TTC39B	0.33051510	0.08258179	2.59712198	yes
PTPDC1	-0.33044313	0.08268505	-2.59648719	
ANKRD18A	0.33041831	0.08268505	2.59626820	
CCT3	0.33041477	0.08268505	2.59623701	
CD19	-0.33032129	0.08283284	-2.59541255	
FARP2	0.33029797	0.08284823	2.59520683	
GPR126	-0.33025657	0.08289779	-2.59484172	
STK10	-0.33022962	0.08290434	-2.59460409	
C10orf57	0.33022277	0.08290434	2.59454367	yes
OR9I1	-0.33015154	0.08301037	-2.59391553	
ESR2	-0.33009766	0.08308365	-2.59344043	
ZNF823	0.33007828	0.08309164	2.59326959	yes
SAMSN1	-0.33006054	0.08309655	-2.59311314	
LDB3	-0.33001214	0.08313084	-2.59268641	
MAOA	0.33001712	0.08313084	2.59273033	
C8orf76	0.32999165	0.08314098	2.59250577	
CYP2U1	-0.32994205	0.08314896	-2.59206845	
MTCH2	0.32994430	0.08314896	2.59208835	
MYBL1	-0.32995392	0.08314896	-2.59217315	

TNFSF15	-0.32992692	0.08314897	-2.59193511	
GSPT1	0.32991038	0.08315166	2.59178929	
ARSB	-0.32984727	0.08324259	-2.59123299	
GPRASP1	-0.32978644	0.08332930	-2.59069675	
NDUFS3	0.32974087	0.08338710	2.59029510	
RGS10	-0.32970143	0.08343330	-2.58994747	
UBE2T	0.32964250	0.08351655	2.58942818	
SEMA6B	-0.32954713	0.08366921	-2.58858773	yes
ZNF662	-0.32943400	0.08385598	-2.58759086	
KCNA5	-0.32938620	0.08391836	-2.58716972	
INPP5B	-0.32931076	0.08401624	-2.58650508	
MTSS1	0.32930474	0.08401624	2.58645201	
MAP3K4	0.32926788	0.08405782	2.58612731	
OR5K2	-0.32921930	0.08412182	-2.58569942	
CTCF	0.32913829	0.08421650	2.58498584	
NEK2	0.32915307	0.08421650	2.58511600	
LOC85389	-0.32912456	0.08421650	-2.58486488	
LILRB2	-0.32910553	0.08422406	-2.58469729	
SMPX	-0.32906129	0.08425106	-2.58430767	
STK32B	-0.32907076	0.08425106	-2.58439101	
EIF3I	0.32892296	0.08448723	2.58308947	
SPTY2D1	0.32889104	0.08451958	2.58280834	
IL15	-0.32884065	0.08458739	-2.58236465	
NPY1R	-0.32880698	0.08462314	-2.58206817	
SPI1	-0.32876035	0.08468380	-2.58165764	
CELSR1	0.32874473	0.08468489	2.58152014	
IP6K3	0.32868510	0.08477061	2.58099514	
MFN2	0.32866771	0.08477514	2.58084201	
ANK3	0.32862938	0.08479102	2.58050461	yes
TMTC1	-0.32864007	0.08479102	-2.58059876	
SCARNA17	-0.32856152	0.08487951	-2.57990726	
RBP5	-0.32855333	0.08487951	-2.57983521	
ESR1	-0.32853519	0.08488552	-2.57967548	

GCET2	-0.32839529	0.08512586	-2.57844415	
HSD17B2	-0.32836962	0.08512586	-2.57821829	
ZNF317	0.32836542	0.08512586	2.57818132	
TMCO3	0.32834714	0.08513165	2.57802040	
TLN2	-0.32833241	0.08513165	-2.57789077	yes
CPA3	-0.32828555	0.08516416	-2.57747847	
KCNB1	-0.32829133	0.08516416	-2.57752933	
GJB6	0.32820700	0.08523471	2.57678724	
DHX8	0.32819290	0.08523471	2.57666317	
GOLGA7B	0.32823328	0.08523471	2.57701849	
CDH26	0.32818905	0.08523471	2.57662934	
PHF17	-0.32813015	0.08531954	-2.57611110	
KRT18P28	0.32809752	0.08535366	2.57582400	
FLNC	-0.32807938	0.08535978	-2.57566444	
DENND1A	-0.32801090	0.08546327	-2.57506194	
BEX4	-0.32795429	0.08554386	-2.57456398	
PCGF6	-0.32791517	0.08559065	-2.57421986	
LOC401127	0.32787931	0.08563113	2.57390447	
HLCS	0.32762850	0.08603429	2.57169873	
PSMD1	0.32762679	0.08603429	2.57168366	
APOLD1	-0.32763757	0.08603429	-2.57177846	
DCUN1D5	0.32758040	0.08609546	2.57127577	
EIF4G2	0.32755324	0.08611922	2.57103696	yes
FMO1	-0.32743564	0.08631927	-2.57000299	
SMPD3	0.32733228	0.08649185	2.56909441	
C18orf19	0.32720468	0.08668293	2.56797281	
SGCA	-0.32720872	0.08668293	-2.56800835	
FAM32A	0.32711494	0.08682945	2.56718405	
ZBTB43	0.32704151	0.08686664	2.56653879	
FRG2C	-0.32702958	0.08686664	-2.56643399	
EIF4E3	-0.32704636	0.08686664	-2.56658142	
MICALCL	0.32702129	0.08686664	2.56636108	
CD5	-0.32707978	0.08686664	-2.56687511	

PPFIA1	0.32691628	0.08704338	2.56543843	
NKG7	-0.32679384	0.08725475	-2.56436261	
APEX1	0.32673942	0.08733249	2.56388455	
LOC100133364	-0.32670462	0.08736610	-2.56357891	
F2R	-0.32669252	0.08736610	-2.56347256	
SNORA14B	-0.32663348	0.08745305	-2.56295395	
CCDC15	0.32658696	0.08751536	2.56254539	
AVIL	0.32647184	0.08769416	2.56153433	
TIRAP	0.32644547	0.08769416	2.56130269	
CTNNA3	-0.32643677	0.08769416	-2.56122630	
EDC3	0.32645688	0.08769416	2.56140289	
BUB1	0.32636768	0.08780128	2.56061957	
ART3	-0.32630209	0.08787209	-2.56004369	
C14orf129	0.32630260	0.08787209	2.56004814	
TRAF3IP3	-0.32625897	0.08792796	-2.55966509	
CSNK1A1	0.32620959	0.08797257	2.55923154	yes
SEMA3G	-0.32620507	0.08797257	-2.55919185	yes
RFC2	0.32619181	0.08797257	2.55907540	
PIAS3	0.32589217	0.08853799	2.55644514	
WDR68	0.32584300	0.08860627	2.55601367	
SIGLEC10	-0.32575347	0.08875509	-2.55522798	
LRRC8D	0.32570932	0.08880361	2.55484053	
TNFRSF10D	-0.32569232	0.08880361	-2.55469134	yes
TGFBRAP1	0.32568454	0.08880361	2.55462307	
C21orf125	-0.32564803	0.08881714	-2.55430278	
PTPLA	-0.32565089	0.08881714	-2.55432781	
RNASEK	0.32561405	0.08885531	2.55400463	
RGS21	-0.32553448	0.08898460	-2.55330645	
BHLHE22	-0.32546974	0.08908435	-2.55273854	
ACE	-0.32530199	0.08939068	-2.55126708	
LPXN	-0.32528570	0.08939355	-2.55112423	
C6orf153	0.32526022	0.08941488	2.55090077	
HAPLN3	-0.32523890	0.08942789	-2.55071373	

UCP2	0.32517039	0.08953563	2.55011294	
TTPAL	0.32512773	0.08957608	2.54973881	
ZMYM3	0.32512059	0.08957608	2.54967615	
ZCCHC5	-0.32504240	0.08966625	-2.54899057	
SNORD47	-0.32503124	0.08966625	-2.54889271	
CYSLTR2	-0.32506003	0.08966625	-2.54914513	
GCN1L1	0.32488047	0.08979540	2.54757083	
C4orf45	-0.32493724	0.08979540	-2.54806855	
KPNB1	0.32489947	0.08979540	2.54773742	
C11orf92	0.32494421	0.08979540	2.54812967	
NFIL3	-0.32490163	0.08979540	-2.54775631	
TRAPPC10	0.32487817	0.08979540	2.54755065	
RASD1	-0.32481222	0.08989842	-2.54697246	
AQP11	-0.32478811	0.08991718	-2.54676111	
CARM1	0.32476624	0.08993143	2.54656943	
HN1L	0.32467666	0.09008225	2.54578422	
LYG1	0.32459023	0.09019756	2.54502675	
NOB1	0.32458997	0.09019756	2.54502442	
TACR3	-0.32452061	0.09030784	-2.54441662	
SIPA1L1	0.32449320	0.09033339	2.54417638	
HIST1H1A	0.32430969	0.09067517	2.54256841	
NDST4	-0.32428402	0.09069727	-2.54234349	
DRAM	-0.32420626	0.09077410	-2.54166225	
CIAPIN1	0.32422091	0.09077410	2.54179062	
FADS2	-0.32420184	0.09077410	-2.54162354	
TMEM38B	-0.32412400	0.09090223	-2.54094168	
SGK493	-0.32407250	0.09094691	-2.54049052	yes
PPM1F	-0.32408262	0.09094691	-2.54057920	
MKNK1	0.32399674	0.09107100	2.53982702	
PKD2	-0.32396629	0.09110262	-2.53956030	
USP6NL	0.32395171	0.09110262	2.53943256	yes
SOX9	-0.32391420	0.09113260	-2.53910411	
SNORD32B	-0.32390749	0.09113260	-2.53904528	

EXOSC7	0.32386480	0.09115949	2.53867150	
COPS7A	0.32386540	0.09115949	2.53867674	
MRPL44	0.32369333	0.09147921	2.53717001	
LRCH1	-0.32363504	0.09156742	-2.53665970	
TCEAL7	-0.32362069	0.09156742	-2.53653404	
TP53BP2	0.32346448	0.09182685	2.53516651	
MPPED2	-0.32347879	0.09182685	-2.53529184	
DLGAP5	0.32343075	0.09186579	2.53487127	
B4GALT1	0.32328946	0.09212551	2.53363471	
TET1	-0.32324482	0.09218699	-2.53324400	
ANGPTL2	-0.32314951	0.09235277	-2.53240998	
MPP7	0.32309563	0.09241743	2.53193851	
FCHO1	-0.32307396	0.09241743	-2.53174885	
PPAPDC2	0.32307947	0.09241743	2.53179714	
METTL9	0.32298250	0.09257561	2.53094868	
AKR1C4	0.32292217	0.09266974	2.53042087	
HUWE1	0.32290368	0.09267444	2.53025909	
MGAT4B	0.32289048	0.09267444	2.53014363	
PLAC9	-0.32280403	0.09281429	-2.52938742	yes
TRIP13	0.32279336	0.09281429	2.52929412	yes
HCLS1	-0.32276501	0.09284252	-2.52904611	
RTN1	-0.32265655	0.09303139	-2.52809746	
ZNF804A	-0.32264433	0.09303139	-2.52799067	
OSBPL3	0.32258929	0.09311498	2.52750928	yes
PTPRD	-0.32254477	0.09317680	-2.52712000	
C6orf115	0.32250541	0.09322798	2.52677576	
CBLC	0.32243013	0.09335372	2.52611755	
MOSC2	-0.32227169	0.09365262	-2.52473234	
CCDC12	0.32221330	0.09374366	2.52422188	
TSSC1	0.32217905	0.09378443	2.52392251	
FN3K	-0.32215074	0.09381287	-2.52367498	
DARS2	0.32212990	0.09382571	2.52349286	
ATP5H	0.32204963	0.09396255	2.52279130	

KCNA3	-0.32198478	0.09406736	-2.52222447	
ZNF675	0.32192626	0.09415900	2.52171310	
AKAP7	-0.32190558	0.09417157	-2.52153241	
ARHGEF4	0.32183524	0.09428806	2.52091773	
LILRA1	-0.32178147	0.09436997	-2.52044785	
RNASEL	0.32174907	0.09440712	2.52016480	
ALG3	0.32168762	0.09444379	2.51962791	
HLA-DRA	-0.32169182	0.09444379	-2.51966456	
BLID	-0.32171001	0.09444379	-2.51982353	
FCN1	-0.32160361	0.09457930	-2.51889396	
SLCO1C1	-0.32159371	0.09457930	-2.51880748	
C17orf49	0.32154326	0.09465446	2.51836679	
BAG3	0.32142387	0.09487459	2.51732397	
UBE2Q1	0.32134392	0.09501206	2.51662565	
MCM8	0.32132914	0.09501236	2.51649662	
EIF3A	0.32120748	0.09523798	2.51543416	
ZCCHC6	0.32115749	0.09531260	2.51499768	
FAM38B	-0.32112721	0.09534564	-2.51473333	
UGT8	0.32097932	0.09562744	2.51344213	
BCKDHA	0.32095866	0.09564021	2.51326177	
EPS8L2	0.32079147	0.09596369	2.51180239	
OAT	0.32074158	0.09603858	2.51136696	
LOC100129434	-0.32072675	0.09603903	-2.51123749	
NCK2	0.32069485	0.09607575	2.51095906	
FNBP1	-0.32061139	0.09615995	-2.51023073	
POFUT1	0.32061215	0.09615995	2.51023740	
RAPH1	0.32061924	0.09615995	2.51029926	
TINAGL1	-0.32057958	0.09619654	-2.50995312	
LCN10	-0.32047104	0.09633004	-2.50900605	yes
WEE1	0.32047758	0.09633004	2.50906313	
UBXN8	0.32045845	0.09633004	2.50889617	
CD302	-0.32049595	0.09633004	-2.50922344	
DHRS4L2	0.32043690	0.09633442	2.50870820	

RPGRIP1	-0.32042721	0.09633442	-2.50862362	
UBE4A	0.32037647	0.09641142	2.50818097	
DHTKD1	0.32026883	0.09660986	2.50724188	
LIMK2	0.32012310	0.09689009	2.50597072	
WDR23	0.32001676	0.09708653	2.50504336	
FLJ11506	0.31994782	0.09720307	2.50444211	yes
NAIP	-0.31985411	0.09737293	-2.50362498	
ARPC3	0.31973367	0.09760054	2.50257489	
ANGPTL5	-0.31969891	0.09764398	-2.50227181	
ODZ1	-0.31965672	0.09767204	-2.50190405	
ZNF321	0.31966228	0.09767204	2.50195255	
LTBP3	-0.31953983	0.09789258	-2.50088506	
SKI	-0.31950849	0.09792876	-2.50061190	
SETD5	0.31944196	0.09804093	2.50003209	
GLB1	0.31936921	0.09816667	2.49939803	
PLD6	-0.31922721	0.09835295	-2.49816060	
HLA-DMA	-0.31925641	0.09835295	-2.49841503	
NMT1	0.31921653	0.09835295	2.49806754	
ARL15	-0.31921032	0.09835295	-2.49801340	
RALGDS	0.31922539	0.09835295	2.49814470	
LOC100127889	-0.31918272	0.09838119	-2.49777297	
BRCC3	0.31914664	0.09842784	2.49745860	
SLC26A5	0.31911583	0.09846309	2.49719011	
CPT1C	-0.31894739	0.09879708	-2.49572269	
FSTL4	0.31889865	0.09887142	2.49529811	
CIB1	0.31882039	0.09895452	2.49461645	
AMICA1	-0.31881700	0.09895452	-2.49458699	
RHOU	-0.31881683	0.09895452	-2.49458544	
LNX2	0.31876822	0.09902868	2.49416211	
SH2B3	-0.31869210	0.09912427	-2.49349916	
PI4K2A	0.31869711	0.09912427	2.49354279	
NPAL2	0.31866623	0.09912427	2.49327388	
DEPDC5	0.31867726	0.09912427	2.49336996	

ASTN2	-0.31856153	0.09919434	-2.49236213	
LSG1	0.31860230	0.09919434	2.49271721	
C19orf33	0.31858212	0.09919434	2.49254142	
ENTPD4	0.31857086	0.09919434	2.49244341	
KIAA0247	0.31857918	0.09919434	2.49251583	
DNAJB1	0.31845524	0.09936291	2.49143669	
TMEM79	0.31846001	0.09936291	2.49147823	
F5	-0.31842291	0.09940183	-2.49115524	
WFDC3	0.31834317	0.09948743	2.49046103	
SLC35C1	0.31834025	0.09948743	2.49043559	
ADAMTS2	-0.31835721	0.09948743	-2.49058321	
LAT2	-0.31828244	0.09958212	-2.48993233	
KALRN	-0.31825145	0.09961821	-2.48966258	
C17orf68	-0.31818199	0.09973848	-2.48905803	
ULBP3	0.31810547	0.09987436	2.48839200	
FMO2	-0.31792521	0.10020636	-2.48682334	
LG1	-0.31793375	0.10020636	-2.48689764	
TBC1D22B	0.31790807	0.10021222	2.48667418	
CSGALNACT2	-0.31788780	0.10022497	-2.48649781	
POLR2A	0.31766260	0.10068893	2.48453848	
ARMC6	0.31760499	0.10078411	2.48403739	
ADCY7	-0.31757265	0.10082358	-2.48375604	
NEURL3	-0.31747908	0.10099838	-2.48294219	
VAMP2	-0.31745720	0.10101477	-2.48275194	
LEPREL2	-0.31740702	0.10106194	-2.48231553	
METTL2A	0.31740696	0.10106194	2.48231494	
HLF	-0.31737981	0.10109003	-2.48207882	
ATP11A	0.31730666	0.10121998	2.48144270	
XPOT	0.31720319	0.10141731	2.48054303	
STARD10	0.31687259	0.10186321	2.47766901	
SEC23IP	0.31689907	0.10186321	2.47789913	yes
ARFIP2	0.31688091	0.10186321	2.47774129	
PKD1L3	0.31692976	0.10186321	2.47816592	

MT1F	-0.31697655	0.10186321	-2.47857264	
FAM176A	-0.31695122	0.10186321	-2.47835241	
KIAA1755	-0.31695857	0.10186321	-2.47841631	
SKAP1	-0.31687279	0.10186321	-2.47767071	
RSPRY1	0.31691456	0.10186321	2.47803383	
GPR107	0.31681796	0.10195275	2.47719412	
LOC200810	0.31679026	0.10196573	2.47695338	
CXCL5	-0.31676888	0.10196573	-2.47676756	
NUF2	0.31678025	0.10196573	2.47686645	
TMEM22	-0.31668504	0.10212047	-2.47603898	
PAK6	0.31656375	0.10235907	2.47498500	
CASP9	0.31646011	0.10252637	2.47408453	
TP53I3	0.31647300	0.10252637	2.47419653	
BIN3	0.31637061	0.10269451	2.47330699	
LGI4	-0.31634211	0.10269935	-2.47305942	
SMC1A	0.31633964	0.10269935	2.47303794	
NUP153	0.31614665	0.10310013	2.47136160	yes
PCDH12	-0.31612369	0.10311937	-2.47116218	
CAMTA1	-0.31604605	0.10326161	-2.47048795	
COX7B	0.31591795	0.10351777	2.46937557	
SLC25A10	0.31571085	0.10387040	2.46757745	
JUND	-0.31572069	0.10387040	-2.46766287	
C14orf133	0.31573735	0.10387040	2.46780750	
GRRP1	-0.31570422	0.10387040	-2.46751992	
PLOD3	-0.31565668	0.10394537	-2.46710724	
TMOD3	0.31562921	0.10397498	2.46686875	yes
RAB40B	0.31551045	0.10419895	2.46583792	
PEG10	-0.31550156	0.10419895	-2.46576079	
CD247	-0.31542825	0.10433262	-2.46512450	
LOC100128918	0.31534574	0.10445465	2.46440846	
IRF4	-0.31535729	0.10445465	-2.46450875	
DBNL	0.31528269	0.10456526	2.46386134	
GPX4	0.31522958	0.10462065	2.46340055	

CCDC88C	0.31523937	0.10462065	2.46348549
MBD2	0.31512583	0.10482411	2.46250030
PAF1	0.31501885	0.10503524	2.46157225
SNORA37	-0.31498684	0.10505178	-2.46129458
GGCT	0.31498287	0.10505178	2.46126012
SEP1	-0.31494979	0.10507700	-2.46097320
SNORA16A	-0.31492874	0.10507700	-2.46079061
MS4A8B	0.31493780	0.10507700	2.46086917
KIAA1522	0.31490445	0.10509968	2.46057992
FMN1	0.31486922	0.10513936	2.46027431
MATN2	-0.31485837	0.10513936	-2.46018025
LMO3	-0.31484341	0.10514078	-2.46005049
EDIL3	-0.31482694	0.10514566	-2.45990757
ITGAL	-0.31480081	0.10517258	-2.45968103
PDCD11	0.31477183	0.10520605	2.45942962
HDX	-0.31461103	0.10548498	-2.45803519
MAB21L1	-0.31460221	0.10548498	-2.45795868
AXUD1	-0.31458951	0.10548498	-2.45784864
DNAJC5	0.31460516	0.10548498	2.45798426
ADAM9	0.31457820	0.10548498	2.45775053
MTHFD1	0.31455901	0.10549614	2.45758414
GFRA2	-0.31452830	0.10553368	-2.45731783
MAPK10	0.31447142	0.10559841	2.45682466
PCDHB16	-0.31447833	0.10559841	-2.45688458
TBL1X	0.31445552	0.10560206	2.45668684
CDA	-0.31429734	0.10593198	-2.45531556
PDP2	0.31406758	0.10642764	2.45332416
OR5P2	-0.31396509	0.10655254	-2.45243600
EVC	-0.31395242	0.10655254	-2.45232625
WSB2	0.31396211	0.10655254	2.45241022
CGN	0.31394192	0.10655254	2.45223524
MAPK8IP1	0.31397700	0.10655254	2.45253919
ZNF562	0.31389396	0.10663023	2.45181968

ASPA	-0.31377412	0.10684107	-2.45078132	
RPL4P4	0.31378043	0.10684107	2.45083600	
PATL1	0.31367484	0.10703769	2.44992130	
THSD7B	-0.31365346	0.10705412	-2.44973610	
PBXIP1	-0.31359147	0.10716465	-2.44919911	
P2RY1	0.31350790	0.10732532	2.44847527	
TMEM131	0.31346189	0.10739896	2.44807679	yes
MYB	0.31343994	0.10741678	2.44788669	yes
ZNF655	0.31342139	0.10742672	2.44772600	
GRIA2	-0.31336100	0.10753384	-2.44720305	
SPINT1	0.31322720	0.10781191	2.44604440	
RALGPS2	0.31320029	0.10784134	2.44581143	yes
VAMP1	-0.31303213	0.10820029	-2.44435556	
C6orf58	-0.31295831	0.10833946	-2.44371650	
KLRG1	-0.31279164	0.10865469	-2.44227383	
PLA2G5	-0.31275665	0.10865469	-2.44197109	
ARV1	0.31274461	0.10865469	2.44186683	
SLC7A1	0.31275137	0.10865469	2.44192535	
TYRP1	-0.31274657	0.10865469	-2.44188380	
FAM127A	-0.31273807	0.10865469	-2.44181027	
ZNF773	-0.31264360	0.10884279	-2.44099274	
LOC100129395	-0.31253910	0.10905474	-2.44008851	
INPP1	0.31248966	0.10913747	2.43966076	
CDS1	0.31243340	0.10917646	2.43917397	yes
HLA-DPA1	-0.31243035	0.10917646	-2.43914754	
MYH1	-0.31244974	0.10917646	-2.43931536	
PGBD1	-0.31240652	0.10919902	-2.43894140	
CILP	-0.31239072	0.10920268	-2.43880476	
PDE1C	-0.31234336	0.10928064	-2.43839505	
OR5K4	-0.31230685	0.10933309	-2.43807923	
ERO1L	0.31228741	0.10934537	2.43791105	
SUPT6H	0.31223668	0.10943135	2.43747225	
TFDP1	0.31215240	0.10959653	2.43674326	

RAB39B	-0.31209605	0.10962140	-2.43625586	
SPERT	-0.31208500	0.10962140	-2.43616029	
PCLO	0.31210788	0.10962140	2.43635816	
CSNK1G1	0.31212705	0.10962140	2.43652403	
RARRES3	0.31204935	0.10967199	2.43585199	
GPR171	-0.31192775	0.10992568	-2.43480047	
ESPL1	0.31188688	0.10998874	2.43444708	
VASN	-0.31184394	0.11005674	-2.43407579	yes
PDLIM5	0.31166605	0.11044472	2.43253787	
WDR51B	0.31158993	0.11059177	2.43187987	yes
HSPG2	-0.31152385	0.11071512	-2.43130864	
CLIP4	0.31148680	0.11076946	2.43098845	
FLJ37396	0.31146710	0.11078255	2.43081817	
MAGEA3	0.31144430	0.11080301	2.43062115	
FAM111B	0.31136146	0.11096648	2.42990518	
EBF2	-0.31120773	0.11129937	-2.42857676	
FAM129B	0.31118812	0.11131230	2.42840734	
HOMEZ	0.31115935	0.11134712	2.42815875	
WBCSCR23	0.31097295	0.11175922	2.42654839	
C6orf105	-0.31088519	0.11193564	-2.42579035	
LYZ	-0.31086210	0.11195700	-2.42559087	
SDHB	0.31076137	0.11216487	2.42472084	
PCDHGA3	-0.31073121	0.11220325	-2.42446041	
PI3	0.31066430	0.11226555	2.42388251	
FCGBP	-0.31067021	0.11226555	-2.42393362	
PER2	0.31066276	0.11226555	2.42386923	
MORF4	-0.31047665	0.11264550	-2.42226222	
COL1A1	-0.31047842	0.11264550	-2.42227750	
LAMB2	-0.31042727	0.11273043	-2.42183586	
PCBP4	-0.31037899	0.11281275	-2.42141907	yes
PRSS3	0.31035901	0.11282678	2.42124657	
LOC100133362	-0.31026148	0.11289523	-2.42040463	
C12orf66	0.31024352	0.11289523	2.42024965	

AP2B1	0.31027451	0.11289523	2.42051711	
ZNF365	-0.31025870	0.11289523	-2.42038062	
SAMM50	0.31024218	0.11289523	2.42023805	
PPP2R2B	-0.31026067	0.11289523	-2.42039761	
SNORA21	-0.31023155	0.11289523	-2.42014632	
SEP8	-0.31019090	0.11295222	-2.41979538	
MNAT1	0.31017968	0.11295222	2.41969854	
PMP2	-0.31013329	0.11303016	-2.41929815	
SULT1E1	-0.31004821	0.11320100	-2.41856386	
MFSD9	0.31003439	0.11320100	2.41844461	
CYP2E1	0.31001458	0.11321474	2.41827366	
FAM124A	-0.30998279	0.11325749	-2.41799931	
TTK	0.30993470	0.11333975	2.41758430	
RASSF1	-0.30988458	0.11342697	-2.41715183	
CSPG4	-0.30983149	0.11351696	-2.41669370	
PCSK1	-0.30981923	0.11351696	-2.41658795	
CNOT1	0.30972367	0.11368034	2.41576349	yes
COG1	0.30973640	0.11368034	2.41587327	
HIATL1	0.30964888	0.11382776	2.41511824	
SNORD115-7	-0.30962468	0.11385062	-2.41490954	
ARHGAP11B	0.30961125	0.11385062	2.41479369	
LRRC25	-0.30952811	0.11401855	-2.41407649	
CXCL17	0.30948804	0.11406881	2.41373085	
LMNB1	0.30945107	0.11406881	2.41341196	
CTA-221G9.4	0.30945300	0.11406881	2.41342865	
ST18	0.30945775	0.11406881	2.41346963	
CIDEB	0.30918739	0.11467775	2.41113807	
RPUSD3	0.30911819	0.11481255	2.41054139	
PKN3	-0.30909622	0.11483181	-2.41035201	yes
SEMA3E	-0.30899292	0.11505033	-2.40946146	
TOMM34	0.30893857	0.11514906	2.40899292	yes
GALNT9	-0.30888920	0.11523563	-2.40856733	
PRDM4	0.30876065	0.11551690	2.40745930	yes

PPIAP19	-0.30873049	0.11555644	-2.40719930	
MYOZ2	-0.30869170	0.11558255	-2.40686501	
CHD8	0.30870416	0.11558255	2.40697245	
ARL6IP1	0.30867212	0.11559607	2.40669629	
USP21	0.30860703	0.11572166	2.40613532	
PROCR	-0.30857673	0.11575498	-2.40587423	
KIAA0664	0.30855127	0.11575498	2.40565491	
IGHV1-69	-0.30856220	0.11575498	-2.40574907	
AGPAT2	0.30853232	0.11576702	2.40549155	
GADD45B	-0.30831239	0.11627506	-2.40359669	
TMUB2	0.30822782	0.11644947	2.40286815	
C16orf78	-0.30817798	0.11650321	-2.40243881	
OXA1L	0.30818586	0.11650321	2.40250668	
FOXC1	-0.30812273	0.11660522	-2.40196293	
LCAT	-0.30803993	0.11677564	-2.40124980	
C18orf45	-0.30798971	0.11686537	-2.40081731	
TUFT1	0.30791455	0.11701712	2.40017005	
SLC25A42	-0.30784080	0.11716553	-2.39953496	yes
ADA	-0.30779204	0.11718193	-2.39911517	
B3GNT5	0.30781355	0.11718193	2.39930033	yes
APOBEC3B	0.30779991	0.11718193	2.39918291	
TUBB2A	0.30776609	0.11721154	2.39889170	
JAK3	-0.30773241	0.11726040	-2.39860174	
DLG5	0.30758607	0.11755501	2.39734187	
HS3ST2	-0.30758966	0.11755501	-2.39737278	
ATP7A	0.30756948	0.11756137	2.39719902	
FAM60A	0.30751220	0.11766924	2.39670597	yes
TUSC1	-0.30747942	0.11771605	-2.39642376	
AADAACL1	0.30731930	0.11808117	2.39504571	
KIAA1598	0.30723930	0.11824638	2.39435720	
BMP4	-0.30715129	0.11843185	-2.39359988	
OBP2A	-0.30711271	0.11845822	-2.39326794	
MBNL1	-0.30712441	0.11845822	-2.39336860	

FAM126A	-0.30708739	0.11848656	-2.39305007	
MYOM1	-0.30704463	0.11855870	-2.39268212	
FAM43A	-0.30702549	0.11856010	-2.39251749	yes
LOC440786	-0.30701603	0.11856010	-2.39243607	
PRTG	-0.30696377	0.11865613	-2.39198648	
SLC20A2	0.30688601	0.11881636	2.39131753	
GNL3	0.30680456	0.11889265	2.39061692	
POLR2H	0.30677165	0.11889265	2.39033379	yes
PRR13	-0.30678258	0.11889265	-2.39042785	
SOX17	-0.30679524	0.11889265	-2.39053676	
CA2	-0.30680597	0.11889265	-2.39062904	
MARS2	0.30679701	0.11889265	2.39055195	
SLC17A7	-0.30675551	0.11889805	-2.39019497	yes
C8orf4	-0.30670998	0.11897740	-2.38980340	
HRASLS5	-0.30663405	0.11909815	-2.38915037	
GHR	-0.30664609	0.11909815	-2.38925389	
NUDT1	-0.30658671	0.11918219	-2.38874323	
RAB3B	0.30651857	0.11931876	2.38815723	
ABCF2	0.30644689	0.11946437	2.38754090	
CCDC84	0.30633243	0.11971830	2.38655678	
STAB1	-0.30624893	0.11982348	-2.38583893	
PABPC1	0.30627050	0.11982348	2.38602434	
MCTP1	-0.30624926	0.11982348	-2.38584179	
FAM19A5	-0.30623417	0.11982547	-2.38571204	
PLCB3	0.30606973	0.12020680	2.38429854	
RNF157	-0.30597457	0.12041297	-2.38348067	
WWTR1	-0.30595770	0.12042035	-2.38333562	
SLC45A4	0.30592412	0.12047020	2.38304704	
DYNC1LI2	0.30590619	0.12048028	2.38289293	
TTPA	0.30579903	0.12068724	2.38197209	
RASSF4	-0.30579691	0.12068724	-2.38195384	
CNR2	-0.30571973	0.12084824	-2.38129074	
SNORD68	-0.30568033	0.12091309	-2.38095218	

SRGAP3	0.30562445	0.12102002	2.38047207	
FCRL1	-0.30557110	0.12112054	-2.38001379	
ZNF121	0.30550271	0.12125958	2.37942622	
SRGAP2	0.30535742	0.12158797	2.37817820	
ZFP36L2	-0.30534643	0.12158797	-2.37808387	
SPON1	-0.30530004	0.12159961	-2.37768545	
ZNF384	0.30530480	0.12159961	2.37772633	
ALDH1A2	-0.30531029	0.12159961	-2.37777345	
KSR1	0.30526109	0.12166367	2.37735091	
CCND3	-0.30519884	0.12178750	-2.37681627	
PRLR	-0.30518224	0.12179433	-2.37667371	
PLA2G4A	0.30512168	0.12191390	2.37615373	
GH1	-0.30510649	0.12191714	-2.37602324	
TOM1L1	0.30499531	0.12216688	2.37506859	
SLC24A3	-0.30493042	0.12229789	-2.37451154	
MARCKSL1	-0.30486352	0.12243422	-2.37393719	
UNQ6126	-0.30479743	0.12256860	-2.37336980	
MYO1B	0.30474825	0.12265945	2.37294770	
CNTNAP1	-0.30467748	0.12280610	-2.37234022	yes
C10orf33	0.30465022	0.12284052	2.37210625	
BLCAP	0.30455431	0.12301634	2.37128312	
FLRT3	-0.30455441	0.12301634	-2.37128392	
LOC100131613	-0.30453763	0.12302350	-2.37113992	
ZNF679	-0.30446928	0.12316424	-2.37055338	
LOC100130100	-0.30439879	0.12323865	-2.36994851	
MOBKL2A	-0.30442511	0.12323865	-2.37017432	
TRIP4	0.30440569	0.12323865	2.37000775	yes
LGR5	-0.30432643	0.12339001	-2.36932759	
KIAA1468	0.30428827	0.12345284	2.36900022	yes
RC3H1	0.30425755	0.12349644	2.36873663	yes
OR6C6	-0.30422636	0.12354127	-2.36846904	
CCDC47	0.30414536	0.12371535	2.36777412	
ULK3	0.30402112	0.12400203	2.36670843	

PNCK	-0.30390127	0.12425484	-2.36568045	yes
TDP1	0.30389012	0.12425484	2.36558486	yes
RRM1	0.30388230	0.12425484	2.36551780	
IGHG1	-0.30378490	0.12447252	-2.36468249	
PDE3B	-0.30376347	0.12449218	-2.36449873	
P4HA3	-0.30371871	0.12457274	-2.36411494	
NDRG4	-0.30369180	0.12460674	-2.36388416	
GLT1D1	-0.30366856	0.12463117	-2.36368489	
UPF1	0.30360297	0.12476624	2.36312250	
NR4A3	-0.30358264	0.12478310	-2.36294821	
ALDOA	0.30350924	0.12493875	2.36231886	
NF-E4	-0.30349163	0.12494850	-2.36216795	
MCF2	-0.30344255	0.12500434	-2.36174719	
REEP6	0.30344839	0.12500434	2.36179726	
LOC100132564	-0.30318204	0.12557826	-2.35951422	
GON4L	0.30318670	0.12557826	2.35955418	
TCEAL4	-0.30318709	0.12557826	-2.35955753	
HSPB7	-0.30301870	0.12597136	-2.35811450	
C18orf8	0.30298718	0.12600480	2.35784444	
ITPR3	0.30296441	0.12600480	2.35764930	
DSN1	0.30297614	0.12600480	2.35774979	
GPRC5C	0.30288002	0.12619066	2.35692625	
PEA15	-0.30283862	0.12626331	-2.35657151	
NDUFA12	0.30273535	0.12640113	2.35568685	
PCDHGA6	-0.30275678	0.12640113	-2.35587045	
VRK2	0.30272980	0.12640113	2.35563934	yes
MRPL24	0.30273476	0.12640113	2.35568183	
RERG	-0.30271714	0.12640113	-2.35553084	
TRUB2	0.30262276	0.12656172	2.35472241	
MGST2	0.30260539	0.12656172	2.35457364	
TULP4	0.30260098	0.12656172	2.35453588	
NETO2	0.30260203	0.12656172	2.35454487	
MPP6	-0.30258109	0.12657774	-2.35436549	

ACTN4	0.30249898	0.12675826	2.35366226	
STC2	-0.30248376	0.12676195	-2.35353190	
ANO8	0.30243648	0.12685009	2.35312702	
ATXN7	0.30242281	0.12685009	2.35300988	
VPREB3	-0.30219071	0.12742889	-2.35102250	
CCDC101	0.30211782	0.12754913	2.35039844	
SPAST	0.30212726	0.12754913	2.35047928	
CCT5	0.30208303	0.12756815	2.35010059	
APITD1	0.30209309	0.12756815	2.35018676	
DPY19L2P4	-0.30206309	0.12758444	-2.34992988	
FCRL6	-0.30197811	0.12777379	-2.34920241	
EML6	0.30192157	0.12785078	2.34871851	
CABLES1	-0.30193484	0.12785078	-2.34883208	
PKP3	0.30185976	0.12791391	2.34818944	
PADI4	-0.30178752	0.12791391	-2.34757117	
HTRA2	-0.30179544	0.12791391	-2.34763892	
MT1G	-0.30179294	0.12791391	-2.34761753	
ABCB4	-0.30185379	0.12791391	-2.34813830	
RETSAT	0.30185474	0.12791391	2.34814646	
RAD23B	0.30181643	0.12791391	2.34781856	
LOC643287	0.30182560	0.12791391	2.34789711	
AS3MT	-0.30173234	0.12802422	-2.34709890	
VPS26B	0.30169885	0.12807676	2.34681235	
CXCL3	-0.30163995	0.12815524	-2.34630827	
LOC729085	-0.30164262	0.12815524	-2.34633111	
CD9	0.30162810	0.12815524	2.34620692	
NHEDC1	-0.30148376	0.12850389	-2.34497184	
TTC9C	0.30141706	0.12864543	2.34440123	yes
NSF	0.30131785	0.12887418	2.34355252	
C2orf79	0.30128324	0.12893003	2.34325646	
KIAA1024L	-0.30114556	0.12912444	-2.34207882	
NLRP6	-0.30117256	0.12912444	-2.34230973	
APOC1	-0.30114194	0.12912444	-2.34204784	

MRTO4	0.30118763	0.12912444	2.34243861
PRKAB1	0.30116812	0.12912444	2.34227172
RHCG	0.30109740	0.12920705	2.34166694
LDLRAP1	0.30106339	0.12926147	2.34137600
SNORA38B	-0.30100504	0.12936123	-2.34087700
GNAL	0.30099875	0.12936123	2.34082322
UBE2L3	0.30092084	0.12953370	2.34015705
HFM1	-0.30077876	0.12984476	-2.33894213
PIAS4	0.30077782	0.12984476	2.33893413
PHF7	0.30075641	0.12986543	2.33875106
CD180	-0.30066963	0.12999923	-2.33800917
RAB22A	0.30066557	0.12999923	2.33797448
ATP6V1F	0.30066957	0.12999923	2.33800865
SEMA4A	0.30062375	0.13007500	2.33761699
WWC2	-0.30060759	0.13008156	-2.33747885
NR2F6	0.30058881	0.13009519	2.33731834
TMEM132C	-0.30055259	0.13015592	-2.33700868
AFF1	0.30050261	0.13025384	2.33658144
LOC129293	-0.30042600	0.13040592	-2.33592672
S100A13	0.30041889	0.13040592	2.33586591
TIPARP	0.30034410	0.13052558	2.33522675
SIPA1	-0.30033350	0.13052558	-2.33513618
ABHD9	0.30035295	0.13052558	2.33530238
COX4I1	0.30030505	0.13052840	2.33489304
ACAT1	-0.30031151	0.13052840	-2.33494826
F8	-0.30016346	0.13076335	-2.33368311
IL17RD	-0.30019535	0.13076335	-2.33395559
C1orf163	0.30018080	0.13076335	2.33383124
CASP3	0.30017596	0.13076335	2.33378992
CD163	-0.30010777	0.13087715	-2.33320725
LYVE1	-0.30009083	0.13088595	-2.33306257
GGT6	0.30004481	0.13093652	2.33266934
MAFG	0.30005813	0.13093652	2.33278318

ZBTB48	0.30000097	0.13101829	2.33229483	
FREM1	-0.29995786	0.13109814	-2.33192655	
IFITM3	-0.29988620	0.13125555	-2.33131440	
IFFO2	0.29983962	0.13134498	2.33091644	
HES3	-0.29979911	0.13141792	-2.33057044	yes
ME3	0.29973181	0.13148943	2.32999559	
AGAP2	-0.29974015	0.13148943	-2.33006684	
ADAMTS9	-0.29974429	0.13148943	-2.33010221	
CFD	-0.29971328	0.13150266	-2.32983734	
HSPA6	-0.29969682	0.13151025	-2.32969683	
IL34	-0.29962332	0.13167311	-2.32906909	yes
CLDN12	0.29956281	0.13180073	2.32855232	
GAS7	-0.29948097	0.13198660	-2.32785351	
DLX5	-0.29943151	0.13200982	-2.32743115	
GPR1	-0.29944278	0.13200982	-2.32752740	
NPEPPS	0.29943928	0.13200982	2.32749752	
SNORA61	-0.29937156	0.13213616	-2.32691935	
AURKA	0.29932798	0.13221790	2.32654725	
SLC1A2	-0.29928038	0.13231067	-2.32614089	
RNASEH2C	-0.29912762	0.13269130	-2.32483686	
MMS19	0.29908948	0.13275842	2.32451127	
FOLR2	-0.29904581	0.13283781	-2.32413854	
HSPA8	0.29903323	0.13283781	2.32403121	
MTIF2	0.29898325	0.13293749	2.32360457	
DNAJC12	0.29895192	0.13296449	2.32333723	
TRAF1	-0.29894614	0.13296449	-2.32328788	
LOC728115	0.29882860	0.13324978	2.32228486	
EGR3	-0.29878060	0.13334425	-2.32187529	
LOC100132992	0.29873268	0.13340109	2.32146639	
PAIP2B	-0.29874298	0.13340109	-2.32155423	
TPD52	0.29867528	0.13352155	2.32097660	
FLJ25770	-0.29862611	0.13361941	-2.32055711	
SNORA55	-0.29845375	0.13401955	-2.31908672	

AKAP5	-0.29846403	0.13401955	-2.31917437	
CREB5	-0.29836701	0.13422153	-2.31834686	
LOC152667	0.29829037	0.13432047	2.31769320	
BCL2L13	0.29831264	0.13432047	2.31788313	
SYDE2	-0.29829875	0.13432047	-2.31776464	
PQLC3	-0.29822681	0.13442100	-2.31715108	
EDNRA	-0.29823094	0.13442100	-2.31718632	
RHBDD2	0.29819546	0.13447009	2.31688376	
FAM83H	0.29814133	0.13455796	2.31642215	
TCTA	0.29813652	0.13455796	2.31638108	
TNIK	-0.29811657	0.13457554	-2.31621096	
VWA1	-0.29806734	0.13467423	-2.31579122	yes
PDXK	0.29800511	0.13480904	2.31526056	
CDKN2D	-0.29799088	0.13481079	-2.31513929	
ADCYAP1	-0.29789293	0.13504488	-2.31430412	
SNORD116-22	-0.29770107	0.13535645	-2.31266862	
GPR155	-0.29770164	0.13535645	-2.31267351	
FKBP5	-0.29769506	0.13535645	-2.31261741	
GPD1L	0.29774544	0.13535645	2.31304681	
SAA1	-0.29768259	0.13535645	-2.31251107	
ELOVL1	0.29768380	0.13535645	2.31252144	
SHCBP1	0.29767215	0.13535645	2.31242212	
BRIP1	0.29770269	0.13535645	2.31268239	
CABYR	0.29764032	0.13540724	2.31215082	
DACH2	-0.29756849	0.13552546	-2.31153861	
PHLDB1	-0.29757841	0.13552546	-2.31162316	
ADAM2	-0.29755714	0.13552546	-2.31144188	
TNFSF18	-0.29753263	0.13555594	-2.31123299	
GRAP	-0.29747625	0.13563745	-2.31075248	
TTC15	0.29748148	0.13563745	2.31079702	
POP1	0.29738682	0.13581111	2.30999043	
TMEM117	0.29739404	0.13581111	2.31005194	
STYXL1	0.29737115	0.13581704	2.30985685	

NTF4	-0.29732020	0.13592133	-2.30942275	
KIF15	0.29730628	0.13592240	2.30930410	
LOC442249	0.29725945	0.13601526	2.30890513	
DDX11	0.29719023	0.13617075	2.30831534	
RPS9	-0.29709923	0.13638728	-2.30754009	
KRT35	0.29705769	0.13646560	2.30718628	
C6orf190	-0.29702249	0.13652623	-2.30688642	
SLC4A1AP	0.29700184	0.13654615	2.30671053	
ANKRD52	0.29690134	0.13678980	2.30585449	
ICOSLG	-0.29679085	0.13694791	-2.30491349	
AATF	0.29679640	0.13694791	2.30496071	
MMP19	-0.29683022	0.13694791	-2.30524881	
ATRIP	0.29679294	0.13694791	2.30493126	
NDUFA9	0.29669782	0.13713314	2.30412128	
POPDC2	-0.29669786	0.13713314	-2.30412158	
NLRP12	-0.29664283	0.13724967	-2.30365299	
SLC6A9	0.29662175	0.13727094	2.30347348	
ZNF165	0.29653118	0.13748765	2.30270237	
MED8	0.29640962	0.13767778	2.30166740	
TXNDC12	0.29641824	0.13767778	2.30174077	
BUD13	0.29644386	0.13767778	2.30195892	
DDX21	0.29641614	0.13767778	2.30172289	
CCL19	-0.29638599	0.13768976	-2.30146624	
AKR1CL2	-0.29637836	0.13768976	-2.30140130	
C4orf31	-0.29632529	0.13780126	-2.30094958	
MRPS21	0.29628393	0.13787984	2.30059746	yes
ABI1	0.29624928	0.13790072	2.30030257	yes
ASPRV1	-0.29623604	0.13790072	-2.30018988	
CTSW	-0.29625557	0.13790072	-2.30035609	
BDNF	0.29619883	0.13796764	2.29987316	
GNAZ	-0.29616410	0.13802761	-2.29957750	
EIF2AK1	0.29611032	0.13814137	2.29911980	
SNORA43	-0.29607311	0.13820839	-2.29880312	

KIF21A	0.29600259	0.13833150	2.29820300
KIAA1549	0.29600779	0.13833150	2.29824730
COQ2	0.29596302	0.13840529	2.29786626
GIPC2	-0.29592659	0.13847022	-2.29755628
TMTC3	0.29578680	0.13879739	2.29636686
LOC283398	0.29578411	0.13879739	2.29634402
NANS	0.29566144	0.13910720	2.29530037
NPFF	-0.29563113	0.13915501	-2.29504258
LOC653113	0.29560149	0.13920096	2.29479039
EIF2B5	0.29556388	0.13926955	2.29447052
NCOA5	0.29548038	0.13946870	2.29376031
PRRT2	-0.29546627	0.13947054	-2.29364030
ZNF585B	0.29533938	0.13979359	2.29256110
M6PRBP1	0.29529381	0.13980899	2.29217355
tcag7.893	-0.29529253	0.13980899	-2.29216269
RWDD1	-0.29525909	0.13980899	-2.29187833
ASPHD2	0.29526767	0.13980899	2.29195130
NADK	0.29525324	0.13980899	2.29182860
CCT6A	0.29531701	0.13980899	2.29237084
ZNF565	0.29519835	0.13992717	2.29136183
WIPF2	0.29514963	0.14002780	2.29094758
NMNAT2	-0.29509949	0.14013255	-2.29052129
PNRC1	-0.29502225	0.14021502	-2.28986456
ZNF366	-0.29501331	0.14021502	-2.28978851
SSH3	0.29500345	0.14021502	2.28970469
BEST1	-0.29501848	0.14021502	-2.28983248
SEP7	-0.29503248	0.14021502	-2.28995155
LOC100132224	-0.29492978	0.14027207	-2.28907847
SDK1	0.29495885	0.14027207	2.28932556
GZMH	-0.29494993	0.14027207	-2.28924976
ACPL2	-0.29494215	0.14027207	-2.28918360
LAIR1	-0.29486159	0.14042861	-2.28849883
NLGN1	-0.29482270	0.14049991	-2.28816819

FAM168A	-0.29480983	0.14049991	-2.28805886	
POLD3	0.29478144	0.14050443	2.28781752	
LTB	-0.29478529	0.14050443	-2.28785028	
CCL11	-0.29474475	0.14057103	-2.28750571	
EPHA5	-0.29470458	0.14061093	-2.28716427	
SAT1	0.29470401	0.14061093	2.28715942	yes
RGS16	-0.29468931	0.14061468	-2.28703445	
TNN	-0.29459277	0.14085275	-2.28621403	
NUDT6	-0.29452847	0.14099867	-2.28566761	
SLCO5A1	-0.29448440	0.14108668	-2.28529310	
OAZ2	-0.29445804	0.14112388	-2.28506915	
OR6C1	-0.29443208	0.14115996	-2.28484858	
RAB30	-0.29438779	0.14124031	-2.28447223	
CASP7	0.29437732	0.14124031	2.28438333	
C20orf111	0.29436315	0.14124259	2.28426289	
TTYH2	-0.29433755	0.14127768	-2.28404540	
TMEM71	0.29425661	0.14146574	2.28335779	
LPHN2	-0.29424535	0.14146574	-2.28326209	
PYGO1	-0.29415479	0.14161079	-2.28249287	
NUP88	0.29416016	0.14161079	2.28253841	
GAR1	0.29416900	0.14161079	2.28261350	
C14orf156	0.29395163	0.14215766	2.28076723	
FRAT1	-0.29385953	0.14226250	-2.27998506	yes
CSK	0.29384848	0.14226250	2.27989130	
PIGF	0.29385774	0.14226250	2.27996989	yes
LRRN3	-0.29386094	0.14226250	-2.27999711	yes
MAML3	0.29387858	0.14226250	2.28014689	
ADAM12	-0.29376797	0.14245649	-2.27920761	
OR10G4	0.29374677	0.14247917	2.27902755	
POLS	0.29371009	0.14250522	2.27871613	
CISH	-0.29369770	0.14250522	-2.27861096	
SGCB	-0.29372376	0.14250522	-2.27883220	
CCL18	-0.29365452	0.14259148	-2.27824434	

HIST1H3E	0.29348060	0.14305647	2.27676781	
CIRH1A	0.29346409	0.14306566	2.27662763	
PSEN1	0.29338912	0.14320572	2.27599123	
FZD3	0.29339634	0.14320572	2.27605257	
HYAL2	-0.29331277	0.14338866	-2.27534317	
ABCG2	-0.29324344	0.14355136	-2.27475480	
ABCF1	0.29308122	0.14395305	2.27337811	
WASL	0.29307876	0.14395305	2.27335723	
CLEC17A	-0.29303624	0.14403812	-2.27299639	
CYFIP1	0.29300636	0.14408635	2.27274286	
INO80	0.29296259	0.14416811	2.27237151	
PTGFRN	0.29293833	0.14416811	2.27216563	
ADAMTS4	-0.29294926	0.14416811	-2.27225837	
PLA1A	-0.29287010	0.14432832	-2.27158680	
ZCCHC14	0.29283975	0.14437804	2.27132928	
KIF4A	0.29276122	0.14445138	2.27066314	
PCDHB15	-0.29276942	0.14445138	-2.27073266	
AGPAT4	-0.29278231	0.14445138	-2.27084200	
TMPRSS13	0.29276434	0.14445138	2.27068955	
GFM2	0.29274804	0.14445138	2.27055133	yes
DIO3	-0.29272054	0.14449283	-2.27031805	
ATP6VOE2	-0.29270014	0.14451355	-2.27014500	
AVPR2	-0.29267805	0.14453924	-2.26995758	
HGSNAT	0.29261911	0.14459488	2.26945764	
HOXB5	-0.29262865	0.14459488	-2.26953858	
IL8	0.29261974	0.14459488	2.26946303	
CRISPLD2	-0.29257576	0.14468273	-2.26909000	
ADAMTS8	-0.29252782	0.14478408	-2.26868337	
SELE	-0.29247985	0.14485113	-2.26827655	
CADPS2	-0.29247832	0.14485113	-2.26826358	
PSTPIP1	-0.29244186	0.14491898	-2.26795433	
DIAPH1	0.29241952	0.14494077	2.26776486	
ARSD	0.29240785	0.14494077	2.26766594	

SLC7A5	0.29235945	0.14498704	2.26725552	
SOCS3	-0.29237112	0.14498704	-2.26735448	
GLYATL1	-0.29235222	0.14498704	-2.26719419	
RAB15	0.29230000	0.14510113	2.26675137	
PPM1H	0.29224724	0.14520964	2.26630406	
ANKRD27	0.29223643	0.14520964	2.26621241	
C8orf40	0.29220939	0.14525004	2.26598309	
C2orf54	0.29218807	0.14527366	2.26580236	
DEGS1	-0.29208460	0.14553838	-2.26492513	
GDNF	-0.29201542	0.14568604	-2.26433863	yes
EEPD1	0.29200782	0.14568604	2.26427421	
BCR	0.29197105	0.14575516	2.26396251	
LAT	-0.29185769	0.14604970	-2.26300166	
MRPL51	0.29181863	0.14612568	2.26267064	
KLF15	-0.29179202	0.14616503	-2.26244511	
TMEM176A	-0.29176062	0.14621852	-2.26217896	
LMO2	-0.29153832	0.14683572	-2.26029516	
TNFAIP8L2	-0.29152161	0.14684593	-2.26015359	
CD74	-0.29147836	0.14693467	-2.25978713	
ALOX15	0.29145101	0.14697639	2.25955541	
MLEC	0.29143726	0.14697787	2.25943894	
SALL2	-0.29129557	0.14735838	-2.25823860	
MORF4L1	-0.29126714	0.14740342	-2.25799772	
HIST1H2AI	0.29122331	0.14749415	2.25762649	
WDR45L	0.29119945	0.14752568	2.25742433	yes
FAM172B	0.29116172	0.14759838	2.25710473	
ACAD9	0.29106344	0.14785104	2.25627237	
PMS2	0.29104109	0.14786822	2.25608312	
RC3H2	0.29101795	0.14786822	2.25588709	
C21orf122	-0.29102209	0.14786822	-2.25592214	
HSPB6	-0.29091542	0.14805514	-2.25501884	
MIA3	0.29092099	0.14805514	2.25506599	
AP3B1	0.29093880	0.14805514	2.25521681	

TSHZ2	0.29088370	0.14811018	2.25475025
CASP12	-0.29084851	0.14817559	-2.25445225
OR5H6	-0.29082125	0.14821741	-2.25422139
HARS2	0.29077744	0.14830853	2.25385047
PALB2	0.29075190	0.14834524	2.25363424
IFFO1	-0.29071726	0.14836433	-2.25334096
ZNF208	-0.29070893	0.14836433	-2.25327040
SEC16A	0.29070586	0.14836433	2.25324441
CYP2A13	-0.29058922	0.14863342	-2.25225695
CDC23	0.29060154	0.14863342	2.25236128
MNX1	-0.29052764	0.14877553	-2.25173567
CASZ1	0.29051521	0.14877553	2.25163047
DKK3	-0.29042907	0.14899352	-2.25090127
MCRS1	0.29029674	0.14903424	2.24978127
TRIM31	0.29034500	0.14903424	2.25018976
MAP4K1	-0.29029939	0.14903424	-2.24980372
ABTB2	-0.29036597	0.14903424	-2.25036726
C18orf10	0.29038378	0.14903424	2.25051798
KCNJ2	-0.29033083	0.14903424	-2.25006984
ZYX	-0.29034048	0.14903424	-2.25015145
DIAPH3	0.29031053	0.14903424	2.24989803
CAMK1	-0.29038470	0.14903424	-2.25052574
EXOC1	0.29026827	0.14907996	2.24954037
GALNT1	0.29024581	0.14910773	2.24935029
C4orf32	-0.29018571	0.14924813	-2.24884170
FLJ36070	-0.29014860	0.14931980	-2.24852765
ARPC2	0.29008625	0.14946710	2.24800010
CENPE	0.29001420	0.14952024	2.24739042
EYA4	0.29001328	0.14952024	2.24738271
CC2D2B	-0.29003894	0.14952024	-2.24759973
LOC399965	0.29000271	0.14952024	2.24729322
VPS72	0.29001455	0.14952024	2.24739344
SRPK1	0.28997398	0.14956693	2.24705013

NIP7	0.28994644	0.14961005	2.24681714	
TMEM44	0.28983378	0.14990860	2.24586407	
LPCAT2	-0.28974952	0.15012224	-2.24515132	
SEC23A	-0.28971401	0.15017832	-2.24485096	
KIAA0391	0.28970457	0.15017832	2.24477111	
SLC16A10	-0.28953655	0.15061551	-2.24335003	
KLRK1	-0.28953305	0.15061551	-2.24332043	
PDIA3P	0.28951427	0.15063248	2.24316162	
RALA	0.28948805	0.15067189	2.24293991	
PLEKHA4	-0.28941484	0.15085309	-2.24232074	
MSL3L2	0.28935064	0.15100722	2.24177788	
AP2M1	0.28925749	0.15102649	2.24099036	
FLNB	0.28926470	0.15102649	2.24105129	
IGKV5-2	-0.28925234	0.15102649	-2.24094674	
MARK1	0.28929254	0.15102649	2.24128663	
FASTKD5	0.28930720	0.15102649	2.24141059	
LOC648987	0.28928445	0.15102649	2.24121827	
BECN1	0.28929627	0.15102649	2.24131821	
FOXC2	-0.28914968	0.15125736	-2.24007883	
PRR11	0.28915347	0.15125736	2.24011088	
STRN	0.28912442	0.15129406	2.23986532	
PAAF1	0.28904300	0.15150069	2.23917705	
PSTPIP2	-0.28902412	0.15151815	-2.23901742	
ZBTB32	-0.28876956	0.15225046	-2.23686588	
RXRA	0.28871737	0.15236920	2.23642491	
LOC401296	-0.28866553	0.15248698	-2.23598685	
LARP1	0.28861173	0.15253098	2.23553220	
CDK5RAP2	0.28861898	0.15253098	2.23559349	
NAPSA	-0.28861275	0.15253098	-2.23554080	yes
PPM1L	0.28857285	0.15259028	2.23520374	
GRP	0.28856603	0.15259028	2.23514607	
TNFRSF9	-0.28852685	0.15266965	-2.23481505	
DYNLL2	-0.28850570	0.15269417	-2.23463632	

PPP1R12A	-0.28844497	0.15283927	-2.23412324	
P4HB	0.28837666	0.15300758	2.23354620	
CPNE2	0.28835846	0.15302315	2.23339241	
FAM180A	-0.28827774	0.15322278	-2.23271059	
RNF128	0.28826686	0.15322278	2.23261863	
SREBF2	0.28813349	0.15359038	2.23149217	
UCK2	0.28810401	0.15364050	2.23124321	
ST3GAL5	-0.28808017	0.15367341	-2.23104182	
TMSB15A	-0.28804513	0.15372287	-2.23074594	
C14orf37	-0.28802474	0.15372287	-2.23057374	
ZNF295	0.28803192	0.15372287	2.23063437	
KPNA3	0.28797078	0.15384803	2.23011805	
ATP5B	0.28789399	0.15404325	2.22946966	
PHF1	-0.28783127	0.15419552	-2.22894001	
EPB41L3	-0.28778120	0.15430903	-2.22851732	
PKNOX2	-0.28770914	0.15449022	-2.22790887	
C16orf5	-0.28765709	0.15460999	-2.22746951	
HYPK	0.28762035	0.15468278	2.22715929	
PODXL	-0.28736960	0.15539507	-2.22504281	
UGDH	0.28736306	0.15539507	2.22498762	
SNRPA	0.28730523	0.15553329	2.22449954	
YWHAZ	0.28725792	0.15563907	2.22410033	
BICC1	-0.28710942	0.15605816	-2.22284726	
TSC22D2	-0.28702674	0.15627391	-2.22214964	
C1orf107	0.28698130	0.15637431	2.22176625	
CD200R1	0.28695062	0.15642892	2.22150745	
FBXO16	0.28686329	0.15663513	2.22077070	
TIGIT	-0.28685738	0.15663513	-2.22072085	
PGF	-0.28684499	0.15663513	-2.22061630	yes
AOF2	0.28675269	0.15680013	2.21983775	
C6orf173	0.28675512	0.15680013	2.21985825	
C10orf108	-0.28676639	0.15680013	-2.21995327	
LAMC1	-0.28673084	0.15682743	-2.21965347	

FBXO40	-0.28671342	0.15684098	-2.21950654	
ITPRIPL1	-0.28666831	0.15694068	-2.21912603	
CHI3L1	-0.28658572	0.15711645	-2.21842948	
TMEM211	0.28659795	0.15711645	2.21853261	
ASAH1	0.28655215	0.15713967	2.21814640	
BAT1	0.28656082	0.15713967	2.21821948	
CYP2R1	0.28649598	0.15727399	2.21767269	
IPO4	0.28644981	0.15737723	2.21728331	
PIH1D1	0.28637801	0.15743837	2.21667796	
PRMT6	0.28640487	0.15743837	2.21690439	
RAB1B	0.28637914	0.15743837	2.21668745	
TCHP	0.28638587	0.15743837	2.21674417	
CYP2F1	0.28615798	0.15767154	2.21482282	
DFFA	0.28614043	0.15767154	2.21467487	
ETFDH	0.28612095	0.15767154	2.21451071	
D4S234E	0.28626102	0.15767154	2.21569156	
HRH2	-0.28612490	0.15767154	-2.21454400	
DKFZp779M0652	-0.28620275	0.15767154	-2.21520027	
AMOTL2	-0.28619089	0.15767154	-2.21510026	
RNF121	0.28624602	0.15767154	2.21556510	
PRRG1	-0.28617787	0.15767154	-2.21499053	
ACTR3B	0.28615792	0.15767154	2.21482232	
SH3BP2	-0.28619364	0.15767154	-2.21512347	yes
ZNF174	0.28619752	0.15767154	2.21515620	
COASY	0.28618515	0.15767154	2.21505187	
PUM1	0.28628137	0.15767154	2.21586311	
CDRT1	0.28602841	0.15791987	2.21373064	
MED22	-0.28593121	0.15814241	-2.21291136	
CD72	-0.28593479	0.15814241	-2.21294154	
C20orf72	0.28591178	0.15816252	2.21274759	
OR8J1	-0.28587289	0.15824353	-2.21241977	
CNTROB	0.28582336	0.15832495	2.21200239	
MICAL1	-0.28582088	0.15832495	-2.21198146	

COG2	0.28574289	0.15852849	2.21132425	
RCTPI1	0.28570074	0.15861987	2.21096905	
EPS8	0.28560185	0.15885152	2.21013580	yes
PA2G4	0.28560090	0.15885152	2.21012780	
ZNF660	-0.28551583	0.15903704	-2.20941106	
OR10R2	-0.28551604	0.15903704	-2.20941283	
CHMP4B	0.28548873	0.15907870	2.20918273	
TMPRSS11B	0.28547661	0.15907870	2.20908056	
ACTN3	-0.28544978	0.15912220	-2.20885456	
ANGPTL3	-0.28542470	0.15916022	-2.20864328	
LMAN1	0.28534826	0.15935977	2.20799930	
HINT1	0.28528039	0.15953249	2.20742767	
CXCL9	-0.28513538	0.15994863	-2.20620623	
TMEM9B	0.28509118	0.16004716	2.20583398	
MDN1	0.28504511	0.16011067	2.20544601	
NAT6	-0.28504971	0.16011067	-2.20548475	
LSM4	0.28497503	0.16020911	2.20485584	
AOAH	-0.28498761	0.16020911	-2.20496181	
ZC3H12D	-0.28499771	0.16020911	-2.20504682	
PRUNE	0.28493731	0.16028731	2.20453823	
ADAT1	0.28491691	0.16031080	2.20436647	yes
ST8SIA4	0.28474399	0.16081691	2.20291050	
APLP2	0.28467850	0.16098338	2.20235914	
GOLIM4	-0.28462952	0.16108260	-2.20194687	
ZNF404	-0.28462129	0.16108260	-2.20187751	
GIPC1	0.28456755	0.16114888	2.20142518	
STAMBPL1	-0.28458693	0.16114888	-2.20158828	
S100A4	-0.28456152	0.16114888	-2.20137443	
ZAP70	-0.28440972	0.16158990	-2.20009669	
OPRK1	-0.28439024	0.16160971	-2.19993277	yes
SFMBT1	0.28437758	0.16160971	2.19982620	yes
TMEM195	-0.28434026	0.16164604	-2.19951209	
HIST1H2BK	0.28435156	0.16164604	2.19960720	

FOS	-0.28429613	0.16174523	-2.19914071	
MGC39372	-0.28427367	0.16177549	-2.19895174	
BRWD3	0.28422077	0.16182507	2.19850655	
CSDA	0.28421927	0.16182507	2.19849398	
IRS2	-0.28422120	0.16182507	-2.19851021	
TOE1	0.28420294	0.16183589	2.19835653	
FCGR2B	-0.28417898	0.16187100	-2.19815490	
LOC729756	-0.28414985	0.16192257	-2.19790978	
FAM69B	-0.28406052	0.16214525	-2.19715815	yes
GARNL4	-0.28405409	0.16214525	-2.19710402	
TDG	0.28403974	0.16214978	2.19698334	
ZBTB46	-0.28402131	0.16216733	-2.19682828	
ZNF549	-0.28400245	0.16218628	-2.19666957	
C20orf70	0.28398059	0.16221477	2.19648569	
CATSPER3	0.28395594	0.16225219	2.19627829	
BRPF3	0.28390302	0.16235818	2.19583310	
STX19	0.28389688	0.16235818	2.19578141	
VPS33A	0.28387150	0.16239794	2.19556798	
TIMM17B	0.28383852	0.16242083	2.19529050	
SPANXN1	-0.28383870	0.16242083	-2.19529203	
GTPBP4	0.28380137	0.16249822	2.19497796	
MYL12B	0.28377138	0.16251663	2.19472572	
DOCK4	-0.28376980	0.16251663	-2.19471243	
SNX7	0.28371422	0.16265290	2.19424494	
MBOAT1	0.28367849	0.16272583	2.19394445	
FCER2	-0.28362915	0.16284231	-2.19352942	
SGIP1	-0.28356584	0.16300351	-2.19299703	
AKTIP	-0.28348758	0.16321274	-2.19233885	
SKP2	0.28346104	0.16325645	2.19211566	yes
RAB37	0.28344583	0.16326388	2.19198778	
SNX24	0.28343112	0.16326973	2.19186406	yes
PNMA2	-0.28337254	0.16341611	-2.19137154	
SCARNA7	-0.28334674	0.16341906	-2.19115461	

VEPH1	-0.28334586	0.16341906	-2.19114720
SLC25A13	0.28330915	0.16349545	2.19083855
ALDH5A1	0.28328046	0.16354616	2.19059733
ETHE1	0.28316194	0.16388520	2.18960088
SIRPB1	-0.28309761	0.16405053	-2.18906007
MLX	0.28307785	0.16407266	2.18889399
NUDT5	0.28295651	0.16442163	2.18787406
ZNF142	0.28292178	0.16445059	2.18758212
DCLRE1A	0.28292457	0.16445059	2.18760557
FNDC3B	-0.28289337	0.16445920	-2.18734336
CDC45L	0.28289771	0.16445920	2.18737985
GLOD4	0.28279550	0.16473311	2.18652085
SAPS1	0.28268076	0.16506188	2.18555664
EPN3	0.28265270	0.16511097	2.18532083
SLC38A11	-0.28262556	0.16512822	-2.18509284
LY6G6E	0.28262163	0.16512822	2.18505980
SSRP1	0.28256535	0.16526854	2.18458692
ATMIN	0.28255236	0.16526896	2.18447778
KITLG	-0.28245875	0.16553017	-2.18369130
ALDH1A1	0.28244105	0.16554585	2.18354258
PPP1R2	-0.28241090	0.16560186	-2.18328925
MEX3C	-0.28239699	0.16560528	-2.18317242
AACS	0.28231281	0.16583634	2.18246524
EPHB4	-0.28221077	0.16608390	-2.18160815
ARHGAP28	-0.28221581	0.16608390	-2.18165052
CYP26A1	0.28218375	0.16612988	2.18138124
MYOCD	-0.28210429	0.16634618	-2.18071387
TSPAN33	-0.28207379	0.16636183	-2.18045769
OR5H15	-0.28208302	0.16636183	-2.18053518
LAMC2	0.28204048	0.16642833	2.18017798
PPP1R12B	-0.28198046	0.16658174	-2.17967388
ANKRD28	0.28191942	0.16665501	2.17916136
TJP1	0.28192152	0.16665501	2.17917893

CPNE3	0.28192176	0.16665501	2.17918095
FOXO1	-0.28186355	0.16671158	-2.17869222
ZCCHC17	0.28186736	0.16671158	2.17872420
C12orf65	-0.28186531	0.16671158	-2.17870697
CLOCK	0.28180945	0.16684591	2.17823796
C21orf45	0.28175939	0.16689354	2.17781768
EDA2R	-0.28175636	0.16689354	-2.17779223
SQSTM1	0.28176783	0.16689354	2.17788849
PSG3	-0.28171430	0.16698878	-2.17743910
ENOSF1	0.28160114	0.16731588	2.17648909
FOLR1	-0.28154611	0.16741997	-2.17602711
LOC340602	-0.28151799	0.16741997	-2.17579114
MXRA8	-0.28153697	0.16741997	-2.17595043
SMO	-0.28152399	0.16741997	-2.17584143
TIGD6	0.28144518	0.16761591	2.17517992
TESK2	-0.28141199	0.16768250	-2.17490135
PPIA	0.28134720	0.16785243	2.17435757
TWIST2	-0.28128419	0.16796965	-2.17382879
HTR1B	-0.28127296	0.16796965	-2.17373451
PCGF5	-0.28129391	0.16796965	-2.17391036
GATM	-0.28124812	0.16800905	-2.17352607
KIF22	0.28120675	0.16810258	2.17317887
CKS2	0.28114224	0.16827190	2.17263762
SLC7A13	-0.28106742	0.16847523	-2.17200974
PLEKHG2	-0.28104925	0.16849284	-2.17185734
RASSF7	0.28100793	0.16858643	2.17151063
OR5F1	-0.28095350	0.16872308	-2.17105397
SPO11	-0.28088366	0.16891044	-2.17046806
KCNAB2	-0.28084770	0.16898659	-2.17016641
RANGRF	-0.28081594	0.16904897	-2.16989995
BRE	0.28079945	0.16906116	2.16976161
NKAIN3	-0.28073488	0.16923149	-2.16921997
C20orf118	-0.28068525	0.16935275	-2.16880372

LOC100131720	-0.28067224	0.16935353	-2.16869456	
IBTK	0.28065495	0.16936837	2.16854958	
CFL1	0.28060268	0.16945446	2.16811116	
CXorf65	-0.28059682	0.16945446	-2.16806203	
KCNQ5	-0.28059049	0.16945446	-2.16800891	
LRRC15	-0.28052909	0.16957258	-2.16749401	
CTLA4	-0.28054120	0.16957258	-2.16759552	
SNORD116-18	-0.28040685	0.16993359	-2.16646887	
DCLK1	-0.28038874	0.16995120	-2.16631708	
C5orf15	0.28037360	0.16995905	2.16619011	
PAPLN	-0.28034290	0.17001827	-2.16593267	
DIO1	0.28031775	0.17005917	2.16572180	
SNORA66	-0.28021031	0.17037203	-2.16482095	
FOXP2	0.28017867	0.17043448	2.16455567	
RTKN2	0.28012385	0.17053142	2.16409614	
P53AIP1	0.28013499	0.17053142	2.16418950	
UTP14C	0.28003675	0.17077756	2.16336598	
P2RY14	-0.27998417	0.17090956	-2.16292516	
GABRB1	-0.27995615	0.17096015	-2.16269035	
DCTN5	0.27993205	0.17099779	2.16248833	
LOC100130356	-0.27984767	0.17123543	-2.16178112	
NME3	-0.27983265	0.17124299	-2.16165517	
C1orf58	0.27980486	0.17125061	2.16142233	yes
ABLIM1	0.27981181	0.17125061	2.16148054	
MSTN	-0.27970921	0.17148366	-2.16062067	
ZNF639	-0.27971404	0.17148366	-2.16066115	
ASNA1	0.27962754	0.17168811	2.15993630	
KREMEN1	0.27962223	0.17168811	2.15989182	
SNORD115-48	-0.27956487	0.17175182	-2.15941122	
NFAM1	-0.27957689	0.17175182	-2.15951187	
LCN6	-0.27956940	0.17175182	-2.15944913	yes
AP1B1	0.27945118	0.17208795	2.15845858	
LILRB3	-0.27933007	0.17240684	-2.15744397	

LRP6	-0.27933229	0.17240684	-2.15746258	
LOC100128840	-0.27929940	0.17246668	-2.15718710	
ABHD5	0.27914830	0.17292209	2.15592141	
DAGLA	0.27913763	0.17292209	2.15583202	
HLA-DQA2	-0.27910286	0.17295326	-2.15554078	
MTMR1	0.27911058	0.17295326	2.15560548	
TRAF7	0.27907165	0.17301511	2.15527936	
DPH3	0.27898776	0.17325333	2.15457677	
HGF	-0.27884341	0.17369462	-2.15336797	
IL1F8	-0.27878515	0.17383807	-2.15288017	
PHKG2	0.27876345	0.17383807	2.15269850	
SC4MOL	0.27875347	0.17383807	2.15261494	
FGD3	-0.27874979	0.17383807	-2.15258407	
TMEM30B	0.27871724	0.17390468	2.15231153	
GIT2	-0.27862658	0.17416663	-2.15155250	
PSMC5	0.27855847	0.17435295	2.15098239	
TRIM58	-0.27852568	0.17442055	-2.15070784	
RBP4	-0.27848775	0.17450546	-2.15039031	
CHCHD8	0.27847239	0.17451436	2.15026180	
LOXL2	-0.27842200	0.17464129	-2.14984002	
ARID2	0.27840819	0.17464501	2.14972441	yes
ABCD2	-0.27832866	0.17482744	-2.14905875	
NPPC	-0.27833065	0.17482744	-2.14907537	
GRK4	-0.27823455	0.17506092	-2.14827110	
WDR77	0.27823406	0.17506092	2.14826695	
DCTN3	0.27821175	0.17509336	2.14808026	
BAT2D1	0.27816253	0.17521007	2.14766839	
PRKCQ	-0.27815179	0.17521007	-2.14757851	
LOC730173	0.27812157	0.17526927	2.14732563	
IGHM	-0.27810341	0.17528775	-2.14717364	
PRR4	-0.27808593	0.17530393	-2.14702738	
C17orf60	-0.27806991	0.17531518	-2.14689335	
KEL	-0.27800026	0.17550773	-2.14631056	

C19orf53	0.27791741	0.17572881	2.14561731	
SRF	-0.27790955	0.17572881	-2.14555154	
SPNS2	-0.27786266	0.17575875	-2.14515930	yes
DGKH	0.27787016	0.17575875	2.14522200	
ISYNA1	-0.27788485	0.17575875	-2.14534494	
TBL2	0.27781893	0.17586390	2.14479342	
ICOS	-0.27780434	0.17587037	-2.14467140	
MYO3B	-0.27777942	0.17591188	-2.14446288	
ELF1	0.27773276	0.17602702	2.14407258	yes
SH3D19	0.27763036	0.17633130	2.14321600	
CNNM4	0.27754817	0.17654310	2.14252855	
ATP6V1B1	-0.27753717	0.17654310	-2.14243660	
LLPH	0.27752996	0.17654310	2.14237631	
GANC	0.27747028	0.17670285	2.14187715	
ROGDI	0.27745035	0.17672753	2.14171051	
COL6A6	-0.27740517	0.17683809	-2.14133265	
DIABLO	0.27731217	0.17711147	2.14055494	
PLEKHH2	-0.27726358	0.17714947	-2.14014864	
C1orf52	-0.27720906	0.17714947	-2.13969275	
DMD	-0.27721216	0.17714947	-2.13971871	
GABRG3	-0.27723849	0.17714947	-2.13993882	
IGKV4-1	-0.27723049	0.17714947	-2.13987193	
IGHA2	-0.27724076	0.17714947	-2.13995784	
IRF2	0.27726188	0.17714947	2.14013444	
SETDB1	0.27719979	0.17714947	2.13961526	
WDR70	0.27708607	0.17749383	2.13866448	
CHST11	-0.27700818	0.17771641	-2.13801329	
DKC1	0.27697790	0.17777660	2.13776019	
CLPTM1	0.27690148	0.17795123	2.13712142	
COMMD9	0.27691143	0.17795123	2.13720454	
ZNF532	-0.27684546	0.17809948	-2.13665316	
CEP250	0.27680375	0.17819888	2.13630453	
LOC729966	0.27670022	0.17850996	2.13543922	

UBR4	0.27668626	0.17851448	2.13532259	
ABCB11	0.27665230	0.17858754	2.13503873	
TMEM87A	0.27657361	0.17881395	2.13438112	
ABLIM2	-0.27654758	0.17885987	-2.13416364	
HBXIP	0.27652103	0.17890760	2.13394182	
LOC100132833	-0.27640380	0.17924547	-2.13296224	
DGUOK	0.27639735	0.17924547	2.13290837	
ZNF607	0.27638429	0.17924696	2.13279925	yes
AKAP8	0.27635696	0.17928201	2.13257089	
KATNB1	0.27628575	0.17928201	2.13197600	
STON1	-0.27631706	0.17928201	-2.13223753	
ZDHHHC15	-0.27629125	0.17928201	-2.13202192	
IL21R	-0.27633738	0.17928201	-2.13240729	
PDE1B	-0.27629900	0.17928201	-2.13208669	
UTP3	0.27633347	0.17928201	2.13237468	
DOPEY2	0.27626168	0.17932137	2.13177493	
CDK7	0.27622484	0.17940464	2.13146715	
SLC13A2	-0.27620203	0.17943972	-2.13127659	
MCAT	0.27618674	0.17944895	2.13114885	
PLAG1	-0.27610765	0.17967757	-2.13048822	
DLG1	0.27603207	0.17989435	2.12985691	
RSC1A1	0.27601767	0.17990056	2.12973662	
FBXO27	0.27600497	0.17990089	2.12963059	
TC2N	0.27596402	0.17995515	2.12928858	yes
KIF14	0.27597061	0.17995515	2.12934359	
TOR1AIP2	0.27594086	0.17996879	2.12909512	
DHRS7B	0.27592229	0.17996879	2.12894007	
KBTBD4	0.27593169	0.17996879	2.12901852	
POGK	0.27590013	0.18000178	2.12875497	
THBS1	-0.27579080	0.18033524	-2.12784197	
UBE3B	0.27574505	0.18040627	2.12745989	
IL1RL1	-0.27575172	0.18040627	-2.12751563	
IHH	-0.27573117	0.18041075	-2.12734402	

UBE2C	0.27570119	0.18047080	2.12709367	
TRO	-0.27563653	0.18065059	-2.12655383	
COL17A1	0.27556884	0.18084103	2.12598862	
SYAP1	0.27549656	0.18104748	2.12538522	
SSX3	-0.27543214	0.18122691	-2.12484743	
SNORD116-13	-0.27537751	0.18137258	-2.12439136	
FAF1	0.27534345	0.18144703	2.12410704	
IL16	-0.27532085	0.18148177	-2.12391843	
LOC644517	0.27526029	0.18164816	2.12341293	
TEP1	0.27521661	0.18175608	2.12304837	
OVCH2	-0.27513088	0.18192280	-2.12233284	
RORB	-0.27514233	0.18192280	-2.12242844	
SH3BP5L	0.27515280	0.18192280	2.12251584	
FAT2	0.27511442	0.18193632	2.12219550	
SNTB2	-0.27501452	0.18223977	-2.12136185	
ALDH1B1	-0.27497033	0.18234976	-2.12099308	
BTBD7	0.27494362	0.18239898	2.12077023	
ZBTB12	-0.27489143	0.18253692	-2.12033470	
GJA5	-0.27484188	0.18266572	-2.11992126	
DDX60L	-0.27481202	0.18272599	-2.11967214	
CHD6	0.27478745	0.18276784	2.11946718	
PFN2	0.27475271	0.18284516	2.11917732	
BHLHB9	-0.27471530	0.18293182	-2.11886521	
HTR2A	-0.27469926	0.18294398	-2.11873143	
FADS1	-0.27466588	0.18297287	-2.11845294	
GPATCH2	0.27467054	0.18297287	2.11849180	
LOXL1	-0.27457416	0.18324911	-2.11768782	
NLRP3	-0.27449168	0.18349339	-2.11699983	
C1orf54	-0.27446335	0.18354856	-2.11676355	
DNA2	0.27445029	0.18355036	2.11665462	
PACSIN2	0.27442445	0.18355303	2.11643909	
PDIK1L	0.27443535	0.18355303	2.11653001	yes
BHMT2	-0.27433587	0.18367648	-2.11570033	

WDR72	0.27436023	0.18367648	2.11590348	
LOC285908	0.27432648	0.18367648	2.11562202	
KIAA1772	-0.27436608	0.18367648	-2.11595230	
KIAA0652	0.27432855	0.18367648	2.11563929	
MON1B	0.27430791	0.18369762	2.11546714	
AASS	-0.27425298	0.18376192	-2.11500910	
RIMS1	0.27423944	0.18376192	2.11489618	
GNB3	-0.27426637	0.18376192	-2.11512080	
ATP6V0B	0.27424265	0.18376192	2.11492296	
CALCOCO2	-0.27416510	0.18395529	-2.11427631	
NDUFB8	0.27415914	0.18395529	2.11422657	
TPPP	0.27402568	0.18429122	2.11311385	
WBSCR22	0.27404779	0.18429122	2.11329818	
LYPLA2P1	0.27403081	0.18429122	2.11315659	
ATG4B	0.27394024	0.18450311	2.11240145	
SCARA3	-0.27394527	0.18450311	-2.11244345	
TMEM158	-0.27390390	0.18458671	-2.11209851	
MTA2	0.27381747	0.18484624	2.11137803	
ANO1	-0.27377762	0.18492751	-2.11104585	
TRERF1	0.27376933	0.18492751	2.11097675	
GDF11	-0.27375307	0.18494071	-2.11084122	yes
LOC100131507	-0.27373388	0.18496130	-2.11068124	
SEP9	0.27372222	0.18496130	2.11058406	
RNF144B	0.27366448	0.18512032	2.11010283	
INHA	-0.27359951	0.18522995	-2.10956134	
CEP55	0.27359774	0.18522995	2.10954661	
SLAMF7	-0.27359584	0.18522995	-2.10953071	
DNAJA3	0.27356903	0.18528030	2.10930733	
PGM2L1	0.27354733	0.18531274	2.10912644	yes
COQ7	0.27350830	0.18540615	2.10880119	
CHEK1	0.27338521	0.18574216	2.10777544	
MSH5	0.27337546	0.18574216	2.10769422	
EID3	0.27339536	0.18574216	2.10786002	

MTMR14	0.27332261	0.18588451	2.10725380	
SLC27A4	0.27328454	0.18588678	2.10693660	
MYL6	-0.27328520	0.18588678	-2.10694213	
ANKDD1B	0.27328797	0.18588678	2.10696525	
EAF1	0.27321401	0.18609159	2.10634899	
HMGNA4	-0.27313216	0.18629250	-2.10566714	
ACSL6	-0.27313275	0.18629250	-2.10567201	
C11orf36	0.27309708	0.18637239	2.10537488	
GPATCH3	0.27304493	0.18651263	2.10494047	
TMC5	0.27302901	0.18652488	2.10480778	
DONSON	0.27299313	0.18657487	2.10450893	
PCDHB2	-0.27298994	0.18657487	-2.10448239	
C20orf30	-0.27285922	0.18699341	-2.10339353	
CCDC127	0.27281615	0.18710183	2.10303487	
MXRA5	-0.27276618	0.18723479	-2.10261870	
LAX1	-0.27273095	0.18731556	-2.10232527	
UBE2Z	0.27269785	0.18734457	2.10204968	
SEC16B	-0.27270000	0.18734457	-2.10206752	
LOC100128252	-0.27266254	0.18738149	-2.10175561	
CLTA	0.27266565	0.18738149	2.10178148	
ALG2	0.27263437	0.18743727	2.10152101	
MUM1L1	0.27260844	0.18746218	2.10130507	
CADM1	-0.27260246	0.18746218	-2.10125527	
TCEAL6	-0.27255274	0.18759446	-2.10084131	
OR6W1P	-0.27250949	0.18770385	-2.10048119	
REPS1	0.27244489	0.18788918	2.09994331	
ZSCAN29	0.27243101	0.18789428	2.09982780	
BTBD1	0.27239908	0.18796356	2.09956196	yes
POU6F1	-0.27235550	0.18807431	-2.09919914	
PRKCH	-0.27231646	0.18814273	-2.09887412	
PDZD4	-0.27231140	0.18814273	-2.09883199	
IDH3G	0.27229598	0.18815336	2.09870361	
CLEC4D	-0.27225824	0.18824343	-2.09838943	

PFDN6	0.27222361	0.18825920	2.09810121	
ALDH1L2	-0.27219944	0.18825920	-2.09790000	
EXT2	-0.27219169	0.18825920	-2.09783550	
FOXL1	-0.27219351	0.18825920	-2.09785061	
ZNF259	0.27222546	0.18825920	2.09811657	
MYO5A	-0.27211261	0.18849655	-2.09717722	
POLB	0.27205544	0.18865599	2.09670141	
ISCA2	-0.27203528	0.18868361	-2.09653359	
DDC	0.27197620	0.18876147	2.09604194	
DLD	0.27199783	0.18876147	2.09622192	
CDC14B	0.27198305	0.18876147	2.09609893	
CST7	-0.27194573	0.18882587	-2.09578838	
SLC5A6	0.27193227	0.18882965	2.09567632	
NOP56	0.27186451	0.18898288	2.09511242	
SPDYE1	-0.27186723	0.18898288	-2.09513507	
CCDC92	-0.27170892	0.18949434	-2.09381778	
PIGS	0.27165422	0.18964562	2.09336269	
ATP13A1	0.27159217	0.18982332	2.09284646	
EP300	0.27154290	0.18986653	2.09243659	
RPL6	0.27155677	0.18986653	2.09255191	
SMARCD3	-0.27155048	0.18986653	-2.09249960	yes
GIN53	0.27152180	0.18987895	2.09226105	
TBCE	0.27151465	0.18987895	2.09220152	
ZNF846	0.27146380	0.18992225	2.09177852	
ZNF331	-0.27147558	0.18992225	-2.09187655	
CENPK	0.27145300	0.18992225	2.09168872	
HIST1H4F	0.27145351	0.18992225	2.09169293	
CD2AP	0.27139435	0.19008800	2.09120083	
RCAN1	-0.27125605	0.19053965	-2.09005047	
ILF3	0.27122024	0.19062374	2.08975269	
C4orf23	0.27119674	0.19066366	2.08955726	
ATM	-0.27116028	0.19071058	-2.08925402	
ODZ2	0.27115892	0.19071058	2.08924272	

NXT2	0.27111183	0.19079083	2.08885111	yes
RASL11B	-0.27111203	0.19079083	-2.08885278	
MPZ	-0.27108863	0.19082976	-2.08865815	
MUC15	0.27106848	0.19085772	2.08849057	yes
CRMP1	0.27102739	0.19096095	2.08814890	
DHCR24	0.27099283	0.19104075	2.08786153	
NIP30	0.27094587	0.19116519	2.08747108	
UNC5B	0.27085968	0.19143098	2.08675444	
THY1	-0.27083673	0.19146909	-2.08656366	yes
PAK1	0.27082322	0.19147322	2.08645135	
MYL4	-0.27079362	0.19153533	-2.08620525	
NOVA2	-0.27074326	0.19162774	-2.08578657	
ABCD3	0.27074796	0.19162774	2.08582565	
RPLP1P5	0.27072756	0.19163980	2.08565604	
XYLT1	-0.27057761	0.19213627	-2.08440960	
UBTF	0.27053304	0.19225267	2.08403909	
KARS	0.27043653	0.19255698	2.08323693	
NDUFV1	0.27038802	0.19264310	2.08283376	
TGFB1	-0.27039058	0.19264310	-2.08285510	
hCG_2004198	-0.27035003	0.19269115	-2.08251812	
FZD2	-0.27035443	0.19269115	-2.08255466	
RINL	-0.27027338	0.19292011	-2.08188111	
C9orf4	-0.27024539	0.19292011	-2.08164850	yes
GLUD1	0.27023742	0.19292011	2.08158228	
POU5F1	-0.27024401	0.19292011	-2.08163703	
LPP	-0.27017531	0.19296631	-2.08106617	
RIPK4	0.27018979	0.19296631	2.08118651	
ANKRD5	0.27020225	0.19296631	2.08129007	
INPP4B	0.27018419	0.19296631	2.08113994	yes
ART4	-0.27011713	0.19313245	-2.08058276	yes
EEA1	0.27010416	0.19313474	2.08047504	
HRASLS	0.27004499	0.19330462	2.07998338	
TSPAN2	-0.27000601	0.19334669	-2.07965952	

KRTAP19-4	-0.26999640	0.19334669	-2.07957974	
RPS15A	-0.27001828	0.19334669	-2.07976151	
ZNF441	-0.26995182	0.19341270	-2.07920938	
CCDC107	-0.26994124	0.19341270	-2.07912150	
C3orf33	-0.26996384	0.19341270	-2.07930917	
SPRY2	-0.26986223	0.19361007	-2.07846515	
GLI1	-0.26986991	0.19361007	-2.07852892	yes
C15orf51	-0.26983679	0.19361304	-2.07825376	
FBXO10	-0.26984768	0.19361304	-2.07834427	yes
ZNF467	0.26981519	0.19364678	2.07807433	
RPS4X	0.26978816	0.19370022	2.07784984	
OSBPL7	0.26967521	0.19375307	2.07691171	
ZNF280B	-0.26971943	0.19375307	-2.07727896	
RRP1B	0.26968225	0.19375307	2.07697014	
PURG	-0.26974719	0.19375307	-2.07750954	
FLVCR2	-0.26969564	0.19375307	-2.07708134	
DDA1	0.26968222	0.19375307	2.07696993	
KIAA0040	-0.26969483	0.19375307	-2.07707461	
ADAMTSL2	-0.26971040	0.19375307	-2.07720395	
ILF2	0.26964600	0.19381453	2.07666910	
DLX2	-0.26953355	0.19409214	-2.07573518	yes
C4orf34	0.26950247	0.19409214	2.07547711	
MIPEP	0.26951708	0.19409214	2.07559844	
KLHL14	-0.26953738	0.19409214	-2.07576699	
STXBP1	-0.26951173	0.19409214	-2.07555395	
TADA2L	0.26949591	0.19409214	2.07542264	
DBNDD2	-0.26943451	0.19427083	-2.07491272	
LOC100131120	-0.26940128	0.19434705	-2.07463683	
C14orf21	0.26938792	0.19435102	2.07452587	
TOM1	0.26931969	0.19446537	2.07395935	
CLCN3	0.26932714	0.19446537	2.07402118	
POU3F3	-0.26932446	0.19446537	-2.07399896	
SAR1B	0.26916139	0.19499762	2.07264505	

BPNT1	0.26914563	0.19501032	2.07251428	
SNORD116-1	-0.26909741	0.19514153	-2.07211397	
PADI2	-0.26906861	0.19520190	-2.07187488	
C4orf26	-0.26904518	0.19524266	-2.07168040	
CLEC5A	-0.26902821	0.19525987	-2.07153948	
CXCL10	-0.26900862	0.19528661	-2.07137690	
ECHS1	0.26897299	0.19532912	2.07108117	
ZIK1	-0.26897247	0.19532912	-2.07107679	
MMP9	-0.26891487	0.19549479	-2.07059870	
LOC100133422	0.26888576	0.19555640	2.07035708	yes
SERPINE2	-0.26883572	0.19569457	-2.06994177	
FLJ44606	0.26880545	0.19572228	2.06969061	
BPHL	0.26880364	0.19572228	2.06967555	
TGM5	0.26864282	0.19626633	2.06834096	
CNPY3	0.26862944	0.19627046	2.06822995	
FAM134C	0.26854400	0.19648871	2.06752098	
CHRNA9	-0.26855352	0.19648871	-2.06760000	
BCORL1	-0.26853318	0.19648871	-2.06743123	
COL4A3BP	0.26848933	0.19652237	2.06706736	
CXADR	0.26845407	0.19652237	2.06677485	
ZNF438	-0.26847381	0.19652237	-2.06693858	
GJC3	-0.26845611	0.19652237	-2.06679180	
POLD4	0.26849193	0.19652237	2.06708892	
FHDC1	0.26845057	0.19652237	2.06674578	
ZSWIM6	0.26840827	0.19663268	2.06639487	
GC	-0.26834452	0.19676671	-2.06586597	
C2orf82	-0.26834637	0.19676671	-2.06588131	
EIF3D	0.26833507	0.19676671	2.06578757	
RAB5B	0.26831284	0.19680343	2.06560320	
UTS2D	-0.26827659	0.19689170	-2.06530242	
NSUN4	0.26823686	0.19699274	2.06497288	
AMMECR1L	0.26822110	0.19700576	2.06484211	
C9orf95	0.26818219	0.19710385	2.06451938	

RPL37A	0.26815443	0.19716097	2.06428915	
OR8G2	-0.26806011	0.19741808	-2.06350680	
JUNB	-0.26806012	0.19741808	-2.06350694	
NR4A1	-0.26803655	0.19745981	-2.06331145	
CD27	-0.26801690	0.19748719	-2.06314846	
C14orf101	0.26798421	0.19756260	2.06287733	
LOC339483	-0.26793113	0.19771312	-2.06243717	
RBM34	0.26785543	0.19794715	2.06180940	
NUP93	0.26782520	0.19801362	2.06155870	
NET1	0.26771698	0.19831605	2.06066133	
WDR73	0.26770664	0.19831605	2.06057559	
THRAP3	0.26772910	0.19831605	2.06076187	yes
SNORD115-23	-0.26768459	0.19832979	-2.06039281	
DHDH	-0.26767851	0.19832979	-2.06034239	
PARP3	0.26758011	0.19863106	2.05952657	
PCDH21	0.26757257	0.19863106	2.05946410	
SPATA3	-0.26754225	0.19869807	-2.05921272	
PDIA4	0.26746277	0.19894700	2.05855382	
SNORD42A	0.26736926	0.19924815	2.05777871	
NAT13	0.26726172	0.19960175	2.05688732	
TMEM99	0.26724739	0.19960962	2.05676861	
SHANK1	-0.26717333	0.19983934	-2.05615474	
DIP2C	-0.26708427	0.20012500	-2.05541669	
SIRT7	0.26689546	0.20078261	2.05385222	
GRINL1A	-0.26686486	0.20085121	-2.05359869	
ESM1	-0.26679648	0.20106080	-2.05303216	
RLTPR	-0.26675139	0.20118358	-2.05265861	
USP30	0.26671865	0.20126031	2.05238732	
CDC2	0.26668671	0.20133403	2.05212278	
HDHD1A	0.26660141	0.20160731	2.05141615	
ROPN1	-0.26653446	0.20176653	-2.05086154	
ZNF674	0.26654596	0.20176653	2.05095685	
HPGD	0.26651864	0.20178008	2.05073055	

C8orf41	0.26646954	0.20191822	2.05032387	
YARS2	0.26644781	0.20195395	2.05014386	
DHCR7	0.26639403	0.20205552	2.04969847	
LYPD5	-0.26638412	0.20205552	-2.04961638	
UMPS	0.26638779	0.20205552	2.04964676	
SP110	-0.26634311	0.20216350	-2.04927677	
KIAA0406	0.26631898	0.20220825	2.04907696	
C11orf67	-0.26625700	0.20239495	-2.04856369	
UNC93B1	0.26622542	0.20246771	2.04830215	
PRKAG2	-0.26620316	0.20250552	-2.04811785	
ACBD3	0.26612705	0.20274548	2.04748763	
UQCRC1	0.26601507	0.20312058	2.04656040	
TMEM182	0.26595308	0.20323464	2.04604723	
PTGS2	-0.26594820	0.20323464	-2.04600684	
HDAC3	0.26595963	0.20323464	2.04610142	
ATL1	-0.26592541	0.20327459	-2.04581814	
C8orf82	-0.26590905	0.20329031	-2.04568275	yes
HISPPD2A	0.26588849	0.20332191	2.04551247	
TDRD9	-0.26577687	0.20369020	-2.04458854	
SIGLECP3	-0.26576634	0.20369020	-2.04450136	
BCL2L14	0.26572922	0.20378424	2.04419410	
NLRP1	-0.26570550	0.20382778	-2.04399778	
SLC28A3	-0.26568755	0.20384959	-2.04384920	
CDC123	0.26564711	0.20395622	2.04351446	
PDPK1	0.26562631	0.20398880	2.04334230	
DIRC2	0.26545618	0.20458535	2.04193436	
FAM83G	0.26537939	0.20482982	2.04129889	
EIF4A3	0.26528847	0.20512801	2.04054662	
PGBD3	0.26527250	0.20513991	2.04041444	
NCOA3	0.26526100	0.20513991	2.04031930	
UBQLN2	0.26520660	0.20529999	2.03986920	
CRYZ	-0.26513874	0.20537711	-2.03930782	
SCGB2A1	0.26508901	0.20537711	2.03889639	

MYH10	-0.26516058	0.20537711	-2.03948845
DDX47	0.26509110	0.20537711	2.03891368
STAT4	-0.26512745	0.20537711	-2.03921437
PPFIA4	-0.26515481	0.20537711	-2.03944075
SLC45A3	0.26509088	0.20537711	2.03891184
C11orf52	0.26510210	0.20537711	2.03900470
IFI44	-0.26496248	0.20581112	-2.03784966
BAZ2A	0.26489342	0.20602730	2.03727847
LGTN	0.26487745	0.20604181	2.03714640
TMBIM1	0.26483310	0.20616426	2.03677952
FER	-0.26477516	0.20633844	-2.03630031
MAP4	-0.26474422	0.20640994	-2.03604445
WDR51A	0.26470998	0.20649403	2.03576132
PSMA4	0.26466654	0.20656698	2.03540205
TRPC3	-0.26467510	0.20656698	-2.03547283
COPG2	0.26463351	0.20664655	2.03512887
FLJ42177	0.26462017	0.20665110	2.03501861
LOC285453	0.26447044	0.20708304	2.03378052
SBDS	-0.26447377	0.20708304	-2.03380805
LOC646316	0.26449175	0.20708304	2.03395672
GPER	-0.26444242	0.20709739	-2.03354881
TAX1BP3	0.26444947	0.20709739	2.03360709
ZNF575	-0.26442467	0.20711885	-2.03340202
ZNF703	-0.26440006	0.20716647	-2.03319855
CUGBP1	0.26437821	0.20720357	2.03301790
WWC3	-0.26430707	0.20742883	-2.03242979
SNRNP35	0.26428414	0.20747010	2.03224024
FLJ36031	-0.26426878	0.20748247	-2.03211324
TMEM132B	0.26416227	0.20779687	2.03123279
ARHGAP24	-0.26417066	0.20779687	-2.03130211
GREM2	-0.26407781	0.20807362	-2.03053466
LTB4R	0.26404797	0.20808401	2.03028801
CASKIN2	-0.26404193	0.20808401	-2.03023810

FGF18	-0.26403875	0.20808401	-2.03021179	
CNTFR	-0.26400405	0.20817047	-2.02992500	
PCDHA2	-0.26397024	0.20825356	-2.02964554	
ESD	-0.26390182	0.20845210	-2.02908006	
GLRA3	-0.26389420	0.20845210	-2.02901708	
HGD	0.26386924	0.20850133	2.02881087	
LOC645195	-0.26382746	0.20861511	-2.02846556	
CLIC6	0.26380753	0.20864512	2.02830084	
RILPL2	-0.26374630	0.20883357	-2.02779489	
C9orf123	0.26370728	0.20893689	2.02747244	
IER5	-0.26368791	0.20896477	-2.02731244	
IGHV1-18	-0.26355080	0.20944515	-2.02617955	
SLFN11	-0.26351032	0.20955430	-2.02584516	
PCDHGB3	-0.26347540	0.20964214	-2.02555661	
C21orf58	0.26343737	0.20974193	2.02524248	
C22orf39	-0.26334547	0.21004936	-2.02448330	
HAVCR2	-0.26331556	0.21011800	-2.02423626	
SCARF2	-0.26328949	0.21017190	-2.02402087	
GCA	-0.26324896	0.21028154	-2.02368614	
RER1	0.26323130	0.21030299	2.02354029	
STAT5A	-0.26321813	0.21030717	-2.02343146	
UQCRC2	0.26318459	0.21038991	2.02315446	
TMEFF1	-0.26316113	0.21043377	-2.02296073	
CHSY1	-0.26303652	0.21082164	-2.02193162	
PLTP	-0.26304082	0.21082164	-2.02196713	
MAN1C1	-0.26299410	0.21093892	-2.02158124	
CLK3	0.26297727	0.21095722	2.02144232	
GSK3B	0.26294948	0.21101796	2.02121282	yes
SPATA13	0.26291482	0.21110527	2.02092663	
GPC1	0.26286535	0.21117187	2.02051814	
SMAD9	-0.26286136	0.21117187	-2.02048522	
UAP1L1	-0.26288364	0.21117187	-2.02066916	yes
C11orf30	0.26284158	0.21120168	2.02032188	yes

CTRL	-0.26280877	0.21128192	-2.02005096	
N-PAC	0.26278576	0.21132424	2.01986100	
MGAT5	0.26271224	0.21156222	2.01925393	
ZNF417	-0.26268438	0.21162336	-2.01902399	
KIAA0195	0.26264730	0.21172030	2.01871784	
TBCEL	-0.26263068	0.21173795	-2.01858060	
FUT4	-0.26253014	0.21203425	-2.01775068	
PRRG3	-0.26253289	0.21203425	-2.01777337	
UBD	-0.26245359	0.21228458	-2.01711881	
GBP1	-0.26240261	0.21242435	-2.01669802	
C12orf42	-0.26239348	0.21242435	-2.01662268	
DNLZ	-0.26236887	0.21242626	-2.01641948	
RAB11A	0.26237291	0.21242626	2.01645288	yes
LOC400713	-0.26231046	0.21260639	-2.01593745	
PSMD14	0.26228607	0.21260747	2.01573612	
MASP1	-0.26229544	0.21260747	-2.01581345	
C21orf87	-0.26222988	0.21277909	-2.01527244	
TMEM200B	-0.26220447	0.21283107	-2.01506269	
PPARA	0.26217621	0.21289410	2.01482955	
EMR4P	-0.26212561	0.21304416	-2.01441198	
HECTD2	-0.26205060	0.21328940	-2.01379303	
SNORD115-8	-0.26198625	0.21341929	-2.01326205	
IL17RE	0.26198039	0.21341929	2.01321370	
PVRL1	0.26196908	0.21341929	2.01312040	
WNT5A	0.26198727	0.21341929	2.01327045	
SLC35D2	0.26188520	0.21369948	2.01242835	
SCARF1	-0.26186752	0.21372148	-2.01228246	
HCST	-0.26183414	0.21375776	-2.01200708	
HELB	-0.26184123	0.21375776	-2.01206557	
NBL1	-0.26180178	0.21379009	-2.01174013	
C10orf68	-0.26181021	0.21379009	-2.01180963	
HSD3B2	-0.26177704	0.21383970	-2.01153600	
HSPB3	-0.26173920	0.21394045	-2.01122385	

SMARCD1	0.26168004	0.21411723	2.01073581	
CDC6	0.26166988	0.21411723	2.01065203	
PPIF	0.26160663	0.21431741	2.01013036	
NDST3	-0.26156579	0.21443011	-2.00979344	
KCNV2	-0.26154507	0.21446407	-2.00962261	
RAD51AP1	0.26152580	0.21449243	2.00946362	
RAB11FIP5	-0.26148694	0.21459743	-2.00914314	
FAM176B	-0.26143966	0.21473545	-2.00875319	
COPG	0.26140669	0.21475770	2.00848128	
CIITA	-0.26140173	0.21475770	-2.00844036	
ACAD10	0.26139158	0.21475770	2.00835667	
BAT2L	0.26138590	0.21475770	2.00830981	
SNORD115-32	-0.26122747	0.21533151	-2.00700344	
TDRD5	-0.26116182	0.21549485	-2.00646209	
C7orf46	0.26116415	0.21549485	2.00648133	
SLC39A10	-0.26113573	0.21553466	-2.00624701	
HIST1H3F	0.26112765	0.21553466	2.00618034	
PRKDC	0.26108255	0.21566459	2.00580851	
PLEKHA6	0.26104383	0.21574186	2.00548930	
ACADVL	0.26103886	0.21574186	2.00544828	
FOXN2	-0.26099001	0.21583943	-2.00504559	
KIAA0753	0.26099872	0.21583943	2.00511737	
SERTAD2	0.26096013	0.21590966	2.00479929	
C15orf58	0.26091616	0.21595986	2.00443677	
TNRC6C	-0.26088890	0.21595986	-2.00421206	
RAB40C	0.26088231	0.21595986	2.00415776	
WAS	-0.26088010	0.21595986	-2.00413954	
ACBD6	0.26090440	0.21595986	2.00433982	
PIGO	0.26086339	0.21595986	2.00400176	
MSC	-0.26086776	0.21595986	-2.00403780	
RNF186	0.26078521	0.21622009	2.00335739	
ZNF202	0.26073462	0.21637200	2.00294038	
FSTL3	-0.26069378	0.21648559	-2.00260374	yes

DAPK2	-0.26064874	0.21661574	-2.00223258	
HK3	-0.26060385	0.21674540	-2.00186258	
MRPL34	-0.26057179	0.21682451	-2.00159839	
PSMD7	0.26054825	0.21687008	2.00140435	
CCL13	-0.26048028	0.21709090	-2.00084424	
TYRO3	0.26045629	0.21713825	2.00064660	
ROBO3	-0.26043752	0.21716505	-2.00049191	
CLSTN1	0.26041852	0.21719276	2.00033535	
MARCH5	0.26035641	0.21739069	1.99982355	
RIMBP2	0.26032337	0.21742656	1.99955136	
SCHIP1	-0.26032750	0.21742656	-1.99958538	
COX7A2	0.26022450	0.21772262	1.99873678	
AGXT2L1	-0.26023554	0.21772262	-1.99882770	
CCR4	-0.26016975	0.21789181	-1.99828570	
LOC100131054	-0.26008640	0.21814185	-1.99759908	
ARRB2	-0.26008263	0.21814185	-1.99756801	
DHX16	0.26006580	0.21816110	1.99742935	
GNB1L	-0.26004418	0.21819930	-1.99725129	
ZNF3	0.26003165	0.21820157	1.99714799	
NALCN	-0.26001080	0.21823675	-1.99697626	
RP11-35N6.1	-0.25998155	0.21830118	-1.99673531	
SERAC1	0.25997060	0.21830118	1.99664518	
IL12RB1	-0.25986695	0.21866461	-1.99579142	
CASQ1	-0.25984361	0.21868181	-1.99559921	
ZNF561	0.25983869	0.21868181	1.99555868	yes
FAM53C	-0.25982235	0.21869921	-1.99542408	
AK2	0.25979931	0.21874316	1.99523435	
PSMB6	0.25976650	0.21882589	1.99496416	
KCTD11	0.25975323	0.21883114	1.99485483	
VAT1	-0.25969420	0.21892313	-1.99436874	
PGLYRP3	0.25969835	0.21892313	1.99440287	
TLL11	-0.25970191	0.21892313	-1.99443224	
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CD3E	-0.25965218	0.21899510	-1.99402269	
ANK2	-0.25961360	0.21905343	-1.99370502	
CEACAM1	0.25961565	0.21905343	1.99372184	
ARID5A	-0.25954424	0.21928147	-1.99313390	
USP27X	-0.25949196	0.21933544	-1.99270340	
SNORD114-26	-0.25950829	0.21933544	-1.99283784	
TCEAL8	-0.25948870	0.21933544	-1.99267654	
ANKRD30A	-0.25948292	0.21933544	-1.99262899	
HSPA4L	0.25942009	0.21944291	1.99211167	yes
RPS6KA3	0.25943202	0.21944291	1.99220987	
FLJ41484	-0.25942521	0.21944291	-1.99215386	
CSNK2B	0.25931263	0.21977538	1.99122700	
BMP3	0.25931627	0.21977538	1.99125690	
NP	0.25927211	0.21984656	1.99089338	
GSTCD	0.25927090	0.21984656	1.99088342	
GOLGA3	0.25925419	0.21986560	1.99074591	
PHF8	0.25922594	0.21988318	1.99051333	
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FAM65C	-0.25911873	0.22013702	-1.98963084	
NME4	-0.25914659	0.22013702	-1.98986014	yes
C6orf203	0.25911308	0.22013702	1.98958433	
GALNT10	-0.25910262	0.22013702	-1.98949823	
TRPV1	0.25910647	0.22013702	1.98952990	
PLXNB2	0.25907224	0.22021059	1.98924820	
MT1M	-0.25900289	0.22035854	-1.98867738	
LSR	0.25900917	0.22035854	1.98872907	
DDX43	-0.25899420	0.22035854	-1.98860586	
PSMD4	0.25898750	0.22035854	1.98855071	
PRSS35	-0.25894647	0.22040321	-1.98821302	
FAM171A1	-0.25894060	0.22040321	-1.98816473	
FAM169A	0.25895343	0.22040321	1.98827032	
MAGEB3	-0.25892627	0.22041292	-1.98804679	
RIPK3	0.25889127	0.22048051	1.98775878	

IVL	0.25888553	0.22048051	1.98771153	
CBFB	0.25876729	0.22090476	1.98673847	yes
ZNF473	0.25873914	0.22092341	1.98650690	
OR1F2P	0.25871507	0.22092341	1.98630880	
SCN2B	-0.25872534	0.22092341	-1.98639331	
NPL	0.25873228	0.22092341	1.98645040	
CSNK2A1	0.25868636	0.22099058	1.98607258	yes
HIC1	-0.25864823	0.22109351	-1.98575883	
RSBN1	-0.25863680	0.22109351	-1.98566483	
CARS	0.25862495	0.22109351	1.98556727	
RELN	-0.25860714	0.22111718	-1.98542080	
PIP	-0.25857739	0.22114117	-1.98517604	
AGPS	0.25857894	0.22114117	1.98518875	
SH3PXD2B	0.25850980	0.22130832	1.98461991	
PFKP	0.25849995	0.22130832	1.98453887	
SLC39A9	0.25851184	0.22130832	1.98463670	
BSG	0.25844347	0.22143918	1.98407429	
RPL7P26	0.25844503	0.22143918	1.98408710	
KCNC3	-0.25837312	0.22167309	-1.98349551	
PPBPL2	0.25824792	0.22205400	1.98246569	
FAM129A	-0.25825587	0.22205400	-1.98253111	
ZNF587	0.25824238	0.22205400	1.98242010	
ACBD5	0.25821870	0.22210133	1.98222539	
SGCZ	-0.25820290	0.22211712	-1.98209544	
GIN54	0.25816594	0.22221772	1.98179142	
FLT3	-0.25803526	0.22264700	-1.98071672	
PMM1	0.25803519	0.22264700	1.98071610	
TMEM138	0.25792691	0.22299444	1.97982570	
SLC4A10	-0.25792496	0.22299444	-1.97980968	
UNQ1944	0.25788476	0.22310838	1.97947908	
VAMP5	-0.25786744	0.22313033	-1.97933670	
TOR1B	0.25777167	0.22346788	1.97854925	
IPMK	0.25775972	0.22346829	1.97845095	yes

CLTB	0.25773492	0.22348657	1.97824708	
SAFB	0.25773147	0.22348657	1.97821875	
MYO9A	-0.25763490	0.22382773	-1.97742483	
KLHDC8B	-0.25761766	0.22384946	-1.97728309	
FOXO3	-0.25757251	0.22398371	-1.97691188	
UBAC1	0.25753449	0.22405946	1.97659936	
ABCD1	-0.25753003	0.22405946	-1.97656268	
UBL5	-0.25746122	0.22428925	-1.97599704	
LOC392288	-0.25740727	0.22445921	-1.97555359	
LOC100132686	0.25731189	0.22474883	1.97476965	
TSPAN16	-0.25731496	0.22474883	-1.97479488	
SAP130	0.25729339	0.22477572	1.97461764	
STK36	0.25726753	0.22478454	1.97440512	
MT1H	-0.25727060	0.22478454	-1.97443031	
BCL10	0.25723274	0.22482951	1.97411917	
LRAT	0.25724327	0.22482951	1.97420573	
A1BG	-0.25721057	0.22484986	-1.97393703	yes
RAB6B	-0.25720404	0.22484986	-1.97388333	
ENO1	0.25713133	0.22504819	1.97328583	
TAF15	0.25713533	0.22504819	1.97331865	
IRS1	-0.25708657	0.22514988	-1.97291799	
FAM115A	-0.25708254	0.22514988	-1.97288490	yes
DEFB127	-0.25706162	0.22518668	-1.97271302	
HSPA4	0.25704513	0.22520558	1.97257750	
LPO	-0.25701707	0.22527130	-1.97234693	
CD1D	-0.25694464	0.22551670	-1.97175177	
FAM104A	0.25690094	0.22564586	1.97139272	
WIF1	-0.25674576	0.22620506	-1.97011784	
PPP1R7	0.25673806	0.22620506	1.97005463	
SEC13	0.25672761	0.22620506	1.96996876	
LOC441506	0.25665756	0.22639354	1.96939335	
EP400	0.25666070	0.22639354	1.96941912	
CBFA2T3	-0.25661498	0.22647054	-1.96904358	

XPR1	0.25661893	0.22647054	1.96907603
ZNF776	0.25655239	0.22667689	1.96852952
FGF13	0.25653566	0.22669692	1.96839205
ZNF25	-0.25652343	0.22669863	-1.96829161
ELAC2	0.25649630	0.22671292	1.96806880
NARG1	0.25650753	0.22671292	1.96816104
UNC84A	0.25642667	0.22694812	1.96749691
KRT26	-0.25638413	0.22707320	-1.96714756
MST1	0.25637017	0.22708196	1.96703294
TUBB2C	0.25633527	0.22716682	1.96674631
SNCG	-0.25632573	0.22716682	-1.96666795
LOC100133373	0.25624346	0.22742592	1.96599234
FEN1	0.25623852	0.22742592	1.96595181
SLC16A3	0.25622171	0.22744634	1.96581379
GNL3L	0.25612388	0.22779714	1.96501050
FFAR2	-0.25607331	0.22790724	-1.96459529
SMPD2	0.25607658	0.22790724	1.96462209
UGT1A9	0.25605535	0.22793243	1.96444779
FUT9	-0.25586629	0.22812711	-1.96289570
IL1RAPL1	-0.25596450	0.22812711	-1.96370191
PARP1	0.25592630	0.22812711	1.96338836
NCRNA00085	-0.25589590	0.22812711	-1.96313879
INCENP	0.25584274	0.22812711	1.96270242
OR2A25	-0.25584670	0.22812711	-1.96273487
C13orf36	-0.25589341	0.22812711	-1.96311836
FAM174B	0.25584893	0.22812711	1.96275324
XKRX	0.25595620	0.22812711	1.96363382
USP40	0.25593138	0.22812711	1.96343008
RBM41	0.25585617	0.22812711	1.96281262
hCG_1659830	-0.25587443	0.22812711	-1.96296249
IL27RA	-0.25594965	0.22812711	-1.96358000
BZW1	0.25597603	0.22812711	1.96379664
TIAM2	-0.25582479	0.22815237	-1.96255504

ZNF667	-0.25575460	0.22839099	-1.96197885	
CD300LF	-0.25571089	0.22847344	-1.96162013	
STIM1	0.25571833	0.22847344	1.96168118	
CLCN4	-0.25569072	0.22850780	-1.96145458	
SCARB1	-0.25564544	0.22864483	-1.96108291	
LOC100132728	0.25562382	0.22868517	1.96090544	
HTR1F	-0.25555683	0.22891110	-1.96035564	
TYW1B	-0.25551899	0.22901784	-1.96004512	
UBN1	0.25543163	0.22932746	1.95932824	
CRCP	0.25539627	0.22937603	1.95903804	
C5orf46	-0.25540063	0.22937603	-1.95907386	
DNASE1L3	0.25535260	0.22950686	1.95867969	
TBC1D9B	0.25529665	0.22959170	1.95822065	
MAPK11	-0.25530427	0.22959170	-1.95828317	yes
C2orf7	-0.25530365	0.22959170	-1.95827807	
YEATS2	0.25515634	0.23011934	1.95706947	
RP11-218C14.6	-0.25514264	0.23012738	-1.95695702	
ENOPH1	0.25492889	0.23095839	1.95520352	
USP41	0.25488064	0.23110876	1.95480777	
SNORA14A	-0.25486381	0.23112969	-1.95466973	
OR2M3	-0.25462896	0.23179073	-1.95274361	
SGSM3	0.25459787	0.23179073	1.95248869	
MID1	0.25463662	0.23179073	1.95280647	
LIMA1	0.25466488	0.23179073	1.95303817	
UBASH3A	-0.25461171	0.23179073	-1.95260219	
ZNF280C	0.25465467	0.23179073	1.95295448	
SLC20A1	0.25460685	0.23179073	1.95256232	
ZSCAN16	0.25462376	0.23179073	1.95270102	
DMKN	0.25462460	0.23179073	1.95270788	
ATG12	-0.25457703	0.23182832	-1.95231777	
SIRT5	0.25454852	0.23189760	1.95208398	
SF4	0.25452497	0.23189793	1.95189084	
ATP6V0D1	0.25453479	0.23189793	1.95197142	

KLHL2	0.25447255	0.23201753	1.95146106	
CLU	-0.25447881	0.23201753	-1.95151241	
HOXB7	-0.25444116	0.23207983	-1.95120362	
PTPRCAP	-0.25443402	0.23207983	-1.95114511	
SRRM2	0.25441199	0.23209511	1.95096452	
ERGIC3	0.25440687	0.23209511	1.95092250	
HTR4	-0.25437124	0.23219390	-1.95063040	
RNU12	-0.25434500	0.23225394	-1.95041522	
CDC25B	-0.25433188	0.23225973	-1.95030766	
C6orf57	0.25424388	0.23257529	1.94958619	
CENPC1	-0.25421604	0.23264202	-1.94935796	
NOTUM	-0.25419193	0.23269331	-1.94916031	
C16orf65	-0.25414146	0.23285380	-1.94874660	
ACLY	0.25403515	0.23319729	1.94787519	
CTA-216E10.6	0.25404068	0.23319729	1.94792048	
NDFIP2	0.25401100	0.23324886	1.94767724	
RMRP	-0.25395876	0.23341699	-1.94724907	
KIAA0090	0.25391258	0.23351145	1.94687053	
C10orf2	0.25391506	0.23351145	1.94689088	
NPVF	-0.25385879	0.23368615	-1.94642971	
C20orf199	0.25383798	0.23369243	1.94625917	
TSG101	0.25383386	0.23369243	1.94622537	
NEK3	-0.25380608	0.23375918	-1.94599774	
CXCL13	-0.25377421	0.23384294	-1.94573657	
DTL	0.25375694	0.23386606	1.94559505	
ZNF100	0.25373586	0.23387219	1.94542230	
C13orf15	-0.25373207	0.23387219	-1.94539118	
NNT	0.25366664	0.23399824	1.94485505	
TP53INP2	0.25367741	0.23399824	1.94494331	
SLC30A2	-0.25368643	0.23399824	-1.94501721	
ACHE	-0.25365322	0.23400540	-1.94474511	yes
TMEM191A	-0.25362571	0.23407116	-1.94451965	
FLJ45422	-0.25344051	0.23479328	-1.94300228	

CPT1A	0.25336884	0.23488581	1.94241511
SUSD3	-0.25338801	0.23488581	-1.94257216
FNDC3A	-0.25338219	0.23488581	-1.94252445
HMGXB3	0.25335985	0.23488581	1.94234144
C1orf95	-0.25339834	0.23488581	-1.94265674
TFAP2A	0.25332101	0.23499898	1.94202327
ERAL1	0.25328145	0.23511522	1.94169918
CEP152	0.25322659	0.23529533	1.94124981
LYSMD2	-0.25321293	0.23530357	-1.94113792
HLX	-0.25314337	0.23554518	-1.94056815
DSCR3	0.25297926	0.23579211	1.93922408
OR5I1	-0.25306622	0.23579211	-1.93993625
CHD5	-0.25296750	0.23579211	-1.93912773
DTWD2	0.25302052	0.23579211	1.93956200
SPDYE5	0.25298863	0.23579211	1.93930084
RIC8B	-0.25301141	0.23579211	-1.93948735
LOC729135	-0.25304240	0.23579211	-1.93974116
KIAA1881	-0.25300763	0.23579211	-1.93945639
TMEM88	-0.25302576	0.23579211	-1.93960492
CD8B	-0.25297277	0.23579211	-1.93917094
ARHGAP20	-0.25285258	0.23612619	-1.93818667
PTBP2	-0.25286000	0.23612619	-1.93824742
SNRPD3	0.25287163	0.23612619	1.93834262
ATP6V1C2	0.25278569	0.23629039	1.93763891
LRP10	0.25278831	0.23629039	1.93766040
VTN	-0.25277834	0.23629039	-1.93757875
C6orf10	-0.25274740	0.23637108	-1.93732540
NCAPH	0.25270126	0.23651544	1.93694758
LCK	-0.25266959	0.23655044	-1.93668826
RPL36AP46	0.25268123	0.23655044	1.93678356
ZNF500	-0.25261297	0.23673878	-1.93622468
ATP11B	0.25250233	0.23714184	1.93531892
PGBD2	0.25249352	0.23714184	1.93524680

ERICH1	-0.25244956	0.23719458	-1.93488689
GABRA4	-0.25244600	0.23719458	-1.93485774
MCART1	-0.25245861	0.23719458	-1.93496101
BID	0.25241874	0.23726006	1.93463464
GRSF1	0.25237333	0.23740177	1.93426291
LOC728844	0.25224032	0.23791170	1.93317420
HCFC2	-0.25218207	0.23807880	-1.93269743
OR6M1	-0.25217729	0.23807880	-1.93265836
TUBAL3	-0.25204872	0.23857116	-1.93160610
PWWP2A	-0.25202447	0.23862426	-1.93140766
HEATR7A	0.25192232	0.23900595	1.93057175
LSM7	0.25188349	0.23912066	1.93025403
SNORD115-2	-0.25178443	0.23922588	-1.92944355
EIF1B	-0.25173588	0.23922588	-1.92904633
TLR6	-0.25182564	0.23922588	-1.92978066
AGAP1	0.25173764	0.23922588	1.92906073
GGT7	-0.25175981	0.23922588	-1.92924208
HMGCR	0.25172389	0.23922588	1.92894823
NGF	-0.25174278	0.23922588	-1.92910272
PRB1	-0.25171890	0.23922588	-1.92890735
MLL3	0.25181693	0.23922588	1.92970945
C5orf23	-0.25174819	0.23922588	-1.92914705
TRIM41	0.25183079	0.23922588	1.92982280
LBA1	-0.25179526	0.23922588	-1.92953214
LIPN	-0.25166778	0.23939259	-1.92848919
SFRS12	0.25160772	0.23944986	1.92799787
ANG	0.25160967	0.23944986	1.92801375
SERPINB4	0.25161381	0.23944986	1.92804765
CD86	-0.25161566	0.23944986	-1.92806282
LOC100132346	0.25143887	0.24011466	1.92661660
DHX30	0.25139456	0.24020381	1.92625421
C1QB	-0.25140199	0.24020381	-1.92631501
CHD1L	0.25134303	0.24037282	1.92583273

WDTC1	0.25129135	0.24042477	1.92541003	
MCM10	0.25128429	0.24042477	1.92535236	
PCDHA8	0.25130389	0.24042477	1.92551265	
VAV1	-0.25131446	0.24042477	-1.92559905	
THUMPD3	0.25125169	0.24051369	1.92508572	
C6orf25	-0.25122001	0.24059874	-1.92482662	
RPS15AP25	-0.25109859	0.24106447	-1.92383368	
ADD3	0.25097459	0.24139849	1.92281974	
COL11A1	-0.25097348	0.24139849	-1.92281071	
VPS53	0.25100577	0.24139849	1.92307474	
CTTNBP2	0.25098559	0.24139849	1.92290969	
LCMT2	0.25095287	0.24140852	1.92264215	
MVP	0.25094791	0.24140852	1.92260159	
ACSL1	-0.25090698	0.24153226	-1.92226700	
MSX2	-0.25087172	0.24153226	-1.92197871	
TBC1D7	0.25083758	0.24153226	1.92169959	
INO80D	0.25087783	0.24153226	1.92202864	
RARA	-0.25086004	0.24153226	-1.92188318	
FAM118B	0.25088204	0.24153226	1.92206307	
TMEM14B	0.25084567	0.24153226	1.92176569	yes
IL1F9	0.25080883	0.24160517	1.92146454	
PHLPPL	-0.25071278	0.24196431	-1.92067933	
MYL2	-0.25065617	0.24210655	-1.92021656	
GPT2	0.25065647	0.24210655	1.92021903	
FGF20	-0.25062807	0.24212751	-1.91998683	
PSMB3	0.25063866	0.24212751	1.92007345	
TREX1	0.25060112	0.24219289	1.91976657	
OR1S2	-0.25053624	0.24241984	-1.91923627	
GLUL	0.25046566	0.24267129	1.91865936	
GBP7	-0.25045354	0.24267355	-1.91856033	
ACO2	0.25036182	0.24299214	1.91781071	
PLCB2	-0.25035568	0.24299214	-1.91776055	
COPZ1	0.25025892	0.24335584	1.91696984	

GPHN	0.25018702	0.24359478	1.91638228	
LOC146336	-0.25017985	0.24359478	-1.91632370	
SSBP1	0.25012116	0.24379624	1.91584417	
SLC5A8	-0.25006001	0.24395881	-1.91534448	
SP1	0.25006435	0.24395881	1.91537997	
SENP1	0.25004109	0.24399019	1.91518996	
SLMO2	0.24992854	0.24442272	1.91427038	yes
POLDIP2	0.24988097	0.24457699	1.91388182	
COL4A3	-0.24980489	0.24485375	-1.91326025	
FSHR	-0.24976238	0.24493678	-1.91291305	
HNRNPF	0.24976666	0.24493678	1.91294799	yes
IL20RA	0.24974406	0.24496573	1.91276337	
SNAP47	0.24970707	0.24507487	1.91246120	
CACNB4	-0.24968814	0.24510644	-1.91230660	
MDS1	0.24962674	0.24527074	1.91180514	
POU2AF1	-0.24963660	0.24527074	-1.91188569	
GATAD2A	0.24960389	0.24529669	1.91161853	
SOCS1	-0.24959756	0.24529669	-1.91156680	
DUS1L	0.24957799	0.24533109	1.91140693	
GATA5	-0.24956265	0.24534729	-1.91128168	
XRCC6	0.24950454	0.24554738	1.91080707	
CA9	-0.24948825	0.24556766	-1.91067409	
EXD1	-0.24946008	0.24563909	-1.91044402	
ZMAT2	0.24936890	0.24598172	1.90969938	
C1orf186	-0.24931867	0.24609841	-1.90928927	
CD320	-0.24932587	0.24609841	-1.90934800	
MATN1	-0.24926145	0.24629513	-1.90882200	
OR56A4	-0.24923334	0.24636644	-1.90859252	
PPT1	-0.24921276	0.24640535	-1.90842443	
IFNA13	0.24913300	0.24664960	1.90777324	
C9orf31	-0.24913850	0.24664960	-1.90781816	
SERPINA1	-0.24911700	0.24666877	-1.90764260	
NPFFR1	-0.24907531	0.24679879	-1.90730226	yes

NAPG	0.24903791	0.24691036	1.90699688	
CXorf26	0.24893998	0.24723353	1.90619743	
UVRAG	-0.24895121	0.24723353	-1.90628917	
SAMD8	0.24890557	0.24733232	1.90591654	
TSHR	-0.24885547	0.24749897	-1.90550760	
LBX1	-0.24880530	0.24762083	-1.90509809	
UQCC	0.24880419	0.24762083	1.90508907	
POLDIP3	0.24876067	0.24775916	1.90473387	
NPC2	-0.24872613	0.24785868	-1.90445195	
ACADSB	0.24869912	0.24787566	1.90423145	
OR7A10	-0.24870524	0.24787566	-1.90428141	
MINA	0.24864401	0.24806430	1.90378169	
UTP14A	0.24858398	0.24827436	1.90329181	
FAM40A	0.24857153	0.24827828	1.90319023	
SNORD116-12	-0.24853469	0.24838797	-1.90288953	
LOC100128233	-0.24848860	0.24843617	-1.90251343	
GAFA3	-0.24847742	0.24843617	-1.90242219	
OLIG2	-0.24849897	0.24843617	-1.90259804	
TBX6	0.24848370	0.24843617	1.90247350	
RPTN	0.24843635	0.24856425	1.90208705	
TNFRSF17	-0.24842360	0.24856949	-1.90198308	
HELLS	0.24839134	0.24865943	1.90171980	
TBC1D12	-0.24837399	0.24868464	-1.90157830	
LOC441722	0.24833992	0.24878248	1.90130023	
C4orf36	0.24822987	0.24917367	1.90040240	
RHOV	0.24822676	0.24917367	1.90037704	
ARMCX2	-0.24818718	0.24929559	-1.90005409	
TRNAU1AP	0.24816303	0.24935044	1.89985711	
PLDN	-0.24810752	0.24947819	-1.89940425	
SPIRE1	-0.24809907	0.24947819	-1.89933534	
CCDC8	-0.24811890	0.24947819	-1.89949705	
CNTNAP4	-0.24805593	0.24961571	-1.89898339	
PDCD6IP	0.24793668	0.24983934	1.89801065	yes

HOXC10	-0.24793440	0.24983934	-1.89799208
MUC2	0.24796133	0.24983934	1.89821176
NECAP2	0.24794673	0.24983934	1.89809266
CCL3	-0.24798687	0.24983934	-1.89842004
REEP1	-0.24793846	0.24983934	-1.89802514
RAB7A	0.24792392	0.24983934	1.89790659
ATPAF2	0.24791214	0.24984054	1.89781047

genename	r-value	FDR	t-value	CMH-associated
SERPINB13	0.685931735	3.86E-05	6.990853804	
KLF5	0.694186232	3.86E-05	7.152341616	
MYOF	0.671968311	6.91E-05	6.729119124	
RAB38	0.663111456	7.34E-05	6.569980442	
SMAD3	0.660765217	7.34E-05	6.528662385	
UGT1A6	0.666623627	7.34E-05	6.632478809	
IGSF3	0.647842579	0.000144608	6.307024966	
IL18	0.641423903	0.000160111	6.20048185	
C20orf199	0.642670072	0.000160111	6.220990703	
CTTNBP2NL	0.638883227	0.000160111	6.158926139	
PTPN13	0.639282972	0.000160111	6.165441697	
PPBP	-0.632295072	0.000218073	-6.052740879	
FBXO34	0.630483896	0.000224085	6.023936721	
GSDMC	0.626084458	0.000269224	5.954646164	
PTPRZ1	0.62438852	0.000277216	5.928186662	
SERINC5	0.620735914	0.000320498	5.871664464	
DCTD	0.616308042	0.000373571	5.803978082	
GMPR	-0.615943223	0.000373571	-5.798441248	
CYP2C18	0.611747308	0.000438648	5.735188507	
SERPINB3	0.61116123	0.000438648	5.726415529	
TNFRSF21	0.605915666	0.000519203	5.648557745	
HN1	0.606401891	0.000519203	5.655725024	
CROT	0.605516006	0.000519203	5.642673983	
PERP	0.603312299	0.000560314	5.610351786	
UGT1A10	0.60200993	0.00057677	5.591344865	
MPZL2	0.59656775	0.000672627	5.512671765	
TANC2	0.595140529	0.000672627	5.492236687	
BLOC1S2	0.597859907	0.000672627	5.53124299	
FREM2	0.595869382	0.000672627	5.502662362	
ITGA2	0.59515222	0.000672627	5.492403748	
PTPRK	0.595026905	0.000672627	5.490613284	
KLF3	0.593648701	0.000700096	5.47096258	

NFE2L2	0.591832259	0.000743603	5.445176845	
PGM2	0.591312356	0.000743603	5.437820003	
GCLC	0.59067769	0.000745098	5.428853335	yes
HBB	-0.590162371	0.000745098	-5.421584218	
ERLIN1	0.588556822	0.000787091	5.399001309	yes
SEMA3A	0.587763945	0.000798008	5.387885182	yes
STK38	0.584688276	0.000879991	5.344987725	
FAM83B	0.584332931	0.000879991	5.340054299	
HBD	-0.584492591	0.000879991	-5.342270354	
IMPA2	0.583178775	0.000910347	5.324062702	
GABRP	0.58028831	0.001003869	5.284227049	
GM2A	0.580434362	0.001003869	5.28623264	
TRIM29	0.579812957	0.001005002	5.277704833	
TTC39B	0.575554063	0.001162122	5.219628863	yes
GSTA4	0.575836373	0.001162122	5.223458713	
TACSTD2	0.575846946	0.001162122	5.2236022	
SLK	0.575048017	0.001166912	5.212770751	
FOLR1	-0.574621012	0.001167515	-5.206990791	
TMPRSS4	0.574217082	0.001167515	5.201529018	
LOC57228	0.573115147	0.001208073	5.186657882	
MAL2	0.571590623	0.001252418	5.16615273	yes
PRRG4	0.571886496	0.001252418	5.170126049	
IKZF2	0.570328578	0.00128289	5.149238134	yes
GABRE	0.569968549	0.00128289	5.144422759	
B4GALT5	0.570333265	0.00128289	5.149300854	
CTSB	0.567546527	0.001382813	5.112141901	
SLC15A2	0.567327277	0.001382813	5.109229432	yes
ERMP1	0.567960447	0.001382813	5.117644707	
FERMT1	0.566235068	0.00141247	5.094744581	
FAM135A	0.566190763	0.00141247	5.094157843	
PURB	0.565278154	0.001451451	5.082086485	
PRSS23	0.564144009	0.00150735	5.067123013	
NFATC2	-0.563494923	0.001514693	-5.058578163	

PDE4DIP	-0.563386867	0.001514693	-5.057156996	
DENND2C	0.562379515	0.001541305	5.04392648	
LMO7	0.562625885	0.001541305	5.047159252	
F2RL1	0.559643598	0.001725704	5.008158259	
SUSD4	0.557467994	0.001854707	4.97988569	
FHOD3	-0.557668046	0.001854707	-4.982479188	
RDH10	0.55655181	0.001907742	4.968024293	
CGNL1	-0.556247605	0.001908093	-4.964091697	
XK	-0.555424653	0.001954712	-4.953467519	
TNFRSF10C	-0.554508495	0.002011178	-4.941664818	
CTNND1	0.553894745	0.002034271	4.933772513	
LARP5	0.553681106	0.002034271	4.931028023	yes
KRAS	0.553376834	0.002036201	4.927121636	yes
ATP1B1	0.550063388	0.002274537	4.884765145	
ZDHC13	0.54982478	0.002274537	4.881727816	yes
PPP4R1	0.550134106	0.002274537	4.885665672	yes
ROD1	0.549989323	0.002274537	4.883822155	yes
MGST1	0.548770835	0.002327998	4.868332191	
STK24	0.548949884	0.002327998	4.870605549	
CDK6	0.547282813	0.002400819	4.849475981	
ADH7	0.54765105	0.002400819	4.854136147	
ROBO1	0.546788107	0.002400819	4.843221633	
B4GALT4	0.547378717	0.002400819	4.85068929	
SGPL1	0.546787776	0.002400819	4.843217454	
LPCAT3	0.54642613	0.002412678	4.838649903	
WNT5A	0.545830319	0.002423576	4.831133293	
CLCA2	0.545960848	0.002423576	4.832779123	
PDE12	0.545174379	0.002461377	4.822870188	
IL8RA	-0.544996447	0.002461377	-4.820630884	
ITGB6	0.543094201	0.002648102	4.796748583	
TIAM1	0.54286292	0.002648102	4.793852058	
AIM1	0.542568716	0.002654925	4.790169738	
JHDM1D	0.542077699	0.002685113	4.784029624	yes

UGCG	0.541527821	0.002722847	4.777161691	
GPR110	0.54091419	0.002768984	4.769507739	
ARAP2	0.539967781	0.002785022	4.757724051	
S100A16	0.539663563	0.002785022	4.753941675	
C1orf144	0.539809197	0.002785022	4.755752028	
RGS18	-0.540351121	0.002785022	-4.76249392	
SNORD32B	-0.539957488	0.002785022	-4.757596035	
TNRC6C	-0.539041928	0.002808191	-4.746220969	
FZD6	0.539039354	0.002808191	4.746189026	
METAP1	0.538660595	0.002828334	4.741490229	
VPS4B	0.537094089	0.002999049	4.722099441	
GLUD1	0.536760658	0.003014866	4.717980989	
DCLRE1C	0.536547236	0.003015332	4.71534649	
ARRDC4	0.53582286	0.0030831	4.706414195	
MNDA	-0.535430251	0.003091808	-4.701579017	
CDH26	0.535345454	0.003091808	4.700535258	
GTF2I	0.534486147	0.003155441	4.689969377	
ST8SIA4	0.534464944	0.003155441	4.689708927	
SERPINB1	0.533348987	0.00323399	4.676018358	
EPHA4	0.533315681	0.00323399	4.675610282	
PTPN1	0.533292496	0.00323399	4.675326231	
ENSA	0.532191691	0.003360998	4.66185668	
MREG	0.531963238	0.003365746	4.659065442	
DHRS9	0.530749369	0.00348593	4.644258174	yes
DERA	0.530766449	0.00348593	4.644466249	
INADL	0.529864217	0.003560921	4.633485835	yes
ACADL	-0.529961966	0.003560921	-4.6346744	
VSNL1	0.529543773	0.003580741	4.629591211	
DSC3	0.529170728	0.003608836	4.625060749	
ARNTL2	0.528698171	0.003652566	4.61932711	
PSMD11	0.528415615	0.003653815	4.615901641	
KIAA1199	0.528321139	0.003653815	4.614756769	
PON2	0.527647151	0.003726576	4.606596199	

TMPRSS11D	0.527487123	0.003726576	4.604660376	
MCM4	0.527214028	0.003741095	4.601358373	
CBFB	0.525972954	0.003910768	4.586377297	yes
NPAL2	0.524210881	0.004176868	4.565176725	
BAZ1A	0.523015097	0.004262471	4.550835624	yes
ZBTB43	0.523106502	0.004262471	4.551930542	
ABCC1	0.523470712	0.004262471	4.556295463	
N4BP1	0.52319517	0.004262471	4.552992872	yes
EI24	0.522354305	0.004318161	4.542926599	
OXR1	0.522510001	0.004318161	4.5447891	
RHBDL2	0.521929956	0.004350922	4.537853494	
PRKX	0.521828822	0.004350922	4.53664512	
GPR87	0.521044829	0.004444741	4.527286667	
C14orf101	0.520971754	0.004444741	4.526415183	
TMTC3	0.52046352	0.004446357	4.520357792	
KDSR	0.520563238	0.004446357	4.521545763	
ZNF121	0.520784534	0.004446357	4.52418303	
F3	0.520192469	0.004465821	4.517129972	
ZNF323	0.51986099	0.00449663	4.513185078	
GPX2	0.519658937	0.004503904	4.510781846	
ABCC5	0.518381801	0.004691998	4.495615409	
S100A10	0.518333241	0.004691998	4.495039561	
PSD3	0.517901536	0.004723552	4.489922763	yes
SLC2A1	0.517690855	0.004723552	4.48742736	
BMP7	0.51781734	0.004723552	4.48892537	
KTI12	0.516920907	0.004759996	4.478317209	
GALNTL2	-0.517118393	0.004759996	-4.480652485	
PARP4	0.516837626	0.004759996	4.477332706	
EXPH5	0.516570596	0.004759996	4.474177193	yes
APEX1	0.517018664	0.004759996	4.479473068	
MASTL	0.516604791	0.004759996	4.47458118	
GTF2E2	0.516351787	0.004772866	4.471592836	yes
AFG3L2	0.515446671	0.004920408	4.460915161	

ADORA2B	0.514624082	0.005024909	4.4512287	
LDLRAD3	-0.514628916	0.005024909	-4.451285571	
SPAST	0.514385235	0.00504303	4.448419281	
NSMAF	0.51381569	0.005129014	4.441725703	
UPK1B	0.513385443	0.005187403	4.436674531	
TUBB1	-0.512835626	0.005271681	-4.43022619	
DNA2	0.511921346	0.005435819	4.419519738	
SLC25A37	-0.511667972	0.005447967	-4.416556263	
CD44	0.511573724	0.005447967	4.41545433	
TDRKH	-0.510653155	0.005554909	-4.40470256	
SRXN1	0.510781332	0.005554909	4.406198369	
POGK	0.510672153	0.005554909	4.40492424	
CSTB	0.510290697	0.005603608	4.400474871	yes
AP1S3	0.50972673	0.005669308	4.393903084	
SP1	0.509713408	0.005669308	4.393747932	
AQP9	-0.508882465	0.005801835	-4.384079333	
FAM117A	-0.508848559	0.005801835	-4.383685173	
GSR	0.508678572	0.005806069	4.381709427	
SEC16B	-0.508551842	0.005806069	-4.380236919	
HTRA1	-0.508214766	0.005851824	-4.376322191	yes
MRRF	0.507971055	0.005876377	4.373493463	
GPR97	-0.507780741	0.005888766	-4.371285502	
FANCI	0.507190523	0.005994884	4.364443467	
PARD3	0.507008794	0.006005734	4.362338459	
BZW2	0.506417051	0.006083648	4.355489584	
RACGAP1	0.506410778	0.006083648	4.355417021	
ANAPC7	0.505843283	0.006155628	4.348856652	
ATP7A	0.505929505	0.006155628	4.349852912	
LST1	-0.505634147	0.006174055	-4.346440912	
PIGN	0.50550039	0.006174446	4.34489641	
CYP2C19	0.504434823	0.006403691	4.332607285	
NFRKB	0.503728189	0.006548713	4.324472359	
DNMBP	0.503238524	0.006640628	4.318842053	

SERPIN8	0.502982826	0.006672986	4.315904184	
SNORD25	0.502836676	0.006677199	4.314225655	
TGFA	0.502066395	0.006845019	4.305387195	yes
GART	0.501321904	0.007009751	4.296857675	
FAF1	0.499781586	0.007099078	4.279250889	
CYP3A5	0.500012103	0.007099078	4.281882386	
FAT2	0.499496823	0.007099078	4.276001819	
B3GAT1	-0.49951543	0.007099078	-4.27621406	
TMEM69	0.500093624	0.007099078	4.282813287	
SERPINA1	-0.499486229	0.007099078	-4.275880973	
PLAGL2	0.500276533	0.007099078	4.284902518	
MEG3	-0.500292438	0.007099078	-4.285084219	
RPL28	0.499657097	0.007099078	4.277830274	
CYP4F12	0.499983088	0.007099078	4.2815511	
SNORA20	-0.500474905	0.007099078	-4.287169233	yes
CD72	-0.500717812	0.007099078	-4.289946051	
PABPC1	0.499321875	0.007110603	4.274006618	
RCOR1	0.499056435	0.00714993	4.27098073	
PPTC7	0.498809326	0.007184525	4.26816525	
DSG3	0.498509406	0.007200809	4.264749913	
BHLHE41	-0.498553054	0.007200809	-4.265246834	
ACTG1	0.498010408	0.007305989	4.259072097	
GLRX3	0.497839346	0.00732045	4.257126976	
C9orf95	0.497520138	0.007343414	4.25349908	
ZNF845	0.497553168	0.007343414	4.253874369	
CR1	-0.496623167	0.007564575	-4.24331699	
CIRH1A	0.496326722	0.007590746	4.239955825	
UBE3C	0.49629748	0.007590746	4.239624379	
DLEU1	0.495994923	0.007644504	4.23619614	
ITGAM	-0.495817463	0.007658527	-4.234186312	
BNC1	0.49571445	0.007658527	4.233019968	
GLUL	0.495569273	0.007667179	4.231376617	
TOPBP1	0.495084369	0.007775381	4.225891105	

CSF3R	-0.494964553	0.00777691	-4.224536474	
GJC3	-0.494704451	0.007786391	-4.2215969	
WIPF3	-0.494744934	0.007786391	-4.222054326	
MTCH2	0.494453704	0.007793038	4.218764472	
IP6K2	0.494219184	0.007793038	4.216116609	
RC3H2	0.494247308	0.007793038	4.216434077	
TBC1D2	0.494119845	0.007793038	4.214995381	
FASTKD5	0.494362073	0.007793038	4.217729761	
GPRC5A	0.49392479	0.007817759	4.212794448	
SDR42E1	0.493585185	0.007885505	4.208964478	
PMS2	0.493326226	0.007929757	4.206045724	
CD109	0.492733728	0.008011808	4.199373167	
GCNT2	0.492141854	0.008011808	4.192715347	
CKAP2	0.492675995	0.008011808	4.198723414	
HOXB2	-0.492490809	0.008011808	-4.196639715	
PTGFRN	0.492133325	0.008011808	4.192619464	
TBC1D14	0.492593757	0.008011808	4.197797981	
S100B	-0.492238853	0.008011808	-4.193805934	
THRB	0.492765391	0.008011808	4.19972956	
MFAP3L	-0.492076646	0.008011808	-4.191982305	
LYPD6B	0.491587893	0.008031414	4.186490941	
OSTF1	0.491788368	0.008031414	4.188742744	
METTL9	0.49167038	0.008031414	4.187417363	
PPP2R2A	0.491732315	0.008031414	4.188113048	
AFF3	-0.4912384	0.008042179	-4.182567432	
ZDHHC3	0.491285933	0.008042179	4.183100896	
SERTAD2	0.491345111	0.008042179	4.18376512	
S100A2	0.490958961	0.008095155	4.179432287	
LOC729756	-0.490849265	0.008097024	-4.178202016	
NRGN	-0.490362783	0.008151024	-4.172749169	yes
LGR4	0.490373566	0.008151024	4.172869981	
SCARNA6	-0.490376735	0.008151024	-4.172905481	
MRPL30	0.490133291	0.008189829	4.170178637	

LAYN	0.490010629	0.008196195	4.168805184	
UTP18	0.48987079	0.008207921	4.167239777	
DSP	0.489611321	0.008225528	4.164336328	
PIGW	0.489707133	0.008225528	4.165408288	
GTPBP8	0.488908524	0.008411797	4.156479344	
SRPX2	0.488512079	0.00850476	4.152051951	
RND3	0.488351966	0.008523724	4.150264807	
ACAP2	0.487985911	0.00860825	4.146181054	
POLR3C	0.48782514	0.008627809	4.144388377	yes
UNQ1887	0.487700643	0.008635904	4.143000563	
PAICS	0.487567335	0.008646925	4.141514894	
TXN	0.48671501	0.00886342	4.132024986	
SLC43A1	-0.486700971	0.00886342	-4.131868806	
CTSC	0.486498464	0.008874786	4.129616407	
LTB4R	0.486372997	0.008874786	4.128221321	
SOX2	0.4864046	0.008874786	4.128572692	
ZFP64	0.486196999	0.008896365	4.12626494	
DIRC2	0.486113161	0.008896365	4.125333239	
BTBD11	0.48596861	0.008912116	4.123727173	
CHL1	0.485508036	0.00903234	4.118612814	
ABI1	0.48494767	0.009155424	4.112396385	yes
QTRTD1	0.484971008	0.009155424	4.112655155	
UNC45B	-0.484482756	0.009280256	-4.107243889	yes
PTGR1	0.484329981	0.009299816	4.105551723	yes
C20orf111	0.483887983	0.009418644	4.100658823	
P2RY12	-0.483250223	0.009607315	-4.093606067	
PLCE1	0.48295934	0.009676328	4.090392128	
SPINK5	0.482395304	0.0097761	4.084165162	
MARK1	0.482563868	0.0097761	4.086025414	
SAMD9	0.482423942	0.0097761	4.08448117	
COL4A3BP	0.481498024	0.009809014	4.07427283	
GPR64	-0.481771704	0.009809014	-4.077288328	
FOXN3	0.481288641	0.009809014	4.071966822	

CSNK1A1	0.481632314	0.009809014	4.075752291	yes
TTC7B	-0.481511601	0.009809014	-4.074422391	
HEBP2	0.481687193	0.009809014	4.076356995	yes
SFN	0.481341099	0.009809014	4.072544473	
SAMD12	0.48157225	0.009809014	4.07509052	
POLR1D	0.482072452	0.009809014	4.080603856	
VEPH1	-0.481415494	0.009809014	-4.073363791	
UNC5C	-0.481506747	0.009809014	-4.074368917	
ZDHC5	0.480567431	0.010002944	4.064030837	
USP38	0.480611528	0.010002944	4.064515766	yes
MRAS	-0.480165644	0.010050858	-4.059614341	
GPR137B	0.480273614	0.010050858	4.060800838	
GLYATL1	-0.480221085	0.010050858	-4.060223565	
RNF19B	0.47990976	0.010051769	4.056803369	
UBAP2	0.479898559	0.010051769	4.056680356	
MIA	-0.479895774	0.010051769	-4.056649762	
SLC16A9	0.479638382	0.010081004	4.053823647	
NDUFA10	0.47971552	0.010081004	4.054670473	
KCNB1	-0.479275703	0.010149119	-4.049843815	
RIT1	0.479358074	0.010149119	4.050747473	
ZBTB46	-0.47904037	0.010171192	-4.047262836	
FCGR3A	-0.479089163	0.010171192	-4.047797874	
RAB6B	-0.478910178	0.010186968	-4.045835473	
SAMD8	0.478553585	0.01020607	4.041927702	
MACC1	0.478511899	0.01020607	4.041471056	
SLMO2	0.478641772	0.01020607	4.04289387	yes
RIOK3	0.478767386	0.01020607	4.044270357	
POF1B	0.478349062	0.010234324	4.039687591	
NCOA3	0.477776113	0.010414985	4.033416675	
PIK3AP1	-0.477489611	0.010458218	-4.03028343	
DGKH	0.477491831	0.010458218	4.030307704	
PATL1	0.477401317	0.01045939	4.029318154	
DSN1	0.477296675	0.01046678	4.028174374	

DPEP2	-0.477022583	0.010538018	-4.025179473	
F11R	0.476682985	0.010619112	4.02147091	
SELL	-0.476639502	0.010619112	-4.020996226	
C16orf63	0.47644106	0.010630678	4.018830404	
KCMF1	0.476467092	0.010630678	4.019114482	
C18orf19	0.476343707	0.010635883	4.017768178	
RAPGEFL1	0.476180044	0.010666405	4.015982864	
JARID1B	0.475651124	0.01080729	4.010216829	
CA2	-0.475532737	0.01080729	-4.008927002	
CAPZA1	0.475609402	0.01080729	4.009762233	
PABPC4	0.475480476	0.01080729	4.008357706	
ANXA2	0.475190013	0.010887663	4.005194597	yes
SLC31A2	-0.47501337	0.010917795	-4.003271814	
GARNL4	-0.47486621	0.010917795	-4.001670424	
PTGER3	-0.474920303	0.010917795	-4.002259016	
AHR	0.474651017	0.010934435	3.999329486	
EML4	0.474498153	0.010934435	3.997667147	
LOC642587	0.474516584	0.010934435	3.997867553	
YWHAZ	0.474661011	0.010934435	3.999438184	
ZNF655	0.474186876	0.011024294	3.994283569	
AKR1C2	0.47393338	0.011092113	3.99152949	
CYP27A1	-0.47356309	0.011163144	-3.98750883	
PLEK2	0.473640046	0.011163144	3.988344205	
PF4	-0.47351248	0.011163144	-3.986959509	
NPM1	0.4733064	0.011193139	3.984723249	
C12orf30	0.473277133	0.011193139	3.984405731	
MYST3	0.473053295	0.011250451	3.981977846	
NONO	0.472915991	0.011273543	3.98048906	
BRI3	-0.472704591	0.011323393	-3.978197584	
ATP13A4	0.472633067	0.011323393	3.977422499	
ADAM17	0.472500504	0.01134493	3.975986218	
EYA4	0.47240631	0.011351191	3.974965863	
TMEM154	0.472133305	0.011429407	3.972009537	yes

CAPNS2	0.471930425	0.01147975	3.969813525	
H2AFY	0.471841786	0.011484032	3.968854343	yes
INO80	0.471745262	0.011491585	3.967810001	
GBP6	0.47152789	0.011492417	3.96545883	
ZNF286A	0.471536966	0.011492417	3.965556984	
RAB22A	0.471510769	0.011492417	3.965273677	
DRD2	-0.471357514	0.011514419	-3.963616627	
SELI	0.47130241	0.011514419	3.963020933	
DLD	0.470879595	0.011605809	3.958452145	
IFNGR1	0.470847843	0.011605809	3.958109187	
PRKAR2B	-0.470950935	0.011605809	-3.959222778	
MKI67IP	0.470722904	0.011625685	3.956759897	
RAB10	0.470277949	0.011713657	3.951957018	
DACH1	-0.470204907	0.011713657	-3.951168965	
ABCA1	0.470409097	0.011713657	3.953372235	
MPP1	-0.470316281	0.011713657	-3.952370618	
CRKL	0.470082629	0.011732937	3.949849939	
PLD6	-0.469964138	0.011750753	-3.948572049	
DIDO1	0.469697398	0.011829911	3.945696327	
TTL	0.469473897	0.011860544	3.943287836	
PDLIM1	0.469548265	0.011860544	3.944089128	
LGALS3	0.469050649	0.011989865	3.938729483	yes
ZNF295	0.469014719	0.011989865	3.938342685	
DOK1	-0.468571921	0.012092067	-3.933577818	yes
PDSS1	0.468549241	0.012092067	3.933333864	
IFNAR1	0.468604679	0.012092067	3.933930187	
ZDHHC21	0.468308371	0.012131532	3.930743602	
FER1L6	0.468329971	0.012131532	3.930975844	
SERPINA3	-0.468195494	0.012148203	-3.929530146	yes
STX6	0.467723396	0.012217346	3.924457609	
KLF15	-0.467595066	0.012217346	-3.923079489	
AQP3	0.467737876	0.012217346	3.924613126	
MAOA	0.467814829	0.012217346	3.925439685	

TESC	-0.467658751	0.012217346	-3.923763345	yes
ANKRD50	0.467636639	0.012217346	3.923525897	
PLEKHG4B	-0.467209937	0.012264687	-3.918945532	
FAM60A	0.467325257	0.012264687	3.920183075	yes
C1orf163	0.467227977	0.012264687	3.919139109	
CCDC109A	0.467195419	0.012264687	3.918789754	yes
GNAL	0.467067192	0.012288789	3.917414046	
CYP4X1	-0.466793669	0.012368051	-3.914480559	
WASL	0.466738982	0.012368051	3.913894216	
TMOD3	0.466602027	0.012396259	3.912426081	yes
DIP2B	0.466494004	0.012412127	3.911268338	
PLP2	0.466422163	0.012412501	3.910498511	
MCCC1	0.466308431	0.012430974	3.909279982	
ARPC4	0.465700777	0.012453065	3.902773768	
PSME3	0.466059274	0.012453065	3.906611381	
CXorf39	0.465591187	0.012453065	3.901601122	yes
DENND3	-0.465422844	0.012453065	-3.899800255	
ANXA1	0.465498931	0.012453065	3.900614135	
ITGA2B	-0.465519029	0.012453065	-3.900829145	
SERPIN5	0.465659563	0.012453065	3.902332743	
GRAMD1A	-0.465587197	0.012453065	-3.901558432	
KIAA1609	0.466132892	0.012453065	3.907399736	
WBSCR17	-0.465739881	0.012453065	-3.903192246	
EMR3	-0.465419308	0.012453065	-3.899762439	
NUP153	0.465484712	0.012453065	3.90046203	yes
CASP2	0.465343841	0.012455919	3.898955297	
FLJ42418	-0.46517713	0.012468606	-3.897172671	
DAPL1	0.465217097	0.012468606	3.897599991	
C10orf58	0.464853078	0.012579085	3.893709133	
SIN3A	0.464712792	0.012610346	3.892210343	
IL1RAP	0.464572351	0.012641795	3.890710272	
PRDM4	0.464274788	0.012742131	3.887533194	yes
PHACTR4	0.464120896	0.012779881	3.885890748	

ETV3	0.463475325	0.012975755	3.879005635	
YES1	0.463538693	0.012975755	3.879681117	
GFI1B	-0.463511712	0.012975755	-3.879393495	
ZNF480	0.463243633	0.01298898	3.87653652	
C17orf47	-0.463297129	0.01298898	-3.877106529	
CD58	0.463322345	0.01298898	3.877375235	
CASP6	0.463021023	0.013058481	3.874165154	
TCERG1	0.462675919	0.013145981	3.870490739	
ATE1	0.462625698	0.013145981	3.869956217	
ASTN2	-0.462738135	0.013145981	-3.871153009	
DRG1	0.462436118	0.013161651	3.867938838	
DHX35	0.462463209	0.013161651	3.868227082	
RCSD1	-0.462391587	0.013161651	-3.86746507	
RGAG4	-0.462316287	0.013165764	-3.866664032	
EXOC1	0.462160526	0.013206243	3.865007396	
ZSWIM6	0.462063933	0.013220104	3.863980283	
LILRB3	-0.461964966	0.013221607	-3.862928109	
TOP1	0.461929162	0.013221607	3.862547497	
SNRPB	0.461625266	0.013329726	3.859317955	
PCOLCE2	-0.461425556	0.013361145	-3.857196547	
SYT7	-0.461471092	0.013361145	-3.857680186	
ZWILCH	0.461309583	0.013365886	3.855964973	
FN3K	-0.461284919	0.013365886	-3.855703088	
MARVELD2	0.461173092	0.013387286	3.854515826	yes
SNORD116-14	-0.460879204	0.013466834	-3.85139676	
ARL6IP1	0.460869791	0.013466834	3.851296889	
ZNF131	0.460728942	0.013501867	3.849802634	
NFE2	-0.460553207	0.013553115	-3.8479388	yes
LCOR	0.460304318	0.013638478	3.845300082	yes
USP39	0.460136613	0.013684411	3.843522725	
SLC12A6	0.460077016	0.013684411	3.842891228	
ARPC5	0.459885221	0.013743947	3.840859415	
SNORD115-25	-0.459464175	0.01383683	-3.836401383	

VPS13D	0.459370368	0.01383683	3.835408599	
SOX9	-0.459368313	0.01383683	-3.835386846	
VRK2	0.459495716	0.01383683	3.83673522	yes
PNPT1	0.459412012	0.01383683	3.835849299	
SERPINB11	0.459287988	0.013844801	3.834536887	
RCBTB1	0.459153667	0.01387821	3.833115819	
ATP11B	0.45899503	0.013923204	3.831437926	
ATP7B	0.458926553	0.013925783	3.830713799	
RPS6KA2	-0.458653605	0.013973978	-3.82782828	
SERPINB4	0.458636183	0.013973978	3.82764415	
BMPR1B	0.458677876	0.013973978	3.828084813	
LIPA	0.458348322	0.014079782	3.82460256	
RTN1	-0.458288165	0.014079782	-3.823967119	
XPOT	0.45793548	0.01421857	3.820243052	
ARPC2	0.457818733	0.014244738	3.819010799	
CLINT1	0.457701387	0.014271286	3.817772476	
INTS9	0.457430351	0.014372228	3.814913273	
ATP6VOE2	-0.457366911	0.014372932	-3.814244223	
CD9	0.457226616	0.014410969	3.812764925	
GRK4	-0.456869576	0.01452614	-3.809001827	
AKR1C3	0.456866792	0.01452614	3.80897249	
TMEM178	-0.456618542	0.014617654	-3.806357397	
ABHD2	0.456298957	0.014684341	3.802992495	
GPD2	0.456311711	0.014684341	3.803126752	
ARV1	0.456394352	0.014684341	3.803996711	
AK3	0.456099859	0.014752521	3.800897142	
DYNLT3	0.455852564	0.014845012	3.798295553	
GFPT2	-0.455669371	0.014905975	-3.796369045	
SDR16C5	0.455301839	0.014932576	3.792505817	
DPY19L1	0.455445509	0.014932576	3.794015678	
MDM2	0.455322566	0.014932576	3.792723617	
TTC38	-0.455252296	0.014932576	-3.791985243	
TYMS	0.455318396	0.014932576	3.792679796	

AMMECR1L	0.455369711	0.014932576	3.793219056	
CNKS3	0.455183456	0.014936867	3.791261978	
SLC6A14	0.454682129	0.015151571	3.785997413	
CLDN1	0.454636633	0.015151571	3.785519868	
CLCA4	0.454533392	0.015172199	3.784436356	
REL	0.454476007	0.015172199	3.783834182	
DIMT1L	0.454328408	0.015216761	3.782285618	
SNORD116-24	-0.453537805	0.015360434	-3.773997529	
ADRA1A	-0.453835523	0.015360434	-3.777117262	yes
ANXA2P2	0.453414148	0.015360434	3.772702214	yes
IKBKB	0.453405273	0.015360434	3.772609264	
PDGFRL	-0.453385818	0.015360434	-3.772405496	
FAM20A	-0.453570237	0.015360434	-3.774337307	
STIM2	0.453519013	0.015360434	3.77380067	
ST6GAL1	0.453956015	0.015360434	3.778380326	
SMARCC1	0.453336846	0.015360434	3.771892616	
SCARNA16	-0.453383152	0.015360434	-3.772377573	yes
MGC13057	-0.453798517	0.015360434	-3.776729394	
PRPF4	0.453676799	0.015360434	3.775453823	
ZNF431	0.453148456	0.015418234	3.769920011	
HELLS	0.453048813	0.015418234	3.768876919	
CAMK1D	0.453104872	0.015418234	3.76946374	
GLTP	0.452865652	0.015482441	3.766960004	
WDR70	0.452785014	0.015494034	3.766116257	
RASGRP2	-0.452364349	0.015681806	-3.761716564	yes
CSTF2	0.451860278	0.015915575	3.756448685	
PADI2	-0.451798737	0.015917462	-3.755805856	
LOC100133404	-0.451452931	0.016069994	-3.752194944	yes
POLR1B	0.451096693	0.01622945	3.748477325	
CHP	0.450986089	0.016248679	3.747323547	
PRKDC	0.450945441	0.016248679	3.746899576	
SAE1	0.450786948	0.016302956	3.745246729	
CTNNA1	0.450725289	0.016305201	3.744603838	

CAMSAP1	0.450597182	0.016327597	3.743268335	
UBA6	0.450569032	0.016327597	3.742974914	
ARHGEF3	0.450489737	0.016339508	3.742148449	
GPD1	-0.450213899	0.016365579	-3.73927438	yes
UCRC	0.450298631	0.016365579	3.740157092	
BST1	-0.450251111	0.016365579	-3.739662021	
LCMT2	0.450213546	0.016365579	3.739270694	
LGALS8	0.449968891	0.016467283	3.736722653	
UBE4B	0.449746151	0.016496069	3.734403776	
FOXC1	-0.44977381	0.016496069	-3.734691678	
HNRNPAB	0.449812083	0.016496069	3.735090086	
CDR1	-0.449260172	0.016621552	-3.729347418	
ODZ4	0.44923478	0.016621552	3.729083337	
KRT6A	0.449376712	0.016621552	3.730559573	
DPM3	-0.449345506	0.016621552	-3.730234973	
DCTN5	0.449414751	0.016621552	3.730955283	
FAM49B	0.448953865	0.016744899	3.726162586	
SLC6A6	0.448782912	0.016808292	3.724385813	
NBPF22P	-0.448647833	0.016852079	-3.722982252	
SFXN1	0.448561473	0.016869015	3.722085086	
GFRA2	-0.44845533	0.016896976	-3.720982565	
GSPT1	0.44838835	0.016903295	3.72028695	
C3orf57	0.448224065	0.01695577	3.718581091	
ACBD6	0.448182911	0.01695577	3.718153848	
RAB25	0.448096646	0.016972972	3.717258363	
C10orf2	0.44743166	0.01731514	3.710359777	
DYSF	-0.447263811	0.017378995	-3.708619718	yes
MTMR1	0.447166622	0.01740287	3.70761241	
NDUFA12	0.446971174	0.017482836	3.705587188	
IL10RB	0.44680379	0.017547079	3.703853294	
FXD1	-0.446570883	0.017649248	-3.701441466	
TTF2	0.446223695	0.01781821	3.697847965	
SGPP2	0.446119943	0.01784661	3.696774505	

ZNF280C	0.446017643	0.017874249	3.695716257	
KIF11	0.445769605	0.017941273	3.693151152	
PPM2C	0.445696473	0.017941273	3.692395052	
ZNF146	0.445662612	0.017941273	3.692045001	
C1orf116	0.44562997	0.017941273	3.69170757	
NPL	0.445642786	0.017941273	3.691840048	
EIF5	0.445198606	0.01813052	3.687250146	yes
HADHA	0.44520047	0.01813052	3.6872694	
PGD	0.444966274	0.018235702	3.684850712	
TMEM87B	0.444811305	0.018263441	3.68325077	
CDC23	0.444824339	0.018263441	3.68338532	
CLIP4	0.444713202	0.018289621	3.682238137	
HNRNPA1L2	0.444621795	0.0183119	3.681294779	
TTC39C	0.444525133	0.018324207	3.680297334	yes
MCCC2	0.444493587	0.018324207	3.679971847	
CSNK2A1P	0.444269601	0.018425626	3.677661307	
HINT1	0.444182345	0.018445742	3.676761446	
NCAPD2	0.444081814	0.018473858	3.675724837	
FOXO4	-0.443815643	0.018601469	-3.672981098	
IL8RB	-0.443661769	0.018629903	-3.6713955	
NPLOC4	0.443683813	0.018629903	3.671622626	
LOC100129654	-0.443234073	0.018856659	-3.666990388	
PRB1	-0.443094844	0.018909107	-3.665557063	
RALGPS2	0.442933645	0.018951867	3.663897961	yes
DMRTA1	-0.442836267	0.018951867	-3.662895939	
TTR	-0.442899617	0.018951867	-3.663547798	
CDC123	0.442770691	0.018951867	3.662221252	
XPR1	0.442760071	0.018951867	3.662111991	
OR51B4	-0.442602722	0.019015889	-3.66049341	
NHSL2	-0.442483157	0.019024683	-3.659263778	
KIAA1468	0.442500173	0.019024683	3.659438767	yes
BAG1	0.442387047	0.019042035	3.658275538	
SRPK1	0.442349951	0.019042035	3.65789415	

BTBD10	0.442212828	0.01909408	3.656484558	
PRB4	-0.442009165	0.01917838	-3.654391537	
DENND1C	-0.441971436	0.01917838	-3.654003874	
GTF3C4	0.441791105	0.019257593	3.652151334	
LRRC8D	0.441639461	0.019319312	3.650593918	
SLC2A6	-0.441535465	0.019325169	-3.649526086	yes
LAMA1	-0.441526088	0.019325169	-3.649429812	
ADAM10	0.441220181	0.01935952	3.64628986	
PKIG	-0.441279082	0.01935952	-3.646894323	
NFAM1	-0.441266179	0.01935952	-3.646761903	
CTSL2	0.440890905	0.01935952	3.642911799	
SPIN3	-0.440907091	0.01935952	-3.64307781	
COPZ2	-0.440922875	0.01935952	-3.643239696	yes
UBAP1	0.440853559	0.01935952	3.642528775	
PPIA	0.440952159	0.01935952	3.643540065	
PSMA4	0.44094689	0.01935952	3.643486021	
C14orf133	0.441382545	0.01935952	3.647956227	
TAL1	-0.441018439	0.01935952	-3.644219963	yes
KIAA0101	0.440888363	0.01935952	3.642885728	
PIGU	0.440800132	0.019361063	3.641980872	yes
GNMT	-0.440492767	0.019401866	-3.638829715	
TMPRSS11A	0.440430297	0.019401866	3.638189463	
SYT13	-0.440583329	0.019401866	-3.639758013	
SH2D4A	0.440467793	0.019401866	3.638573747	
SORL1	0.440505312	0.019401866	3.6389583	
BCL10	0.44061931	0.019401866	3.64012686	
WDR68	0.440377626	0.019403259	3.637649677	
ETF1	0.440316075	0.019410211	3.637018956	
TUBA1C	0.440159572	0.019476278	3.635415537	
SARDH	-0.43976369	0.019651822	-3.631361442	
PAIP2B	-0.439728323	0.019651822	-3.630999391	
C4orf14	0.439787296	0.019651822	3.631603108	
TRIM50	-0.439501527	0.019763037	-3.628678166	

CBX7	-0.439263456	0.019850323	-3.626242463	
SETBP1	-0.439269732	0.019850323	-3.626306667	
PIR	0.439007763	0.019981004	3.623627533	
SLC35D1	0.438954443	0.019983218	3.623082368	
ILDR1	0.438725638	0.020065705	3.620743547	
NPAS2	0.438745399	0.020065705	3.620945511	
RBMX2	0.438584262	0.020124386	3.619298849	
GAB2	-0.438442944	0.020183213	-3.617855071	
NT5C2	0.438158137	0.020239172	3.614946352	
NRAS	0.438288247	0.020239172	3.616274996	
PRDX1	0.438224084	0.020239172	3.615619747	
ABCE1	0.438189758	0.020239172	3.615269235	
ZCCHC14	0.438104882	0.020241736	3.614402617	
MYRIP	-0.438046286	0.020247781	-3.6138044	
HDAC1	0.437923542	0.020270222	3.61255146	
SSH1	0.437744211	0.020270222	3.610721355	
DHX33	0.437701362	0.020270222	3.610284155	
GPR135	-0.437803872	0.020270222	-3.611330145	
SPN	-0.437672623	0.020270222	-3.609990932	
SFRS9	0.437668914	0.020270222	3.609953092	
FGFBP1	0.437771608	0.020270222	3.611000912	
SLC44A1	0.437513542	0.02033219	3.608368121	
POLR2H	0.437475464	0.02033219	3.607979733	yes
DLX2	-0.437404606	0.02034659	-3.607257085	yes
INPP5J	-0.437072429	0.02040502	-3.60387042	
P2RX1	-0.437144216	0.02040502	-3.60460216	
CXCL16	0.437077071	0.02040502	3.603917738	
PLBD1	0.437153033	0.02040502	3.604692045	
ABCC3	0.437236095	0.02040502	3.605538826	
ARID2	0.436867735	0.020506443	3.601784411	yes
FGD6	0.436663653	0.020607936	3.599705312	
ASAP2	0.436459802	0.020709744	3.597629268	
SGK1	0.436157695	0.020876744	3.594553813	

INHA	-0.435922285	0.021000685	-3.592158388	
PWP1	0.435766424	0.02103576	3.590572907	
C20orf118	-0.435677973	0.02103576	-3.589673332	
NFX1	0.435695861	0.02103576	3.589855249	yes
NARG1	0.43572037	0.02103576	3.590104503	
ATAD1	0.435629292	0.02103641	3.589178285	
DCLRE1A	0.435474185	0.021107829	3.587601223	
SNORD116-4	-0.43540457	0.021122491	-3.586893539	
F5	-0.435130114	0.02123613	-3.584104262	
DAPK2	-0.435091864	0.02123613	-3.583715629	
GRHL1	0.435163407	0.02123613	3.584442552	
M6PR	0.434987824	0.021242407	3.582658666	
NUFIP2	0.435016412	0.021242407	3.582949082	yes
ADSS	0.434810668	0.021255886	3.580859319	
CNOT1	0.434779112	0.021255886	3.580538862	yes
MARS2	0.434876707	0.021255886	3.581530012	
ProSAPiP1	-0.434792718	0.021255886	-3.580677031	yes
NCAPD3	0.434609512	0.021324412	3.578816818	
C15orf41	0.434582867	0.021324412	3.578546321	
TOR1AIP2	0.434499117	0.021349149	3.577696176	
FADS2	-0.434256488	0.021480919	-3.57523389	
TSPYL2	-0.433815924	0.021716208	-3.570765326	
SCEL	0.43381929	0.021716208	3.570799462	
EIF4G2	0.433565734	0.021802499	3.568229108	yes
TFRC	0.433638291	0.021802499	3.568964524	
UXS1	0.4335495	0.021802499	3.568064572	
SNRPD1	0.433456269	0.021834426	3.567119754	
KIF16B	0.4334087	0.021835167	3.566637739	
SCUBE2	-0.433361646	0.021835597	-3.566160978	
B3GNT2	0.433276612	0.021853848	3.565299488	
NPFFR2	-0.433242301	0.021853848	-3.564951906	
STAM	0.433104752	0.021916406	3.563558706	
DR1	0.433046646	0.021924575	3.562970251	

NFKB1	0.432992919	0.021929633	3.56242619	
GDE1	0.432947053	0.021929633	3.561961779	
SERBP1	0.432900189	0.021930211	3.561487289	
ARRB1	-0.432770018	0.021956498	-3.560169523	
ADAMTS12	-0.432791405	0.021956498	-3.560386016	
GRB14	-0.432723639	0.021956862	-3.559700088	
ZNF675	0.43258759	0.0220189	3.558323208	
ZNF460	0.432348835	0.022141407	3.555907638	
SF3B3	0.432272895	0.022141407	3.555139517	
USP6NL	0.43231019	0.022141407	3.555516739	yes
LBR	0.432199327	0.022160754	3.554395474	
NNT	0.432106534	0.022161984	3.553457118	
LRP4	0.432134878	0.022161984	3.553743727	
G3BP1	0.432011804	0.02216566	3.552499328	
BHLHA15	-0.432010434	0.02216566	-3.552485473	
IMP3	0.431914663	0.02220058	3.551517302	
ARFGEF1	0.431755044	0.022279888	3.549904008	
SNORA13	-0.431570844	0.022376603	-3.548042772	
SPSB1	0.431395282	0.022467664	3.546269331	
AADAC	0.431303928	0.022491984	3.545346703	
NAPG	0.431270317	0.022491984	3.545007292	
KLF17	-0.430940725	0.022552565	-3.541679905	
FGR	-0.430892317	0.022552565	-3.54119135	
NAP1L4	0.43086759	0.022552565	3.540941813	
SYTL2	0.430823226	0.022552565	3.540494125	
PREX1	-0.430740228	0.022552565	-3.53965665	
TNFAIP8L2	-0.430978429	0.022552565	-3.542060456	
CCNK	0.430956076	0.022552565	3.541834843	
ZNF561	0.430914888	0.022552565	3.541419144	yes
BZW1	0.431089707	0.022552565	3.543183737	
KIAA0494	0.430736059	0.022552565	3.539614584	
ERBB4	-0.430673817	0.022565019	-3.53898662	
BEND2	-0.430606013	0.022581416	-3.538302615	

CAND1	0.430560032	0.022582545	3.537838802	
CHRM1	-0.430307854	0.022605372	-3.535295661	
RC3H1	0.43045517	0.022605372	3.536781174	yes
NOB1	0.43038039	0.022605372	3.536027057	
NDFIP2	0.430435947	0.022605372	3.536587317	
CA12	0.43030645	0.022605372	3.535281501	
HEATR1	0.4302566	0.022609443	3.534778898	
MARCH3	0.429924546	0.022618453	3.531432054	
BNIP1	0.430109568	0.022618453	3.533296718	
ANXA11	0.429893304	0.022618453	3.531117251	
LTF	-0.429911418	0.022618453	-3.531299766	
KIAA1305	0.430154245	0.022618453	3.533747057	
THOC5	0.430093693	0.022618453	3.533136704	
SGK493	-0.430026983	0.022618453	-3.532464355	yes
RASAL2	0.429992444	0.022618453	3.532116273	
SLC30A5	0.4297461	0.022691214	3.52963418	
EZH2	0.429697445	0.022694818	3.529144064	
NES	-0.429143095	0.022889551	-3.523562562	yes
EPB41L1	0.429377423	0.022889551	3.52592131	
MUSTN1	-0.429165561	0.022889551	-3.523788662	
MRPS10	0.429118066	0.022889551	3.523310671	yes
USP14	0.42923912	0.022889551	3.52452904	
MTA2	0.42920174	0.022889551	3.524152799	
KIAA0020	0.429154858	0.022889551	3.523680944	
SH3RF2	0.428865407	0.023033559	3.520768483	
C14orf119	0.428802559	0.023033559	3.520136277	
CAPNS1	0.428747849	0.023033559	3.519585984	
JAGN1	0.428742827	0.023033559	3.519535476	
HTATIP2	0.428665809	0.023045935	3.51876089	
CLEC4E	-0.428639554	0.023045935	-3.518496862	
TMEM48	0.428571796	0.023063654	3.51781551	
ERCC6	0.428453272	0.023087114	3.51662386	
FAM49A	-0.428465787	0.023087114	-3.51674967	

C1QTNF5	-0.42806979	0.023331044	-3.512769793	yes
PAWR	0.428006334	0.023345964	3.512132278	
OR4A5	-0.42790054	0.023360725	-3.511069542	
TJP2	0.427934363	0.023360725	3.511409286	
TMEM2	0.427814038	0.023367862	3.510200736	
AIF1L	-0.427805539	0.023367862	-3.510115375	
RAD23B	0.427761011	0.023369343	3.509668204	
REV1	0.427694737	0.023386516	3.509002694	
CPT1A	0.427549185	0.023430366	3.507541345	
INPP1	0.427567559	0.023430366	3.507725796	
RALBP1	0.427364773	0.023462942	3.505690308	
HPCAL1	-0.42730288	0.023462942	-3.50506918	
SLC20A1	0.427338229	0.023462942	3.505423917	
PPP1R1B	-0.427293104	0.023462942	-3.504971079	
KIAA0196	0.427384113	0.023462942	3.505884414	
hCG_1644301	-0.427172329	0.023494749	-3.50375923	
PLEKHA5	0.42716501	0.023494749	3.503685793	
GNPDA1	0.427060211	0.023504129	3.502634445	
ESR1	-0.427026321	0.023504129	-3.502294501	
GTF2F2	0.427070326	0.023504129	3.502735916	
WDR43	0.426963419	0.023519371	3.501663573	
NAT13	0.42691767	0.023522254	3.501204741	
TREM1	-0.426602052	0.023720901	-3.498040191	
TMEM165	0.42647746	0.023750936	3.496791397	
HYI	-0.426485799	0.023750936	-3.496874976	
ZNF410	0.42636766	0.023781607	3.495691065	yes
FAR1	0.426352214	0.023781607	3.495536296	
AR	-0.426129511	0.023805248	-3.493305178	
TFDP1	0.426142503	0.023805248	3.493435315	
UQCRC2	0.426112682	0.023805248	3.493136604	
CDC7	0.426210999	0.023805248	3.494121459	
C20orf72	0.42614432	0.023805248	3.493453515	
SUSD3	-0.42600859	0.023851099	-3.492094067	

EXOSC2	0.42577161	0.023934043	3.489721205	
TBK1	0.42578468	0.023934043	3.489852055	
WISP2	-0.425788286	0.023934043	-3.489888159	
MTFMT	0.425643996	0.023983401	3.48844379	
MARCH5	0.425622097	0.023983401	3.488224599	
RBM28	0.425569485	0.023991897	3.48769805	
LDOC1	-0.425400639	0.024085895	-3.486008478	
PAK2	0.425232697	0.024179567	3.48432839	
DDX52	0.425083053	0.024195009	3.482831729	
KRT19	0.425048356	0.024195009	3.482484762	
RRM1	0.425058022	0.024195009	3.482581424	
C10orf11	-0.425051096	0.024195009	-3.482512162	
LTA4H	0.424948925	0.024238406	3.481490548	
SNORD116-26	-0.424743477	0.024240146	-3.479436767	
FAM117B	0.424811731	0.024240146	3.480119003	
RB1	0.424777702	0.024240146	3.479778856	
UNQ9368	-0.424901628	0.024240146	-3.481017679	
UTP15	0.424744313	0.024240146	3.479445121	
TAF5L	0.42450625	0.024386056	3.477066108	yes
SSBP1	0.424363667	0.024462091	3.475641678	
ASTE1	0.424232783	0.024529611	3.474334388	
ATP10A	-0.424178831	0.024539742	-3.473795585	
CTTN	0.424059278	0.024599006	3.472601809	
P2RY5	0.423873284	0.024686994	3.470745037	
FXD3	0.423799301	0.024686994	3.470006612	
TP63	0.423780939	0.024686994	3.46982336	
PTDSS1	0.423823738	0.024686994	3.470250509	
HIATL1	0.42371288	0.024707959	3.469144156	
IPO7	0.423102589	0.024965732	3.463056908	
TCP10L	-0.422933381	0.024965732	-3.461370185	
HSPB1	0.423108622	0.024965732	3.463117052	
CTDSPL2	0.423000778	0.024965732	3.462041968	
TET2	0.423076796	0.024965732	3.462799767	yes

C16orf62	0.42297117	0.024965732	3.461746846	
FKBP10	-0.423013171	0.024965732	-3.462165506	yes
TRAPPC2	0.423232641	0.024965732	3.464353612	
SPIB	-0.423153463	0.024965732	-3.463564123	
SNORD114-3	-0.423320764	0.024965732	-3.465232396	yes
ACSS1	-0.422932196	0.024965732	-3.461358377	
ETV5	-0.422714727	0.025100747	-3.459191229	
FCHO2	0.422422828	0.025155945	3.456283492	
NEIL2	-0.422528233	0.025155945	-3.457333333	
SH3RF3	-0.422450625	0.025155945	-3.456560342	
AADACL1	0.422388327	0.025155945	3.455939904	
SLC11A1	-0.422534526	0.025155945	-3.45739601	
YWHAB	0.422361403	0.025155945	3.455671786	
SEL1L2	-0.422442923	0.025155945	-3.456483635	
CSDA	0.422326157	0.025155945	3.455320807	
ALDH3A1	0.422059144	0.025205857	3.452662525	
ACSL1	-0.422144191	0.025205857	-3.453509094	
ICAM3	-0.422037284	0.025205857	-3.452444936	
KTELC1	0.422218836	0.025205857	3.454252223	
MMP25	-0.422123955	0.025205857	-3.453307655	
ISG20L2	0.422025342	0.025205857	3.452326082	
KIAA0427	-0.421959856	0.025226004	-3.451674322	yes
S100A1	-0.421873326	0.025262268	-3.450813232	
C3orf1	0.421671568	0.02533631	3.448805904	
CREB3L2	-0.421725333	0.02533631	-3.449340758	
NBPF3	0.421659627	0.02533631	3.448687116	
MED20	0.421619863	0.025336975	3.448291579	
PLIN	-0.421528453	0.025370142	-3.447382398	
CCDC6	0.421498901	0.025370142	3.4470885	
CPLX3	-0.42145934	0.025370742	-3.446695078	
ZNF239	-0.421379958	0.025373953	-3.445905711	
USP42	0.421377716	0.025373953	3.445883421	yes
DIS3	0.421281564	0.025388421	3.444927443	

IREB2	0.421295429	0.025388421	3.445065281	
MIER3	0.421202653	0.025419355	3.444142973	
OPA1	0.420872362	0.025644095	3.440860555	
WDFY2	0.420417999	0.025791656	3.436347829	
ZNF679	-0.420451166	0.025791656	-3.436677139	
EIF2S3	0.42041298	0.025791656	3.436298003	
GLT25D2	-0.42052992	0.025791656	-3.437459135	
GJB5	0.420413235	0.025791656	3.436300528	
GNAO1	-0.420553233	0.025791656	-3.437690647	yes
KCNC3	-0.420495097	0.025791656	-3.437113346	
C3orf18	-0.420242112	0.025865017	-3.434601767	
UCHL3	0.420275937	0.025865017	3.434937521	
C6orf58	-0.420108307	0.025914173	-3.433273778	
SMG7	0.420102629	0.025914173	3.433217431	yes
SNORA3	-0.420052886	0.02592322	-3.432723813	
ZDHHC20	0.420012174	0.025925255	3.432319843	
AHCYL2	0.419906306	0.025978173	3.431269461	
CLPX	0.419773892	0.026051984	3.429955955	
SOD3	-0.419735572	0.026052232	-3.429575876	
WDR12	0.41964442	0.026093901	3.428671882	
NET1	0.419563639	0.026118923	3.42787084	
MAPK6	0.419536686	0.026118923	3.427603589	
ELF1	0.419338993	0.026137923	3.425643729	yes
SMG1	0.419080123	0.026137923	3.423078279	
GTPBP4	0.41928674	0.026137923	3.425125817	
LASS6	0.419118519	0.026137923	3.423458729	yes
PARVB	-0.419322946	0.026137923	-3.425484669	yes
MAP3K5	0.419023274	0.026137923	3.422515032	
CFP	-0.419173068	0.026137923	-3.423999263	
SET	0.419470332	0.026137923	3.426945712	
SOX10	-0.419244061	0.026137923	-3.424702814	
FASTKD1	0.419298632	0.026137923	3.425243678	
NOL9	0.419055743	0.026137923	3.42283672	

DDI2	0.419129396	0.026137923	3.423566508	
SLC16A7	0.419179913	0.026137923	3.4240671	
SSX10	-0.41879665	0.026257228	-3.420270169	
SUPV3L1	0.41883186	0.026257228	3.420618893	
SFRS15	0.418730817	0.026279681	3.419618187	
ARL5B	0.418421217	0.02643586	3.416552951	
GPER	-0.418478091	0.02643586	-3.417115933	
ZDHC16	0.418443941	0.02643586	3.416777883	
ZNF746	-0.418335599	0.026474207	-3.415705537	
ITGB8	0.418157099	0.026553621	3.413939159	
SNX7	0.418124116	0.026553621	3.413612824	
CLEC3B	-0.418129992	0.026553621	-3.413670963	yes
LOC100130511	0.418022698	0.026604774	3.412609487	
CHRNA2	-0.417921428	0.026650749	-3.41160777	
CDKN2AIP	0.417890919	0.026650749	3.411306026	
GNLY	-0.417684981	0.026682119	-3.409269544	
ALDOC	-0.417594861	0.026682119	-3.40837857	
RAB14	0.417520221	0.026682119	3.407640732	
RBM35A	0.417566163	0.026682119	3.408094866	
FEM1C	0.417552725	0.026682119	3.407962026	
TMEM62	0.417617665	0.026682119	3.408604009	
VANGL1	0.41770122	0.026682119	3.409430108	
CLDN10	0.417718923	0.026682119	3.409605147	
ACVR2A	0.417644375	0.026682119	3.408868075	
RNASEL	0.417148437	0.026924543	3.403966772	
MICAL1	-0.417143791	0.026924543	-3.403920868	
UNC13D	-0.416933485	0.027011457	-3.401843566	
TMEM9B	0.416925969	0.027011457	3.401769338	
AMMECR1	0.416973475	0.027011457	3.402238517	
SEP4	-0.416800602	0.02707921	-3.400531342	yes
TSR1	0.4167689	0.02707921	3.400218323	
BRWD3	0.416708226	0.027098759	3.399619293	
TOP2A	0.416579926	0.027172994	3.398352757	

RNF150	-0.416496143	0.027211354	-3.397525815	
DICER1	0.416259575	0.027373897	3.395191433	
LOC388796	0.41595703	0.027587427	3.39220723	
HIF3A	-0.41592547	0.027587427	-3.391896014	
TTC19	0.415673197	0.027764915	3.389408837	
ABCB7	0.415579609	0.027791362	3.388486392	
RPSA	0.415568578	0.027791362	3.388377673	
RBM34	0.415504657	0.027814214	3.38774772	
MYL12B	0.415111823	0.028092773	3.38387761	
OR4M2	-0.415096183	0.028092773	-3.383723574	
SHANK2	-0.415026817	0.028100634	-3.383040448	
SENP1	0.414981958	0.028100634	3.382598712	
RNASE1	-0.414978379	0.028100634	-3.382563469	yes
USP10	0.414937923	0.0281043	3.382165111	yes
TRAF3IP2	0.414756931	0.02822519	3.380383256	
MUDENG	0.414681542	0.028258113	3.3796412	yes
SIPA1L2	0.414506684	0.028374463	3.377920387	
C10orf119	0.414434466	0.028404912	3.377209811	
RENBP	-0.414321826	0.028469413	-3.376101659	
TSHZ2	0.414179213	0.028559345	3.374698896	
LIMD2	-0.414126263	0.028573759	-3.374178152	
TP53	0.414026507	0.028605848	3.373197193	
VPS26A	0.414016617	0.028605848	3.373099951	
DSCAML1	-0.41397515	0.028610656	-3.372692234	
DSE	0.413914215	0.028631946	3.37209314	
C18orf55	0.41377439	0.028720069	3.370718646	
OR52K2	-0.413607429	0.028750394	-3.369077767	
THUMPD3	0.413670437	0.028750394	3.369696955	
SLC3A2	0.413619252	0.028750394	3.369193954	
XRCC6BP1	0.413596061	0.028750394	3.36896606	
AHSG	-0.413519678	0.028785028	-3.368215532	
RINL	-0.413227965	0.028852143	-3.365349972	
C3orf55	-0.41325284	0.028852143	-3.365594272	

SIRPB2	-0.413241179	0.028852143	-3.365479746	
PLEKHB2	0.413359637	0.028852143	3.366643257	
ZNF28	0.413288799	0.028852143	3.365947454	
FAM65B	-0.413321846	0.028852143	-3.366272045	
CDKN1C	-0.413103913	0.028927635	-3.364131759	
CPT2	0.412947038	0.029031355	3.362591542	
CIT	0.412852365	0.029082134	3.361662206	
PLCB1	-0.412678763	0.02920073	-3.359958428	
GRLF1	0.4125348	0.029294225	3.358545869	
CCT6A	0.41248959	0.02930282	3.358102335	
UST	0.412003816	0.029647259	3.353338491	
DMBT1	-0.411986194	0.029647259	-3.353165743	
PIP	-0.412023949	0.029647259	-3.353535865	
TKT	0.411553018	0.029995401	3.348920734	
CD300LB	-0.411517387	0.02999582	-3.348571681	
C9orf41	0.411428881	0.030042782	3.347704725	
SLC9A10	-0.411233849	0.030121938	-3.345794712	
ATP5B	0.411246965	0.030121938	3.345923138	
SFRP1	-0.411266894	0.030121938	-3.346118287	
C2orf82	-0.411174434	0.030143472	-3.34521295	
SMAD1	0.411025854	0.030182086	3.343758347	
CDH23	-0.411055766	0.030182086	-3.344051163	yes
RSPRY1	0.411087808	0.030182086	3.344364839	
HMHA1	-0.410976589	0.030194787	-3.343276116	
DPF3	-0.410934771	0.030200937	-3.342866811	yes
CSGALNACT1	-0.410838791	0.03025501	-3.341927464	
PPP1R3F	-0.410795472	0.030262549	-3.341503541	
LOC100129572	-0.410725444	0.030293765	-3.340818316	
SSTR4	-0.410512242	0.030452188	-3.338732562	
COPG2	0.410471455	0.030457578	3.338333616	
CLDN4	0.410307829	0.030486744	3.336733404	
PAXIP1	0.410293768	0.030486744	3.33659591	
PMAIP1	0.410276233	0.030486744	3.33642445	

PRIM2	0.410335118	0.030486744	3.337000254	
SYP	-0.410265499	0.030486744	-3.336319488	
DIRC1	-0.410187335	0.030494848	-3.335555255	
NLRP12	-0.410210737	0.030494848	-3.335784058	
C16orf54	-0.410052352	0.030523002	-3.334235698	
KPNB1	0.410054918	0.030523002	3.334260776	
SKP2	0.410079896	0.030523002	3.334504936	yes
SNORD116-6	-0.409949844	0.030583713	-3.333233771	
RAPH1	0.409602967	0.030863614	3.329844502	
HAGH	-0.409468797	0.030934786	-3.32853401	
ZC3H12B	-0.409455179	0.030934786	-3.328401013	
DCUN1D5	0.409358076	0.030991393	3.327452759	
RHOJ	-0.40929023	0.031015402	-3.326790291	
GRHL2	0.409262914	0.031015402	3.32652359	
METTL6	0.408978722	0.031056181	3.323749483	
DSG2	0.409004287	0.031056181	3.323998985	
COQ2	0.409083981	0.031056181	3.324776821	
LMCD1	-0.409084941	0.031056181	-3.324786191	yes
HOXC4	-0.409052527	0.031056181	-3.324469806	
WDR33	0.408983687	0.031056181	3.323797937	yes
TOX	-0.409102711	0.031056181	-3.324959638	
COX7A1	-0.408867146	0.031096364	-3.322660663	
ARL6IP6	0.408866222	0.031096364	3.322651645	
CBX3	0.408726837	0.031136721	3.321291707	
MMP9	-0.408618191	0.031136721	-3.320231874	
MYO1F	-0.408622575	0.031136721	-3.32027464	
SYNJ2BP	0.408715716	0.031136721	3.321183216	
SPRR3	0.408743688	0.031136721	3.321456106	
BAG5	0.408646698	0.031136721	3.320509944	
TRIM13	0.408265496	0.031364788	3.316792522	
MAGEB3	-0.408280755	0.031364788	-3.316941286	
CD5	-0.40833149	0.031364788	-3.317435944	
ADFP	-0.408200471	0.031371368	-3.316158627	

KRT5	0.408190824	0.031371368	3.31606458	
KPNA2	0.407896712	0.031609189	3.31319819	
XRCC5	0.407760215	0.031642903	3.311868323	
ZBTB16	-0.407774607	0.031642903	-3.312008526	
RAB11A	0.407758987	0.031642903	3.311856356	yes
CCT4	0.407435446	0.031755266	3.308705222	
FBXO28	0.407470776	0.031755266	3.30904925	yes
MRS2	0.407533702	0.031755266	3.309662036	
CRISP2	-0.407466114	0.031755266	-3.309003852	
TMX1	0.407444055	0.031755266	3.308789047	
CASP3	0.407515226	0.031755266	3.309482103	
APOE	-0.407304033	0.031783961	-3.307425743	
PKN1	-0.407321671	0.031783961	-3.30759746	
ADAM12	-0.40732739	0.031783961	-3.307653143	
ZNF562	0.407119968	0.031922828	3.305634049	
ASCC3	0.406908612	0.03195447	3.303577305	
BAT2D1	0.406886124	0.03195447	3.303358503	
FPR1	-0.406938692	0.03195447	-3.303869974	
SAMM50	0.406993779	0.03195447	3.304406006	
TMEM40	0.406909289	0.03195447	3.303583885	
TJP1	0.407038128	0.03195447	3.304837577	
KCNH8	-0.406766889	0.032003375	-3.30219852	
PRLR	-0.40678257	0.032003375	-3.302351059	
EPS8	0.406558474	0.032043255	3.300171432	yes
BCL2L13	0.406633793	0.032043255	3.300903926	
CYP2S1	0.406630293	0.032043255	3.30086989	
HOXC12	-0.406624506	0.032043255	-3.300813601	yes
OXA1L	0.406582672	0.032043255	3.30040675	
PODXL2	-0.406370114	0.032187268	-3.298339933	
KCTD1	0.406321145	0.032200504	3.297863869	
SLC1A2	-0.406289962	0.032200504	-3.297560734	
PPFIA4	-0.406250054	0.032207005	-3.297172806	
MRPS27	0.406177371	0.032229099	3.296466338	

GRSF1	0.406160536	0.032229099	3.29630271	
PLS1	0.406089703	0.03226443	3.295614313	
DDX47	0.405999523	0.03231783	3.294737994	
GLCE	0.405947322	0.032335919	3.294230787	
PSMD14	0.405608885	0.032392389	3.290943327	
SLITRK5	-0.405609784	0.032392389	-3.290952056	
HMGB3	0.405783534	0.032392389	3.292639606	
NDUFA9	0.405592887	0.032392389	3.290787966	
PAX5	-0.405677456	0.032392389	-3.291609269	
AZGP1	-0.40568006	0.032392389	-3.291634565	
TAF1D	0.405691869	0.032392389	3.291749254	
MCART1	-0.405629585	0.032392389	-3.291144353	
KIAA0391	0.405807672	0.032392389	3.292874084	
UTP3	0.405449447	0.032495949	3.289395159	
RFC2	0.40519298	0.032705931	3.286905578	
VEZT	0.405149749	0.032711928	3.286486025	
USP46	0.405121637	0.032711928	3.286213207	yes
PPAT	0.405084985	0.032715887	3.285857533	
NUP188	0.405031191	0.032735992	3.285335539	
STRAP	0.404978535	0.032755058	3.284824631	
DAAM2	-0.404786268	0.032905828	-3.282959446	yes
ALDH1A2	-0.404726818	0.032931435	-3.282382829	
CMTM6	0.404670908	0.032953732	3.281840588	
GALNT5	0.404542069	0.033045144	3.280591224	
FLJ36031	-0.404473053	0.03307998	-3.279922056	
SLFN5	0.404320685	0.033093025	3.278444972	
GNAI1	0.404378322	0.033093025	3.279003682	
DTWD2	0.404266757	0.033093025	3.277922269	
NDUFB4	0.404266107	0.033093025	3.277915967	
KIAA1772	-0.404343234	0.033093025	-3.278663548	
CAPN2	0.40437751	0.033093025	3.278995806	
CNR2	-0.404091699	0.033228258	-3.276225753	
AP3S2	0.403885351	0.033394512	3.274226563	

SPI1	-0.403821429	0.033424964	-3.273607378	
DOCK9	0.403760627	0.033452472	3.273018473	
ZNF623	0.403524785	0.033648107	3.270734675	
CCDC110	-0.403441171	0.033683516	-3.269925177	
TXNRD1	0.403423964	0.033683516	3.269758602	
ENTPD5	0.403341841	0.033731833	3.268963654	
GSX1	-0.403274496	0.033750712	-3.268311828	
PKP1	0.403258364	0.033750712	3.2681557	
C6orf134	0.403205194	0.033771221	3.267641125	
REEP4	0.403160565	0.033783515	3.267209249	
EIF4A1	0.403102276	0.033809027	3.266645219	
SCO1	0.403036903	0.033841423	3.266012691	
SLC29A1	-0.402949714	0.033894972	-3.265169181	
SIRPB1	-0.402792507	0.033904145	-3.263648547	
POP1	0.402629889	0.033904145	3.262075939	
UHMK1	0.402652212	0.033904145	3.262291798	
EV1	0.402847235	0.033904145	3.26417788	yes
TUBGCP4	0.402735392	0.033904145	3.263096172	
GNG7	-0.402623404	0.033904145	-3.262013236	
ANXA2P1	0.402666153	0.033904145	3.262426598	
ITGAX	-0.402707681	0.033904145	-3.262828182	
PRMT6	0.402696112	0.033904145	3.262716306	
CCDC47	0.402769461	0.033904145	3.263425663	
TMEM87A	0.402496416	0.033905081	3.260785451	
HCCS	0.402555719	0.033905081	3.261358794	yes
C14orf129	0.402551093	0.033905081	3.261314066	
BTF3	0.402522379	0.033905081	3.26103646	
RASGRF1	-0.402400204	0.033937331	-3.259855385	
YEATS4	0.402412619	0.033937331	3.259975387	
LRRC8B	0.402336094	0.03396899	3.259235702	yes
CNKS2	-0.402277909	0.033994952	-3.258673352	
KNTC1	0.402190772	0.034049022	3.25783126	
PRRT2	-0.402101679	0.034105083	-3.256970383	

CEACAM5	0.402023281	0.034150838	3.256212939	
C21orf45	0.401984267	0.03415207	3.255836034	
TADA2L	0.401959457	0.03415207	3.255596362	
WDR21C	-0.401741384	0.034242802	-3.253490083	
ACCN5	-0.401779928	0.034242802	-3.253862315	
LOC100133423	-0.401798151	0.034242802	-3.254038307	
PUM1	0.40174753	0.034242802	3.25354944	
RNF182	-0.401640275	0.034311003	-3.252513733	
COCH	-0.401397256	0.034518286	-3.250167629	
HK3	-0.401330607	0.034547057	-3.249524347	
PCSK1	-0.401305696	0.034547057	-3.249283925	
IL27	-0.401252028	0.0345528	-3.248765989	
ERO1L	0.401237702	0.0345528	3.248627742	
HEY2	0.401200298	0.034559051	3.248266801	
EGLN3	-0.401077084	0.034588747	-3.247077942	
ALDH1L2	-0.40112514	0.034588747	-3.247541594	
RALA	0.401106429	0.034588747	3.247361068	
HSD17B14	-0.400952222	0.034650652	-3.245873399	yes
TMEM117	0.400961749	0.034650652	3.245965294	
UCK2	0.400887435	0.034683988	3.245248479	
SNORD8	-0.400657222	0.034880628	-3.243028384	
SNX31	0.400492474	0.035000546	3.24144006	
TBC1D24	-0.400474408	0.035000546	-3.24126591	
ATP13A5	0.400392458	0.035051271	3.240475993	
LIMS2	-0.400287197	0.035125257	-3.239461518	yes
ANKRD6	0.400207544	0.035143242	3.238693951	
ASS1	0.400223052	0.035143242	3.238843383	
ATAD2	0.400135109	0.03515414	3.237996003	
RQCD1	0.400142448	0.03515414	3.238066718	yes
MDS1	0.399923104	0.035334952	3.235953678	
LPO	-0.399755658	0.035441103	-3.234341032	
TMPO	0.399759024	0.035441103	3.234373445	
UPP2	-0.399650094	0.035495444	-3.233324562	

PKNOX2	-0.399640157	0.035495444	-3.233228893	
CSNK1G1	0.399584095	0.035520974	3.232689148	
LRRC25	-0.399474723	0.035569378	-3.231636272	
TIPARP	0.399477681	0.035569378	3.231664738	
UBE2A	0.39942986	0.035583755	3.231204444	
CRK	0.399385448	0.035597706	3.230776983	
EIF2S1	0.399328651	0.035622284	3.230230356	
CLEC7A	-0.399300005	0.035622284	-3.229954673	
ALG6	0.399251107	0.035640824	3.229484129	
ERN1	-0.399144471	0.035650422	-3.228458076	
NCBP2	0.399161117	0.035650422	3.22861823	
C14orf139	-0.399132648	0.035650422	-3.228344328	
C6orf25	-0.399119924	0.035650422	-3.228221904	
IL17RB	-0.399077143	0.035662926	-3.227810323	
LOC100127905	-0.398977369	0.035732858	-3.226850531	
TBRG1	0.398937749	0.035742237	3.226469446	
MBD2	0.398880631	0.035769287	3.225920077	
COL9A2	-0.398827147	0.035792704	-3.22540571	
GPSM2	0.39873463	0.035825043	3.224516036	
TBC1D4	-0.39875467	0.035825043	-3.224708741	yes
IGSF5	-0.398641355	0.035888772	-3.2236192	
APOD	-0.398589618	0.035910565	-3.223121795	
DDX21	0.398509069	0.035961564	3.222347464	
SCARF2	-0.39837774	0.036064171	-3.221085172	
HIST1H4G	-0.398226103	0.03618772	-3.219627982	
CENPO	0.398069329	0.036316895	3.218121749	
RPS24	0.397886641	0.036473042	3.216366972	
PADI4	-0.397773783	0.036496221	-3.215283161	
SIPA1L1	0.397804011	0.036496221	3.215573436	
CNOT7	0.397802729	0.036496221	3.21556112	yes
SLC22A17	-0.397710237	0.036499797	-3.214672982	yes
YTHDF1	0.397710267	0.036499797	3.214673278	
ADD3	0.397488641	0.036668706	3.212545625	

LMBR1	0.39748588	0.036668706	3.212519127	
LOC728060	-0.397454946	0.036669702	-3.212222206	
FRMD6	0.39738492	0.036682809	3.211550115	
LRRC26	-0.397352449	0.036682809	-3.211238488	
RAB5A	0.397379832	0.036682809	3.211501284	
EFNA2	-0.397217111	0.036791525	-3.209939799	
AGPAT9	0.397066242	0.036916606	3.208492365	
AGFG2	-0.396926024	0.037031008	-3.207147397	
LAD1	0.396793717	0.03710647	3.205878558	
SIM2	-0.396817853	0.03710647	-3.206110005	
TMEM217	-0.396676628	0.037197312	-3.204755854	
QPRT	-0.396590128	0.037256434	-3.203926574	
ZFYVE20	0.396519199	0.037275328	3.203246652	
SIGLEC10	-0.396512494	0.037275328	-3.203182377	
DDX3X	0.396459662	0.037299441	3.202675976	yes
SH2D6	-0.396417315	0.037312634	-3.202270108	
NAE1	0.396339298	0.037363127	3.201522425	
UNQ353	0.396088839	0.037470183	3.199122676	
INTS7	0.39609932	0.037470183	3.199223082	
METTL5	0.396115355	0.037470183	3.199376697	yes
PGF	-0.396199518	0.037470183	-3.200183029	yes
TMEM184C	0.396090735	0.037470183	3.199140839	
NAGA	0.395979494	0.037526736	3.198075266	
PAPSS2	-0.395975761	0.037526736	-3.198039513	
DHX9	0.395908037	0.037566808	3.197390865	
AGAP2	-0.395853634	0.037569402	-3.196869854	
SLC25A42	-0.395846556	0.037569402	-3.196802075	yes
AHNAK2	0.395734471	0.037603451	3.195728783	
PDCL2	-0.395712209	0.037603451	-3.195515627	
FOXC2	-0.39566697	0.037603451	-3.195082496	
PBRM1	0.395675634	0.037603451	3.195165449	yes
CBS	-0.39566829	0.037603451	-3.195095136	
PDZD8	0.395586304	0.037626503	3.194310245	

KIAA0564	0.395608762	0.037626503	3.194525233	
CPA4	0.395527381	0.037657125	3.193746196	
SLC4A1	-0.395498525	0.037657125	-3.19346999	
RMND1	0.395450964	0.037676333	3.193014763	
FAM96A	0.395358589	0.037742728	3.19213069	
MBOAT2	0.395321071	0.037751432	3.191771658	
ADAMTSL1	-0.39521501	0.037832406	-3.1907568	yes
HSPA4	0.395173412	0.037845469	3.190358802	
RPP14	0.395135625	0.037854534	3.189997287	
TRAK1	0.395100686	0.037860615	3.189663042	
NCKAP1	0.394894662	0.038047669	3.18769242	
OR9I1	-0.394770968	0.038147985	-3.186509562	
PDZD2	0.39472736	0.038163358	3.186092597	
C5orf43	0.394691217	0.038170823	3.18574703	
TNPO3	0.394504021	0.038186401	3.183957495	
SIGLEC8	-0.394555268	0.038186401	-3.184447354	
GPI	0.39457858	0.038186401	3.184670196	
IGBP1	0.394555548	0.038186401	3.18445003	
LOC401433	-0.394502282	0.038186401	-3.183940872	
CXCL5	-0.394601514	0.038186401	-3.184889442	
TRIM38	0.394364711	0.03830193	3.182626045	
ACHE	-0.394301366	0.038307725	-3.182020712	yes
ARHGAP11A	0.394303883	0.038307725	3.182044766	
ADAT1	0.394245531	0.038336401	3.181487195	yes
FBXO38	0.394167092	0.038389225	3.180737763	
WDR36	0.394083175	0.038447979	3.179936075	
SPTLC1	0.393878379	0.038482951	3.177979986	
G6PD	0.393848769	0.038482951	3.177697219	
CHDH	-0.393964151	0.038482951	-3.178799163	
RAN	0.393899727	0.038482951	3.178183861	
C12orf49	0.393869951	0.038482951	3.177899495	
WDR75	0.393927953	0.038482951	3.178453436	
POLR1C	0.39402092	0.038482951	3.179341387	yes

AQP11	-0.393740672	0.038544068	-3.176665011	
PSMA1	0.393734165	0.038544068	3.176602882	
MTMR9	0.393695693	0.03855453	3.176235554	
FAM107A	-0.393544791	0.038624056	-3.174794956	
GNL2	0.393547122	0.038624056	3.174817211	
LOC93432	-0.393548947	0.038624056	-3.174834627	
FPR2	-0.393247006	0.038851738	-3.171953024	
MUC4	0.393273494	0.038851738	3.172205762	
WNK2	-0.393267174	0.038851738	-3.17214546	
CPSF3	0.393190279	0.038882059	3.171411776	
TRUB1	0.393031882	0.038929775	3.169900698	
TLR8	-0.393058518	0.038929775	-3.17015478	
LYAR	0.393066676	0.038929775	3.1702326	
MED10	0.393095115	0.038929775	3.170503892	
MEFV	-0.392938435	0.038999875	-3.169009393	
PEX13	0.39290018	0.039010443	3.168644546	yes
SNORD115-32	-0.39267297	0.039223128	-3.16647799	
PIGV	0.39264683	0.039223128	3.166228776	
LDLRAD2	-0.392387804	0.039320123	-3.163759762	
CAPRIN1	0.39245969	0.039320123	3.164444885	
RPL34	0.392433276	0.039320123	3.164193134	
PAPOLG	0.392474937	0.039320123	3.164590209	
GAN	0.392500224	0.039320123	3.164831231	
RNF7	0.392387226	0.039320123	3.163754261	
SLC7A13	-0.392217839	0.039414098	-3.162140155	
KCNA6	-0.392215948	0.039414098	-3.162122141	
EVL	-0.392264606	0.039414098	-3.162585764	
LYZ	-0.392159339	0.039417023	-3.161582796	
FRMD5	-0.392156749	0.039417023	-3.161558125	
MTX2	0.392120551	0.039425704	3.161213264	
CHRNA9	-0.392068595	0.03945157	-3.160718324	
ZNF776	0.391969835	0.039467092	3.1597776	
PDE4B	-0.392010573	0.039467092	-3.16016563	

PANK3	0.391989866	0.039467092	3.159968396	
LMNB1	0.391864449	0.03952066	3.158773908	
LOC728844	0.391870337	0.03952066	3.15882998	
ECHDC1	0.391714514	0.039653743	3.157346186	yes
FAM118B	0.391618572	0.039728025	3.156432756	
GRAMD1B	0.391530137	0.039794201	3.155590914	
MST1R	0.3914266	0.039877082	3.154605434	
RPS6KA3	0.391380951	0.03989643	3.154170976	
CGREF1	-0.391254044	0.039991859	-3.152963327	
RAB32	-0.391238192	0.039991859	-3.152812493	
PSG3	-0.391139937	0.040038445	-3.151877667	
PSMD1	0.391153704	0.040038445	3.152008646	
HCK	-0.391079677	0.040043238	-3.151304397	
ACACA	0.391094362	0.040043238	3.151444096	
OPRL1	-0.391047921	0.040047458	-3.151002312	
LRPPRC	0.390811952	0.040048792	3.14875803	
GDF11	-0.390888158	0.040048792	-3.14948274	yes
CRYBG3	0.390951016	0.040048792	3.150080562	
ADK	0.390821952	0.040048792	3.148853126	
C1orf58	0.390868774	0.040048792	3.149298392	yes
C22orf37	-0.39079621	0.040048792	-3.148608331	
YTHDF3	0.390838162	0.040048792	3.149007276	
CXCR5	-0.390877344	0.040048792	-3.14937989	
C4BPA	-0.390919296	0.040048792	-3.149778881	
TIMM23	0.390665321	0.04008003	3.147363798	
POLS	0.390655155	0.04008003	3.147267146	
SGMS1	0.390601699	0.04008003	3.146758946	
IL1RN	0.390619383	0.04008003	3.146927062	
FIGN	-0.390603622	0.04008003	-3.146777226	
LANCL2	0.39070626	0.04008003	3.147753034	
C20orf94	0.390572752	0.040081482	3.146483762	
ATP1A1	0.39050229	0.04012872	3.145813972	
PM20D2	0.390451954	0.040153806	3.14533553	

ENHO	-0.390388432	0.040193482	-3.144731803	
TNFRSF19	-0.390321917	0.040236515	-3.144099682	
RAPGEF3	-0.39022912	0.040247796	-3.143217896	yes
SETD1B	-0.390257417	0.040247796	-3.143486769	yes
KRT15	0.390242798	0.040247796	3.14334786	
TRAM1L1	-0.390148502	0.040285361	-3.142451934	yes
GP2	-0.390140174	0.040285361	-3.142372808	
C3orf23	0.390064946	0.04033822	3.141658137	
SPERT	-0.390019727	0.040357902	-3.141228593	
TTC9C	0.389915895	0.040442598	3.14024237	yes
SNORD113-4	-0.389862951	0.040470929	-3.139739548	
JARID2	0.389744709	0.040571882	3.138616705	
XPO1	0.389712964	0.040576729	3.138315274	
GSTM4	0.389575125	0.040699785	3.137006629	
FAM116A	0.389341119	0.040738162	3.134785534	
OR2F1	-0.389371981	0.040738162	-3.13507842	
FAM162A	0.389396703	0.040738162	3.135313047	
FAM149B1	0.389322318	0.040738162	3.134607111	yes
QRICH1	0.389453821	0.040738162	3.135855166	
ANKS1B	-0.389325321	0.040738162	-3.134635613	
EFCAB4B	-0.38941578	0.040738162	-3.13549411	
PTER	0.389365382	0.040738162	3.135015797	
WTIP	-0.389141189	0.040910178	-3.132888439	yes
TRIM58	-0.389030235	0.040994876	-3.131835853	
PLRG1	0.389011192	0.040994876	3.131655212	
RICS	0.388949507	0.041033583	3.131070109	yes
PHF10	0.388839048	0.041127158	3.130022488	
LOC440563	-0.388749231	0.041197672	-3.129170756	
CYP26A1	0.388583462	0.041354047	3.12759905	
SLC9A8	0.388523339	0.041365973	3.127029101	
ENTPD7	0.388518643	0.041365973	3.126984583	
ECT2	0.388463097	0.0413675	3.126458059	
ASH2L	0.388486296	0.0413675	3.126677959	

ANKRD53	-0.38840587	0.041377469	-3.125915654	
TMPRSS5	-0.388382514	0.041377469	-3.125694291	
RNF8	0.388373115	0.041377469	3.125605205	
FRK	0.388335018	0.041389987	3.125244155	yes
DLG1	0.388278327	0.041409998	3.124706919	
TRIB3	-0.388263326	0.041409998	-3.124564765	
AKAP13	0.38821153	0.041412738	3.12407396	
SYPL1	0.388206985	0.041412738	3.124030896	
SLC7A7	-0.388131195	0.041467987	-3.123312802	
POLQ	0.388019441	0.04153421	3.122254086	
BDKRB1	0.387991991	0.04153421	3.121994067	
SPATA5L1	0.387998654	0.04153421	3.122057176	
CD40	-0.387944606	0.041557452	-3.121545221	
CCT5	0.387878025	0.041591934	3.120914606	
TLL2	-0.387860492	0.041591934	-3.120748551	
ATP10B	0.38772941	0.041710298	3.119507206	
KLHL5	0.387609747	0.041804481	3.118374202	
GGH	0.387593012	0.041804481	3.118215757	
NUP155	0.387543501	0.041830365	3.117747037	
TRAPPC6B	0.387499252	0.041850281	3.117328158	
PCGF3	0.38709382	0.042069328	3.113491356	
C12orf59	-0.387103585	0.042069328	-3.113583738	
WDR88	-0.387096211	0.042069328	-3.113513974	
HNRNPK	0.387212808	0.042069328	3.114617175	
TNC	0.387128401	0.042069328	3.113818527	
FADS3	-0.387141884	0.042069328	-3.113946098	yes
KREMEN1	0.387144565	0.042069328	3.113971462	
GGTLC1	-0.387258945	0.042069328	-3.115053761	yes
NALCN	-0.387033469	0.042107922	-3.112920408	
MRPS16	0.386971632	0.042148265	3.112335447	
DAGLB	0.386919769	0.042177217	3.111844878	
NUP98	0.386821642	0.042198325	3.110916784	
SLC1A1	0.386843293	0.042198325	3.111121557	

WDR59	0.386865058	0.042198325	3.111327398	
SMPDL3B	-0.38669604	0.042232972	-3.109729024	
MCM3	0.386745938	0.042232972	3.110200867	
ZDHHC7	0.386726015	0.042232972	3.110012469	
SLC30A6	0.386685373	0.042232972	3.109628162	
SAT2	-0.38650475	0.042318867	-3.107920475	
AGL	0.386535354	0.042318867	3.108209786	
NCOA5	0.386537638	0.042318867	3.108231379	
HSDL2	0.386518801	0.042318867	3.108053301	
C10orf25	-0.386394303	0.042385126	-3.10687646	
NGDN	0.386412297	0.042385126	3.107046548	
MRPL3	0.386271909	0.042470866	3.105719707	
PLAC9	-0.386267074	0.042470866	-3.105674014	yes
DNAJA2	0.38621409	0.042471196	3.105173323	
HOXB3	-0.386219507	0.042471196	-3.10522451	
KLHDC8A	-0.385986546	0.042612313	-3.103023476	
BRWD2	0.386014563	0.042612313	3.103288144	
PCDH10	-0.386038333	0.042612313	-3.1035127	
BEST1	-0.385993911	0.042612313	-3.10309305	
PPP1R3B	-0.385941172	0.042634387	-3.102594859	
TSC22D1	0.385906723	0.042643859	3.102269461	
FIGNL1	0.385657569	0.042902149	3.099916455	
USP30	0.385594599	0.04294484	3.099321894	
RNASE8	-0.385273899	0.042973273	-3.096294633	
SELM	-0.385482615	0.042973273	-3.098264666	yes
FRZB	-0.385226974	0.042973273	-3.095851798	
TIAM2	-0.385385387	0.042973273	-3.097346877	
GPT	-0.38525647	0.042973273	-3.096130151	
SLC10A5	0.385248557	0.042973273	3.096055472	
C3orf62	0.385152505	0.042973273	3.095149078	
KRT13	0.38545003	0.042973273	3.097957069	
LY9	-0.38521743	0.042973273	-3.095761731	
RNFT1	0.38529367	0.042973273	3.096481222	

RFWD3	0.385505627	0.042973273	3.0984819	
KIAA1217	0.38543151	0.042973273	3.097782241	
DNAJC7	0.385232764	0.042973273	3.095906437	
TLCD2	-0.385204003	0.042973273	-3.095635022	
UBXN8	0.385163499	0.042973273	3.095252818	
CLOCK	0.385281997	0.042973273	3.096371058	
TFG	0.384961795	0.043134785	3.09334979	
MRPS25	0.384987572	0.043134785	3.093592957	
CCT8	0.384893297	0.043148705	3.092703647	
PHGDH	-0.384900992	0.043148705	-3.092776226	
FNDC4	-0.384872069	0.043148705	-3.092503415	
PRB3	-0.384761903	0.043247027	-3.091464365	
SNORD116-15	-0.384717244	0.043255912	-3.091043202	
CEBPG	0.384593958	0.043255912	3.08988067	
GLT1D1	-0.384660454	0.043255912	-3.090507677	
CX3CR1	-0.384642897	0.043255912	-3.090342126	
NDUFB5	0.384547644	0.043255912	3.089444006	
C17orf85	0.384621081	0.043255912	3.09013641	
RCN2	0.384582372	0.043255912	3.089771437	
TM9SF4	0.384557719	0.043255912	3.089538991	
TXNDC17	0.384358514	0.043446986	3.08766108	
NQO1	0.384202061	0.043509724	3.086186551	yes
C6orf66	0.38423556	0.043509724	3.086502242	
NDUFS2	0.38424044	0.043509724	3.086548227	
PBX4	-0.384221033	0.043509724	-3.086365338	
LYPD3	0.384059495	0.043586621	3.08484317	
C10orf114	-0.384069923	0.043586621	-3.084941423	
KIAA1219	0.38409799	0.043586621	3.085205876	
SDCCAG1	0.384002217	0.043623774	3.08430352	
C14orf156	0.383976271	0.043624131	3.084059074	
UMPS	0.383904511	0.043678375	3.083383063	
CS	0.383725504	0.043804236	3.081697028	
TRIM59	0.383695265	0.043804236	3.08141225	

HIST1H2BF	0.38371741	0.043804236	3.081620804	
KLK4	-0.383767687	0.043804236	-3.082094307	
AP4E1	0.383607536	0.043826565	3.080586131	
ETNK2	0.383650448	0.043826565	3.080990208	
SNORA62	-0.383599692	0.043826565	-3.08051227	
IRAK4	0.383507449	0.043875203	3.079643756	
CNTNAP4	-0.383515007	0.043875203	-3.079714911	
C14orf132	-0.383474833	0.043883617	-3.079336679	
SMC4	0.383214936	0.043980348	3.076890306	
FMOD	-0.383239536	0.043980348	-3.077121828	
INO80E	-0.383288834	0.043980348	-3.077585812	
RTN2	-0.383255062	0.043980348	-3.07726795	
KLF9	-0.383232734	0.043980348	-3.077057805	
KIAA1755	-0.383334001	0.043980348	-3.07801094	
C15orf57	-0.383353989	0.043980348	-3.078199085	
CCL28	-0.383154444	0.044021878	-3.076321024	
DKC1	0.382998523	0.044038222	3.074853891	
RNF121	0.383068769	0.044038222	3.075514826	
SMAP1	0.383050835	0.044038222	3.075346083	
TBCE	0.382988699	0.044038222	3.074761464	
UNC5A	-0.382996422	0.044038222	-3.074834122	
DUOXA1	0.38302231	0.044038222	3.075077692	
ZNF782	0.382923319	0.044068048	3.074146371	
C3orf53	-0.382912965	0.044068048	-3.07404897	
CDKN2C	0.382724576	0.044100553	3.072276943	
TXNIP	0.382736989	0.044100553	3.072393686	
ZNF681	0.38264933	0.044100553	3.07156929	
ALAS1	0.382753055	0.044100553	3.072544789	
GLYATL2	-0.382704836	0.044100553	-3.072091289	
HSBP1	0.382633692	0.044100553	3.07142223	yes
APLP2	0.382625137	0.044100553	3.071341778	
CHMP1B	0.382608671	0.044100553	3.071186934	
BCAT1	-0.382751244	0.044100553	-3.072527756	

RBM3	0.382662576	0.044100553	3.071693856	
NCK2	0.38281163	0.044100553	3.073095733	
FAM19A5	-0.38246623	0.044239591	-3.069847613	
SLC35A5	0.382375443	0.044294209	3.068994111	
MAP4K3	0.382370081	0.044294209	3.068943706	
ZNF423	-0.382213254	0.044360112	-3.067469602	
PCSK5	0.382176034	0.044360112	3.067119795	yes
ODZ2	0.382282769	0.044360112	3.06812297	
XPO4	0.382164547	0.044360112	3.067011844	
L2HGDH	0.382190817	0.044360112	3.067258736	
MELK	0.382220899	0.044360112	3.067541453	
ITCH	0.382107173	0.044398647	3.066472665	
PGLYRP2	-0.381740532	0.044528186	-3.063028111	
FAM132B	-0.381516084	0.044528186	-3.060920284	
PPM1K	-0.381764746	0.044528186	-3.063255545	
KIAA2026	0.381847857	0.044528186	3.06403624	
CYTH4	-0.38159663	0.044528186	-3.061676625	
ZNF575	-0.38185857	0.044528186	-3.064136886	
tcag7.893	-0.381912097	0.044528186	-3.064639735	
LOC387763	-0.381533577	0.044528186	-3.061084537	
MFAP3	0.3816082	0.044528186	3.061785283	
MYO10	0.38166747	0.044528186	3.062341905	
C21orf91	0.381872813	0.044528186	3.064270678	
ACER3	0.381546924	0.044528186	3.061209867	
DIABLO	0.381770494	0.044528186	3.063309538	
PSMD12	0.381853549	0.044528186	3.064089715	
SOX1	-0.381671759	0.044528186	-3.062382184	
ACTN1	-0.381600143	0.044528186	-3.061709614	
DHRS3	0.381502054	0.044528186	3.060788544	
CYTH1	0.381736878	0.044528186	3.062993793	
ITM2B	0.381584999	0.044528186	3.061567402	
EIF4A3	0.381784548	0.044528186	3.063441545	
LOC100129278	-0.381444381	0.044567496	-3.060247041	

GADD45A	0.381361643	0.044607355	3.059470263	
MRPS18C	0.381380932	0.044607355	3.059651348	
PDS5A	0.381220158	0.044746848	3.05814215	
RPS4X	0.381108947	0.04485045	3.057098397	
BMP3	0.381036563	0.044907694	3.05641913	
PRR4	-0.380935035	0.044911534	-3.055466484	
MOCS3	0.38093825	0.044911534	3.055496649	yes
TRMT6	0.38097497	0.044911534	3.055841187	
SLC3A1	-0.380951004	0.044911534	-3.055616316	
ABHD1	-0.380865597	0.044965371	-3.054815014	
SLC9A4	0.380805102	0.044979096	3.054247502	
EXOSC9	0.380821833	0.044979096	3.05440445	
NGF	-0.380719661	0.045052265	-3.053446038	
IRS2	-0.380678454	0.045072346	-3.053059536	
LNX2	0.38047154	0.045247265	3.051119106	
GDF10	-0.380489373	0.045247265	-3.051286322	
TSPAN14	0.38045974	0.045247265	3.051008459	
ATP5H	0.380348703	0.045289953	3.049967402	
LCMT1	0.380310987	0.045289953	3.049613811	
PPP2R2D	0.380302216	0.045289953	3.049531592	
CUL3	0.380332412	0.045289953	3.049814666	
GOSR1	0.380333427	0.045289953	3.049824187	
ARL8B	0.380178634	0.045409758	3.048373161	
SCGB3A1	-0.380088886	0.045488855	-3.047532004	
DECR1	0.380027789	0.045513628	3.046959435	
SEP2	0.38001105	0.045513628	3.046802571	
REPS1	0.379995361	0.045513628	3.046655549	
NAALAD2	-0.379683609	0.045624422	-3.043734824	
ALDH1L1	-0.379761285	0.045624422	-3.044462437	
PHB2	0.379618339	0.045624422	3.043123478	
SULT1C4	-0.379798344	0.045624422	-3.044809606	
RBPMS2	-0.37965136	0.045624422	-3.043432756	
OR4N5	-0.379734054	0.045624422	-3.044207347	

ATP8B1	0.379699968	0.045624422	3.043888053	
MEIS3	-0.379612867	0.045624422	-3.043072222	
PALB2	0.379719879	0.045624422	3.044074565	
RPAIN	0.379664466	0.045624422	3.043555511	
CASK	0.379691975	0.045624422	3.043813187	
TBKBP1	-0.37965827	0.045624422	-3.043497478	
FAM55B	-0.379373731	0.045709622	-3.040832848	
SHISA4	-0.379431865	0.045709622	-3.041377179	
PPHLN1	0.379398996	0.045709622	3.041069409	
POU3F3	-0.379383987	0.045709622	-3.040928874	
PTCD3	0.3794532	0.045709622	3.041576957	
CCAR1	0.379381036	0.045709622	3.040901244	
FGD3	-0.379450757	0.045709622	-3.041554078	
PRMT3	0.379233072	0.045731812	3.03951599	
SLMO1	-0.379243159	0.045731812	-3.039610412	
PART1	-0.379269636	0.045731812	-3.039858276	
MR1	0.379211174	0.045731812	3.039311001	
BXDC1	0.37926424	0.045731812	3.03980776	
ZBTB24	0.37929829	0.045731812	3.04012653	
HSPA9	0.379178222	0.045742682	3.03900254	
ETFDH	0.379124791	0.045749325	3.038502415	
HLX	-0.379139344	0.045749325	-3.038638637	
FLJ43826	-0.379027276	0.045837149	-3.03758975	
ITGB3	-0.379004607	0.045837149	-3.037377601	
MKRN2	0.378888367	0.045905278	3.036289867	
TMBIM6	0.378883503	0.045905278	3.036244356	
TSPAN10	-0.378876835	0.045905278	-3.036181967	
ATP2B4	0.378793336	0.045977881	3.035400725	
ARPP-21	-0.378629843	0.046144775	-3.033871299	yes
FYTTD1	0.378608861	0.046144775	3.033675035	yes
RAET1L	0.378505737	0.04615676	3.032710542	
ATP1B3	0.378455994	0.04615676	3.032245352	
TXNL4B	0.378525937	0.04615676	3.03289945	

RSAD1	-0.378466535	0.04615676	-3.032343926
TMEM159	0.37846304	0.04615676	3.032311243
NCOA4	0.378500647	0.04615676	3.032662935
PTPN3	0.378428807	0.046160903	3.031991116
MED14	0.378395903	0.046172053	3.031683422
ADNP	0.378347821	0.046201784	3.03123383
ZNF271	0.378308538	0.046220775	3.030866535
C4orf36	0.378154832	0.046306797	3.029429577
TM4SF1	0.378153027	0.046306797	3.029412704
AVPR1A	-0.378143363	0.046306797	-3.029322365
HHIPL2	-0.378149555	0.046306797	-3.029380248
GALNT1	0.378092023	0.046311638	3.028842466
THSD7B	-0.378100181	0.046311638	-3.02891872
SIAH3	-0.378035729	0.046315903	-3.028316303
MNX1	-0.378017554	0.046315903	-3.028146443
DYNC1LI1	0.378064672	0.046315903	3.028586828
MID1	0.377962094	0.046354904	3.027628119
PEX1	0.377915796	0.046382704	3.027195456
TTC17	0.377842644	0.046414521	3.026511891
DUSP11	0.377845668	0.046414521	3.026540151
NUP93	0.377793351	0.046446067	3.026051317
SPRR1A	0.377723233	0.046503231	3.025396212
BIRC6	0.377599369	0.046626626	3.024239104
DPYSL4	-0.377440523	0.046633773	-3.022755487
SLC35F3	-0.377502109	0.046633773	-3.023330657
TIGD1	0.377389851	0.046633773	3.022282279
IL1F8	-0.377419304	0.046633773	-3.022557321
PURG	-0.377482846	0.046633773	-3.023150748
ATP6V1B1	-0.377431311	0.046633773	-3.022669456
PSEN1	0.377448742	0.046633773	3.02283224
MKL2	0.377381956	0.046633773	3.022208549
SLC13A2	-0.377419147	0.046633773	-3.022555856
LYN	0.377328273	0.046671006	3.021707261

GDI2	0.377228732	0.046678233	3.020777847	
C1orf107	0.377250515	0.046678233	3.020981219	
ERBB2IP	0.3772501	0.046678233	3.020977344	
CPNE3	0.37725253	0.046678233	3.021000039	
SLC25A5	0.377106099	0.04680061	3.019632985	
MAP1LC3A	-0.377045551	0.046846509	-3.019067798	
HIST1H2BA	-0.376961168	0.046921935	-3.018280203	
ISY1	0.376915961	0.046948964	3.017858293	
XPO5	0.376837854	0.047016772	3.017129391	
MESP2	-0.376802538	0.04702748	-3.016799843	
TPSG1	-0.376703001	0.04702748	-3.015871109	
IL8	0.376750868	0.04702748	3.016317725	
INHBA	-0.376722165	0.04702748	-3.016049912	
PLXNA2	0.376761334	0.04702748	3.016415375	
RPL6	0.376689343	0.04702748	3.015743681	
ALPK1	0.376591869	0.047119485	3.014834329	yes
GRAMD2	-0.376513082	0.047130706	-3.014099406	
KRT4	0.376513426	0.047130706	3.014102609	
FAM55D	-0.376543834	0.047130706	-3.014386254	
SNORD115-38	-0.376266738	0.047231051	-3.011801975	
ADCYAP1R1	-0.376261518	0.047231051	-3.011753305	
TCEAL2	-0.376292211	0.047231051	-3.012039509	
MGST2	0.376310873	0.047231051	3.012213532	
TMEM41B	0.376265695	0.047231051	3.011792252	
TTYH1	-0.376248026	0.047231051	-3.011627499	yes
TRIP4	0.376246812	0.047231051	3.011616181	yes
HTRA3	-0.376337241	0.047231051	-3.012459413	
GNAI3	0.376136258	0.047306149	3.010585414	
IRF6	0.376141144	0.047306149	3.010630959	
OCLN	0.376070872	0.047306149	3.009975847	
ORC2L	0.376104119	0.047306149	3.010285788	
SETDB1	0.376080304	0.047306149	3.010063768	
CSTA	0.376007574	0.047356206	3.00938579	

TXNDC9	0.375796718	0.047532872	3.007420592
ATP5S	0.375822085	0.047532872	3.007656988
PDZRN4	-0.375814151	0.047532872	-3.007583047
MCM8	0.375705079	0.047618603	3.006566681
HBQ1	-0.375525548	0.047699726	-3.004894061
MTAP	0.375547332	0.047699726	3.005096995
PPP3CC	0.375554389	0.047699726	3.005162729
TMEM121	-0.375564452	0.047699726	-3.00525648
ATO8	-0.375525225	0.047699726	-3.00489105
SLC25A24	0.375493261	0.047710986	3.004593299
USP28	0.375416875	0.047731388	3.003881783
MED22	-0.375408127	0.047731388	-3.00380031
SLC35B4	0.375440651	0.047731388	3.004103242
F13A1	-0.375314199	0.047798187	-3.002925509
ASPM	0.37528608	0.047798187	3.002663643
KRTAP19-6	-0.375308599	0.047798187	-3.00287336
C20orf166	-0.375199197	0.04787847	-3.001854589
LOC100128003	-0.375118524	0.047893608	-3.001103438
CPNE2	0.375135663	0.047893608	3.001263014
MB	-0.375153481	0.047893608	-3.001428916
SLC25A13	0.375013521	0.047918283	3.000125871
ECH1	0.37500837	0.047918283	3.000077921
ISLR2	-0.374961407	0.047918283	-2.999640748
RPE	0.374916417	0.047918283	2.999221964
MRPL44	0.375006108	0.047918283	3.000056862
LOC728115	0.374925468	0.047918283	2.999306207
FAM57A	0.375031491	0.047918283	3.000293162
THUMPD2	0.374919168	0.047918283	2.999247567
EGF	-0.374868462	0.047921372	-2.998775609
OPN3	0.374879438	0.047921372	2.998877769
HRH2	-0.374837398	0.047931835	-2.998486481
POLB	0.374760123	0.04800037	2.997767315
HEMGN	-0.37469324	0.048055921	-2.997144912

CASP14	-0.374668929	0.048057946	-2.996918699	
ELK4	0.3746139	0.048091638	2.996406664	
FAM101B	-0.37457807	0.048091638	-2.996073297	yes
C20orf24	0.374557802	0.048091638	2.995884728	
VKORC1	-0.374551464	0.048091638	-2.995825767	
HARS	0.374527892	0.048092807	2.995606457	
OAT	0.374485749	0.048117365	2.995214401	
SMCR7L	0.374406092	0.048189216	2.994473403	
EXOC5	0.374335706	0.0481904	2.993818708	
PCNA	0.374314767	0.0481904	2.993623965	
INTS2	0.374352962	0.0481904	2.993979209	
CPNE5	-0.374328764	0.0481904	-2.993754147	
PDLIM5	0.37424712	0.048247238	2.992994821	
MYO1B	0.374192422	0.048267822	2.992486155	
SNORA60	-0.374185699	0.048267822	-2.992423633	
BIN2	-0.374095581	0.048296271	-2.991585655	
ELOVL6	0.3741321	0.048296271	2.991925226	
C10orf76	0.374095753	0.048296271	2.991587261	
RAB39B	-0.373954779	0.048360487	-2.990276592	
STK35	0.373964247	0.048360487	2.990364609	
SCN1B	-0.373968709	0.048360487	-2.990406092	
CDA	-0.374020944	0.048360487	-2.99089171	
CLU	-0.373891137	0.048381199	-2.989684972	
PHACTR1	-0.37387104	0.048381199	-2.989498165	
SPRED3	-0.373910385	0.048381199	-2.989863896	
CREB1	0.373732379	0.048521004	2.988209372	
FCN1	-0.373699353	0.048521004	-2.987902448	
TGFBRAP1	0.373693269	0.048521004	2.987845906	
CCDC99	0.373641885	0.048557724	2.987368396	
CCDC141	-0.373584667	0.048576098	-2.986836715	yes
KPRP	-0.373582619	0.048576098	-2.986817683	
DGKG	-0.373493636	0.048608291	-2.98599091	yes
STRN	0.373503444	0.048608291	2.98608204	

C4orf29	0.373490155	0.048608291	2.985958575	
C11orf80	0.373446813	0.048634934	2.985555903	
REN	-0.373347237	0.048733007	-2.984630882	yes
NOL11	0.373247522	0.048814805	2.98370468	
IFNE	0.373200655	0.048814805	2.983269405	
C13orf36	-0.373175576	0.048814805	-2.98303649	
DUOX1	0.373216092	0.048814805	2.983412772	
LONRF3	-0.373171411	0.048814805	-2.982997816	
FLT3LG	-0.373112475	0.04886147	-2.982450505	
ALPL	0.37308686	0.048865746	2.982212641	
FLJ46210	-0.373042858	0.048893449	-2.981804055	
OR56A4	-0.372850369	0.04908524	-2.98001695	
HS3ST2	-0.372848054	0.04908524	-2.979995459	
SNORD115-7	-0.372383929	0.049094026	-2.975688279	
CNIH	0.372609461	0.049094026	2.977780938	
RAMP1	-0.372411057	0.049094026	-2.975939967	yes
RPP40	0.372787098	0.049094026	2.97942963	yes
UTS2	-0.372484027	0.049094026	-2.976616989	
CHRNA1	-0.372437149	0.049094026	-2.976182041	
TTC9B	-0.372678543	0.049094026	-2.978422064	
FGF3	-0.372467943	0.049094026	-2.976467755	
C10orf12	0.372409304	0.049094026	2.975923699	
GHITM	0.372700619	0.049094026	2.978626953	
BHLHE22	-0.372486658	0.049094026	-2.976641408	
TAX1BP3	0.372453115	0.049094026	2.976330176	
CYHR1	-0.372436893	0.049094026	-2.976179669	
AGPAT4	-0.372690767	0.049094026	-2.978535511	
SSFA2	0.372446795	0.049094026	2.97627154	
VAMP2	-0.372625071	0.049094026	-2.977925808	
LAT2	-0.372598657	0.049094026	-2.97768068	
WHSC1	0.372376844	0.049094026	2.975622555	
ZNF12	0.372619147	0.049094026	2.97787083	
STON2	0.372497887	0.049094026	2.9767456	

PTCH2	-0.372434809	0.049094026	-2.976160337	
FMNL1	-0.372320253	0.049138202	-2.975097558	
RASD1	-0.372278139	0.049163922	-2.974706888	
NUP107	0.372255943	0.04916421	2.974501005	
SEMA3G	-0.372137925	0.049287062	-2.973406365	yes
YEATS2	0.372089172	0.049321381	2.972954223	
REG1B	-0.371982496	0.049430021	-2.971964995	
ZNF326	0.371938298	0.049458594	2.97155517	
PIWIL4	-0.371785569	0.049507288	-2.970139204	
ABCA3	-0.371768957	0.049507288	-2.96998521	
PIGF	0.371832781	0.049507288	2.970576883	yes
BTBD1	0.371834085	0.049507288	2.970588972	yes
SP3	0.371806495	0.049507288	2.970333195	
COPS2	0.37179138	0.049507288	2.970193071	
COL4A3	-0.371704209	0.049562396	-2.969385018	
FCGR2A	-0.371663933	0.049571173	-2.969011696	
GEMIN7	0.371653675	0.049571173	2.968916616	
RAP1GDS1	0.371576604	0.049586075	2.968202311	
EIF3D	0.371613395	0.049586075	2.968543293	
MED13	0.37158611	0.049586075	2.968290408	
TRAF5	-0.371546686	0.049596506	-2.967925047	
PAK1	0.371454141	0.049687558	2.967067449	
ZNF300	0.371379904	0.049755147	2.966379588	
KLHL12	0.371331148	0.049789938	2.965927855	
GPR37L1	-0.371299033	0.049803281	-2.965630322	
MYL9	-0.371218139	0.049869443	-2.964880929	
CCDC155	-0.371204268	0.049869443	-2.964752443	
CLDND1	0.371131856	0.049934925	2.9640817	
HS3ST1	0.371074291	0.049981271	2.963548529	
DNM1L	0.370990278	0.049994795	2.962770465	
DSCR3	0.370884862	0.049994795	2.961794309	
EP300	0.370824195	0.049994795	2.961232587	
RPIA	0.370903993	0.049994795	2.961971451	

IFNA7	-0.370764737	0.049994795	-2.960682109	
NMT1	0.370866803	0.049994795	2.961627091	
PHF20L1	0.370909109	0.049994795	2.962018825	
ATP6V1H	0.370904406	0.049994795	2.961975281	
SAPS3	0.370891667	0.049994795	2.961857321	yes
PRPF40A	0.371027456	0.049994795	2.963114774	
RPL4P4	0.370893806	0.049994795	2.961877127	
MAK16	0.370739494	0.049994795	2.960448413	
C13orf33	-0.37073902	0.049994795	-2.960444018	
TCEAL3	-0.370819327	0.049994795	-2.961187518	
MDC1	-0.370774257	0.049994795	-2.960770243	
KIAA0146	0.370629731	0.050024633	2.959432323	
TBC1D7	0.370645683	0.050024633	2.959579989	
PNOC	-0.370671393	0.050024633	-2.959817977	
RBM18	0.370649712	0.050024633	2.959617284	
LOC120824	-0.370514249	0.050092891	-2.958363464	
C11orf92	0.370490924	0.050092891	2.958147594	
C6orf115	0.370548363	0.050092891	2.958679196	
hCG_18290	0.37049108	0.050092891	2.95814903	
SNTA1	-0.370441245	0.050129396	-2.957687837	yes
NIT2	0.370397813	0.050157836	2.957285923	
C5orf30	0.370374894	0.05015971	2.957073847	
CHML	0.370090371	0.050210422	2.954441529	
CDCA2	0.370229702	0.050210422	2.955730452	
XIRP1	-0.370062246	0.050210422	-2.954181382	
OR4C6	-0.370087871	0.050210422	-2.954418412	
C6orf123	-0.370036224	0.050210422	-2.953940688	
SOX8	-0.370102231	0.050210422	-2.954551235	
APLP1	-0.370223263	0.050210422	-2.955670883	
GEN1	0.370079561	0.050210422	2.954341541	
KCNA10	-0.370053258	0.050210422	-2.954098245	
NACA	0.370136604	0.050210422	2.954869203	
PLTP	-0.370117088	0.050210422	-2.954688666	

RPS3	0.370193845	0.050210422	2.95539873	
VHL	0.370174279	0.050210422	2.955217724	
TBCKL	0.370062737	0.050210422	2.954185921	
SLC35A4	0.370010325	0.050216357	2.953701146	
PYDC2	-0.369985113	0.050221415	-2.953467964	
AK2	0.369898529	0.050293035	2.95266722	
ARHGEF12	0.369885398	0.050293035	2.952545787	
TFEB	-0.369866007	0.050293035	-2.95236647	
CPN2	-0.369696476	0.05043036	-2.950798944	
LOC100133422	0.369704202	0.05043036	2.950870365	yes
S100A14	0.369715068	0.05043036	2.950970828	
ZBTB32	-0.369570929	0.050455595	-2.949638318	
FRRS1	0.369572218	0.050455595	2.94965023	
C12orf11	0.369580429	0.050455595	2.949726131	
COIL	0.369637408	0.050455595	2.950252859	
CACNA1H	-0.369612749	0.050455595	-2.950024899	
CLEC17A	-0.369430289	0.050583485	-2.948338382	
OR52E4	-0.369445375	0.050583485	-2.948477814	
ZNF18	0.369342985	0.050669704	2.947531553	
LIN37	-0.369310214	0.050684833	-2.947228719	
CHRM3	-0.369286089	0.05068869	-2.947005794	
APC2	-0.369168725	0.050796533	-2.945921382	
ILF3	0.36915734	0.050796533	2.945816201	
RPL10P13	-0.369140079	0.050796533	-2.945656727	
AEBP2	0.369069017	0.050834198	2.945000238	
CCDC129	-0.36908931	0.050834198	-2.945187709	
C10orf53	-0.369042532	0.050841222	-2.944755575	
CCNB1	0.368970746	0.050907553	2.944092485	
FOXO3	-0.368948218	0.050909424	-2.943884402	
IGFBPL1	-0.368916022	0.05092397	-2.943587032	
MATN1	-0.36888783	0.050933285	-2.943326656	
ITPRIPL1	-0.368825172	0.050987783	-2.942747988	
CYP2C9	0.368720344	0.051014398	2.941779977	

EGFR	0.368737615	0.051014398	2.941939447	
WDR51B	0.368740516	0.051014398	2.941966233	yes
RAF1	0.368752162	0.051014398	2.942073775	
SPRR1B	0.368699655	0.051014398	2.94158894	
EFHD1	-0.368676255	0.051017527	-2.941372877	
GTF2A2	0.368642217	0.051034618	2.941058609	
TRPV2	-0.368616197	0.051041209	-2.940818372	yes
EFR3A	0.368566016	0.051051989	2.940355094	
TMEM200B	-0.368579304	0.051051989	-2.94047777	
MYO19	0.368519613	0.051085361	2.939926716	
INHBB	-0.368469719	0.051123344	-2.939466145	
DGKA	0.368396692	0.051172822	2.938792081	
PRIM1	0.368369227	0.051172822	2.938538584	
ARNT2	-0.368380069	0.051172822	-2.938638658	
STAMBP	0.368038275	0.051237267	2.935484687	
WDR3	0.368023198	0.051237267	2.935345591	
DOCK3	-0.368156413	0.051237267	-2.936574673	
TMEM130	-0.368088272	0.051237267	-2.935945957	
C10orf28	0.367991974	0.051237267	2.935057543	
HADHB	0.368277636	0.051237267	2.937693293	
KCNA4	-0.36817631	0.051237267	-2.936758264	
MAB21L1	-0.368202779	0.051237267	-2.937002501	
RBM22	0.367969364	0.051237267	2.934848963	
NXF4	-0.36821623	0.051237267	-2.937126627	
ZNF250	0.368183067	0.051237267	2.936820616	
GUF1	0.368109292	0.051237267	2.936139893	
USP7	0.367965809	0.051237267	2.934816169	
SMC6	0.368021621	0.051237267	2.935331044	
ZNF394	0.368104496	0.051237267	2.936095647	
UBE4A	0.368108626	0.051237267	2.936133753	
MED17	0.368179535	0.051237267	2.936788021	
SLC26A10	-0.367870686	0.051259014	-2.933938733	yes
UGDH	0.367845558	0.051259014	2.93370696	

RAE1	0.367900176	0.051259014	2.934210739	
C3orf39	-0.367914816	0.051259014	-2.934345784	
NFE2L3	0.36786391	0.051259014	2.933876234	
ETS2	0.36778934	0.051293342	2.933188457	
NPAS3	-0.367778024	0.051293342	-2.933084099	
CYB5R4	0.367745197	0.051309294	2.932781352	
MARK2	0.367668305	0.051383243	2.932072277	
ZMYM2	0.367636979	0.051397261	2.931783412	
CIDECF	-0.367599173	0.051418613	-2.931434811	
PGAP1	0.367558782	0.051418613	2.931062398	
TMEM164	0.367568101	0.051418613	2.931148317	
SULF2	0.367513476	0.051451101	2.930644687	
LOC285943	-0.367488135	0.051457303	-2.930411058	
KCNN3	-0.36739504	0.051471337	-2.92955285	
TRIM33	0.367432612	0.051471337	2.929899197	
MUC5B	-0.367399617	0.051471337	-2.929595045	
DENR	0.367400204	0.051471337	2.929600448	
SDC4	0.367281157	0.051570614	2.928503139	
NOC3L	0.367278584	0.051570614	2.928479429	
LRRC1	0.367254477	0.051575278	2.928257245	
HOXC9	-0.36722125	0.051591992	-2.927951009	
ADAP2	-0.367181079	0.051613502	-2.927580803	
S100A3	0.367152513	0.051613502	2.927317559	
TP53BP2	0.367143318	0.051613502	2.92723282	
NEBL	0.367100691	0.051642684	2.926840016	yes
PAPOLB	-0.36685471	0.051941216	-2.924573743	
ZFP36L1	0.366816456	0.051964754	2.924221363	
C19orf29OS	-0.366772974	0.051995256	-2.923820854	
DUOX2	0.366663237	0.052113907	2.92281016	
CD19	-0.366641468	0.052115591	-2.922609677	
CLCN4	-0.366594192	0.052146486	-2.922174313	
GIMAP1	-0.366577279	0.052146486	-2.922018571	
HPD	-0.366524082	0.052190067	-2.92152872	

VPS36	0.366501185	0.052193301	2.921317887	
FAM163A	-0.366427762	0.052263906	-2.920641871	
TSPAN15	0.36639902	0.052274961	2.920377253	
C1QTNF3	-0.366375197	0.052279466	-2.920157931	
OCIAD2	0.366295041	0.052321811	2.91942004	
ZNF580	-0.366265927	0.052321811	-2.919152046	
RNF43	0.366300489	0.052321811	2.919470189	
C20orf11	0.366261769	0.052321811	2.919113768	
LSG1	0.366209236	0.05236471	2.918630227	
GABRB1	-0.366167201	0.052371215	-2.918243337	
ABHD5	0.366158197	0.052371215	2.918160472	
SS18	0.36614321	0.052371215	2.91802254	yes
VTCN1	0.366090018	0.052415067	2.917533002	
POLA2	0.365981298	0.052512254	2.91653254	
FRG1	0.36595629	0.052512254	2.916302433	
CYP26B1	-0.365975341	0.052512254	-2.91647773	
MAP2K4	0.365917134	0.052537445	2.915942159	
TARDBP	0.365671763	0.052815353	2.913684901	
C3orf52	0.365669362	0.052815353	2.913662814	yes
MYCN	-0.365522169	0.052827251	-2.912309071	
PTBP1	0.365525663	0.052827251	2.912341201	
PRM3	-0.365544761	0.052827251	-2.912516838	
LOC646508	-0.365518447	0.052827251	-2.912274846	
TRPM8	-0.365615756	0.052827251	-2.913169773	
TRIP12	0.365590286	0.052827251	2.912935515	
STXBP5L	-0.365602572	0.052827251	-2.913048513	
RANBP9	0.365475091	0.052829521	2.911876148	
GPR115	0.36545601	0.052829521	2.91170069	
NUP88	0.36549265	0.052829521	2.91203762	
C12orf69	-0.36541189	0.052834449	-2.911294998	
TCF4	0.365426474	0.052834449	2.911429092	
EDA2R	-0.365388821	0.052838289	-2.911082881	
ZNF207	0.365355597	0.052855792	2.910777404	

MERTK	-0.365332364	0.052859876	-2.910563793	
SERPINB2	0.365287845	0.052892598	2.910154503	
CYP46A1	-0.365188506	0.05289926	-2.909241284	
CSNK1G3	0.365069578	0.05289926	2.908148149	
LIPH	0.365105198	0.05289926	2.908475531	
SNORD4A	0.365045453	0.05289926	2.90792642	
RTL1	-0.365188354	0.05289926	-2.909239887	
MTF1	0.36504482	0.05289926	2.907920604	yes
ADAMTSL4	-0.365072155	0.05289926	-2.908171827	
TEX10	0.365021263	0.05289926	2.907704099	
BARD1	0.365183761	0.05289926	2.909197668	
PLEKHF2	0.365028335	0.05289926	2.907769097	
C21orf67	-0.365248474	0.05289926	-2.909792554	
FAM105B	0.365055904	0.05289926	2.908022466	
CKAP5	0.365172806	0.05289926	2.909096974	
PMPCB	0.364937909	0.052984397	2.906938083	
CA1	-0.364876127	0.053040586	-2.906370364	
SH2D3C	-0.364655531	0.053161171	-2.904343663	
SORBS3	-0.364700066	0.053161171	-2.904752772	
EXT1	0.364727899	0.053161171	2.90500847	
GSTP1	0.364626513	0.053161171	2.904077099	
RNF138	0.364663977	0.053161171	2.904421242	
NOP58	0.364705353	0.053161171	2.904801341	
VIT	-0.364757049	0.053161171	-2.905276276	
MRPL45	0.364643307	0.053161171	2.904231368	
PCDHGA4	-0.364511405	0.05328965	-2.903019815	
RALYL	-0.364406262	0.053350815	-2.9020542	
C3orf14	0.364433735	0.053350815	2.902306499	
KALRN	-0.364422589	0.053350815	-2.902204133	
CSF2RB	-0.364285724	0.053465699	-2.900947353	
GARNL1	0.364271188	0.053465699	2.900813889	
RABIF	0.364261581	0.053465699	2.900725678	
DDX10	0.364124637	0.053587729	2.899468427	

HPGD	0.364111845	0.053587729	2.899350994	
VIP	-0.364135474	0.053587729	-2.899567908	
P2RX2	-0.364037611	0.05366153	-2.898669575	
HCRP1	-0.364016726	0.053662856	-2.898477872	
EIF3A	0.363973821	0.053694135	2.898084064	
C20orf79	-0.363936881	0.053717322	-2.897745027	
HORMAD1	0.36390903	0.053728158	2.897489424	
LOC100128576	0.363834705	0.053739066	2.89680734	
AFF4	0.363845493	0.053739066	2.896906333	
FLJ44817	-0.363847593	0.053739066	-2.89692561	
MAT2A	0.363821552	0.053739066	2.896686639	
IGSF21	-0.363778281	0.053770948	-2.896289571	
FOXP3	-0.363637533	0.053935744	-2.894998189	
OSR1	-0.363585933	0.05397911	-2.894524801	
FANCD2	0.363560524	0.053986731	2.894291714	
HRH4	-0.363507535	0.054032046	-2.893805631	
GP1BA	-0.363460692	0.054068995	-2.893375965	
ESM1	-0.363334906	0.054214074	-2.892222307	
VAX1	-0.363294789	0.054233861	-2.891854405	
AWAT1	-0.363162278	0.054233861	-2.890639321	
C9orf47	-0.363200962	0.054233861	-2.890994019	
ATF1	0.363174741	0.054233861	2.890753601	
PLAC8	0.363208022	0.054233861	2.891058759	yes
MRPS22	0.363239858	0.054233861	2.89135068	
SAT1	0.363170657	0.054233861	2.890716154	yes
COLEC12	-0.363203252	0.054233861	-2.891015019	
SSBP4	-0.363107767	0.054255405	-2.890139533	
EMP2	0.363094337	0.054255405	2.890016405	
ANKRD1	-0.363079679	0.054255405	-2.889882017	
GNA15	0.363047963	0.054255405	2.889591256	
CLEC12B	-0.363049278	0.054255405	-2.889603313	
LEPREL2	-0.362985975	0.054259425	-2.889023001	
MTIF2	0.362989556	0.054259425	2.889055831	

WNK4	-0.363002654	0.054259425	-2.889175892
IDE	0.362931134	0.054307636	2.888520301
CYP26C1	-0.362889271	0.054311132	-2.888136577
C6orf106	0.362907727	0.054311132	2.888305742
ALDH3A2	0.36283056	0.054364715	2.887598472
STIL	0.36276758	0.054424214	2.887021278
UGT2A1	0.362744035	0.054429588	2.886805509
OR1M1	-0.362709082	0.054450646	-2.886485196
CST11	-0.362673182	0.05447302	-2.886156227
ZBTB5	0.362650158	0.054477712	2.885945263
SLC38A9	0.362553386	0.054533738	2.885058586
MORC3	0.362575317	0.054533738	2.885259525
ING3	0.362550626	0.054533738	2.885033302
CNTFR	-0.362345839	0.054600311	-2.883157313
CSNK2A2	0.36239077	0.054600311	2.883568873
CD300LF	-0.362428785	0.054600311	-2.883917098
CLIP3	-0.362424205	0.054600311	-2.883875144
C5orf51	0.362425524	0.054600311	2.88388723
ROR1	-0.362403034	0.054600311	-2.883681211
TMX3	0.362378013	0.054600311	2.883452016
MOBK1B	0.362365263	0.054600311	2.883335229
BEST3	-0.362315183	0.054615646	-2.882876527
SLC9A2	0.362289739	0.05462382	2.882643482
ACTL6A	0.362251411	0.054649743	2.882292454
LRIG3	0.362140956	0.054696733	2.881280925
SLC25A3	0.36215051	0.054696733	2.88136841
INO80D	0.362139381	0.054696733	2.881266501
CCDC102A	-0.36219006	0.054696733	-2.881730595
FCER2	-0.362009642	0.054848835	-2.880078557
KPNA6	0.361931938	0.054929316	2.87936716
OR5D14	-0.361884009	0.054968698	-2.8789284
CCDC107	-0.361753692	0.055122256	-2.877735544
EEA1	0.361700514	0.055169051	2.87724883

PPM1B	0.361676122	0.055175925	2.877025602
LECT1	-0.361387828	0.055429484	-2.874387644
ANKRD22	0.361357866	0.055429484	2.874113546
CDYL2	-0.361389582	0.055429484	-2.874403695
FES	-0.361375177	0.055429484	-2.874271913
DKFZp779M0652	-0.361405865	0.055429484	-2.874552662
NDUFA6	0.361427931	0.055429484	2.874754538
SH3PXD2A	0.361467436	0.055429484	2.87511598
OTP	-0.361333664	0.055436197	-2.873892146
NUP43	0.361312988	0.055438011	2.873703002
RPP38	0.361260041	0.055457821	2.873218675
FFAR2	-0.361260755	0.055457821	-2.873225205
WAS	-0.361238829	0.055460415	-2.873024648
SERPINF1	0.361169157	0.055530557	2.8723874
ACSM1	-0.361095551	0.055533734	-2.871714218
KLHL35	-0.361031693	0.055533734	-2.871130249
RPL13AP17	-0.361072588	0.055533734	-2.871504221
PUS7	0.361143598	0.055533734	2.872153633
NEUROD4	-0.361074284	0.055533734	-2.871519728
ZNF224	0.361042111	0.055533734	2.871225516
ZBED3	-0.36104489	0.055533734	-2.871250931
NAPEPLD	0.360954292	0.055534197	2.870422493
GJB1	-0.360968032	0.055534197	-2.87054812
RAX	-0.360994505	0.055534197	-2.870790195
HOXB1	-0.360955215	0.055534197	-2.870430929
LRRC3B	-0.360888382	0.055599256	-2.869819859
AVL9	0.360789166	0.055665584	2.868912799
PSME4	0.36078553	0.055665584	2.868879556
GRTP1	0.36078315	0.055665584	2.868857796
FEV	-0.360693508	0.055737113	-2.868038367
TMEM111	0.360711614	0.055737113	2.868203874
TNS3	-0.360612963	0.05582289	-2.86730217
FAM63A	-0.36057553	0.055848405	-2.866960048

PDZD4	-0.360472479	0.055965891	-2.866018293
ALS2CR11	-0.360393631	0.056022664	-2.865297808
MRPL51	0.36040503	0.056022664	2.865401963
ZBTB12	-0.360287121	0.056145338	-2.864324662
LPIN1	-0.360240811	0.056156539	-2.863901586
SLCO4C1	0.360245002	0.056156539	2.863939869
PDX1	-0.360192305	0.056197814	-2.863458467
FAM82B	0.360170377	0.056201717	2.863258163
NUDT21	0.360149638	0.056203959	2.863068719
GOLGA7	0.360118569	0.056220746	2.862784925
NEURL3	-0.360060684	0.056275301	-2.862256215
CTCF	0.360014685	0.056286225	2.861836098
SLC5A1	-0.360025365	0.056286225	-2.861933636
C7orf31	-0.359936343	0.056312945	-2.861120637
CSE1L	0.359950366	0.056312945	2.861248696
DQX1	0.359905974	0.056312945	2.860843314
C12orf41	0.359881174	0.056312945	2.860616855
C2orf29	0.359884731	0.056312945	2.86064933
RBBP4	0.359909735	0.056312945	2.86087766
PLA2G4D	-0.359839453	0.056344865	-2.860235889
TFIP11	0.35970689	0.056478087	2.859025564
TPD52	0.35971594	0.056478087	2.859108178
C3orf17	0.359682404	0.056485768	2.85880202
KHDRBS1	0.359462902	0.056539932	2.856798416
NLRP6	-0.359567647	0.056539932	-2.857754457
DOCK1	0.359610358	0.056539932	2.858144331
OSTalpha	0.359485234	0.056539932	2.857002235
EPO	-0.359417979	0.056539932	-2.856388433
SEZ6L2	-0.359416099	0.056539932	-2.856371275
MED4	0.359490271	0.056539932	2.85704821
OR5F1	-0.359435628	0.056539932	-2.856549498
C10orf59	-0.359548444	0.056539932	-2.857579179
DEPDC6	-0.359566504	0.056539932	-2.857744024

CACNB4	-0.359498685	0.056539932	-2.857125003	
BLZF1	0.359563668	0.056539932	2.857718134	
C5orf47	-0.359393468	0.056545136	-2.856164743	
NMUR1	-0.359321901	0.056619493	-2.855511659	
EYA2	0.359301048	0.056622209	2.855321368	
ENPEP	-0.359234951	0.056635417	-2.854718273	yes
LEPRE1	-0.359267885	0.056635417	-2.855018766	yes
MGC16121	-0.359251212	0.056635417	-2.854866641	
SNORD115-31	-0.359183675	0.056681197	-2.854250433	
TMSB15A	-0.359131129	0.056691332	-2.853771043	
TDRD5	-0.359127593	0.056691332	-2.853738787	
ANKRD17	0.359119844	0.056691332	2.853668092	
IER5L	-0.359064226	0.056743327	-2.853160721	
FAM102B	0.358893825	0.056950161	2.851606448	
C13orf18	-0.358880606	0.056950161	-2.851485889	
SLC4A1AP	0.35883993	0.056958343	2.851114925	
PDE3A	-0.35883713	0.056958343	-2.851089393	
WIF1	-0.358796411	0.056989408	-2.850718063	
CDK8	0.358754918	0.056996037	2.850339689	
CEACAM3	-0.35873525	0.056996037	-2.850160344	
IMPA1	0.358744962	0.056996037	2.850248906	yes
APBB1IP	-0.358712848	0.05700113	-2.849956075	
LRRC9	-0.35869169	0.057004467	-2.849763153	
RPL12P16	0.358636053	0.057045614	2.849255871	
RPGRIP1	-0.358625135	0.057045614	-2.849156324	
BPIL3	-0.358535895	0.057119085	-2.848342754	
GLT8D4	-0.358551409	0.057119085	-2.848484178	
NUP62	0.358423515	0.057225629	2.84731834	
MLLT10	0.358435914	0.057225629	2.847431351	
NRG3	-0.358342793	0.057287205	-2.846582596	
NOLC1	0.358356682	0.057287205	2.846709184	
PPP1R3C	-0.358293679	0.057330515	-2.846134974	
PIP5KL1	-0.358085403	0.057467473	-2.844237094	

P2RY2	0.358149733	0.057467473	2.844823242	
MED1	0.358090043	0.057467473	2.844279366	
PPP1CC	0.358123321	0.057467473	2.844582584	
MARCKSL1	-0.358120121	0.057467473	-2.844553423	
ZNF140	0.358088486	0.057467473	2.844265187	
SNORD116-23	-0.358028007	0.057469335	-2.843714171	
KLF14	-0.358060139	0.057469335	-2.844006908	
TRMT2B	0.358042116	0.057469335	2.843842705	
FMNL2	-0.357989061	0.057475371	-2.843359352	
MRPL42	0.357967759	0.057475371	2.843165297	
PSMB4	0.357976058	0.057475371	2.8432409	
ZNF185	0.357938137	0.057491037	2.842895449	
RAI2	-0.357846527	0.05759539	-2.842060971	
TUBB2B	-0.35777806	0.057666737	-2.841437361	yes
FLJ10357	-0.357574474	0.057905443	-2.839583388	
GGCT	0.357587345	0.057905443	2.839700591	
FAF2	0.35753854	0.057930315	2.839256203	
CHST14	-0.357421267	0.057958017	-2.838188503	
CMTM2	-0.35741715	0.057958017	-2.838151022	
IMPAD1	0.357497071	0.057958017	2.838878635	
C14orf115	-0.357407595	0.057958017	-2.838064035	
USP37	0.357459669	0.057958017	2.838538113	
RPL23AP64	-0.357451346	0.057958017	-2.838462338	yes
CLDN7	0.357312224	0.058041784	2.837195865	
ZCCHC6	0.357318646	0.058041784	2.837254328	
TRIM2	0.357260962	0.058088869	2.836729272	yes
YME1L1	0.357047552	0.058153148	2.834787081	
HGSNAT	0.357050418	0.058153148	2.83481316	
DLAT	0.357072635	0.058153148	2.835015323	yes
HES3	-0.35706798	0.058153148	-2.834972968	yes
ZNF321	0.357016678	0.058153148	2.834506144	
DACT1	-0.357012475	0.058153148	-2.834467898	
WFDC1	-0.357085983	0.058153148	-2.835136791	yes

SMARCE1	0.35710095	0.058153148	2.835272995	
SCARNA17	-0.35707092	0.058153148	-2.834999716	
LOC728318	-0.357162112	0.058153148	-2.835829598	
ADAM19	-0.357131858	0.058153148	-2.835554263	
GRAP	-0.35696978	0.058176302	-2.834079424	
ESR2	-0.356959437	0.058176302	-2.833985316	
MTRR	0.35693976	0.05817803	2.833806287	
ZNF213	-0.356898364	0.058211093	-2.833429655	
PCP2	-0.356788316	0.058269913	-2.832428522	yes
DHX15	0.356765344	0.058269913	2.83221955	
ITGAV	0.3567928	0.058269913	2.832469311	
FAM172A	0.356829467	0.058269913	2.832802863	
CCNA2	0.356777341	0.058269913	2.832328689	
SUB1	0.356582719	0.058480626	2.830558503	
CD79B	-0.356599345	0.058480626	-2.830709712	
PLEKHG1	0.356562008	0.058483936	2.830370158	
ADAM8	-0.356495768	0.058506519	-2.829767787	
EPHA6	-0.356494052	0.058506519	-2.829752177	
CRLS1	0.356487524	0.058506519	2.829692817	
CNOT6	0.356472785	0.058506519	2.829558797	yes
BRD2	0.356429597	0.058518065	2.829166088	
MANBAL	0.356428042	0.058518065	2.829151951	
SDF2L1	-0.356387136	0.058524096	-2.828780013	
NUP54	0.356393283	0.058524096	2.828835905	
GPC6	-0.356322756	0.058590761	-2.828194683	
ZNF195	0.356169109	0.058787121	2.826797932	
ELF5	-0.356104419	0.058828662	-2.826209938	
ZNF541	-0.35610383	0.058828662	-2.826204591	
TULP1	-0.356071859	0.058848483	-2.825914008	
APBB1	-0.356052913	0.058849369	-2.825741819	
NR2E3	-0.355982512	0.058900218	-2.825102005	
DIS3L	0.355934109	0.058900218	2.82466215	
ZNF385B	-0.355971884	0.058900218	-2.825005422	

NF1	0.35596031	0.058900218	2.824900241	
PCBP2	0.35590809	0.058900218	2.824425717	
VTA1	0.355921712	0.058900218	2.824549496	yes
LILRB2	-0.355868485	0.058927997	-2.824065838	
EPHB1	-0.355848202	0.058927997	-2.823881536	yes
KRT10	0.355822251	0.058927997	2.823645747	
BYSL	0.355799754	0.058927997	2.823441347	
STARD5	0.355797634	0.058927997	2.823422079	
GINS3	0.355725149	0.059006964	2.822763534	
FAM104A	0.355695248	0.059023942	2.822491895	
G6PC	-0.355670019	0.059034124	-2.822262704	
GNAZ	-0.355590479	0.059123519	-2.821540186	
EYA1	0.355515292	0.059180053	2.820857268	
MYCBP2	0.355526875	0.059180053	2.820962469	
STXBP1	-0.355492964	0.059186053	-2.820654475	
EBF1	-0.355306139	0.059352721	-2.818957873	yes
HOXC6	-0.355335597	0.059352721	-2.819225365	
AVPR2	-0.355321679	0.059352721	-2.819098981	
TRIP10	0.355360297	0.059352721	2.819449654	
LIX1L	-0.355260589	0.059392774	-2.81854428	yes
MAN1A2	0.3551278	0.059480807	2.817338699	
LIAS	0.355129862	0.059480807	2.817357417	yes
SLC7A11	0.355129781	0.059480807	2.817356681	
KRCC1	0.35514856	0.059480807	2.817527161	
C21orf66	0.355007723	0.059630363	2.816248697	
MSL1	-0.354965338	0.059639928	-2.815863982	
TTPAL	0.354964903	0.059639928	2.815860033	
GTF2H3	0.354910634	0.059642103	2.815367481	
PID1	0.35490901	0.059642103	2.815352744	
NAV3	-0.354943384	0.059642103	-2.81566472	
LOC100129434	-0.354861873	0.059655075	-2.814924945	
AP1G1	0.354827727	0.059655075	2.814615072	
USP31	0.354860774	0.059655075	2.814914971	

PCBD2	0.354837335	0.059655075	2.814702264	
LOC391532	-0.354797525	0.05967286	-2.81434099	
NLRP3	-0.354685341	0.059706057	-2.813323046	
HTT	0.354706489	0.059706057	2.813514929	
IDH3A	0.354751316	0.059706057	2.813921678	yes
EOMES	-0.354684552	0.059706057	-2.813315887	
MFSD2	0.354703782	0.059706057	2.813490364	
KRT6B	0.354613453	0.059784041	2.81267081	
PHKB	0.354562753	0.059832082	2.812210846	
GUCA2A	-0.354497149	0.059902119	-2.811615707	
LCN1	-0.3543907	0.05996786	-2.81065015	
MPP2	-0.354380416	0.05996786	-2.810556875	yes
CASS4	-0.354432942	0.05996786	-2.8110333	
NKD1	-0.354384994	0.05996786	-2.810598392	yes
CAV2	0.354311684	0.060042676	2.8099335	
FRY	-0.354250761	0.060079443	-2.809380996	
LNK1	0.354260114	0.060079443	2.809465814	
DOK5	-0.354220813	0.060097087	-2.809109417	
REXO2	0.354107075	0.060204021	2.808078089	
OGG1	-0.354121331	0.060204021	-2.808207351	
PCF11	0.354081078	0.060204021	2.807842388	
ZNF85	-0.354073605	0.060204021	-2.807774629	
C12orf32	0.354058548	0.060204021	2.807638116	
IHH	-0.353937227	0.060357029	-2.806538247	
PHOX2A	-0.353901459	0.060383422	-2.806214013	
RAD50	0.353681693	0.060672157	2.804222174	
GPR150	-0.353653221	0.060672157	-2.803964158	
PPFIA1	0.353664097	0.060672157	2.804062713	
NIPA2	0.353632182	0.060676761	2.803773507	
SAMD4A	-0.353598003	0.060681121	-2.803463791	
PCBD1	0.353593382	0.060681121	2.803421914	
PDILT	-0.353573206	0.060684469	-2.803239101	
RP5-1000E10.4	0.353548168	0.060695065	2.803012236	

NIP7	0.35349825	0.060716207	2.802559948	
POU6F1	-0.353498148	0.060716207	-2.802559024	
CD300A	-0.353385433	0.060794844	-2.801537872	
DAPK1	-0.353418635	0.060794844	-2.801838655	
DPY19L4	0.353373791	0.060794844	2.801432401	
MAN2A1	0.35338999	0.060794844	2.801579146	
S100P	0.353318951	0.060849946	2.800935629	
ART4	-0.353289635	0.060867015	-2.800670085	yes
MNAT1	0.353263078	0.060879981	2.800429536	
SIAE	0.353233025	0.060898175	2.800157331	
ATP2C1	0.353132887	0.061021049	2.799250404	
TMEM158	-0.35307781	0.061068072	-2.798751627	
RASA1	0.353047903	0.061068072	2.798480808	
TPH1	0.353061022	0.061068072	2.7985996	
SLC19A1	-0.353017182	0.06108735	-2.798202621	
TUBB	0.352856782	0.061201828	2.79675034	
KIAA0776	0.35290008	0.061201828	2.797142338	
NKPD1	-0.352851628	0.061201828	-2.796703684	
PPP2CA	0.352868279	0.061201828	2.796854431	
ZNF414	-0.352874914	0.061201828	-2.796914501	
CBR1	0.352822053	0.061219473	2.79643594	
ACSM2A	-0.352767148	0.061223771	-2.795938916	
PSMG2	0.35278656	0.061223771	2.796114633	
RYR3	-0.352765838	0.061223771	-2.795927053	
SLC26A9	0.352737398	0.061239756	2.795669611	
TPTE	-0.352715741	0.061245591	-2.795473574	
CMPK1	0.352590735	0.061406438	2.79434215	
TMEM71	0.352538353	0.06143767	2.793868091	
SCGB1D4	-0.352516691	0.06143767	-2.793672055	
SPTB	-0.352520421	0.06143767	-2.793705811	yes
NRD1	0.352440121	0.061526082	2.792979168	
FLJ25770	-0.352375126	0.061543851	-2.792391076	
LARP7	0.352379829	0.061543851	2.792433632	

KIF23	0.352405818	0.061543851	2.792668776	
C9orf91	-0.352268257	0.061661758	-2.791424191	
ACTBL2	-0.352261358	0.061661758	-2.791361782	
TSPAN16	-0.352241528	0.061664959	-2.791182389	
GP5	-0.352210107	0.061685632	-2.790898138	
SCML4	-0.352114905	0.061802492	-2.790036974	
PRH2	-0.352082151	0.061825225	-2.789740724	
LOC100130130	-0.351985275	0.061944846	-2.788864556	
PRG3	-0.351831224	0.061949021	-2.787471488	
C17orf46	-0.351789147	0.061949021	-2.787091043	
C11orf40	-0.351919648	0.061949021	-2.788271068	
KIAA0831	0.351771455	0.061949021	2.786931081	
HECTD1	0.351798666	0.061949021	2.787177102	yes
ANKRD58	-0.351885801	0.061949021	-2.787964991	
C1orf175	-0.351909771	0.061949021	-2.788181745	
MYO1E	0.351772724	0.061949021	2.786942553	
NDUFS1	0.351770777	0.061949021	2.786924949	
GRHL3	0.351869553	0.061949021	2.787818074	
TCEB3	0.351868691	0.061949021	2.787810274	
ENTPD4	0.351929061	0.061949021	2.788356191	
GABRG3	-0.351750666	0.061952813	-2.786743115	
GLIPR2	0.351630313	0.062054985	2.785655066	yes
BSND	-0.351646881	0.062054985	-2.785804845	
CHST1	-0.351635216	0.062054985	-2.785699392	
PDIK1L	0.351526687	0.062185269	2.784718363	yes
SELPLG	-0.351499192	0.062200299	-2.784469848	
ANKLE2	0.351480123	0.062202568	2.784297501	
NOX5	-0.351400023	0.06229741	-2.783573574	
ITGA11	-0.351354228	0.062312989	-2.783159724	
NPTX2	-0.351337092	0.062312989	-2.783004863	
PRPS2	0.351346611	0.062312989	2.783090885	
UBE2K	0.351247485	0.062422438	2.782195167	
STAG3	-0.351164075	0.062447137	-2.78144154	

RPL4	0.351161113	0.062447137	2.781414778	
BEND5	0.351207782	0.062447137	2.78183643	
SUCLG2	0.351193173	0.062447137	2.781704436	
SNORD116-2	-0.351116732	0.062463948	-2.78101382	
IL1B	-0.351079882	0.062463948	-2.780680911	
LOC404266	-0.351062936	0.062463948	-2.780527823	
IRX1	-0.351062543	0.062463948	-2.78052428	
CCNT2	0.351101824	0.062463948	2.780879138	
CTSL1	-0.351007103	0.062495085	-2.780023464	
NAT10	0.35102416	0.062495085	2.780177545	
COL5A1	-0.350988841	0.062496287	-2.779858508	yes
hCG_2018279	-0.350891852	0.062537134	-2.778982472	
TBPL2	-0.350866399	0.062537134	-2.778752586	
XKRX	0.350894177	0.062537134	2.779003467	
HNRNPM	0.350857285	0.062537134	2.778670272	
UGT1A1	0.35087494	0.062537134	2.778829722	
NOG	-0.350940091	0.062537134	-2.779418166	
RPL18	0.350837672	0.062540458	2.778493136	
ELOVL5	0.350673198	0.062764444	2.777007882	
CHEK1	0.35063667	0.062776789	2.776678061	
TROVE2	0.350630266	0.062776789	2.776620248	
PDCD6	0.350493319	0.06282291	2.775383851	
UBA2	0.350508708	0.06282291	2.775522777	
ENO1	0.350472773	0.06282291	2.775198381	
LOC285453	0.350499655	0.06282291	2.775441054	
NUDT1	-0.350549491	0.06282291	-2.775890959	
ZCCHC8	0.35046093	0.06282291	2.775091469	
CCDC21	0.350483382	0.06282291	2.775294151	
STC2	-0.350522141	0.06282291	-2.775644046	
CYP2R1	0.350421432	0.062856696	2.774734925	
ACTR3	0.350229875	0.062915619	2.773005992	
TIPRL	0.350290766	0.062915619	2.77355553	
CLUL1	-0.350226862	0.062915619	-2.772978796	

LOC285033	0.350275424	0.062915619	2.773417068	
RARRES1	-0.35029663	0.062915619	-2.77360845	
CACNG7	-0.350308582	0.062915619	-2.773716327	
C6orf35	0.350280688	0.062915619	2.773464574	
TMEM128	0.350323848	0.062915619	2.773854112	
AQR	0.350248269	0.062915619	2.77317199	
SMEK1	0.350122597	0.063048537	2.772037906	
IPO8	0.350073388	0.063075303	2.771593883	
SYTL5	0.350070511	0.063075303	2.771567925	
AK3L1	-0.35000653	0.063081177	-2.770990653	
HMGCLL1	-0.350041191	0.063081177	-2.771303375	
CMAS	0.349980299	0.063081177	2.770753993	
FLJ14100	-0.349995941	0.063081177	-2.770895111	
LG1	-0.349981499	0.063081177	-2.770764815	
AMIGO3	-0.349930565	0.063123003	-2.770305306	
ASCC1	0.349885676	0.063123003	2.769900358	yes
PMS2L4	0.349883978	0.063123003	2.769885036	
PRKRIP1	-0.349910325	0.063123003	-2.770122714	
PKN2	0.349693784	0.063351095	2.768169508	
CALCOCO1	-0.349706919	0.063351095	-2.768287972	
HIST1H4J	-0.349683479	0.063351095	-2.768076568	
HOMEZ	0.349655025	0.063368338	2.76781996	
EIF1	0.349630457	0.063379627	2.767598397	
BCORL1	-0.349548065	0.063479779	-2.766855405	
FGF4	-0.349515181	0.063503886	-2.766558883	
CENPF	0.349458911	0.063563993	2.766051519	
SGK196	0.349426209	0.06358786	2.76575667	
C9orf25	-0.349365121	0.063621605	-2.765205926	
WDR86	-0.34937711	0.063621605	-2.765314008	
JMJD5	-0.349352734	0.063621605	-2.765094255	
CDX1	-0.349294227	0.063632387	-2.764566825	yes
OR6C1	-0.349309597	0.063632387	-2.764705378	
MEOX1	-0.349306872	0.063632387	-2.764680815	

BUB3	0.349254285	0.063667486	2.764206766
EMR4P	-0.34917463	0.063759411	-2.763488788
WDR82	0.349160353	0.063759411	2.763360107
XRCC6	0.349088186	0.063791434	2.762709683
FLJ26850	-0.349116728	0.063791434	-2.762966918
GRAP2	-0.349099674	0.063791434	-2.76281322
RNF160	0.349021416	0.063837387	2.762107956
TES	0.349007051	0.063837387	2.761978502
RIPK1	0.34901252	0.063837387	2.762027781
CPO	-0.348974939	0.06386055	-2.761689132
OR5H15	-0.348949893	0.063872816	-2.761463441
CLIC1	0.348909375	0.063875977	2.761098345
HOXC10	-0.348914692	0.063875977	-2.761146256
TATDN1	0.348896575	0.063875977	2.760983012
CSTF1	0.34886822	0.063881063	2.760727535
C2	-0.348842064	0.063881063	-2.760491871
SART3	0.348843898	0.063881063	2.760508394
CABP1	-0.348696446	0.064079795	-2.759180012
RRM2	0.34863191	0.064153317	2.758598687
PSMB1	0.348601094	0.064174637	2.758321115
FRMD3	-0.348552664	0.064223281	-2.757884912
ATP6AP2	0.348423929	0.064237535	2.756725544
HTR3D	-0.348444169	0.064237535	-2.75690781
SIRT4	-0.348384672	0.064237535	-2.756372028
C13orf15	-0.34838364	0.064237535	-2.756362734
XIAP	0.348356283	0.064237535	2.756116393
C5orf46	-0.348388929	0.064237535	-2.756410362
RORC	-0.348419213	0.064237535	-2.756683068
BLMH	0.348368677	0.064237535	2.756228004
TBXAS1	-0.348366602	0.064237535	-2.756209314
C16orf70	0.348489127	0.064237535	2.757312681
TNFRSF11A	-0.348433439	0.064237535	-2.756811184
C2orf65	-0.348244692	0.064306867	-2.755111645

PIK3R5	-0.348226721	0.064306867	-2.754949851	
SULT1B1	-0.348229549	0.064306867	-2.754975305	
GOLGA1	0.348287528	0.064306867	2.755497315	
PDE9A	-0.348238219	0.064306867	-2.755053365	yes
FZD2	-0.348191923	0.064332162	-2.754636568	
ZDHHC6	0.348159573	0.064332162	2.754345335	
EIF4E2	0.34816225	0.064332162	2.754369431	
DAND5	-0.3481219	0.064364342	-2.754006189	
DRD3	-0.348034419	0.064391447	-2.753218735	
TBC1D22A	0.348064333	0.064391447	2.753487991	
IMPDH2	0.348028724	0.064391447	2.753167468	
TBL1XR1	0.348065842	0.064391447	2.753501574	
MAPKSP1	0.34801984	0.064391447	2.753087508	
ETV1	-0.347867598	0.064464815	-2.751717313	
SLC27A6	-0.347882092	0.064464815	-2.751847757	
MKI67	0.347897111	0.064464815	2.75198292	
NUSAP1	0.347854393	0.064464815	2.751598485	
CNTN2	-0.347857818	0.064464815	-2.751629304	
GAL3ST4	-0.34790976	0.064464815	-2.752096752	yes
MTSS1	0.34787029	0.064464815	2.751741544	
RCBTB2	0.347825024	0.064484242	2.75133419	
EBF3	-0.347704134	0.064488925	-2.750246404	yes
POLR1A	0.347744486	0.064488925	2.750609481	
TSPAN33	-0.347714551	0.064488925	-2.750340129	
CLEC1B	-0.347714305	0.064488925	-2.750337919	
HIAT1	0.34776718	0.064488925	2.750813683	
USP4	0.347802371	0.064488925	2.751130341	
DYRK4	-0.347753303	0.064488925	-2.750688818	
SCN4B	-0.347647085	0.064551431	-2.749733127	
KCNQ1DN	-0.347622531	0.06456129	-2.749512218	
TULP2	-0.347607125	0.06456129	-2.749373611	
CILP	-0.347555525	0.064615395	-2.748909407	
BVES	-0.347440491	0.064762505	-2.747874648	

RNF166	-0.347427439	0.064762505	-2.747757242	
RASL10B	-0.347384744	0.064802881	-2.747373229	yes
TMEM196	-0.347342616	0.0648424	-2.74699434	
OR4K15	-0.347261823	0.064942307	-2.746267745	
SNORD116-11	-0.347209051	0.064998541	-2.745793194	
OBFC1	0.347113519	0.065121725	2.744934198	
SIGLEC6	-0.347089715	0.065132734	-2.74472017	
P2RX5	-0.346973566	0.065288472	-2.743675955	
JMJD2A	0.346949238	0.065300336	2.743457251	
SNORD114-26	-0.346924072	0.065313523	-2.743231031	
C2orf43	0.346838731	0.065421211	2.742463917	
MAGEB6	-0.346802724	0.065451467	-2.74214029	
CHD8	0.346776138	0.065466933	2.741901334	
PNMA2	-0.346655861	0.065629858	-2.740820408	
RPAP2	0.346596716	0.065696684	2.740288926	
CEPT1	0.346449736	0.065705742	2.73896832	
TRIM16	0.346535385	0.065705742	2.73973785	
SYNM	-0.346462055	0.065705742	-2.739078999	
ARL2BP	0.346450529	0.065705742	2.738975446	
GH1	-0.346482875	0.065705742	-2.739266051	
EVX2	-0.346411342	0.065705742	-2.738623393	yes
ASTN1	-0.34640911	0.065705742	-2.738603339	
A4GALT	0.346418187	0.065705742	2.738684887	
CHRA1	0.346373825	0.065705742	2.738286357	
AGMAT	-0.346404199	0.065705742	-2.73855922	
CCDC8	-0.346553794	0.065705742	-2.739903252	
API5	0.346554127	0.065705742	2.739906244	
TP53I3	0.346379346	0.065705742	2.738335958	
AOC2	-0.34634142	0.06573055	-2.737995259	
LOC339483	-0.346292898	0.065775103	-2.737559398	
MAP3K4	0.34627985	0.065775103	2.737442189	
EIF3L	0.346260728	0.065779004	2.737270435	
LOC100131507	-0.346148894	0.065850461	-2.736265987	

NAT6	-0.346172028	0.065850461	-2.736473759	
MAGEB18	-0.346151698	0.065850461	-2.736291172	
SEMA3F	0.346166276	0.065850461	2.736422102	
ZNF234	0.346031736	0.065941518	2.735213872	
C12orf66	0.346046196	0.065941518	2.735343714	
PEBP4	-0.346026564	0.065941518	-2.735167424	
TSSK3	-0.346024766	0.065941518	-2.73515128	
CILP2	-0.345948044	0.065977586	-2.73446237	
RNF145	0.345885841	0.065977586	2.733903884	
LPAR4	-0.345968626	0.065977586	-2.734647175	yes
ITGB2	-0.345887048	0.065977586	-2.733914722	
TRIM48	-0.34588856	0.065977586	-2.733928295	
CD247	-0.345906541	0.065977586	-2.734089731	
TOMM20	0.345918549	0.065977586	2.734197548	
CKS2	0.345783556	0.066086927	2.732985605	
KLHL38	-0.345798517	0.066086927	-2.733119913	
CYP11B2	-0.345726369	0.066106401	-2.73247225	
METTL10	0.345705061	0.066106401	2.732280981	
DCP1A	0.345711225	0.066106401	2.732336313	
USP3	0.345751892	0.066106401	2.732701357	
SUPT7L	0.345584438	0.066271249	2.731198312	
CENPJ	0.345509826	0.06636338	2.730528702	
P2RY1	0.345468128	0.066403338	2.730154501	
SEH1L	0.345417614	0.066457328	2.729701213	
C1orf115	-0.34539622	0.066465071	-2.729509244	
TAGAP	-0.345297176	0.066517543	-2.728620572	
PNLIPRP2	-0.345346591	0.066517543	-2.729063932	
FAHD1	0.345297753	0.066517543	2.728625747	
TKTL2	-0.345310761	0.066517543	-2.728742457	
SEMA4B	0.34517655	0.066564222	2.727538396	
SLC25A26	0.34514209	0.066564222	2.72722927	
SUSD5	-0.345186895	0.066564222	-2.727631198	
GRIK4	-0.345138051	0.066564222	-2.727193043	

EIF6	0.345136012	0.066564222	2.727174752	
C2orf71	-0.345231129	0.066564222	-2.728028022	
C7orf25	0.345194505	0.066564222	2.727699464	
AGPS	0.345142668	0.066564222	2.727234459	
XPO7	0.345092965	0.066606524	2.726788619	
GZMH	-0.345059508	0.06663359	-2.726488523	
IGSF6	-0.344923059	0.066824806	-2.725264743	
EXD1	-0.344866626	0.066836166	-2.724758668	
ARHGAP6	-0.344899493	0.066836166	-2.725053403	
URB2	0.34486735	0.066836166	2.724765162	
ARPC1A	0.344785192	0.066939941	2.724028449	
APPBP2	0.344670184	0.067071292	2.72299729	
GRM5	-0.344676435	0.067071292	-2.723053334	
PHOSPHO1	-0.344595132	0.067088061	-2.722324454	
FAM178B	-0.344602824	0.067088061	-2.722393408	
PLA2G2A	-0.344594068	0.067088061	-2.72231491	
C13orf1	0.344628199	0.067088061	2.722620891	
ANKRD28	0.344516174	0.06717705	2.72161666	
CCDC149	-0.34450569	0.06717705	-2.721522689	
TMC7	0.34447669	0.067197253	2.721262748	
NOL8	0.344438118	0.067232809	2.720917016	
TAF15	0.344383614	0.067293934	2.720428517	
SH3GLB1	0.34436656	0.067295024	2.720275676	
MYO6	0.344278852	0.067304517	2.719489664	yes
PAK1IP1	0.344300646	0.067304517	2.719684968	
SERAC1	0.344292221	0.067304517	2.719609469	
VAMP3	0.344320901	0.067304517	2.719866482	
FOXP2	0.344328481	0.067304517	2.719934416	
COL19A1	-0.344237342	0.067307032	-2.719117694	
HSD3B1	-0.344227764	0.067307032	-2.719031863	
HMX3	-0.344219021	0.067307032	-2.718953526	
CTAGE1	-0.344211952	0.067307032	-2.718890177	
GFI1	-0.344183187	0.067326987	-2.718632436	

LOC100133364	-0.344099188	0.067412964	-2.717879818	
NDST3	-0.344096974	0.067412964	-2.717859984	
CNPY2	-0.343966073	0.067492325	-2.716687288	
ZNF277	0.34397591	0.067492325	2.716775411	
FLJ43752	-0.344012006	0.067492325	-2.71709876	
FOXB2	-0.343971278	0.067492325	-2.716733915	
GNG12	0.344025957	0.067492325	2.717223742	
GPR22	-0.343923023	0.067509183	-2.716301653	
RASSF9	0.343936209	0.067509183	2.716419766	
ZMYM5	0.343904061	0.067513506	2.716131807	
C2orf46	-0.343865673	0.067549057	-2.715787955	
LOC100129890	-0.343789282	0.067567345	-2.715103766	
MPP7	0.343791461	0.067567345	2.71512328	
CYB5A	0.343803355	0.067567345	2.715229798	
GJA4	-0.343837154	0.067567345	-2.71553252	
GABBR2	-0.34375505	0.06759627	-2.714797183	
PPIL3	0.343738511	0.067596758	2.714649068	
SHE	-0.343707768	0.067620095	-2.714373749	
TPR	0.343668539	0.067657097	2.714022453	
GYPC	-0.343622131	0.067679577	-2.713606885	
KLK10	0.34362334	0.067679577	2.713617709	
C10orf125	-0.343592595	0.067701023	-2.713342412	
HUWE1	0.343549377	0.067722727	2.71295545	
RAB9B	-0.343538909	0.067722727	-2.712861721	
BIVM	0.343498133	0.067722727	2.712496643	
RPL37	0.343517424	0.067722727	2.712669361	
COPS3	0.343504095	0.067722727	2.712550018	
ODF3	-0.343421879	0.067728242	-2.711813965	
EDA	-0.343415508	0.067728242	-2.711756933	yes
RPL22L1	0.34336542	0.067728242	2.711308543	
LCE1D	-0.34338299	0.067728242	-2.711465828	
RNF141	0.343477944	0.067728242	2.712315888	
ADAM9	0.343380447	0.067728242	2.711443061	

EFTUD2	0.343450314	0.067728242	2.712068526	
DEPDC5	0.343398651	0.067728242	2.711606025	
WDFY4	-0.343326907	0.067764254	-2.710963795	
ALAS2	-0.343270643	0.067769699	-2.710460183	
ZC3H12D	-0.343259026	0.067769699	-2.7103562	
PARP6	0.343273761	0.067769699	2.710488089	
TSN	0.343292487	0.067769699	2.710655705	
SNORD115-15	-0.343166443	0.067825979	-2.709527578	
ADORA1	-0.343182796	0.067825979	-2.709673928	
ZNF500	-0.343127403	0.067825979	-2.709178191	
LOC284297	-0.343128148	0.067825979	-2.709184859	
LOC439951	-0.343100665	0.067825979	-2.708938913	
ACP6	0.343095318	0.067825979	2.708891061	
TTF1	0.343145639	0.067825979	2.709341391	
ADM2	-0.343182557	0.067825979	-2.709671788	
ITIH4	-0.342997461	0.067931855	-2.708015403	
PSMA6	0.343004988	0.067931855	2.70808275	
NUBP1	0.34286317	0.068122668	2.706813886	
CKMT2	-0.342794605	0.068150498	-2.706200495	
BRD7	0.342796864	0.068150498	2.706220706	
NPAL3	0.342781725	0.068150498	2.706085275	
PKHD1L1	-0.3428265	0.068150498	-2.706485821	yes
MAP3K3	-0.342724441	0.068217174	-2.705572856	
TBX20	-0.342692536	0.068242839	-2.705287466	
NOD2	-0.342674587	0.068245933	-2.705126927	
TNP2	-0.342654948	0.068251773	-2.704951262	
NPY1R	-0.342611787	0.06825609	-2.70456523	
NAV1	0.342621038	0.06825609	2.704647973	
NAPSA	-0.342604219	0.06825609	-2.704497548	yes
SLIT3	-0.342566969	0.068290459	-2.704164395	
SNORA54	-0.342531554	0.068321876	-2.703847676	
SEMA4F	-0.342477558	0.068383409	-2.703364807	
C16orf82	-0.342447553	0.068406105	-2.703096494	

ADRA2B	-0.342430157	0.068408378	-2.702940942	
FASTKD2	0.342352296	0.068508703	2.70224474	
SCGB3A2	-0.342305911	0.068512187	-2.701830022	
HABP4	-0.342286237	0.068512187	-2.701654124	
PUM2	0.342286352	0.068512187	2.70165515	
PILRA	-0.342321787	0.068512187	-2.701971964	
SNORD116-1	-0.342168049	0.068600403	-2.700597541	
C1orf65	-0.342186528	0.068600403	-2.700762738	
GCLM	0.34221124	0.068600403	2.700983646	
C1orf56	-0.342182203	0.068600403	-2.700724071	
CCDC63	-0.3421384	0.068608165	-2.700332509	
RAC3	-0.34213138	0.068608165	-2.70026976	
ME2	0.342110987	0.068615402	2.700087472	
LTB	-0.342054641	0.068655171	-2.699583836	
MTHFD1	0.342058224	0.068655171	2.69961586	
MGAM	-0.34200213	0.068714626	-2.699114502	
DNAJC16	0.341937842	0.068767397	2.698539951	yes
KIF5A	-0.341937901	0.068767397	-2.698540485	
TSPAN31	0.341921764	0.06876767	2.698396271	
CYP4F3	0.341869221	0.068777081	2.697926724	
TGFB111	-0.341870665	0.068777081	-2.69793963	yes
CD37	-0.341868278	0.068777081	-2.697918299	
TLN2	-0.341803707	0.06885629	-2.697341312	yes
HARS2	0.341730045	0.068911867	2.69668314	
SLC36A3	-0.341694383	0.068911867	-2.696364514	
SLC45A2	-0.341718068	0.068911867	-2.696576129	
RARS	0.341690188	0.068911867	2.696327039	
DLGAP5	0.341740695	0.068911867	2.696778293	
UEVLD	0.341672848	0.068914273	2.696172119	
FBXO5	0.341636601	0.068947485	2.695848292	
HDAC2	0.341608274	0.068967808	2.695595234	
CCBL2	0.341499826	0.069104048	2.69462649	
RPL5	0.341493038	0.069104048	2.694565855	

KLF2	-0.341436353	0.069144867	-2.694059548	
CCNY	0.3414401	0.069144867	2.694093013	yes
ATP2A3	-0.341419042	0.069147279	-2.693904933	
COL11A1	-0.341364208	0.069189972	-2.693415204	
APBA1	-0.341358816	0.069189972	-2.693367054	
PRCC	0.341345428	0.069189972	2.693247483	
GLMN	0.341293254	0.069223543	2.692781548	
TNFSF18	-0.341301817	0.069223543	-2.692858022	
PTPN7	-0.341277263	0.069223845	-2.692638752	
SC4MOL	0.3412307	0.069274122	2.692222954	
LNPEP	0.341213812	0.069275906	2.692072155	
GPR25	-0.341135724	0.069326149	-2.691374917	
LIMA1	0.341144134	0.069326149	2.691450002	
NPVF	-0.34115779	0.069326149	-2.691571936	
IL34	-0.341115936	0.069332707	-2.691198245	yes
ZCCHC5	-0.34104861	0.069385011	-2.690597155	
KCNMA1	-0.340990775	0.069385011	-2.690080845	
PDCD1	-0.341008913	0.069385011	-2.690242765	
SLC17A7	-0.34099878	0.069385011	-2.690152306	yes
SLC28A3	-0.340989399	0.069385011	-2.690068563	
TMEM187	-0.34102168	0.069385011	-2.690356744	
NHEDC1	-0.340938505	0.069391026	-2.68961425	
PRKAR2A	0.340953243	0.069391026	2.689745804	yes
UTP6	0.340961619	0.069391026	2.68982058	
TAF2	0.340869606	0.069478061	2.688999247	
LATS1	0.340799489	0.069567186	2.68837343	
GUCA1A	-0.340770713	0.069588587	-2.688116608	yes
SRD5A3	0.340737281	0.069617638	2.687818237	
SIVA1	-0.34065381	0.069680996	-2.68707335	
OR10H4	-0.340680866	0.069680996	-2.687314791	
C5orf23	-0.340651535	0.069680996	-2.687053051	
LPL	-0.340613579	0.069717532	-2.686714351	
LOC100131120	-0.34042555	0.069975247	-2.685036736	

SOCS1	-0.340425483	0.069975247	-2.685036138	
DUSP12	0.340304187	0.070123468	2.683954116	
VENTX	-0.340312852	0.070123468	-2.684031403	
NETO2	0.340258449	0.070173064	2.683546141	
DYRK1A	0.340204931	0.070235545	2.683068803	yes
CISD1	0.340170332	0.070260047	2.682760228	
HIST1H3I	0.340158739	0.070260047	2.682656837	
PPM1L	0.340125169	0.070272309	2.682357448	
RBM27	0.340119974	0.070272309	2.682311126	
NKG7	-0.34009712	0.070284191	-2.682107314	
LOC100131613	-0.340018946	0.070309914	-2.681410201	
BPI	-0.340047908	0.070309914	-2.681668463	
GMPS	0.340030928	0.070309914	2.681517048	
WISP3	-0.340065399	0.070309914	-2.681824438	
AMAC1	-0.339941649	0.07041189	-2.680720979	
CERCAM	-0.339904108	0.070448144	-2.680386264	
ATL3	0.339814121	0.070489153	2.679584001	
TMEM140	-0.339858762	0.070489153	-2.67998198	
TRPV5	-0.339785602	0.070489153	-2.679329759	
BTG1	0.339823116	0.070489153	2.679664194	
FAM160A1	0.339796524	0.070489153	2.679427126	
EIF3H	0.339806211	0.070489153	2.67951348	
PEAR1	-0.339767061	0.070494013	-2.679164474	yes
OBP2A	-0.339659024	0.070569646	-2.678201457	
PSMD7	0.339701312	0.070569646	2.67857839	
ZNF254	0.33968023	0.070569646	2.678390473	
TOMM70A	0.339669278	0.070569646	2.678292852	
NRIP1	0.33960472	0.070633837	2.67771744	
HOMER1	0.339560843	0.070680775	2.677326393	
FOXJ3	0.339497407	0.070738361	2.676761055	
hCG_1994895	-0.339494998	0.070738361	-2.676739579	
P2RY13	-0.33946163	0.070767917	-2.676442222	
CAST	0.339399698	0.070844959	2.67589035	yes

ASZ1	-0.339308692	0.070889742	-2.675079475	
ASPDH	-0.339317618	0.070889742	-2.675159002	
SNHG3-RCC1	0.339294995	0.070889742	2.674957439	
CUL2	0.339343821	0.070889742	2.67539247	
PRKRA	0.339320651	0.070889742	2.675186025	
LOC440461	-0.339205882	0.071002075	-2.674163523	
ZFP91	0.339175798	0.071002075	2.673895523	
ZNF484	0.339165345	0.071002075	2.673802406	
CHST10	-0.33918773	0.071002075	-2.674001816	yes
WIPF1	-0.33913154	0.071032515	-2.673501271	
ACOT12	-0.338992557	0.071212469	-2.672263327	
CBLB	0.338993505	0.071212469	2.672271764	yes
OGDH	0.338963752	0.071234652	2.672006777	
AHCYL1	0.338882292	0.071318889	2.671281317	
WNT5B	-0.338893083	0.071318889	-2.671377413	
NCBP1	0.338831446	0.0713229	2.670828527	
CASC5	0.338795341	0.0713229	2.670507029	
SNORD59B	0.338816101	0.0713229	2.670691889	
KAZALD1	-0.338820958	0.0713229	-2.67073514	
CD14	-0.338786945	0.0713229	-2.670432271	
GTF3C3	0.338863461	0.0713229	2.671113621	
UBE2V2	0.338768109	0.071328517	2.670264546	
PKD1L2	-0.338730512	0.071346266	-2.669929784	
RNASE3	-0.33872655	0.071346266	-2.669894507	
POLN	-0.338686237	0.07136941	-2.669535579	
SPAG4	-0.338681781	0.07136941	-2.669495908	
CD33	-0.338640984	0.07141177	-2.669132689	
PTS	0.338607373	0.071442137	2.668833465	
GANC	0.338583461	0.071456298	2.668620591	
EIF2B1	0.338506256	0.071467444	2.66793332	
MAP3K7IP3	0.338533197	0.071467444	2.668173133	yes
PLOD1	-0.338500327	0.071467444	-2.667880538	
CD83	-0.338499649	0.071467444	-2.667874505	

ARHGAP25	-0.338515763	0.071467444	-2.668017949	
METAP2	0.338413703	0.071519091	2.667109503	
ECD	0.338425636	0.071519091	2.667215718	
UGT2B17	-0.338407135	0.071519091	-2.667051047	
CFHR5	-0.338426509	0.071519091	-2.667223485	
FIBCD1	-0.338374488	0.071547954	-2.666760475	
KIAA1310	0.338265444	0.071704815	2.66579003	
TMEM120B	-0.338222641	0.07175078	-2.665409133	
LOC100130988	-0.33820242	0.071758884	-2.665229196	
MSTN	-0.338182244	0.071766919	-2.665049672	
ILK	-0.338131227	0.07182672	-2.664595724	
KL	-0.338108454	0.071839135	-2.664393102	
SLC5A5	-0.338091124	0.071842421	-2.66423891	
ATMIN	0.338044147	0.071888547	2.663820953	
ZADH2	0.338017562	0.071888547	2.663584434	
PLEKHA1	0.338024131	0.071888547	2.663642882	
GATA5	-0.337917853	0.071972006	-2.662697429	
C20orf135	-0.337906492	0.071972006	-2.662596369	
GTF2H1	0.337921713	0.071972006	2.662731769	
NCK1	0.337943881	0.071972006	2.662928962	
GTF2A1	0.337856643	0.072030032	2.662152953	
ADRA2C	-0.337768499	0.072080888	-2.661368963	yes
SYPL2	-0.337754875	0.072080888	-2.661247797	
KCTD3	0.337767366	0.072080888	2.661358886	
UQCC	0.33773816	0.072080888	2.66109914	
PRSS7	-0.337763662	0.072080888	-2.661325943	
ABCD3	0.337734465	0.072080888	2.661066276	
PLXNC1	-0.337695591	0.072086464	-2.660720551	
GNB3	-0.337685239	0.072086464	-2.660628486	
SLC25A32	0.337689088	0.072086464	2.660662718	
TALDO1	0.337623631	0.072164415	2.66008062	
LOC389137	0.337587847	0.072198926	2.659762418	
PRG2-1	-0.337561205	0.072218053	-2.65952552	

IFI16	0.337434362	0.072380408	2.658397737	
AATK	-0.337447932	0.072380408	-2.658518378	
DFNA5	0.337405616	0.072403142	2.658142167	
C18orf25	0.337342924	0.072431641	2.657584839	
AKR1C1	0.337370656	0.072431641	2.657831374	
NDUFS3	0.337353214	0.072431641	2.657676315	
MRPL15	0.337285411	0.072503015	2.657073586	
NPPB	-0.33726262	0.072515744	-2.656870997	yes
XPA	0.337150688	0.072679298	2.65587612	
TECPR1	-0.337129332	0.07268963	-2.655686314	
TAS2R39	-0.33709163	0.072701527	-2.655351247	
RHO	-0.337091241	0.072701527	-2.65534779	
TSC22D4	-0.337066081	0.072701527	-2.655124198	
UBE2Q2	0.337061331	0.072701527	2.655081986	
GLRA4	-0.336969659	0.072829037	-2.654267357	
PTTG1IP	0.336952531	0.072829037	2.654115162	
ZNF223	0.336940399	0.072829037	2.654007358	
PARP1	0.33687126	0.072843453	2.653393044	
FBXW11	0.336855834	0.072843453	2.653255989	
PYDC1	-0.336883055	0.072843453	-2.653497848	
PGK1	0.336897524	0.072843453	2.6536264	
CRADD	0.336863735	0.072843453	2.653326191	
PDZK1IP1	-0.336838574	0.072846948	-2.653102641	
MFSD6	0.336819165	0.072854094	2.652930205	
CLSTN1	0.336773633	0.072893656	2.652525693	
XKR5	-0.336765462	0.072893656	-2.652453108	
MGC24975	-0.336734098	0.072921111	-2.652174476	
TUBGCP3	0.336677259	0.072991828	2.651669568	
DAPP1	0.336617854	0.073015422	2.651141896	yes
TCP1	0.336619441	0.073015422	2.651155997	
TF	-0.336620622	0.073015422	-2.651166484	
IPO11	0.336569868	0.073071184	2.650715688	
CD320	-0.33653275	0.07310851	-2.650386015	

GPHA2	-0.336506395	0.073110116	-2.650151951	
SALL2	-0.336486353	0.073110116	-2.649973955	
ZNF747	-0.336497977	0.073110116	-2.650077189	
THOC7	0.336434413	0.073172689	2.649512692	
SGMS2	0.336361262	0.073222807	2.648863103	yes
SPINK5L2	-0.33638214	0.073222807	-2.649048501	
POU2F2	-0.336349822	0.073222807	-2.648761526	
C1QBP	0.336344426	0.073222807	2.648713612	
CAP1	0.336249011	0.073333783	2.64786642	
NLN	0.336258257	0.073333783	2.647948511	
NTNG1	-0.336197474	0.073369546	-2.647408858	
VN1R1	-0.336211505	0.073369546	-2.647533428	
GTPBP10	0.336167587	0.073369546	2.647143524	
MTRF1	0.336177546	0.073369546	2.647231937	
BCL2L11	0.336107318	0.073446559	2.646608487	
FKBP3	0.336044854	0.073501626	2.646054003	
C16orf61	0.336057363	0.073501626	2.646165047	
C11orf35	-0.335951868	0.073634665	-2.645228663	
TMEM220	0.335909358	0.073681547	2.644851372	yes
UBE2U	-0.335893389	0.07368306	-2.644709645	
UGT3A2	-0.335855103	0.073722753	-2.64436986	
SLC20A2	0.335805927	0.073781105	2.643933462	
ARPC3	0.335786465	0.073788619	2.64376075	
ADNP2	0.335727362	0.073812432	2.643236295	
STMN4	-0.335737875	0.073812432	-2.643329586	
GSG1	-0.335733867	0.073812432	-2.643294019	
ARFGEF2	0.335677732	0.073826122	2.64279593	
KLF8	0.335674211	0.073826122	2.642764691	
CD200	-0.335684768	0.073826122	-2.642858356	
OR1A1	-0.335631344	0.073848015	-2.642384352	
TAF1B	0.33563982	0.073848015	2.642459548	
PAX8	-0.335601239	0.073848086	-2.642117254	
TNFSF8	-0.335605107	0.073848086	-2.642151566	

KCNJ15	0.335572048	0.073872346	2.641858268
C21orf87	-0.335511783	0.073927964	-2.641323637
RNASE13	-0.335509543	0.073927964	-2.641303765
SNORD15B	-0.335460445	0.073986389	-2.640868226
LOC100130174	-0.335419125	0.074031513	-2.640501698
GSG1L	-0.335300281	0.074132499	-2.639447597
PA2G4	0.335326514	0.074132499	2.639680261
RFX7	0.335307152	0.074132499	2.639508536
BTA1F1	0.335335998	0.074132499	2.639764381
ABCD1	-0.33522909	0.074229057	-2.638816228
F12	-0.335033477	0.074486671	-2.637081673
LY6H	-0.335039314	0.074486671	-2.637133422
NP	0.335004658	0.074486671	2.636826159
PROP1	-0.335038252	0.074486671	-2.637124007
PVRL4	0.335004518	0.074486671	2.636824917
CNOT2	0.334988582	0.074488327	2.636683632
NXPH3	-0.334905556	0.074505592	-2.635947563
EPAS1	0.33496041	0.074505592	2.636433867
WDR21B	-0.334903757	0.074505592	-2.635931621
SNORD113-3	-0.334915857	0.074505592	-2.63603888
ZMYM4	0.334908236	0.074505592	2.635971326
C12orf64	-0.334851256	0.074551838	-2.635466206
PCMT1	0.33484704	0.074551838	2.635428839
MGC39372	-0.334813835	0.074557577	-2.635134495
PAH	-0.334825393	0.074557577	-2.635236946
SLC16A1	0.334778652	0.074592505	2.634822633
ADPRHL1	-0.334731566	0.074631088	-2.634405287
CAB39	0.334726436	0.074631088	2.634359817
LOC389458	-0.334659019	0.074695956	-2.633762311
ASB16	-0.334661126	0.074695956	-2.633780985
MMAA	0.334595354	0.07475441	2.633198092
AGPAT5	0.334601395	0.07475441	2.633251632
PTPDC1	-0.334468304	0.074941021	-2.632072265

HNRNPF	0.334457648	0.074941021	2.631977851	yes
MRPS31	0.33440467	0.075006966	2.631508454	yes
ZNF823	0.334358709	0.075060797	2.631101249	yes
HSPA12B	-0.334295121	0.075124744	-2.630537905	
KRTAP19-8	-0.334292044	0.075124744	-2.630510643	
ZFP41	-0.33425644	0.075135951	-2.630195237	
KIAA1128	0.334240927	0.075135951	2.630057816	
ZNF217	0.334245425	0.075135951	2.630097659	
MAGEB2	-0.334208029	0.075141411	-2.629766403	
LRIG2	0.33421761	0.075141411	2.629851268	
PTPN9	0.334173896	0.075146921	2.629464058	
RLBP1	-0.334160261	0.075146921	-2.62934328	
SPSB4	-0.334182291	0.075146921	-2.629538418	yes
DLST	0.334143511	0.075150207	2.629194921	
PECI	-0.334117114	0.075170237	-2.628961109	
NUP210L	-0.333986704	0.075370939	-2.627806139	yes
TMEM45B	0.333926572	0.07543978	2.627273637	
C17orf66	-0.333902591	0.07543978	-2.627061283	
TNF	-0.333916095	0.07543978	-2.627180857	
CCT2	0.333736377	0.075545037	2.625589591	
SOX21	0.333798356	0.075545037	2.626138336	
CSNK2A1	0.333664345	0.075545037	2.624951893	yes
EPB42	-0.333669072	0.075545037	-2.624993741	
KLHL20	0.333675547	0.075545037	2.62505106	
C1orf167	-0.333687839	0.075545037	-2.625159881	
DNTTIP2	0.333731944	0.075545037	2.625550348	
ZNF260	0.333706388	0.075545037	2.625324099	
ANKRD18B	0.333693074	0.075545037	2.62520623	
GARNL3	-0.333746375	0.075545037	-2.625678114	
FBN3	-0.333668087	0.075545037	-2.624985025	
FCGBP	-0.333686728	0.075545037	-2.625150043	
RNU12	-0.333579605	0.075666904	-2.62420176	
C1orf83	0.33353087	0.075702248	2.623770382	

MXRA8	-0.333529766	0.075702248	-2.623760608	
FLJ13224	-0.333502476	0.075724068	-2.623519062	
SMCR7	-0.333410726	0.075732455	-2.622707021	
TXNDC12	0.333429403	0.075732455	2.622872317	
PPP1R9A	-0.333409085	0.075732455	-2.622692497	
C9orf80	0.333427419	0.075732455	2.622854757	
TAF11	0.333458706	0.075732455	2.623131663	
PLA2G12A	-0.333434006	0.075732455	-2.622913058	
C15orf60	-0.333299138	0.075898622	-2.621719517	yes
NME4	-0.333264363	0.075933616	-2.6214118	yes
CDO1	-0.333173769	0.075952987	-2.620610211	
TREX2	-0.333166058	0.075952987	-2.620541987	
FGF5	-0.333111451	0.075952987	-2.620058857	
RASD2	-0.333106015	0.075952987	-2.620010761	
TMEM98	-0.333172305	0.075952987	-2.620597256	
OSBPL3	0.333234752	0.075952987	2.62114979	yes
MTPAP	0.333151898	0.075952987	2.620416701	
SFRS2	0.333127138	0.075952987	2.620197646	
SLC6A7	-0.333143226	0.075952987	-2.620339978	
SLC25A18	-0.333188314	0.075952987	-2.620738905	
ZDHHHC8P	-0.333009445	0.076096145	-2.619156447	
LOC387745	-0.332993842	0.076097721	-2.619018425	
GNB2L1	0.332919625	0.076146802	2.618361937	
SUPT16H	0.332932101	0.076146802	2.618472283	
RNF157	-0.33287614	0.076146802	-2.617977311	
ICK	0.332848328	0.076146802	2.617731325	
PDPR	0.332932499	0.076146802	2.618475803	
TMEM19	0.332848606	0.076146802	2.617733776	
COLQ	-0.332885017	0.076146802	-2.618055826	
H2AFV	0.332891682	0.076146802	2.618114777	
FARSB	0.332693602	0.076160109	2.616362963	
GPHN	0.332755596	0.076160109	2.616911196	
ZMPSTE24	0.332778464	0.076160109	2.617113431	

SPEG	-0.332724323	0.076160109	-2.616634635	yes
CTSW	-0.332668427	0.076160109	-2.616140345	
C2orf69	0.332761152	0.076160109	2.61696033	
FLJ40448	-0.332772024	0.076160109	-2.617056475	
ARHGAP9	-0.332705474	0.076160109	-2.616467952	
CCT3	0.332665021	0.076160109	2.616110225	
BTNL8	-0.332821739	0.076160109	-2.61749616	
DOK3	-0.332731763	0.076160109	-2.616700433	
LAGE3	-0.332684269	0.076160109	-2.616280433	
MRPS35	0.332613792	0.076224191	2.615657243	
MRPL18	0.33259245	0.076235975	2.615468529	
FAM159A	-0.33255547	0.076275154	-2.615141566	
METTL7B	-0.332521405	0.076309249	-2.614840376	yes
C9orf31	-0.332485665	0.076346294	-2.614524403	
FUT10	0.332434395	0.076410599	2.614071138	
RAB12	0.332357903	0.076416834	2.613394948	
OTX2	-0.332365934	0.076416834	-2.61346594	
C7orf36	0.33236628	0.076416834	2.613469003	
LTV1	0.332391268	0.076416834	2.613689892	
NUPL1	0.332388316	0.076416834	2.613663793	yes
PRR18	-0.332253291	0.07657488	-2.612470274	
WDHD1	0.332155621	0.076660569	2.61160705	
SIRPD	-0.332146259	0.076660569	-2.611524319	
RFPL4B	-0.332177042	0.076660569	-2.611796364	
MAPK1IP1L	0.33215642	0.076660569	2.611614115	
LOC100128840	-0.332105177	0.076692091	-2.611161263	
HMGXB4	0.332084664	0.076692091	2.610979986	
XPNPEP2	-0.332092891	0.076692091	-2.611052686	
HIST1H2BK	0.332067222	0.07669718	2.610825854	
ALOX5	-0.331976726	0.076830848	-2.610026206	
AFF2	-0.331952572	0.076847775	-2.609812786	
MRPL47	0.331923272	0.076873778	2.609553904	
TMEM221	-0.33187542	0.07688228	-2.609131128	

RHOH	-0.331874925	0.07688228	-2.609126756	
VILL	0.331864516	0.07688228	2.60903479	
ZNHIT6	0.331816777	0.07688228	2.608613045	
FABP12	-0.331835564	0.07688228	-2.608779013	
CRELD2	-0.331837221	0.07688228	-2.608793651	
ACBD5	0.33182143	0.07688228	2.608654151	
OLIG1	-0.331777373	0.07689685	-2.608264942	
SLC32A1	-0.331768547	0.07689685	-2.608186979	
LOC346329	-0.331762684	0.07689685	-2.608135182	
SGCE	-0.3317505	0.07689685	-2.608027557	
PAX2	-0.331719163	0.076926527	-2.607750742	
EYA3	0.331658562	0.07695473	2.607215451	
SAC3D1	-0.331631308	0.07695473	-2.606974724	
GUCY2D	-0.331630758	0.07695473	-2.606969867	
WDR26	0.33167105	0.07695473	2.607325756	yes
B4GALT6	0.33164192	0.07695473	2.607068456	
OR51B6	-0.331610616	0.076964729	-2.606791968	
KCNN4	-0.331591171	0.076973507	-2.606620227	
LOC100133316	-0.331571123	0.076975883	-2.606443163	
MMEL1	-0.331560906	0.076975883	-2.606352931	
OR10H5	-0.331520457	0.076996237	-2.605995699	
C11orf17	0.331534439	0.076996237	2.606119178	
RIN3	-0.331456107	0.077084235	-2.605427427	
HSPA4L	0.331421192	0.077120357	2.605119107	yes
PLEKHA4	-0.331372432	0.077155456	-2.604688544	
RSC1A1	0.331373415	0.077155456	2.604697228	
SCYL2	0.331282504	0.077237825	2.603894534	
RPL17	0.331292949	0.077237825	2.603986751	
ADAMTS10	-0.331308158	0.077237825	-2.604121035	yes
LOC100133373	0.331235295	0.077295766	2.603477738	
VWC2	-0.331206177	0.077321754	-2.603220668	
LOC100128979	-0.331156789	0.077383611	-2.60278467	
ST3GAL5	-0.331138285	0.077390849	-2.602621324	

EVX1	-0.331098028	0.077436593	-2.602265959
SIGLEC7	-0.330980911	0.077618591	-2.60123221
TRAFD1	0.33077168	0.077720189	2.599385743
PRDX3	0.330865421	0.077720189	2.60021296
NUDCD2	0.330836291	0.077720189	2.599955892
CHST13	-0.330850962	0.077720189	-2.600085363
RASSF6	0.330897756	0.077720189	2.600498322
OR8K5	-0.330798572	0.077720189	-2.599623044
ZNF774	-0.330805846	0.077720189	-2.599687236
ATP5C1	0.330772686	0.077720189	2.599394621
ROPN1	-0.330793772	0.077720189	-2.599580692
DNAJC11	0.330765384	0.077720189	2.599330187
RAC1	0.330886242	0.077720189	2.600396707
NBPF7	-0.330738073	0.077743167	-2.59908921
VPRBP	0.330662457	0.077851968	2.598422028
RAB7A	0.33062524	0.077885761	2.598093668
MFAP5	-0.33061473	0.077885761	-2.598000941
ITPR2	-0.330543984	0.077986066	-2.597376819
NKX6-1	-0.330445035	0.078136743	-2.596503958
LOC645225	-0.3304175	0.078160246	-2.596261083
ZFP92	-0.330344988	0.078255876	-2.595621521
KCNJ8	-0.330335196	0.078255876	-2.595535157
ANXA6	-0.330286083	0.07831795	-2.595102004
OR8G2	-0.330268082	0.078324488	-2.594943255
C1orf130	-0.330245503	0.078339211	-2.594744128
FRG2C	-0.330196525	0.078375503	-2.594312217
TAS1R1	-0.330206783	0.078375503	-2.59440267
ESCO2	0.330063628	0.078572314	2.593140369
CUL5	0.330052574	0.078572314	2.593042905
RTBDN	-0.330043508	0.078572314	-2.592962976
PLK4	0.330005082	0.078615482	2.59262419
CD248	-0.329974756	0.078618529	-2.592356821
MFN2	0.329977718	0.078618529	2.592382933

DOPEY1	0.329896338	0.078633283	2.591665505	yes
CAND2	-0.329895023	0.078633283	-2.591653911	
MFGE8	-0.329913758	0.078633283	-2.591819074	
PHF17	-0.329925511	0.078633283	-2.591922681	
C16orf59	-0.329924215	0.078633283	-2.59191126	
LOC100133337	0.32983351	0.078717889	2.591111672	
FDX1L	-0.329814363	0.078720927	-2.590942898	
TMEM64	0.329803233	0.078720927	2.590844791	
LOC284837	-0.329788972	0.078720927	-2.590719089	
ANKRD13C	0.329767298	0.07873419	2.590528051	
SIX5	-0.329737916	0.078757791	-2.590269081	
TBX15	-0.329722267	0.078757791	-2.590131149	
CTR9	0.329711334	0.078757791	2.590034789	
CSTF3	0.329685223	0.078779039	2.589804664	
KCNK18	-0.329669806	0.078781123	-2.589668788	
TPO	-0.329633491	0.078820687	-2.58934875	yes
ACTR2	0.329590091	0.078821888	2.588966275	
CHKA	-0.32961289	0.078821888	-2.589167198	
PAGE3	-0.329597188	0.078821888	-2.589028817	
KRT8	0.329550494	0.078867378	2.588617338	
C11orf53	-0.329516887	0.078876608	-2.588321202	
HP1BP3	0.329520743	0.078876608	2.588355181	
GSK3B	0.329483072	0.07891176	2.588023243	yes
WARS2	0.329335298	0.07912175	2.586721263	
APT X	0.32930932	0.07912175	2.586492397	yes
AKR1B10	0.329320064	0.07912175	2.586587051	
ZNF7	0.329347674	0.07912175	2.586830295	
DHX8	0.329277642	0.079129996	2.586213327	
LCE3C	-0.329245885	0.079129996	-2.585933575	
GLOD5	-0.329242643	0.079129996	-2.58590502	
POU3F2	-0.329270712	0.079129996	-2.586152278	
C15orf44	0.329233715	0.079129996	2.585826372	
FAM122B	0.329136949	0.079153038	2.584974014	

DNASE1L3	0.329140685	0.079153038	2.585006923	
CLIP1	0.329188921	0.079153038	2.585431795	yes
TSEN34	-0.329190354	0.079153038	-2.585444417	
DEK	0.329135807	0.079153038	2.584963953	
TNFSF9	-0.329146113	0.079153038	-2.585054732	
JPH3	-0.329096033	0.079196924	-2.584613637	
HERPUD2	0.329083072	0.079196924	2.58449948	
USP34	0.3290123	0.079298816	2.583876186	
PRDM13	-0.3289674	0.079328681	-2.583480773	
HS1BP3	-0.328972775	0.079328681	-2.583528109	
WAPAL	0.328894766	0.079434079	2.582841156	
KIAA1881	-0.328783292	0.079609738	-2.581859627	
LOC146336	-0.328762557	0.07962163	-2.581677067	
HES7	-0.328745695	0.079626531	-2.581528608	
ACPT	-0.32873012	0.079629115	-2.58139148	
TSHZ1	0.328676546	0.079674824	2.580919828	
DCUN1D1	0.328678859	0.079674824	2.580940197	
BEX1	-0.32862241	0.079721591	-2.580443263	
RPL36AL	0.328625203	0.079721591	2.580467845	
FLJ25006	0.328527101	0.079778597	2.579604301	
C20orf165	-0.328553592	0.079778597	-2.579837482	
AOF2	0.328473881	0.079778597	2.579135868	
PKN3	-0.328466922	0.079778597	-2.579074625	yes
IGHE	-0.328484309	0.079778597	-2.579227654	
LOC407835	-0.328476818	0.079778597	-2.579161723	
LIN7C	0.328537808	0.079778597	2.579698547	
TSG101	0.328509364	0.079778597	2.579448183	
CCNB2	0.328463867	0.079778597	2.579047733	
EFHD2	0.328345426	0.079967509	2.578005351	
CCDC80	0.328265278	0.079993811	2.577300058	
TPRG1	0.328246395	0.079993811	2.577133905	
KIF3C	-0.328315426	0.079993811	-2.577741354	
EXD3	-0.328256185	0.079993811	-2.57722005	yes

C14orf106	0.328259296	0.079993811	2.577247421
LUZP1	0.328277009	0.079993811	2.577403288
FSCB	-0.328228203	0.080001276	-2.576973825
TOMM22	0.328166146	0.080062771	2.576427795
TNFSF13	-0.328174794	0.080062771	-2.576503889
HEATR3	0.328133395	0.080074218	2.576144527
ADIPOR2	0.32813171	0.080074218	2.576124821
ZNF828	0.32808203	0.080138843	2.575687734
WDR40A	0.328050176	0.080145649	2.575407497
NOL10	0.32805052	0.080145649	2.575410521
YIPF2	-0.328030422	0.080156006	-2.575233718
NSUN4	0.327969842	0.080190874	2.574700799
ERGIC2	0.327996112	0.080190874	2.574931889
ZNF124	0.327969094	0.080190874	2.574694218
PADI1	0.327910925	0.080271022	2.574182546
MKNK1	0.327893937	0.080276397	2.574033117
SNORD116-8	-0.327824058	0.080290636	-2.573418492
MAGEB16	-0.327820082	0.080290636	-2.57338353
SLC38A8	-0.327816005	0.080290636	-2.573347669
GOT2	0.32781761	0.080290636	2.573361781
QRFPR	-0.327836255	0.080290636	-2.573525767
C4orf35	-0.327797451	0.080298896	-2.573184484
HES6	-0.327764664	0.080333022	-2.572896134
BCL2L15	0.327744239	0.080344698	2.5727165
TSSK4	-0.327708565	0.0803841	-2.57240277
PIGB	0.327682413	0.080406204	2.572172794
FLJ44054	-0.327661484	0.08041882	-2.57198875
C15orf2	-0.327631376	0.080448139	-2.571723998
OR52A1	-0.327609302	0.080462855	-2.571529898
SLURP1	-0.327516717	0.08060596	-2.570715826
ZNF385C	-0.327489266	0.080630506	-2.57047447
CCR10	-0.327437318	0.080665297	-2.570017762
C9orf119	-0.327447622	0.080665297	-2.570108353

FAM110B	-0.327428255	0.080665297	-2.56993808	
MSX2	-0.327410942	0.080671395	-2.569785882	
CHMP5	0.327370154	0.080720303	2.569427309	yes
NXF3	-0.327343438	0.080743566	-2.569192462	
FOXE3	-0.327301722	0.080768748	-2.568825766	
UBC	0.327301758	0.080768748	2.568826081	
C1orf95	-0.327285348	0.080773169	-2.568681837	
KIAA0368	0.327258726	0.080796296	2.56844783	
C6orf191	-0.327218096	0.080819557	-2.568090708	
FAM71E2	-0.327230277	0.080819557	-2.568197775	
BLOC1S3	-0.327152385	0.08084742	-2.567513173	yes
FLJ45256	-0.327147105	0.08084742	-2.56746677	
DLEU2	0.327186367	0.08084742	2.567811836	
SIGLEC12	-0.327163337	0.08084742	-2.567609434	
HOXD10	-0.327078949	0.080932857	-2.566867794	
MYC	0.327060519	0.080932857	2.566705835	
UGT1A9	0.327044644	0.080932857	2.566566327	
CDC42BPA	0.327048817	0.080932857	2.566603001	
MAGEB4	-0.326963149	0.081030954	-2.565850209	
BRWD1	0.32696866	0.081030954	2.565898637	
INO80B	-0.32694252	0.081043249	-2.565668947	
VAMP8	0.326836596	0.081211661	2.564738279	
HIPK3	0.3267704	0.081231101	2.564156729	yes
ECE1	0.326774836	0.081231101	2.564195699	
ACR	-0.32678823	0.081231101	-2.564313367	
C20orf74	0.326796174	0.081231101	2.564383151	
HRH3	-0.326620521	0.081327752	-2.562840145	
VPS37D	-0.326645002	0.081327752	-2.563055175	
NID2	-0.326625766	0.081327752	-2.562886216	
UBXN4	0.326623929	0.081327752	2.562870074	
LOC100133407	-0.326698439	0.081327752	-2.563524572	
C3orf38	0.326641184	0.081327752	2.563021642	
CACNG8	-0.32666923	0.081327752	-2.563267991	

SYK	0.326597133	0.081345215	2.562634711	
ZNF800	0.326519154	0.081462836	2.561949824	
NDRG2	-0.326419309	0.081595317	-2.561072977	
B3GNT5	0.326428626	0.081595317	2.561154791	yes
LOC100133075	-0.326367142	0.081665758	-2.560614877	
GRIN2D	-0.326333557	0.081702055	-2.560319972	
EIF3E	0.326291166	0.081749058	2.559947753	
NDUFA3	-0.326277605	0.081749058	-2.559828682	
PPAPDC3	-0.326266477	0.081749058	-2.559730971	
LOC100130507	-0.326238273	0.081750031	-2.559483342	
RASSF2	-0.326242705	0.081750031	-2.559522251	
ALCAM	0.326064512	0.081890893	2.557957884	
FABP3	-0.326051212	0.081890893	-2.557841131	
LOC29034	-0.32607545	0.081890893	-2.558053897	
TFB1M	0.326075359	0.081890893	2.558053098	
DUSP21	-0.326096673	0.081890893	-2.558240207	
CORO2A	0.326092187	0.081890893	2.558200819	
BRIP1	0.32605731	0.081890893	2.557894665	
KIAA0317	0.326053173	0.081890893	2.557858344	yes
POLR3K	0.32601523	0.081922827	2.557525285	
LOC730241	-0.326006274	0.081922827	-2.557446668	
AGFG1	0.325904876	0.082084393	2.556556685	
SLC9A9	0.325882122	0.082100924	2.556356982	
ABCC4	0.325839617	0.082103008	2.555983942	
COL9A3	-0.325850603	0.082103008	-2.556080361	
SFRS3	0.325853074	0.082103008	2.556102049	
RNF111	0.325746452	0.082224168	2.555166367	
RPAP3	0.325753176	0.082224168	2.555225369	
IGFALS	-0.325701422	0.082281939	-2.554771225	
PHAX	0.325619834	0.082381904	2.554055347	
HSPB3	-0.325628804	0.082381904	-2.554134049	
OR4K2	-0.325595521	0.082382649	-2.553842032	
SOX17	-0.325591644	0.082382649	-2.553808008	

SHCBP1	0.325578123	0.082382649	2.553689385	
FAM71B	-0.325551494	0.082406464	-2.553455757	
SMNDC1	0.325496755	0.082482349	2.552975525	
LCE1F	-0.325482998	0.082482349	-2.552854846	
SCAND3	-0.325439216	0.082537988	-2.552470772	
FCHSD2	0.32533291	0.082709679	2.551538277	
RFTN1	-0.32530279	0.082740072	-2.551274099	
CDH3	0.325231928	0.082744073	2.550652597	
GPC2	-0.325249654	0.082744073	-2.55080806	
ACAD9	0.325265432	0.082744073	2.55094644	
ANO1	-0.325241214	0.082744073	-2.550734039	
TARBP2	-0.325238776	0.082744073	-2.550712656	
SYDE1	-0.325194889	0.082787361	-2.550327762	yes
AGPAT3	0.325154509	0.082836881	2.549973638	
ZNF846	0.325140747	0.082836949	2.549852953	
RASIP1	-0.32508682	0.082911691	-2.549380062	yes
HPN	-0.325072673	0.082912485	-2.549256009	
ETFA	0.325014725	0.08298367	2.5487479	
OXGR1	-0.325006001	0.08298367	-2.548671406	
CXCL3	-0.324993265	0.08298367	-2.548559735	
LYZL1	-0.324924599	0.083085989	-2.547957695	
C5orf24	0.324818453	0.083124066	2.547027132	
VKORC1L1	0.324814645	0.083124066	2.546993755	
LSM14A	0.324821881	0.083124066	2.54705719	
ZSCAN1	-0.324862992	0.083124066	-2.547417585	
HOXD11	-0.324841372	0.083124066	-2.547228049	
GALNT9	-0.324800493	0.083124066	-2.546869695	
TMEM116	0.324816386	0.083124066	2.547009015	
MTDH	0.324794607	0.083124066	2.546818095	
CHRNA4	-0.324773965	0.083137038	-2.546637151	
ABTB2	-0.324717454	0.083197201	-2.546141797	
HSD17B12	0.324700663	0.083197201	2.545994624	
CENPK	0.324710184	0.083197201	2.546078071	

LOC100133333	0.324684492	0.08319762	2.545852882	yes
CISH	-0.324618501	0.08319762	-2.545274486	
GTF3A	0.324640356	0.08319762	2.545466039	
PVALB	-0.324630264	0.08319762	-2.545377589	
VPS33A	0.324656704	0.08319762	2.545609324	
SNCA	0.324638694	0.08319762	2.545451469	
CMTM1	-0.324497606	0.083262067	-2.544214988	
ASB11	-0.324527878	0.083262067	-2.544480269	
HK1	0.324488484	0.083262067	2.544135053	
MYBPC1	-0.324537979	0.083262067	-2.544568795	
PTPLAD1	0.324512455	0.083262067	2.544345118	
RBAK	0.324523241	0.083262067	2.54443964	
BDKRB2	0.324534942	0.083262067	2.544542183	
COL8A1	-0.324398909	0.083363664	-2.54335013	
ARHGAP4	-0.324397007	0.083363664	-2.54333346	
GDPD5	-0.324393153	0.083363664	-2.543299696	
MIOS	0.324330982	0.083403493	2.542754959	
STXBP3	0.324347863	0.083403493	2.542902867	
ZNF436	0.324331131	0.083403493	2.542756261	
ADAM11	-0.32427748	0.083427207	-2.542286206	
PELI1	0.324287203	0.083427207	2.542371386	
ZNF804A	-0.324288751	0.083427207	-2.542384956	
PRR14	-0.324197992	0.083550276	-2.541589829	
PRPF38B	0.324173763	0.083570157	2.541377574	
LILRA1	-0.32415547	0.083578685	-2.541217329	
CRYBB1	-0.324142027	0.083578685	-2.541099569	
MRPS9	0.324126403	0.083582503	2.540962705	
ZNF365	-0.324069365	0.083612218	-2.540463089	
R3HDM1	0.324064746	0.083612218	2.540422633	
KLHL34	-0.324095862	0.083612218	-2.54069518	yes
TMEM160	-0.324056214	0.083612218	-2.540347895	
OR6B3	-0.323999986	0.083692	-2.53985541	
FAM33A	0.323964605	0.083731161	2.539545532	

ZFP62	0.323951933	0.083731161	2.539434551	
SP7	-0.323858706	0.083766816	-2.538618103	
OR2T4	-0.323817571	0.083766816	-2.538257884	
DNAJB1	0.323797468	0.083766816	2.538081855	
NPHS1	-0.323820239	0.083766816	-2.53828125	
HSPA14	0.323799058	0.083766816	2.538095778	
ANKIB1	0.323910288	0.083766816	2.539069831	
SMURF1	0.323871398	0.083766816	2.538729248	
PINK1	-0.323850961	0.083766816	-2.538550276	
FLJ38576	-0.323832323	0.083766816	-2.538387064	
STK17A	0.323835344	0.083766816	2.538413522	
PGBD2	0.32372979	0.083847784	2.537489251	
MCF2	-0.323713655	0.083847784	-2.537347972	
ZSCAN21	-0.323713668	0.083847784	-2.537348084	
ERP27	-0.323654404	0.083862001	-2.5368292	
PBK	0.323663743	0.083862001	2.536910963	
BARHL1	-0.323652029	0.083862001	-2.536808402	
CACNB1	-0.323669835	0.083862001	-2.536964304	
PGLYRP1	-0.3236377	0.083863552	-2.536682957	
C10orf18	0.323605591	0.083898408	2.536401846	
MYSM1	0.323572597	0.083920681	2.536112993	
FBXO40	-0.323566716	0.083920681	-2.536061514	
GALNTL1	-0.323532961	0.083958655	-2.535766013	yes
MIS12	0.323468123	0.084054934	2.535198437	yes
LOC100128292	-0.323425934	0.084108791	-2.534829147	
KIR3DL2	-0.323325504	0.084272096	-2.533950128	
SLC24A4	-0.323297525	0.084299351	-2.533705255	
OR7D2	-0.323221858	0.084416341	-2.53304306	
C7orf51	-0.323124854	0.084548281	-2.532194211	
PNPLA8	0.323137633	0.084548281	2.532306028	
ANGEL2	0.323101475	0.084566951	2.53198964	
PSG2	-0.32306447	0.08461132	-2.531665857	
BXDC5	0.323041502	0.084629235	2.531464896	

OBFC2A	0.322985846	0.084708836	2.530977958
PNPLA5	-0.322939894	0.084734631	-2.530575935
GPR177	0.322954587	0.084734631	2.530704477
SIGLEC5	-0.322931799	0.084734631	-2.530505122
TPPP2	-0.322794432	0.084867081	-2.529303475
HDCC2	0.322818855	0.084867081	2.529517104
PNMAL1	-0.322832767	0.084867081	-2.529638799
CDCA7L	0.322799727	0.084867081	2.529349787
BAAT	-0.322845815	0.084867081	-2.529752938
BLCAP	0.32276513	0.084892601	2.529047172
GHDC	-0.322754053	0.084892601	-2.528950287
CLDN12	0.322731517	0.08490981	2.528753167
OR14I1	-0.322705249	0.084934079	-2.528523425
FLJ44606	0.322684167	0.084948553	2.52833904
TMC8	-0.322655449	0.08495522	-2.528087875
GLE1	0.322653796	0.08495522	2.528073419
CSRP3	-0.322603281	0.085025394	-2.527631633
MASP1	-0.3225024	0.085165605	-2.526749456
CPEB1	-0.322512164	0.085165605	-2.526834838
ADCY8	-0.322440806	0.085243029	-2.526210877
DYNC11I	-0.322434729	0.085243029	-2.526157742
SEC24B	0.322298978	0.085268124	2.524970867
C14orf83	0.322373874	0.085268124	2.525625665
RP11-218C14.6	-0.322332726	0.085268124	-2.52526591
R3HDM2	0.322260834	0.085268124	2.524637405
NUP205	0.322279988	0.085268124	2.524804851
OSBP2	-0.322289789	0.085268124	-2.524890537
GADD45B	-0.322352889	0.085268124	-2.525442188
ATP1B2	-0.322391987	0.085268124	-2.52578403
ATP13A3	0.322373982	0.085268124	2.525626603
PPCS	0.32229817	0.085268124	2.524963801
ELOF1	-0.322268725	0.085268124	-2.52470639
NPEPPS	0.322325061	0.085268124	2.525198896

MEP1A	-0.322187797	0.085381294	-2.523998936	
HMGCR	0.322148824	0.085429897	2.523658268	
C1orf213	-0.322027271	0.085635496	-2.522595851	
DACH2	-0.321987272	0.085653285	-2.522246271	
IBTK	0.321977837	0.085653285	2.522163816	
LIN28B	-0.322003339	0.085653285	-2.52238669	
SERPINI1	-0.321909146	0.085688012	-2.521563529	
RAB4B	-0.321933577	0.085688012	-2.52177702	
TAOK1	0.32191159	0.085688012	2.521584883	
CXCL12	-0.321906185	0.085688012	-2.521537651	
FGF19	-0.321856238	0.085757684	-2.521101193	
TNFRSF4	-0.321787021	0.085864127	-2.52049638	
ARID5B	0.321759292	0.085891556	2.5202541	
LOC100133430	-0.32172647	0.085903285	-2.519967334	
DSCR8	-0.321739342	0.085903285	-2.520079794	
LMTK2	0.321695741	0.085911051	2.519698859	
SOS1	0.321701283	0.085911051	2.519747279	
C11orf73	0.321610664	0.086022504	2.518955601	
PSMA2	0.321613145	0.086022504	2.518977267	
UBE2E3	-0.321574613	0.086058318	-2.51864067	
C8G	-0.321565266	0.086058318	-2.518559011	
RGS19	-0.32150925	0.086139864	-2.5180697	
ANK3	0.32149503	0.0861416	2.517945492	yes
C1orf71	0.321442312	0.086216911	2.517485026	
FLJ10404	-0.321376765	0.086316825	-2.516912533	yes
C17orf50	-0.321320682	0.086373239	-2.516422736	
ZNF703	-0.321327258	0.086373239	-2.516480168	
GAS2L1	-0.321237901	0.086448529	-2.515699828	
DUSP15	-0.321228184	0.086448529	-2.515614976	
FLJ45139	-0.32124433	0.086448529	-2.515755975	
IQSEC3	-0.321239695	0.086448529	-2.5157155	
PPP1R13B	0.321188503	0.086499096	2.515268478	
CPNE8	0.321159953	0.086507184	2.515019188	

MYO5B	0.321123931	0.086507184	2.51470466	
MTERFD1	0.321150363	0.086507184	2.514935447	
JPH2	-0.321124485	0.086507184	-2.5147095	yes
TMEM41A	0.321117887	0.086507184	2.514651893	
SPDYE1	-0.32106815	0.086577084	-2.514217634	
LMAN1L	-0.321041938	0.086601908	-2.51398878	
RBM7	0.321003	0.086625713	2.513648837	
TNNT1	-0.32100605	0.086625713	-2.513675472	
CDK7	0.320915326	0.086768542	2.512883463	
C21orf29	-0.320892925	0.086786102	-2.512687925	
EIF3M	0.3207461	0.086890068	2.51140636	
TNFRSF13C	-0.320757688	0.086890068	-2.511507506	
LRRC58	0.320789892	0.086890068	2.511788584	
SLC25A40	0.320793553	0.086890068	2.511820534	
GPBP1L1	0.320751492	0.086890068	2.511453424	
TPM2	-0.320753961	0.086890068	-2.511474973	
VTN	-0.320807866	0.086890068	-2.511945464	
LOC347549	-0.320726805	0.086901718	-2.511237966	
ZDHHC2	0.32068919	0.086948606	2.510909677	
FURIN	-0.320661097	0.086951757	-2.51066451	
PPP1R14A	-0.320668533	0.086951757	-2.510729399	
SLC30A9	0.320599097	0.086969317	2.510123458	
PHF1	-0.320628258	0.086969317	-2.510377932	
OTOR	-0.320623656	0.086969317	-2.510337768	
CTSF	-0.320606884	0.086969317	-2.510191409	
PSORS1C2	-0.320560367	0.087015888	-2.509785488	
KHK	-0.32054847	0.087015888	-2.509681675	
PITRM1	0.320506688	0.08702252	2.509317095	
RP11-410N8.4	-0.320505422	0.08702252	-2.509306045	
NUP37	0.320528112	0.08702252	2.509504036	
TMEM63B	0.320466651	0.087071734	2.508967762	
ZNF585B	0.320450866	0.087076726	2.508830031	
ZBTB41	0.320433679	0.087084421	2.508680081	

LOC100132014	-0.320413141	0.087098574	-2.508500885	
LOC129293	-0.320395563	0.087107034	-2.508347528	
ADA	-0.320299838	0.087209461	-2.507512412	
CCDC58	0.320325906	0.087209461	2.507739827	
C20orf201	-0.320276507	0.087209461	-2.507308883	
GAP43	-0.32027939	0.087209461	-2.507334041	
KIF26A	-0.32030815	0.087209461	-2.507584927	
RASL11B	-0.320261007	0.087213959	-2.507173673	
FOXN4	-0.320219935	0.087217032	-2.506815405	
CRYL1	-0.320226589	0.087217032	-2.506873449	
NEURL	-0.320226258	0.087217032	-2.506870555	
RAB21	0.320198695	0.087218127	2.506630127	
CCDC90B	0.320193066	0.087218127	2.50658103	
SAA1	-0.320173883	0.087229756	-2.506413709	
HSF5	-0.320094729	0.087247036	-2.505723324	
CRYBA1	-0.320086104	0.087247036	-2.505648095	
ZNF283	0.320097629	0.087247036	2.505748609	
TRIM54	-0.320131744	0.087247036	-2.506046159	yes
ITFG1	0.320127086	0.087247036	2.50600553	
PSMD6	0.320095032	0.087247036	2.505725967	
NAB1	0.320025915	0.087337731	2.505123168	
CHD4	0.320008241	0.087346506	2.504969032	
RHOA	0.319990153	0.087356085	2.504811293	
SCARF1	-0.319923392	0.087459562	-2.504229108	
SLAIN2	0.319876916	0.087523963	2.503823843	
C1orf211	-0.319849164	0.087526915	-2.503581858	
SQRDL	0.31985223	0.087526915	2.503608589	
FHOD1	-0.319813056	0.087571337	-2.503267025	
RLIM	0.319754177	0.0875903	2.502753666	
TMEM63C	0.319772859	0.0875903	2.502916548	
PLEKHA2	0.31975084	0.0875903	2.502724574	
LIN7A	-0.319770366	0.0875903	-2.50289481	
CEBPA	-0.319682508	0.087600537	-2.502128849	

SCRG1	-0.319704394	0.087600537	-2.502319649	
MKL1	-0.319680112	0.087600537	-2.502107958	
FRAS1	0.319705356	0.087600537	2.50232803	
NR1I2	-0.319706602	0.087600537	-2.502338897	
GADD45G	-0.319645936	0.087641298	-2.501810026	
CYGB	-0.3195811	0.08774136	-2.501244829	
RBM12	0.319554104	0.08776829	2.501009511	
ZNF621	0.319514715	0.087769007	2.500666177	
GTF2E1	0.319513483	0.087769007	2.500655442	
C14orf169	-0.31952811	0.087769007	-2.500782932	
RTCD1	0.319501472	0.087769007	2.500550756	yes
PAP2D	-0.319472797	0.087799218	-2.500300823	
DLGAP4	-0.319450257	0.087806366	-2.500104368	
LOC441108	-0.319442996	0.087806366	-2.500041084	
CALN1	-0.319394193	0.08785195	-2.49961574	
ZNF830	0.319393344	0.08785195	2.499608342	
ALPPL2	-0.319378111	0.087856189	-2.499475587	
TMEM18	0.319333994	0.087916347	2.499091116	
ABCB6	0.319267676	0.087934776	2.498513202	
ZNF593	-0.319259319	0.087934776	-2.498440376	
LEF1	0.319310769	0.087934776	2.49888872	
RPE65	-0.319277461	0.087934776	-2.498598463	
ALS2CR4	0.319276955	0.087934776	2.498594061	
CUL4A	0.319234603	0.08795742	2.498225009	
LOC100130356	-0.319063005	0.088239685	-2.496729896	
DIRAS1	-0.319072701	0.088239685	-2.496814369	
RPL23AP12	-0.319031615	0.088275362	-2.496456426	
ERI2	0.318983792	0.088316405	2.496039811	
HRASLS5	-0.318971446	0.088316405	-2.495932264	
NARG2	0.318990897	0.088316405	2.496101707	
DMRT2	0.318958034	0.08831719	2.495815429	
KIAA2013	-0.318930947	0.088344553	-2.495579471	
ME1	0.318908307	0.088363283	2.495382256	

PDCD6IP	0.318822642	0.088479309	2.494636095	yes
C2orf70	-0.318830331	0.088479309	-2.49470307	
C4orf41	0.318804981	0.088488387	2.494482267	
SBNO1	0.318774901	0.088521636	2.494220291	
CDH12	-0.318730698	0.088565122	-2.493835312	
ELP3	0.318726583	0.088565122	2.493799479	
SMURF2	0.318711174	0.088569842	2.493665285	
FAM101A	-0.318694941	0.088576172	-2.493523915	
TH1L	0.318664355	0.088610456	2.493257556	
SLC6A15	0.318626752	0.088658427	2.492930096	
ARMCX2	-0.318583385	0.088717656	-2.492552464	
RPL13AP5	0.318516098	0.088823584	2.491966576	
NSFL1C	0.318439314	0.088948169	2.491298038	
LRRC28	0.318398333	0.088973071	2.490941253	
GRASP	-0.318335002	0.088973071	-2.490389916	yes
BCL6B	-0.318408026	0.088973071	-2.491025642	
FBXO10	-0.318348473	0.088973071	-2.490507184	yes
KCNV1	-0.318316932	0.088973071	-2.490232612	
HSD3B2	-0.318309941	0.088973071	-2.490171756	
KAAG1	-0.318336467	0.088973071	-2.490402671	
TM9SF2	0.318354106	0.088973071	2.49055623	
TGS1	0.318345604	0.088973071	2.490482208	
ATP5F1	0.318280235	0.089005819	2.489913162	
RAET1E	0.318222207	0.089069207	2.489408059	
EXTL1	-0.318201484	0.089069207	-2.489227676	
MYO1D	0.318196053	0.089069207	2.489180407	
HIST1H3G	0.318206055	0.089069207	2.48926747	
PRKCB	-0.318160895	0.089112665	-2.488874392	
C3orf70	-0.318117889	0.089146213	-2.488500088	
CER1	-0.318122583	0.089146213	-2.488540948	
CHRNE	-0.318074904	0.089160732	-2.488125988	
MTF2	0.318072245	0.089160732	2.488102849	
FTSJD1	0.318058798	0.089160732	2.487985815	

PAPPA2	-0.318059571	0.089160732	-2.487992549
FOXP4	-0.318010224	0.08920591	-2.487563097
TNFSF12	-0.318009887	0.08920591	-2.487560163
ALDH1A1	0.317956701	0.089259491	2.487097334
TMEM63A	-0.317958056	0.089259491	-2.487109127
RNF34	0.317940742	0.08926548	2.486958467
PSMC6	0.317905201	0.089303249	2.486649206
ZNF711	0.31789566	0.089303249	2.486566186
DYSFIP1	-0.317861539	0.089344824	-2.486269291
SH3RF1	0.317791868	0.089456095	2.485663107
MGC34800	-0.317771337	0.089471081	-2.485484487
C13orf34	0.317747239	0.089493071	2.485274831
RIOK1	0.317724466	0.089495258	2.48507671
RNASEH2C	-0.317720363	0.089495258	-2.485041019
UBE2G1	0.317619855	0.089667242	2.484166679
LOC100133431	-0.317600868	0.089679245	-2.484001519
C1orf127	-0.31746867	0.089768776	-2.48285166
PCSK1N	-0.317465248	0.089768776	-2.482821901
ZNF252	0.317513199	0.089768776	2.483238957
HSPA8	0.317472233	0.089768776	2.482882651
LOC340602	-0.317475846	0.089768776	-2.482914074
KRTAP10-1	-0.317512767	0.089768776	-2.483235201
CEACAM6	0.317537491	0.089768776	2.483450245
CITED2	-0.317389352	0.089783427	-2.482161837
TBR1	-0.317425405	0.089783427	-2.482475379
DTX1	-0.317429782	0.089783427	-2.482513443
TMEM186	0.317382095	0.089783427	2.482098725
TRA2B	0.317380718	0.089783427	2.482086748
LDHAL6B	-0.317390038	0.089783427	-2.482167804
CYCS	0.317292507	0.089906402	2.481319651
CHMP4C	0.317299489	0.089906402	2.481380366
SIGLEC9	-0.317258136	0.089948784	-2.481020779
LOC100129427	-0.317099747	0.090006421	-2.479643638

TPX2	0.3170623	0.090006421	2.479318077	
C16orf79	-0.317124852	0.090006421	-2.479861901	
ZBTB44	0.317136391	0.090006421	2.47996222	
OR11H4	-0.317103298	0.090006421	-2.479674511	
OR3A2	-0.317096655	0.090006421	-2.479616754	
PRKAG1	0.317189228	0.090006421	2.480421612	
SMOC1	-0.317063441	0.090006421	-2.479327997	
SLC35F5	0.317065232	0.090006421	2.479343571	
UAP1L1	-0.317135198	0.090006421	-2.479951847	yes
PLAA	0.317149004	0.090006421	2.480071888	
UBAP2L	0.317079371	0.090006421	2.479466491	
IQSEC1	-0.317090234	0.090006421	-2.479560934	
AP1S2	-0.317025923	0.090052848	-2.479001839	
FAM124A	-0.316992934	0.090092626	-2.478715064	
CELSR3	-0.316954564	0.090143026	-2.478381515	
NUP85	0.316911824	0.090202064	2.478010007	
FRYL	0.316836785	0.090299642	2.477357775	
ADAM22	-0.31684483	0.090299642	-2.477427701	
AP3B1	0.3167893	0.090368142	2.476945064	
PRHOXNB	-0.316769242	0.090382516	-2.476770746	
GGNBP2	0.316718406	0.090457693	2.476328945	
MOGAT1	-0.31660247	0.090489752	-2.475321467	
CRYBA2	-0.316611026	0.090489752	-2.475395818	
HAL	-0.316674362	0.090489752	-2.475946191	
DBX2	-0.316640929	0.090489752	-2.475655662	
TSHZ3	0.316615393	0.090489752	2.475433765	
RP5-1077B9.4	-0.316596406	0.090489752	-2.475268779	
MRPS14	0.316606641	0.090489752	2.475357708	
SCARNA8	-0.316607195	0.090489752	-2.475362523	
TMTC4	0.316583976	0.090489752	2.475160767	
SLC25A44	0.316574587	0.090489752	2.475079181	
BCAS2	0.316506333	0.090527508	2.474486139	
AK5	-0.316526325	0.090527508	-2.474659836	

GALNT8	-0.316475925	0.090527508	-2.474221941	
H3F3B	0.31648592	0.090527508	2.474308784	
RAP2B	0.316482203	0.090527508	2.474276485	
TPI1	0.316496444	0.090527508	2.47440022	
ZNF669	0.316466337	0.090527508	2.474138639	
PDXP	-0.316449182	0.090536264	-2.4739896	
DKKL1	-0.316255324	0.090714213	-2.472305529	
UTP20	0.316288458	0.090714213	2.472593346	
FLJ36070	-0.316272402	0.090714213	-2.472453874	
OR52K1	-0.316297875	0.090714213	-2.472675153	
MCM7	0.316269015	0.090714213	2.47242446	
CXorf26	0.316325221	0.090714213	2.472912697	
UBL3	0.316262502	0.090714213	2.472367879	yes
FRMD4A	-0.316244794	0.090714213	-2.472214065	
NXT2	0.316257146	0.090714213	2.472321361	yes
RBMX	-0.316224737	0.090728182	-2.472039852	
ACY3	-0.316212343	0.090728182	-2.471932203	
EDN3	-0.316135053	0.090733765	-2.471260898	
HOXB6	-0.316183911	0.090733765	-2.471685249	yes
FAM148B	-0.316133422	0.090733765	-2.471246739	
CCNL1	0.316177587	0.090733765	2.471630324	
GRAMD3	0.316164466	0.090733765	2.471516363	
PEX16	-0.316137246	0.090733765	-2.471279948	
EPYC	-0.316116211	0.090742743	-2.471097259	
LOC401097	-0.316080444	0.090788444	-2.470786626	yes
COX6A2	-0.316047649	0.09082828	-2.470501826	
RNF24	0.315985481	0.090833513	2.469961953	
SDK1	0.315994208	0.090833513	2.470037741	
ZNF775	-0.315994094	0.090833513	-2.47003675	yes
KCNK15	-0.315981707	0.090833513	-2.46992918	
CCNE2	0.316025079	0.090833513	2.470305824	
LOC100130503	-0.315920301	0.090885396	-2.46939597	
RLTPR	-0.315905222	0.090885396	-2.469265036	

C7orf52	-0.315907805	0.090885396	-2.469287463
ALX1	-0.315904912	0.090885396	-2.46926234
RASGRP4	-0.315866902	0.090935637	-2.468932313
C6orf218	-0.315808485	0.091000495	-2.468425111
C1orf43	0.315796261	0.091000495	2.468318982
USF2	-0.315803564	0.091000495	-2.468382387
FAM47A	-0.315733641	0.091099608	-2.467775332
OR10A5	-0.315715551	0.091110439	-2.46761829
DNAJC13	0.315644406	0.091176458	2.467000678
KIAA1267	0.315654038	0.091176458	2.467084292
OXSM	0.315666482	0.091176458	2.467192312
GRIN1	-0.315604086	0.091181362	-2.466650682
RADIL	-0.315627045	0.091181362	-2.466849976
BARX2	-0.315607444	0.091181362	-2.466679833
SOX18	-0.315575855	0.091212364	-2.466405639
TMEM194B	0.315517942	0.091265118	2.465902971
PNMA5	-0.315410767	0.091265118	-2.464972799
AMZ1	-0.315388232	0.091265118	-2.464777225
EEF1A1	0.315388532	0.091265118	2.464779837
EMD	-0.315419769	0.091265118	-2.465050925
C1QL3	-0.315476282	0.091265118	-2.46554139
MGP	-0.315439723	0.091265118	-2.465224093
THG1L	0.315535467	0.091265118	2.466055074
BLK	-0.315462711	0.091265118	-2.465423601
CARD9	-0.315483661	0.091265118	-2.465605427
TAGLN	-0.315491265	0.091265118	-2.465671428
MZF1	-0.315401287	0.091265118	-2.46489053
PRG2-2	-0.315385596	0.091265118	-2.464754358
FBXO21	0.315358353	0.091294246	2.464517934
FABP6	-0.315329741	0.091326102	-2.464269646
U2AF1	0.315310837	0.091338689	2.464105599
ASB7	0.315254038	0.091351721	2.463612737
FAM91A1	0.315268696	0.091351721	2.463739929

PAK3	-0.315285319	0.091351721	-2.463884171
NDUFA4L2	-0.315266215	0.091351721	-2.463718401
RIMS1	0.315234205	0.091366181	2.463440647
C1orf122	-0.315199709	0.091383062	-2.463141334
NR2C1	0.315175525	0.091383062	2.462931502
CES2	0.315178381	0.091383062	2.462956287
CREB5	-0.315205381	0.091383062	-2.463190552
RTF1	0.315149954	0.091408949	2.462709643
OR5T3	-0.315125301	0.091433023	-2.462495755
LANCL3	0.315077842	0.09150244	2.462084018
ZC3HAV1	0.315029942	0.09157278	2.461668469
E2F7	0.315000535	0.091606359	2.461413368
C1orf62	-0.314943589	0.091694783	-2.460919388
ACADSB	0.314928337	0.091700208	2.460787095
ST13	0.314907715	0.091715697	2.460608216
LPIN2	-0.314895514	0.091715697	-2.460502392
NRIP2	-0.314878747	0.091724159	-2.460356955
CENPI	0.314858184	0.091740187	2.4601786
C11orf41	-0.314821278	0.091788785	-2.459858506
SLC30A2	-0.314734093	0.091890277	-2.459102374
CARD14	-0.314733779	0.091890277	-2.459099655
C2orf44	0.314732841	0.091890277	2.459091518
PIK3CB	0.314715454	0.091900015	2.458940731
ELA3A	-0.314688968	0.091927908	-2.458711043
ARL5A	0.314649719	0.091954094	2.458370687
A4GNT	-0.314658002	0.091954094	-2.45844251
SYVN1	-0.314638351	0.091954094	-2.458272112
MLF1IP	0.31460992	0.091985901	2.458025574
MSH6	0.314575208	0.092030259	2.457724583
EFHA1	0.314500309	0.092101804	2.457075167
PMP22CD	-0.314479408	0.092101804	-2.456893954
DUS2L	0.314476969	0.092101804	2.456872809
ITLN1	-0.314525922	0.092101804	-2.457297247

FAM160B1	0.314499621	0.092101804	2.457069207	
TSPAN32	-0.314400543	0.092179744	-2.456210221	
MRPS30	0.314403243	0.092179744	2.456233633	
PRSS33	-0.314418519	0.092179744	-2.456366063	
MRPL37	0.314364052	0.092227765	2.455893882	
COX15	0.314349595	0.092231748	2.455768551	
CADM3	-0.314290119	0.092275932	-2.45525298	
GCM1	-0.31429938	0.092275932	-2.455333259	
KIAA0644	-0.31429308	0.092275932	-2.455278646	
CBLL1	0.314266374	0.092298514	2.455047152	yes
IMPDH1	-0.314253214	0.092299929	-2.454933082	
SERPINA13	-0.31421942	0.092341848	-2.454640165	
ATIC	0.314194918	0.092341848	2.454427794	
PITPNM2	-0.314201684	0.092341848	-2.454486435	yes
C5orf28	0.314161119	0.092375042	2.454134847	
C6orf105	-0.314153448	0.092375042	-2.454068364	
FGF2	-0.314118419	0.092415346	-2.45376477	
VAPA	0.31410844	0.092415346	2.453678284	yes
TMEM198	-0.314044807	0.092517888	-2.453126815	
DCTPP1	0.313967427	0.092648095	2.452456266	
NIPA1	0.313934625	0.092688741	2.452172027	
FKBP8	-0.313922309	0.092688741	-2.452065304	
CST3	-0.313894719	0.09269424	-2.451826242	
NUMBL	-0.313904369	0.09269424	-2.451909855	
KANK4	-0.313828057	0.092778187	-2.451248655	
C7orf44	0.313828872	0.092778187	2.451255717	
AMTN	-0.31377425	0.092843061	-2.45078248	
C2orf56	0.313758513	0.092843061	2.450646138	
SCNN1B	0.313764314	0.092843061	2.450696395	
CALR3	-0.313698809	0.092916866	-2.450128915	
HIST1H4F	0.313696968	0.092916866	2.450112961	
NOM1	0.313654823	0.092976659	2.449747872	
C13orf28	-0.31364063	0.092980258	-2.449624926	

MT1F	-0.313611878	0.093013145	-2.449375872	
SYNPO	-0.313596452	0.093019237	-2.449242247	
GPD1L	0.313559309	0.093069028	2.448920522	
FGFR1	-0.313483696	0.09317136	-2.44826561	
GADD45GIP1	-0.313487486	0.09317136	-2.448298433	
PLSCR1	0.313449441	0.093215408	2.44796893	
ZMYND8	0.313411593	0.093266718	2.447641146	
NPAT	0.313378193	0.093284115	2.447351895	
LOC730098	-0.313379226	0.093284115	-2.447360845	
SCRT2	-0.313311783	0.093393084	-2.446776808	
KCNK4	-0.313248555	0.093495733	-2.446229307	
ZNF738	0.313223155	0.093522033	2.446009374	
NHS	0.313198598	0.09354664	2.445796745	
IL6	-0.313171512	0.093576366	-2.445562228	
LOC645605	-0.313118174	0.093659184	-2.445100424	
LARGE	-0.313075448	0.093720588	-2.444730523	
PNMT	-0.313048406	0.093750279	-2.444496415	
NOTUM	-0.313000203	0.093800908	-2.444079134	
GOLT1B	0.312998662	0.093800908	2.44406579	
MAF	-0.31293995	0.093894785	-2.44355756	
LYSMD3	0.312922123	0.093905859	2.443403252	
MAZ	-0.312876424	0.093973439	-2.443007688	
RNASE2	-0.312835522	0.094006266	-2.442653672	
DPM1	0.312836656	0.094006266	2.442663482	
FOXB1	-0.312792651	0.094043115	-2.442282624	
C12orf4	0.312793091	0.094043115	2.442286431	
CACNA2D2	-0.312779179	0.094045395	-2.442166028	
SERPINA11	-0.31273189	0.094052341	-2.441756767	
RBL1	0.312726391	0.094052341	2.441709174	
RPL15	0.312744554	0.094052341	2.441866365	
GRRP1	-0.312740774	0.094052341	-2.44183365	
PNCK	-0.312699298	0.09408228	-2.441474711	yes
RPRD2	0.312685682	0.094084884	2.441356886	

LRRC29	-0.312640846	0.094150849	-2.440968894	
MFNG	-0.312626268	0.094155417	-2.440842746	
ZNF732	-0.312605326	0.094172911	-2.440661527	
FAM19A4	-0.312589399	0.094180229	-2.440523706	
ATG3	0.312576047	0.094180336	2.440408181	
RBM17	0.312564709	0.094180336	2.440310074	
SC65	-0.312546917	0.094191455	-2.440156128	
HABP2	-0.312515626	0.094229993	-2.439885381	
DAP	-0.312358113	0.094525252	-2.438522651	
MYH8	-0.312327684	0.094562145	-2.438259412	
RAB26	-0.312217906	0.094695836	-2.437309824	
NUP133	0.312225104	0.094695836	2.437372084	
CA11	-0.312214463	0.094695836	-2.437280043	
FZD8	-0.312212848	0.094695836	-2.437266071	
CLDN11	-0.312191206	0.094714879	-2.437078882	yes
H1FNT	-0.312172263	0.094728426	-2.436915038	
PRSS21	-0.312090908	0.094869339	-2.436211418	
DPYSL5	-0.312009474	0.095010588	-2.435507161	
FTL	0.311900605	0.09503913	2.434565745	
C18orf10	0.311921792	0.09503913	2.434748952	
HSPA1A	0.311875929	0.09503913	2.434352388	
GLOD4	0.311880517	0.09503913	2.434392053	
ACSL5	0.31188895	0.09503913	2.434464973	
POLH	0.311889822	0.09503913	2.434472514	
EXOC6	0.311872663	0.09503913	2.434324144	
CA9	-0.311949617	0.09503913	-2.434989555	
CGGBP1	0.311895158	0.09503913	2.434518653	
TIMELESS	0.311898916	0.09503913	2.434551141	
C12orf12	-0.311817037	0.095127783	-2.433843188	
C17orf45	0.311730281	0.095254151	2.433093132	
ABHD14A	-0.311684006	0.095254151	-2.432693078	
MXD1	0.311702534	0.095254151	2.432853249	
TRIM72	-0.311688535	0.095254151	-2.432732234	

TTC13	0.311727829	0.095254151	2.43307193	
FAM176A	-0.311681709	0.095254151	-2.432673225	
FLJ41603	-0.311664055	0.095265205	-2.432520609	
GNA13	0.311628711	0.095287405	2.432215081	
EDC3	0.311640079	0.095287405	2.432313345	
CCDC42	-0.311604328	0.095312258	-2.432004311	
FLJ20464	-0.311575405	0.095346422	-2.431754297	
CHRM4	-0.311524138	0.095420888	-2.431311163	
LAPTM4B	0.311514583	0.095420888	2.43122858	
NHEJ1	0.311461309	0.095505034	2.430768131	
POM121L9P	-0.311432972	0.095538064	-2.430523221	
HELQ	0.311358869	0.095614832	2.4298828	
C1QTNF1	-0.311376	0.095614832	-2.43003085	yes
DPEP3	-0.311369207	0.095614832	-2.429972148	
ATP1A2	-0.311293593	0.095698663	-2.429318714	
LRRC8A	0.311303325	0.095698663	2.429402809	
MFF	0.311263529	0.095727775	2.429058927	
DISP1	0.311254976	0.095727775	2.428985018	
CDV3	0.311242348	0.095728614	2.428875901	
FERMT3	-0.311187101	0.095817059	-2.428398532	
LRFN5	-0.311130365	0.095908636	-2.427908326	
CORT	-0.311102527	0.095924449	-2.42766781	
C20orf160	-0.311059232	0.095924449	-2.427293773	yes
LOC644556	-0.311089891	0.095924449	-2.427558641	
GLRA3	-0.311084493	0.095924449	-2.427512012	
KRTAP3-3	-0.311049429	0.095924449	-2.427209078	
THOC1	0.311063132	0.095924449	2.42732746	
LOC100129726	-0.310997632	0.096005952	-2.426761615	
LGALS1	-0.31095169	0.096075452	-2.426364741	
CHD1	0.310931746	0.096091413	2.426192466	
ELA2	-0.310873302	0.096186384	-2.425687629	
SCARNA5	-0.310861284	0.096186384	-2.425583829	
FEZ1	-0.310833328	0.096218897	-2.425342359	yes

LMOD1	-0.31079139	0.096280269	-2.424980145	
TMEM45A	-0.3107612	0.096317425	-2.424719399	
FAM55A	-0.310746761	0.096322077	-2.4245947	
TNFRSF8	-0.310694121	0.096405617	-2.424140084	
RPL30	0.310658497	0.096454049	2.423832447	
SNORD49B	0.31061868	0.096486001	2.423488601	
SETDB2	0.310628273	0.096486001	2.423571445	
C19orf71	-0.310592755	0.096514422	-2.423264736	
NCAPG2	0.310574494	0.096527008	2.423107058	
SOCS7	-0.310556283	0.096539499	-2.422949802	
LOC100128364	-0.310422736	0.096589089	-2.421796737	
DDX6	0.310420122	0.096589089	2.421774174	
MAPK8IP2	-0.310426787	0.096589089	-2.421831718	
LCN15	-0.310459664	0.096589089	-2.422115569	
OPRK1	-0.310439222	0.096589089	-2.421939073	yes
PITX3	-0.310498006	0.096589089	-2.422446616	
C4orf16	0.310386459	0.096589089	2.421483544	
TAS2R38	-0.310391442	0.096589089	-2.421526565	
ABCG4	-0.3104246	0.096589089	-2.421812834	
METRN	-0.310438573	0.096589089	-2.421933472	
USP9X	0.310458107	0.096589089	2.42210212	
UBA3	0.310390959	0.096589089	2.4215224	
FLJ41327	-0.310329943	0.096655772	-2.420995647	
THOC2	0.31033118	0.096655772	2.421006327	
TMEM189	0.310316449	0.096658589	2.42087916	
ZIC5	-0.31029085	0.096686455	-2.420658169	
CYP2B7P1	0.310269632	0.096705264	2.42047501	
SCD5	-0.310250067	0.096720659	-2.420306126	
C22orf30	0.3102155	0.096767113	2.420007748	
SNORA38B	-0.31018057	0.096789246	-2.419706246	
OR52E2	-0.310184621	0.096789246	-2.419741212	
MAP3K2	0.310159703	0.096807366	2.419526138	
LRTM2	-0.310141886	0.096819176	-2.419372356	

OAZ3	-0.310095653	0.096864766	-2.418973328	
JAM3	-0.310105331	0.096864766	-2.419056858	
LRRC42	0.310066215	0.096900673	2.418719259	
ZNF420	0.310024006	0.096932531	2.418354985	
LOC348926	-0.310020548	0.096932531	-2.418325145	
TFAP2B	-0.310014534	0.096932531	-2.418273247	
COL11A2	-0.31000176	0.096933934	-2.418163006	
FLJ41484	-0.309943351	0.097029949	-2.417658967	
ZNF141	0.309884391	0.097102092	2.417150192	
LRBA	0.30989072	0.097102092	2.417204805	yes
TCEAL5	-0.309842705	0.097156447	-2.416790509	
NEFL	-0.309797776	0.097156447	-2.416402848	
YTHDF2	0.309804272	0.097156447	2.416458897	
ENOPH1	0.309798558	0.097156447	2.416409599	
SFRP5	-0.309830879	0.097156447	-2.416688467	
AGER	-0.309755929	0.097218256	-2.416041795	
GTF2B	0.309737168	0.097229092	2.415879934	
ZNF761	0.309726561	0.097229092	2.415788428	
FLJ39653	-0.30955976	0.097550877	-2.414349499	
ESCO1	0.309290159	0.097582994	2.412024266	
GALNT13	-0.309522428	0.097582994	-2.414027483	
H1FOO	-0.309385731	0.097582994	-2.412848474	
BEAN	-0.309412075	0.097582994	-2.413075681	
CRISP1	-0.309284002	0.097582994	-2.411971173	
SDCBP2	0.309370697	0.097582994	2.412718813	
RSPO2	-0.309371131	0.097582994	-2.412722557	
C10orf113	0.309442385	0.097582994	2.413337093	
C5orf40	-0.309482649	0.097582994	-2.413684371	
DPH5	0.309389092	0.097582994	2.412877463	
PREP	0.309317445	0.097582994	2.412259568	
PSMC5	0.309417024	0.097582994	2.413118358	
NKX3-2	-0.309462079	0.097582994	-2.413506955	
FKBPL	-0.309395974	0.097582994	-2.412936812	

SNX16	0.30929064	0.097582994	2.412028415	
CDCP1	0.309380669	0.097582994	2.412804819	
SOD1	0.30949355	0.097582994	2.413778393	yes
MBTPS1	0.309279302	0.097582994	2.411930643	
ZNF835	-0.309312236	0.097582994	-2.412214648	
SLC25A46	0.309292146	0.097582994	2.4120414	
BRE	0.309354419	0.097582994	2.412578432	
KBTBD11	-0.309390017	0.097582994	-2.412885439	
LOC642648	-0.309259692	0.097598799	-2.411761537	
CYP2A7	-0.309223777	0.097648559	-2.411451841	
DGKI	-0.309168684	0.097738302	-2.410976789	
NBEAL1	0.309143665	0.097765408	2.410761073	yes
SLC17A4	-0.309080083	0.097834775	-2.410212871	
SP5	-0.309074371	0.097834775	-2.41016362	
RFC5	0.309081252	0.097834775	2.410222946	
PLA2G5	-0.309057337	0.097845264	-2.410016766	
ZNF654	0.308998394	0.097926695	2.409508609	
SLC4A4	0.308994303	0.097926695	2.409473334	
SH2B3	-0.30893261	0.098003579	-2.408941507	
PF4V1	-0.308921484	0.098003579	-2.408845596	
PSD2	-0.308942041	0.098003579	-2.409022806	
NCALD	-0.308903499	0.098016095	-2.408690563	
EMX1	-0.308842747	0.098030609	-2.408166891	
NOX3	-0.308851079	0.098030609	-2.408238706	
MAPK8	0.308836631	0.098030609	2.408114176	
YTHDC2	0.308856027	0.098030609	2.408281359	
KLF4	0.30888194	0.098030609	2.408504725	
NMUR2	0.308804205	0.098065522	2.407834679	
XYLT1	-0.308795963	0.098065522	-2.407763641	
IRX2	-0.308777722	0.098066036	-2.407606424	
EMP1	0.308747847	0.098066036	2.407348935	
MAPK9	0.308753119	0.098066036	2.407394375	
CD7	-0.308754263	0.098066036	-2.407404233	

ACVR1C	-0.308676659	0.098114685	-2.406735411	
CTSD	0.308657228	0.098114685	2.406567955	
FABP7	-0.308616241	0.098114685	-2.406214739	
hCG_2045089	-0.308699445	0.098114685	-2.406931782	
KCNS2	-0.308593117	0.098114685	-2.406015466	
SUMO1P1	-0.308617824	0.098114685	-2.406228375	
LOC401296	-0.30859895	0.098114685	-2.406065735	
RXFP3	-0.308618322	0.098114685	-2.406232666	
H2AFY2	0.308631555	0.098114685	2.406346705	
ZNF613	0.308648508	0.098114685	2.406492804	
CASP4	0.308625798	0.098114685	2.406297091	
NIPBL	0.308559662	0.098159633	2.405727178	
KRTAP10-11	-0.308512063	0.098234158	-2.405317026	
DLL3	-0.308489033	0.098257359	-2.405118588	
FBRSL1	-0.308452894	0.09830798	-2.404807203	yes
DTX4	-0.308348368	0.098427297	-2.40390664	
BRUNOL5	-0.30834817	0.098427297	-2.40390494	
NCRNA00087	-0.308354551	0.098427297	-2.403959908	
SLC22A3	-0.308373592	0.098427297	-2.404123958	
CNTN6	-0.30832515	0.098450537	-2.403706614	
OR5I1	-0.308268429	0.098513096	-2.403217978	
TSGA13	-0.308265187	0.098513096	-2.403190055	
WHSC1L1	0.308239677	0.098513096	2.402970297	
ZNF701	0.308235713	0.098513096	2.402936156	
GRINL1A	-0.308250952	0.098513096	-2.403067424	
REM2	-0.308213923	0.098533799	-2.402748453	
AANAT	-0.308155092	0.098620406	-2.402241693	
COQ6	0.308148783	0.098620406	2.402187356	
C19orf2	0.308117943	0.098660112	2.401921716	
PWWP2A	-0.308004472	0.098698609	-2.40094443	
ZNF507	0.308024315	0.098698609	2.401115324	yes
FLJ45717	-0.308008295	0.098698609	-2.400977352	
C7orf59	-0.308020757	0.098698609	-2.401084681	

STYX	0.308075537	0.098698609	2.401556481	
CACNG1	-0.308018288	0.098698609	-2.401063414	
PRPF4B	0.308036267	0.098698609	2.401218263	
CLDN9	-0.308028531	0.098698609	-2.401151632	
CCL25	-0.307904244	0.098883986	-2.400081294	
INSM1	-0.30786746	0.098936295	-2.399764542	
TRY6	-0.307851712	0.098944428	-2.399628935	
MAPKAP1	0.307807361	0.09901267	2.399247051	
HNRNPH1	0.307787923	0.099028573	2.399079681	
ZNF843	-0.307754509	0.099065395	-2.39879198	
PDHB	0.307746669	0.099065395	2.398724481	
TOPORS	0.307685644	0.099093938	2.398199075	
GRIN3A	-0.307690435	0.099093938	-2.398240327	
SPATA19	-0.307696677	0.099093938	-2.398294068	
RCN3	-0.307702907	0.099093938	-2.398347702	
MAK10	0.30766321	0.099116181	2.398005937	yes
CRYGA	-0.307615183	0.09919228	-2.397592475	
FUSIP1	0.307589203	0.099199799	2.397368824	
GSTCD	0.307587906	0.099199799	2.397357653	
FCAR	-0.307558413	0.099218487	-2.397103767	
MCL1	0.307555331	0.099218487	2.39707724	
PSORS1C1	-0.307473621	0.099365195	-2.396373889	
ST6GALNAC3	-0.307461977	0.099365195	-2.396273661	
LOC100133033	-0.307440585	0.09938532	-2.396089534	
GABRG1	-0.307399736	0.099416106	-2.39573795	
LOC285550	0.307390466	0.099416106	2.395658164	
GUCY1A2	-0.307394437	0.099416106	-2.395692337	
RNU2-2	-0.307377563	0.099416808	-2.395547114	
CA8	-0.307366471	0.099416808	-2.395451644	
SNORD116-27	-0.307244261	0.099506301	-2.394399904	
CXorf38	0.307148827	0.099506301	2.393578688	
C19orf59	-0.307265817	0.099506301	-2.394585405	
CAMTA1	-0.307274124	0.099506301	-2.394656889	

FUT4	-0.307142946	0.099506301	-2.393528084	
RNF115	0.307142388	0.099506301	2.393523283	
RSPO4	-0.307123276	0.099506301	-2.393358827	
OR2M2	-0.307185483	0.099506301	-2.393894102	
LOC400590	0.30717155	0.099506301	2.393774212	
SMAD6	-0.307182769	0.099506301	-2.393870746	
TSHR	-0.307217569	0.099506301	-2.394170207	
TMEM43	0.307160714	0.099506301	2.393680972	
BRSK1	-0.307214941	0.099506301	-2.394147592	
C1orf217	0.307293268	0.099506301	2.394821643	
LRRFIP2	0.307289612	0.099506301	2.394790183	
TBPL1	0.307133611	0.099506301	2.393447755	
DDX46	0.307206219	0.099506301	2.39407254	
OR5K4	-0.307109318	0.099510879	-2.393238726	
OR10J1	-0.307081836	0.099516007	-2.393002272	
C9orf139	-0.307059764	0.099516007	-2.392812364	
LOC729135	-0.307070591	0.099516007	-2.392905516	
UBE2E1	0.307072498	0.099516007	2.392921928	
DDR2	-0.307032519	0.099548618	-2.392577949	
ODZ3	-0.306975351	0.09964435	-2.392086118	
KLHL30	-0.306935658	0.09969598	-2.391744639	
NDUFS4	0.306927343	0.09969598	2.391673101	
NCAN	-0.306901001	0.099701909	-2.391446496	
MGC33407	-0.306908576	0.099701909	-2.391511658	
GSTA1	0.3068706	0.09974125	2.391184975	
FOXF1	-0.306842812	0.099775089	-2.390945936	
DNAH17	-0.306822448	0.09979326	-2.390770772	
FZD9	-0.306791144	0.099834547	-2.390501504	
MRPL55	-0.306767814	0.099859001	-2.390300835	
RSPO1	-0.306730168	0.099888886	-2.389977029	
QRSL1	0.306740244	0.099888886	2.3900637	yes
ARL4D	0.306711184	0.099904176	2.389813754	
HOXD4	-0.306698931	0.099905248	-2.389708364	yes

MSH2	0.306668649	0.099944431	2.389447922	
C9orf70	-0.306650184	0.099958643	-2.389289122	
FNTA	0.306622341	0.099967875	2.389049661	
OR2T1	-0.306624916	0.099967875	-2.389071811	
PPFIA2	-0.306592201	0.100006792	-2.388790458	
PSMC2	0.306534924	0.100103142	2.388297907	
EZR	0.306491908	0.100169368	2.387928006	yes
FTHL11	0.306415112	0.100257504	2.387267665	
EXD2	0.306418994	0.100257504	2.387301046	
ELMO1	-0.30641972	0.100257504	-2.38730729	
NLRP8	-0.30631472	0.10027161	-2.386404516	
MTERFD2	0.306362354	0.10027161	2.386814058	
CIDEB	0.306340362	0.10027161	2.386624973	
A1CF	-0.306318384	0.10027161	-2.386436018	
C6orf174	-0.306344784	0.10027161	-2.386662991	
OR11L1	-0.306388175	0.10027161	-2.38703606	
BARX1	-0.306318436	0.10027161	-2.386436466	
ZNHIT3	0.306381238	0.10027161	2.386976415	
ATAD5	0.306293549	0.100291663	2.386222503	
LOC100131763	-0.306214005	0.100342172	-2.385538674	
GGTA1	-0.306211217	0.100342172	-2.385514709	
CRB2	-0.306215472	0.100342172	-2.385551284	
MED31	0.306243118	0.100342172	2.385788949	
REEP2	-0.306216554	0.100342172	-2.385560585	
NOP16	0.306183783	0.100350758	2.385278878	
CTTNBP2	0.306192196	0.100350758	2.385351199	
IFNA10	-0.306154745	0.100362763	-2.385029267	
IGF2	-0.306159424	0.100362763	-2.385069484	
FAM9C	-0.306121318	0.100408854	-2.384741931	yes
LOC100129346	-0.306085791	0.10043717	-2.384436554	
MTMR12	0.306084603	0.10043717	2.384426343	
NOBOX	-0.306059936	0.100454426	-2.384214322	
NKX2-5	-0.306053113	0.100454426	-2.384155685	

OXER1	-0.306009713	0.100521723	-2.383782667	
PRMT5	0.305969647	0.100533372	2.383438314	
NUPL2	0.305969217	0.100533372	2.383434617	
OR5D16	-0.30597258	0.100533372	-2.38346352	
LOC100133329	-0.305948539	0.100552498	-2.383256903	
SHD	-0.30589604	0.100639179	-2.382805735	
ASB10	-0.305854688	0.100702241	-2.382450369	
WWC1	-0.305811486	0.100769266	-2.38207913	
SNORD45C	0.305778902	0.100788969	2.381799142	
UTX	0.305779157	0.100788969	2.381801327	yes
FAM115A	-0.30576352	0.100796896	-2.381666963	yes
DCC	-0.305670201	0.100809105	-2.380865151	
RNF168	0.305711921	0.100809105	2.381223608	
TMEM194A	0.305652998	0.100809105	2.380717348	
FLJ40142	-0.305675573	0.100809105	-2.380911309	
ASNSD1	0.305697201	0.100809105	2.381097132	
STARD7	0.305712379	0.100809105	2.381227549	
RPL37A	0.305744603	0.100809105	2.381504419	
TFB2M	0.305659992	0.100809105	2.380777437	
PRDM6	-0.305688555	0.100809105	-2.38102285	
MINA	0.305637678	0.100816947	2.380585727	
CHMP2B	0.305571039	0.100933919	2.380013224	yes
HEPACAM	-0.305550864	0.100952104	-2.379839903	
CCDC105	-0.305498614	0.100964366	-2.379391048	
SRCRB4D	-0.305516393	0.100964366	-2.379543775	
AP3M1	0.305517815	0.100964366	2.379555992	
WDR22	0.305504095	0.100964366	2.379438127	
LOC100131054	-0.305461066	0.101012085	-2.379068509	
SPTY2D1	0.305452959	0.101012085	2.378998863	
LRRN4CL	-0.305399669	0.101100815	-2.378541125	
LOC100130291	0.305384043	0.101103962	2.378406912	
C12orf53	-0.305374971	0.101103962	-2.378328989	
LOC390956	-0.3052549	0.101284153	-2.377297731	

LRP3	-0.305244001	0.101284153	-2.377204135	
SCARNA4	-0.305253781	0.101284153	-2.377288126	yes
VDAC3	0.305257114	0.101284153	2.377316752	yes
GPR26	-0.305220306	0.101309948	-2.377000642	
MARK3	0.305208683	0.101310002	2.376900827	
CCL3	-0.30516631	0.101375662	-2.37653694	
PROM2	0.30515125	0.101378443	2.376407614	
SMAD5	0.305130231	0.101378443	2.376227123	
PCBP4	-0.30514095	0.101378443	-2.376319168	yes
ATF6	0.305074665	0.101472317	2.375749986	
C11orf42	-0.305061965	0.101474695	-2.375640937	
KATNA1	0.305050131	0.101475228	2.375539327	yes
KCNK13	-0.305027483	0.101498859	-2.375344864	
LANCL1	0.304986183	0.101513942	2.374990264	
RASL10A	-0.305000569	0.101513942	-2.375113782	
MAGT1	0.304985688	0.101513942	2.374986013	
THEG	-0.304934048	0.101574811	-2.374542655	
SCAF1	-0.304937643	0.101574811	-2.374573514	
MTL5	-0.304920725	0.101578559	-2.37442827	
PI16	-0.304877011	0.101639353	-2.374052983	
TFDP2	0.304869144	0.101639353	2.373985449	
STK38L	0.304822062	0.101715295	2.373581264	
VAX2	-0.304793295	0.101752095	-2.373334321	
NLRP7	-0.304780337	0.101755086	-2.373223086	
SNORA80	-0.304739104	0.101818334	-2.372869152	
SCIN	0.304727664	0.101818334	2.37277095	
KCNK7	-0.3045478	0.102031544	-2.37122721	
PRKCDBP	-0.304566725	0.102031544	-2.371389632	
MAGEH1	-0.304607633	0.102031544	-2.371740721	
NPR1	-0.304561159	0.102031544	-2.371341857	
ABHD6	0.304593285	0.102031544	2.371617573	yes
LCAP	-0.304547277	0.102031544	-2.371222722	
SUPT4H1	0.304601296	0.102031544	2.371686327	

ZNF543	0.304525603	0.102053265	2.371036716	
NR6A1	0.304501232	0.102080774	2.370827574	
ING1	-0.304480085	0.102101381	-2.370646098	
ALDOB	-0.304454867	0.102130725	-2.370429693	
GGN	-0.304371245	0.102285443	-2.369712142	
ARHGEF15	-0.30435285	0.102300178	-2.369554305	yes
CBR4	0.304277156	0.102438057	2.36890485	
GNG13	-0.304264831	0.102439762	-2.368799108	
BMX	-0.304244425	0.102458848	-2.368624034	
CXorf25	-0.304229579	0.102465984	-2.368496667	
HIST1H1B	0.30414018	0.102608739	2.36772972	
ATPBD4	0.304143394	0.102608739	2.367757292	
ZNF442	-0.304120227	0.102626888	-2.367558555	
LOC100127933	-0.304048804	0.10268148	-2.366945882	
RLBP1L2	-0.30407666	0.10268148	-2.367184826	
FN1	-0.304057626	0.10268148	-2.367021558	
ARL14	-0.304064192	0.10268148	-2.367077881	
NFIB	-0.30402567	0.102706509	-2.366747454	
ESRRG	-0.303964631	0.10278843	-2.366223901	
IARS2	0.303973311	0.10278843	2.366298352	
TMEM146	-0.303944581	0.102806842	-2.366051939	
DAP3	0.303925586	0.102822989	2.365889016	yes
FAM185A	0.303908997	0.102833953	2.365746739	
NRTN	-0.303823022	0.102994611	-2.365009406	yes
INPP4B	0.30380148	0.103016287	2.364824669	yes
CHIT1	-0.303730515	0.103095051	-2.364216122	
SNW1	0.303731131	0.103095051	2.364221407	
LDHB	0.303749624	0.103095051	2.364379988	
ADRA1B	-0.303700306	0.103135482	-2.363957088	
CRHR2	-0.303680358	0.103153756	-2.363786036	
C1orf200	-0.303662842	0.103166779	-2.363635845	
MEGF11	-0.303637206	0.103197357	-2.363416037	
C19orf36	-0.303590188	0.103274185	-2.363012906	

MRAP2	0.303564656	0.103295158	2.362794003
FBXO24	-0.303548375	0.103295158	-2.362654421
TMX2	0.303546043	0.103295158	2.362634425
OR10A7	-0.303513803	0.103312718	-2.36235802
DRD4	-0.303435867	0.103312718	-2.361689896
FAM119B	-0.303420851	0.103312718	-2.361561175
LOC344887	0.303411788	0.103312718	2.361483484
MRPS5	0.3034401	0.103312718	2.361726183
FAM173A	-0.30352483	0.103312718	-2.362452557
ZNF175	0.303432586	0.103312718	2.361661768
KCNAB1	-0.303428816	0.103312718	-2.361629446
ACBD4	-0.30346778	0.103312718	-2.361963471
CEP76	0.303481596	0.103312718	2.362081911
UBTD1	-0.303447454	0.103312718	-2.361789224
LOC100131138	-0.303381918	0.103352551	-2.36122743
KIAA0907	0.303326735	0.103393396	2.36075442
NARS	0.303317244	0.103393396	2.360673065
ROBO3	-0.303348022	0.103393396	-2.360936877
SNRPF	0.303328615	0.103393396	2.360770532
OR52N5	-0.303293315	0.103413093	-2.360467964
CPSF2	0.303285256	0.103413093	2.360398889
TRIM65	-0.303220916	0.10345334	-2.359847434
C12orf36	0.303223859	0.10345334	2.359872662
TFF2	-0.303249766	0.10345334	-2.360094702
CCNC	0.303226792	0.10345334	2.359897799
CRB1	-0.303171395	0.103486593	-2.359423018
POLR2B	0.303160719	0.103486593	2.359331529
CSDE1	0.303173092	0.103486593	2.359437565
NUDT18	-0.303141896	0.103486593	-2.359170214
HIST1H4H	0.303137004	0.103486593	2.359128285
ZNF468	0.303155511	0.103486593	2.359286889
LOC100130837	-0.303111965	0.103516076	-2.358913711
HMGB1	0.30303229	0.103602009	2.358230945

CLEC4G	-0.303015222	0.103602009	-2.358084693	
RTN4RL2	-0.303032552	0.103602009	-2.358233192	
RAD1	0.303059258	0.103602009	2.358462038	
RARRES2	-0.303018307	0.103602009	-2.358111125	
EHBP1	0.302969903	0.103650769	2.357696376	
MAP2K5	0.302977767	0.103650769	2.357763756	
TMEM131	0.302926853	0.103694646	2.357327509	yes
BRDT	-0.302931614	0.103694646	-2.357368304	
FAM175B	0.302895057	0.103738857	2.357055085	
KCNIP2	-0.302873631	0.103760602	-2.356871511	
C6orf72	0.302861605	0.103761974	2.356768473	
PRSS36	-0.302814842	0.103786001	-2.356367838	
NUPR1	-0.30280497	0.103786001	-2.356283268	
TREML1	-0.302824745	0.103786001	-2.356452683	
KIAA1486	-0.302805277	0.103786001	-2.356285901	
EFTUD1	0.302748424	0.10383491	2.355798845	
LOC100133439	0.302737086	0.10383491	2.355701723	
IMMP2L	0.302744676	0.10383491	2.355766743	
NMT2	0.302736896	0.10383491	2.355700096	
KCNJ1	-0.302698677	0.103893139	-2.355372702	
HEXIM1	0.302631422	0.103996161	2.354796603	
CDC42EP1	-0.302626381	0.103996161	-2.354753426	
HESX1	-0.302617096	0.103996161	-2.354673894	
PPBPL2	0.302558913	0.103999127	2.354175547	
GDF7	-0.302603152	0.103999127	-2.354554457	
ALPI	-0.302587169	0.103999127	-2.354417565	
NHLRC3	0.302572238	0.103999127	2.354289678	
CA10	-0.302566664	0.103999127	-2.354241932	
SOST	-0.302528518	0.104016118	-2.353915217	
RAPSN	-0.302528375	0.104016118	-2.353913995	
DAAM1	0.302499197	0.104053314	2.353664098	
ATRIP	0.302488541	0.104053314	2.353572839	
KANK3	-0.302362793	0.104252601	-2.352495956	

NHLRC2	0.302371295	0.104252601	2.352568758	
ZMYM6	0.302364168	0.104252601	2.352507727	
RXFP4	-0.302349541	0.104256748	-2.352382478	
PAK4	-0.302266863	0.104411979	-2.351674522	
LOC100133317	-0.30215674	0.104424384	-2.35073165	
TIGD2	0.302099188	0.104424384	2.350238938	
INPP5F	0.302154892	0.104424384	2.350715836	
ABCA12	0.302112843	0.104424384	2.350355834	
GGT5	-0.302109648	0.104424384	-2.350328485	yes
SPATA12	-0.302246261	0.104424384	-2.351498119	
OR5111	-0.302213183	0.104424384	-2.351214906	
PLEK	-0.30211576	0.104424384	-2.350380807	
LRRC40	0.302127334	0.104424384	2.350479894	
C15orf17	0.302170188	0.104424384	2.350846789	
LPCAT1	-0.302091255	0.104424384	-2.350171018	
PRRT1	-0.302169034	0.104424384	-2.350836908	
SGPP1	-0.302150879	0.104424384	-2.350681474	
CHD6	0.302135904	0.104424384	2.350553264	
MED7	0.302096437	0.104424384	2.350215388	
GALR3	-0.30207436	0.104436541	-2.350026385	
F13B	-0.302008605	0.104555104	-2.349463487	
FAM158A	-0.301993202	0.104564027	-2.349331636	
SAAL1	0.301971882	0.10456739	2.349149134	
EID3	0.301968994	0.10456739	2.349124417	
SLC4A10	-0.30195775	0.10456739	-2.34902817	
MED6	0.301902652	0.1046173	2.348556554	yes
ZBTB7C	0.301900954	0.1046173	2.348542022	
SEPSECS	0.301907909	0.1046173	2.348601552	
SNX13	0.301865135	0.104665282	2.348235442	
CUL1	0.301856355	0.104665282	2.348160298	
SHC3	-0.301809141	0.104725593	-2.347756198	
AKIRIN2	0.301794832	0.104725593	2.347633741	
UQCRB	0.301800184	0.104725593	2.347679544	

ATP6V1C1	0.301770743	0.104728919	2.347427577	
ZC4H2	-0.301780477	0.104728919	-2.347510885	
COL4A4	-0.301696901	0.104809354	-2.346795649	
MCM9	0.301692452	0.104809354	2.346757573	
GDF6	-0.301705188	0.104809354	-2.346866564	
PRM1	-0.301688762	0.104809354	-2.346725994	
NRBP1	0.301652703	0.104830756	2.34641743	
MRPL39	0.301656106	0.104830756	2.346446546	yes
GAS7	-0.301645146	0.104830756	-2.346352756	
NCRNA00085	-0.301563946	0.104958823	-2.34565795	
NCF4	-0.301573898	0.104958823	-2.345743102	
ACAP1	-0.301550541	0.104963503	-2.34554325	
ARFGAP1	-0.301526704	0.104990971	-2.345339298	
ANKRD57	0.301461384	0.10510911	2.344780428	
ZNF197	0.301425005	0.105140898	2.344469192	
ANLN	0.301424331	0.105140898	2.344463424	
NMNAT2	-0.301371962	0.105181601	-2.344015409	
IGFBP1	-0.301389397	0.105181601	-2.344164559	
LOC646813	0.301372813	0.105181601	2.344022684	
CCDC109B	0.301341699	0.105223194	2.34375652	
POL3S	-0.301266212	0.105348189	-2.343110784	
HIF1AN	0.301262101	0.105348189	2.343075617	
KCNE1L	-0.301248035	0.105354368	-2.3429553	
OTOS	-0.301223227	0.105361496	-2.342743104	
LYSMD2	-0.301222298	0.105361496	-2.342735151	
RNF217	0.301199458	0.105386905	2.34253979	
CDC2	0.301152547	0.105465061	2.342138559	
SNORD26	0.301132823	0.105483665	2.341969864	
C3orf63	0.301120126	0.105486874	2.341861267	
INCA1	-0.301033855	0.105651443	-2.341123456	
CLTC	0.301005443	0.105664502	2.340880482	
PIK3C3	0.30101008	0.105664502	2.34092013	
LBX2	-0.300976938	0.105702425	-2.340636717	

SLCO1B1	-0.300941215	0.105717813	-2.340331236	
WDR20	0.300958103	0.105717813	2.340475655	
ARHGEF10	-0.300936258	0.105717813	-2.340288848	
SCT	-0.300912521	0.105745293	-2.340085875	
SLC9A6	0.300880455	0.105766444	2.339811685	
DONSON	0.300886316	0.105766444	2.339861798	
UNQ6193	-0.300789517	0.105898824	-2.339034148	
SH3D19	0.300802543	0.105898824	2.339145518	
HSD11B1	-0.300774373	0.105898824	-2.338904663	
PDE6G	-0.300764143	0.105898824	-2.338817206	
SIX3	-0.300776658	0.105898824	-2.338924202	
C10orf129	-0.300741673	0.105923584	-2.338625098	
FAM71A	-0.30072165	0.105942973	-2.338453911	yes
THRSP	-0.30070288	0.105959612	-2.338293446	
SACM1L	0.300609981	0.106075176	2.337499271	
LOC339843	0.300576879	0.106075176	2.337216314	
SNORA49	-0.300590906	0.106075176	-2.337336216	
BTK	-0.30061979	0.106075176	-2.337583126	
OR2C3	-0.300583005	0.106075176	-2.337268676	
HIST1H3B	0.300571981	0.106075176	2.337174443	
CAPZA3	-0.30060094	0.106075176	-2.337421989	
FKBP1B	-0.300538017	0.106090716	-2.336884126	
C1QTNF8	-0.300531367	0.106090716	-2.336827281	
MYH1	-0.300535328	0.106090716	-2.336861142	
CHD5	-0.30048775	0.106154564	-2.336454468	
TMEM105	-0.300479995	0.106154564	-2.336388183	
PRR13	-0.300450269	0.106195399	-2.33613411	
IL29	-0.300358614	0.10637271	-2.335350769	
PHPT1	-0.300328236	0.106390413	-2.33509116	
DGKE	0.300336621	0.106390413	2.335162816	
VAT1	-0.300260075	0.106447514	-2.334508677	
COL10A1	-0.30027441	0.106447514	-2.334631174	
AP2B1	0.300256949	0.106447514	2.334481965	

FCRL6	-0.300246506	0.106447514	-2.334392724	
TAF13	0.300268863	0.106447514	2.334583776	
RGS9	-0.30021081	0.106501634	-2.334087699	
RASL12	-0.300196864	0.106507781	-2.333968534	yes
CNN1	-0.300145641	0.10654696	-2.333530849	
PRRX2	-0.300167484	0.10654696	-2.333717488	
RPL37P23	-0.300148182	0.10654696	-2.33355256	
CDH4	-0.300128712	0.106559708	-2.333386206	
MANEAL	-0.300070166	0.106641983	-2.332885984	
LOC151174	-0.300048518	0.106641983	-2.332701038	
IDH3B	0.300046852	0.106641983	2.332686802	
LRMP	0.300056432	0.106641983	2.332768646	
C1orf170	-0.300019446	0.106677899	-2.332452654	
SYN1	-0.300002763	0.106690139	-2.332310129	
TMEM14B	0.299989419	0.106695008	2.332196132	yes
C17orf79	-0.299949085	0.106734907	-2.331851562	
ZFYVE16	0.29995975	0.106734907	2.331942669	
TNFSF13B	-0.299889353	0.106776549	-2.331341297	
ACTL7A	-0.299889932	0.106776549	-2.331346245	
C9orf96	-0.299841229	0.106776549	-2.33093022	
RANBP3L	-0.29984668	0.106776549	-2.33097679	
FCN2	-0.299850182	0.106776549	-2.331006696	
MAST3	-0.299887378	0.106776549	-2.331324431	
HEYL	-0.299844329	0.106776549	-2.330956706	
APOB48R	-0.299852789	0.106776549	-2.331028968	
CELP	-0.299762868	0.106873601	-2.3302609	
SF3A3	0.299666543	0.106873601	2.329438217	
C10orf104	0.299724395	0.106873601	2.329932303	
SENP8	0.299626144	0.106873601	2.3290932	
SNRNP48	0.299617723	0.106873601	2.329021285	
C14orf49	-0.299574979	0.106873601	-2.328656261	
OR1S1	-0.299523562	0.106873601	-2.328217192	
GPC5	-0.299487298	0.106873601	-2.327907536	

COG2	0.299544953	0.106873601	2.328399851	
TIMM9	0.299606075	0.106873601	2.328921812	
TBX21	-0.299526698	0.106873601	-2.328243967	
NANOS3	-0.299517042	0.106873601	-2.328161519	
KISS1	-0.299521048	0.106873601	-2.328195721	
HELT	-0.299676638	0.106873601	-2.329524433	
MAGEB6B	-0.299682502	0.106873601	-2.329574513	
ARHGDIG	-0.299685168	0.106873601	-2.329597281	
LIMS1	0.299486821	0.106873601	2.32790346	
C15orf53	-0.2994881	0.106873601	-2.327914385	
TMEM216	0.299516147	0.106873601	2.328153877	
ZCCHC17	0.299528638	0.106873601	2.328260533	
RPS9	-0.299502574	0.106873601	-2.328037976	
MAP3K7	0.29969648	0.106873601	2.329693892	
TMEM163	-0.299605106	0.106873601	-2.328913538	
ST6GALNAC5	-0.299782914	0.106873601	-2.330432121	
SRPX	-0.299523756	0.106873601	-2.328218848	
SLC25A12	0.299668931	0.106873601	2.32945861	
ZNF670	0.299590524	0.106873601	2.328789011	
WSCD2	-0.2997171	0.106873601	-2.32987	
CLEC2B	0.299458412	0.10691193	2.327660884	
GPIHBP1	-0.299441505	0.106924856	-2.327516526	
FAM54A	0.299413891	0.106961451	2.327280742	
CH25H	0.2993777	0.107017018	2.326971744	
OR5K2	-0.299342266	0.107046498	-2.326669215	
SLC14A1	-0.29934392	0.107046498	-2.326683337	
hCG_2004593	0.299306539	0.107101084	2.326364194	
RGS14	-0.299283452	0.107103285	-2.326167098	
PHF6	0.299289639	0.107103285	2.326219919	
RCOR2	-0.299254844	0.107142146	-2.325922872	yes
NR2E1	-0.299227999	0.107177119	-2.325693704	
SNORD116-25	-0.299188777	0.107226308	-2.325358882	yes
PHACTR3	-0.2991837	0.107226308	-2.325315546	

NOP14	0.299138214	0.1073026	2.32492727	
PCBP1	0.299107999	0.107345094	2.324669358	
LAT	-0.298966088	0.107635423	-2.323458144	
SDHB	0.298941406	0.107665731	2.323247495	
SF3B14	0.298922045	0.107684225	2.323082272	
ZYG11B	0.298909569	0.107687432	2.322975796	
GK2	-0.298886763	0.107689089	-2.322781178	
UNC119	-0.298891572	0.107689089	-2.322822216	
TBC1D5	0.298866413	0.107709802	2.322607512	
POMP	0.298846899	0.107728661	2.322440993	
SENP5	0.298834492	0.107731737	2.322335115	
AIG1	0.298806691	0.107744538	2.322097881	yes
RBM47	0.298817529	0.107744538	2.32219037	
XCR1	-0.298779063	0.10778145	-2.321862135	
C19orf60	-0.298754801	0.107810894	-2.321655109	
POLA1	0.298709495	0.107887144	2.321268536	
MMP21	-0.298697272	0.107889834	-2.32116425	
GAS2	-0.29866098	0.107897097	-2.320854604	
MRPS28	0.2986697	0.107897097	2.320929005	
HPRT1	0.2986683	0.107897097	2.32091706	
C22orf28	0.298595591	0.108018104	2.320296731	
PCID2	0.298560755	0.108046665	2.319999532	
SECISBP2	0.298566232	0.108046665	2.320046263	yes
IL11RA	-0.298505581	0.108145047	-2.319528855	
ZNF784	-0.298465584	0.10818032	-2.319187666	
DACT3	-0.298458632	0.10818032	-2.319128365	
ZHX3	-0.298456756	0.10818032	-2.319112356	
INSM2	-0.298410216	0.108235042	-2.318715374	
KIF20B	0.2984197	0.108235042	2.318796272	
FAM46C	-0.298384669	0.108265358	-2.318497463	
BRCA2	0.298374637	0.108265358	2.318411897	
AVPR1B	-0.298362334	0.108268292	-2.318306957	
FICD	-0.298317229	0.108289987	-2.317922253	

CTRL	-0.298299464	0.108289987	-2.317770731	
PSMA5	0.298324697	0.108289987	2.317985947	
LY6G6D	-0.298291109	0.108289987	-2.317699477	
UBA52	0.29828672	0.108289987	2.317662046	
ZW10	0.298330784	0.108289987	2.318037859	
CCL7	-0.298265437	0.108312976	-2.317480523	
RASSF8	-0.298196463	0.10838545	-2.316892294	
HMCN2	-0.298210493	0.10838545	-2.317011941	
NKRF	0.298191452	0.10838545	2.316849559	
C2orf49	0.298189065	0.10838545	2.316829204	
EPHA10	-0.298140213	0.108396617	-2.316412611	
MEIS2	-0.298151111	0.108396617	-2.316505542	
LOC440786	-0.298171087	0.108396617	-2.316675888	
ECHDC3	-0.298152469	0.108396617	-2.316517122	
MTERF	0.298086955	0.108491008	2.31595846	
STARD9	-0.2980486	0.108552181	-2.315631408	
MEF2B	-0.297971648	0.108614504	-2.314975285	
PCDH9	-0.297996965	0.108614504	-2.315191139	
COMMD2	0.297965942	0.108614504	2.314926631	yes
ASCL5	-0.298007181	0.108614504	-2.315278253	
SI	-0.297973433	0.108614504	-2.314990505	
PTAFR	0.29792319	0.108685572	2.314562134	
UBE2Q1	0.297906952	0.108697404	2.314423694	
DSCR6	-0.297888701	0.108713739	-2.314268101	yes
LRRK2	-0.297872292	0.108725964	-2.314128203	
COL8A2	-0.297834695	0.108741022	-2.313807686	yes
ATXN10	0.297833865	0.108741022	2.313800613	
TAS2R42	-0.297832746	0.108741022	-2.31379107	
TMEM35	-0.297803592	0.10878176	-2.31354254	
C17orf60	-0.297746841	0.108840366	-2.313058762	
LOC388882	-0.297721947	0.108840366	-2.312846563	
LHX1	-0.297725173	0.108840366	-2.312874062	
FAM29A	0.297711828	0.108840366	2.31276031	

RAP2A	0.297736754	0.108840366	2.312972784	
SFRS1	0.297762841	0.108840366	2.31319515	
CEP70	0.297660482	0.108930813	2.312322652	
PRC1	0.297641962	0.108947826	2.312164796	
ERP29	-0.297597085	0.108989878	-2.311782299	
YWHAQ	0.297528674	0.108989878	2.311199255	
COL6A2	-0.297568701	0.108989878	-2.311540387	yes
CELSR2	0.297524991	0.108989878	2.311167866	
FBXO45	0.297532553	0.108989878	2.311232311	
SHANK1	-0.297552229	0.108989878	-2.311399999	
BMPR2	0.297566706	0.108989878	2.311523384	
BRCC3	0.297547827	0.108989878	2.311362487	
ANGPTL6	-0.297603972	0.108989878	-2.311840997	
OR4X1	-0.297501371	0.10899396	-2.310966567	
SLC28A1	-0.29751221	0.10899396	-2.311058944	
CA4	-0.297484837	0.10900658	-2.310825665	
TMEM170A	0.297458266	0.109033518	2.310599232	
SNRPB2	0.297451018	0.109033518	2.31053746	
CAMSAP1L1	0.297435808	0.109043189	2.310407851	
LYPLA1	0.29734779	0.109215977	2.309657822	
C15orf40	0.297329844	0.1092318	2.309504903	
CNTD2	-0.297307105	0.109248468	-2.309311154	
MINPP1	0.297300637	0.109248468	2.309256047	
EIF2C3	0.297253781	0.109319504	2.308856816	
SMAD7	-0.297247196	0.109319504	-2.308800713	
CYLC1	-0.297220464	0.109355066	-2.308572952	
C15orf23	0.297198401	0.109355758	2.30838498	
PAGE5	-0.297206355	0.109355758	-2.308452745	
MYO16	-0.297182557	0.109366907	-2.308249995	
KLHDC7A	-0.297061554	0.109510707	-2.307219168	
EGR4	-0.29708689	0.109510707	-2.307434999	
FLJ44477	-0.297062643	0.109510707	-2.307228451	
MRPL35	0.297061761	0.109510707	2.307220935	

TRIM68	0.297053281	0.109510707	2.307148696
TTK	0.297097664	0.109510707	2.307526779
MYBPHL	-0.296988176	0.109632567	-2.306594121
HMG20A	0.296939633	0.109668445	2.306180645
RSL1D1	0.296945635	0.109668445	2.306231766
SLCO3A1	0.296960609	0.109668445	2.30635931
DBT	0.296909549	0.10970099	2.305924406
IGHM	-0.29687452	0.10970099	-2.30562606
FOLR4	-0.296871516	0.10970099	-2.305600477
MAGEC2	-0.296854849	0.10970099	-2.305458527
TMEM106B	0.296849199	0.10970099	2.305410406
NECAP2	0.29685435	0.10970099	2.305454277
CYB5B	0.296859589	0.10970099	2.305498894
LOC100131664	-0.296798562	0.109768175	-2.30497915
ALOX12P2	0.296797634	0.109768175	2.30497125
RNF170	0.29675976	0.109828987	2.304648711
mei-01	-0.296741524	0.109845631	-2.304493413
CHAT	-0.296730616	0.10984579	-2.304400522
SNORD36A	0.296627659	0.109955627	2.303523803
YBX2	-0.296665869	0.109955627	-2.303849166
BXDC2	0.296630823	0.109955627	2.303550746
GALNT11	-0.296632281	0.109955627	-2.303563164
FAIM3	-0.296635622	0.109955627	-2.303591608
MESP1	-0.29661484	0.10996011	-2.303414659
RNGTT	0.296589142	0.109993604	2.303195841
ZNF284	0.296577304	0.109995888	2.303095047
FH	0.296537836	0.110036039	2.302759005
IL21R	-0.296548251	0.110036039	-2.302847681
SPANXD	-0.296513165	0.110067248	-2.302548954
GALK1	-0.296476165	0.110077513	-2.302233944
MPO	-0.296482969	0.110077513	-2.302291874
PTTG1	0.296485232	0.110077513	2.302311138
RBX1	0.296455166	0.11010047	2.302055165

IVNS1ABP	0.296433833	0.110124185	2.301873548	yes
CHM	0.296369391	0.110198967	2.30132495	
VPS13A	0.296342859	0.110198967	2.301099092	
C6orf167	0.296365919	0.110198967	2.301295395	
APPL1	0.296342651	0.110198967	2.301097321	
SNX12	0.296328035	0.110198967	2.300972909	
PNPLA7	-0.296325043	0.110198967	-2.300947436	
IWS1	0.296353078	0.110198967	2.301186086	
CPLX1	-0.296229709	0.110387402	-2.300135949	
TEAD2	-0.296219925	0.110387402	-2.300052678	
IL19	-0.296169118	0.110463821	-2.299620238	
KRTAP10-10	-0.296164497	0.110463821	-2.299580909	
IPO9	0.29614177	0.110466412	2.299387484	
SMARCAD1	0.296147562	0.110466412	2.299436779	
ANKRD24	-0.296126734	0.110476011	-2.299259513	
WWP1	0.296075064	0.110552259	2.298819775	
C9orf85	0.296060634	0.110552259	2.298696966	
TREML4	-0.296071271	0.110552259	-2.298787497	
RMND5A	0.296038625	0.110577634	2.298509668	yes
C1orf216	-0.29600067	0.110595295	-2.298186679	
DRP2	-0.295998481	0.110595295	-2.298168052	
BSX	-0.296015377	0.110595295	-2.298311828	
BDNF	0.295927544	0.110731339	2.297564423	
ATR	0.295904967	0.110758048	2.297372311	
STMN2	-0.295829465	0.110805992	-2.296729895	
C4orf26	-0.29584209	0.110805992	-2.296837312	
C14orf21	0.295819181	0.110805992	2.296642399	
MYLIP	0.295850842	0.110805992	2.296911781	
C21orf62	-0.295845543	0.110805992	-2.296866687	
LOC646471	-0.295822798	0.110805992	-2.296673168	
NANOS1	-0.295772032	0.110869482	-2.296241249	
SRI	0.295769614	0.110869482	2.29622068	yes
DUSP27	-0.295684292	0.111038402	-2.29549481	

COL22A1	-0.295605667	0.111087765	-2.294825962
C1GALT1	0.29562944	0.111087765	2.295028185
PLEKHB1	-0.295598001	0.111087765	-2.294760751
ST5	0.295631478	0.111087765	2.295045525
CCDC15	0.295628474	0.111087765	2.295019965
TTYH2	-0.295605986	0.111087765	-2.294828677
CDKN2D	-0.29557844	0.111098586	-2.294594358
LRRN2	-0.295552105	0.111098586	-2.294370351
TMEM50A	0.295566403	0.111098586	2.29449197
SCARNA11	-0.295545615	0.111098586	-2.29431515
STX3	0.295539516	0.111098586	2.294263268
EBF2	-0.29548021	0.111208736	-2.293758833
ZNF100	0.295427565	0.11127948	2.293311077
DMRT1	-0.295429948	0.11127948	-2.293331343
GATM	-0.295361428	0.111375501	-2.292748597
KRT84	-0.295356609	0.111375501	-2.292707621
SCRT1	-0.29535308	0.111375501	-2.292677604
KNCN	-0.295332757	0.111397293	-2.29250477
MEX3B	-0.295307152	0.111431092	-2.292287023
KCNH7	-0.295296329	0.111431311	-2.292194991
APCDD1L	-0.295263934	0.111473882	-2.291919504
MAP3K15	-0.295245428	0.111473882	-2.291762138
JTV1	0.295252135	0.111473882	2.291819175
KIF21B	-0.295213018	0.111498823	-2.291486545
LASS4	-0.295220112	0.111498823	-2.291546874
RANGRF	-0.295187347	0.111508466	-2.291268262
GALNTL6	-0.295189284	0.111508466	-2.291284736
TMEM89	-0.295166599	0.111531276	-2.291091851
C10orf35	-0.295120571	0.11161158	-2.290700492
PARP10	-0.295107098	0.111617867	-2.290585939
OR2L2	-0.295091192	0.111629692	-2.2904507
OR1C1	-0.29507477	0.111642696	-2.290311073
DPH3	0.295047266	0.111656569	2.290077238

ZAR1	-0.295056319	0.111656569	-2.290154205	
CLN5	0.294954949	0.111835343	2.289292412	
VASH1	-0.294945132	0.111835343	-2.289208955	
MATR3	0.294936627	0.111835343	2.289136656	
KCNJ9	-0.294900985	0.111892168	-2.288833672	
SPRR4	-0.294847832	0.111911259	-2.288381848	
IPMK	0.294821917	0.111911259	2.288161569	yes
SSX9	-0.294800986	0.111911259	-2.287983654	
STAC2	-0.294823122	0.111911259	-2.288171808	
C10orf31	-0.294828795	0.111911259	-2.288220031	
LOC441208	-0.294764386	0.111911259	-2.287672568	
WAC	0.294771215	0.111911259	2.287730614	
ESF1	0.294848918	0.111911259	2.288391081	
POLR2D	0.294775992	0.111911259	2.287771212	
SIGLEC1	-0.294799772	0.111911259	-2.287973334	
SSR1	0.294769749	0.111911259	2.28771815	
UBE3B	0.294842912	0.111911259	2.288340023	
GFRA4	-0.294748219	0.111923775	-2.287535157	
LRFN1	-0.294718596	0.111966953	-2.287283387	
SLC16A8	-0.294696005	0.111994122	-2.287091382	
CEMP1	-0.294680858	0.11200433	-2.286962649	
OR4D11	-0.294645174	0.112010887	-2.286659386	
TMEM33	0.294635328	0.112010887	2.286575707	
SYCP1	-0.294637362	0.112010887	-2.286592991	
FAM62C	-0.294649389	0.112010887	-2.2866952	
ASCL4	-0.294618294	0.112025418	-2.286430943	
CCR7	-0.294570618	0.112085515	-2.286025789	
SPO11	-0.294573906	0.112085515	-2.286053733	
ST3GAL6	-0.294555768	0.112095081	-2.2858996	
JOSD2	-0.294503673	0.112141018	-2.285456916	
CPAMD8	-0.294504153	0.112141018	-2.28546099	
C5orf44	0.294524481	0.112141018	2.285633727	
C21orf84	-0.294483806	0.112162047	-2.2852881	

TXNRD2	-0.294426876	0.112170539	-2.284804364	
NSMCE2	0.294446665	0.112170539	2.284972512	
SERPINA9	-0.294437212	0.112170539	-2.284892185	
DHH	-0.294432787	0.112170539	-2.284854592	yes
ZNF189	0.294455016	0.112170539	2.285043465	
RNF139	0.294411218	0.112181993	2.284671327	
AMH	-0.294392857	0.112199617	-2.284515322	
KIAA1147	0.294366895	0.112234589	2.284294735	
LRRC15	-0.294349137	0.112250693	-2.284143868	
PACS1	-0.294336884	0.112250693	-2.284039764	
ACE2	0.294317324	0.112250693	2.283873582	
C1orf94	-0.294323995	0.112250693	-2.283930256	
ZNF770	0.294273553	0.112288933	2.283501717	
BTBD7	0.294268699	0.112288933	2.283460485	
MARCH7	0.294288016	0.112288933	2.28362459	
FAT3	-0.294243106	0.112323109	-2.283243059	
DENND1B	0.294191082	0.112393402	2.282801118	
FBXL3	0.294199303	0.112393402	2.282870952	
OR11H6	-0.294146304	0.112398732	-2.282420742	
NPTXR	-0.294153919	0.112398732	-2.282485427	
FAM169A	0.294163437	0.112398732	2.282566279	
IL20RB	0.294150934	0.112398732	2.282460073	
A2LD1	-0.294102665	0.11247417	-2.282050066	
LOC124220	-0.294046207	0.112578954	-2.281570522	yes
BAI1	-0.294031237	0.112588933	-2.281443369	
RNF215	-0.294006863	0.112609271	-2.281236351	
ACTA2	-0.294001136	0.112609271	-2.281187715	
CENPV	-0.293986575	0.112618328	-2.281064043	
PROCA1	-0.293932216	0.112645716	-2.280602374	
LOC100133402	-0.293945531	0.112645716	-2.280715458	
KLK13	0.293945692	0.112645716	2.280716829	
ZNF702P	0.293933985	0.112645716	2.280617396	
C21orf125	-0.29385591	0.112796061	-2.279954359	

HBXIP	0.293816398	0.112813789	2.279618823	
SLC26A3	-0.29382661	0.112813789	-2.279705546	yes
SEMA3E	-0.293835634	0.112813789	-2.279782178	
CCDC9	-0.293772671	0.112835126	-2.279247514	yes
LAMP2	0.293777489	0.112835126	2.279288431	
ZNF154	-0.29377765	0.112835126	-2.279289792	
BAG3	0.293764744	0.112835126	2.27918021	
PARVG	-0.293750524	0.112843463	-2.279059464	
UNC13B	0.293666731	0.112941938	2.278347987	
DOK6	-0.293665224	0.112941938	-2.27833519	
WDR53	0.293683663	0.112941938	2.278491748	
UFSP1	-0.293678035	0.112941938	-2.278443964	
AQP7	-0.293620614	0.112964233	-2.277956439	
SEMA4G	-0.293635557	0.112964233	-2.27808331	
BTN1A1	-0.293602656	0.112964233	-2.277803976	
ZNF611	0.293606509	0.112964233	2.277836685	
SUCLG1	0.293631361	0.112964233	2.27804768	
HOXA4	-0.293581882	0.112987629	-2.277627605	
CLEC4D	-0.293508404	0.11310763	-2.277003814	
RBM41	0.293508944	0.11310763	2.277008397	
ENPP1	-0.293457491	0.113200187	-2.276571613	
STK3	0.293375364	0.113364488	2.275874483	
MORC1	-0.293362415	0.113369981	-2.275764568	
MVK	0.293294998	0.113500653	2.275192355	
OR7A10	-0.293265235	0.113522035	-2.274939748	
NDUFAF1	0.293264588	0.113522035	2.274934257	
TMEM52	-0.293241465	0.113524941	-2.27473801	
NDUFA4	0.293231672	0.113524941	2.274654897	
BPIL1	-0.293250589	0.113524941	-2.274815444	
KCNV2	-0.293199103	0.113527088	-2.274378487	
IGSF9B	-0.293205942	0.113527088	-2.274436527	
CNPY4	-0.293209385	0.113527088	-2.274465749	
GOS2	-0.293155177	0.11360386	-2.274005711	

RPL23	0.293127077	0.113644257	2.273767245	
C1QL1	-0.293080335	0.113673326	-2.273370598	
FLJ26245	-0.29309073	0.113673326	-2.273458808	
RING1	-0.29309302	0.113673326	-2.273478242	
ICAM5	-0.293072297	0.113673326	-2.273302388	
ST3GAL2	-0.293045799	0.113710067	-2.273077543	yes
ERAP1	0.293012114	0.113763368	2.272791713	
DTX3	-0.292996024	0.11377617	-2.272655189	
NKX2-1	-0.292940414	0.113880012	-2.272183347	
STT3B	0.292913479	0.113892114	2.271954822	
IGKV5-2	-0.292893061	0.113892114	-2.271781591	
PSMA7	0.292896724	0.113892114	2.271812668	
LOC644538	-0.292922322	0.113892114	-2.272029851	
HBCBP	-0.292856832	0.113894004	-2.27147422	
SLC17A3	-0.292842509	0.113894004	-2.271352705	
TMED7	0.292844949	0.113894004	2.271373409	
TRHR	-0.292874282	0.113894004	-2.271622269	
TREML2	-0.292839658	0.113894004	-2.271328518	
PION	0.292816695	0.113922691	2.271133714	
PM20D1	-0.292796675	0.113944606	-2.270963876	
WDR76	0.292783991	0.113949621	2.270856272	
OR52B6	-0.292759979	0.113980748	-2.270652572	
RER1	0.292732427	0.113995832	2.270418847	
TTY14	-0.292735368	0.113995832	-2.270443799	
ZBED5	0.292716727	0.114007816	2.270285663	
PQLC1	-0.292645729	0.114147341	-2.269683431	
ASB2	-0.292624045	0.114173149	-2.269499507	
FCHO1	-0.292585996	0.114236744	-2.269176778	
SFRS12IP1	0.29257244	0.114243806	2.269061802	
ABCC8	-0.292531106	0.114315023	-2.268711235	
ARSE	-0.292509829	0.114339932	-2.268530776	
OR2A14	-0.292470556	0.11435631	-2.26819771	
CYP11B1	-0.292486499	0.11435631	-2.268332917	

ZFPM1	-0.292460777	0.11435631	-2.268114777	
HBP1	0.292474152	0.11435631	2.268228206	
ABHD13	0.29244092	0.11437796	2.267946381	
TCEB3B	-0.292419621	0.114402951	-2.267765751	
LVRN	-0.292386498	0.114434802	-2.267484864	
DIRAS2	-0.292384874	0.114434802	-2.267471095	
LOC100133367	-0.292356818	0.114475431	-2.26723318	
CST7	-0.292327055	0.114514804	-2.266980799	
DAZAP2	0.292318834	0.114514804	2.266911086	yes
SNORD74	0.29227172	0.114599551	2.266511593	
COQ7	0.29224887	0.114603952	2.266317846	
ZBTB8OS	0.292257059	0.114603952	2.266387285	
COL2A1	-0.292198925	0.114609297	-2.265894377	
FBXO22	0.292217187	0.114609297	2.266049213	
PRAMEF12	-0.29221004	0.114609297	-2.265988622	
TRMT5	0.292225497	0.114609297	2.26611967	
TBX1	-0.292194222	0.114609297	-2.265854504	
C1orf106	0.292180876	0.114615971	2.265741347	
ZNF493	0.292139091	0.114688454	2.265387088	
LASS3	0.29209474	0.114766918	2.265011089	
LOC375295	-0.292072185	0.114794934	-2.264819872	yes
SPAG5	0.292020709	0.114865738	2.2643835	
GPR107	0.292025198	0.114865738	2.264421552	
ILF2	0.291966408	0.114941317	2.2639232	
RPL3	0.291976043	0.114941317	2.264004871	
C16orf13	-0.291956741	0.114941317	-2.263841253	
KIAA1143	-0.291943974	0.114946689	-2.26373303	
OSBPL2	0.291911482	0.114997798	2.263457624	
COTL1	-0.291896495	0.115008328	-2.263330587	
COMTD1	-0.291880065	0.115022207	-2.263191327	
PPP4R2	0.291858304	0.115048457	2.263006883	
R3HCC1	-0.291824569	0.11507909	-2.262720955	
C4orf30	0.291824216	0.11507909	2.262717967	

TPBG	0.291790215	0.115133764	2.262429798	
CTRB1	-0.291758701	0.115164909	-2.262162718	
ACN9	0.291755922	0.115164909	2.26213916	
DYNC1LI2	0.291722542	0.11521818	2.26185627	
CYP24A1	0.29168898	0.115271894	2.26157185	
WASF3	-0.291633142	0.115333074	-2.261098672	
KCTD19	-0.291639798	0.115333074	-2.261155077	
EN1	-0.291631353	0.115333074	-2.261083508	
HAS1	-0.291564702	0.115368486	-2.260518734	yes
PLUNC	-0.29155357	0.115368486	-2.26042441	
ACTA1	-0.291586046	0.115368486	-2.260699591	
LPPR2	-0.291591851	0.115368486	-2.260748781	
C12orf65	-0.291575129	0.115368486	-2.260607083	
TTC37	0.2915638	0.115368486	2.260511089	
C6orf48	0.291527684	0.115388546	2.260205069	
KIAA0100	0.291524104	0.115388546	2.26017474	
BMP8B	-0.291513655	0.115388627	-2.260086206	
PRAP1	-0.291442019	0.115506757	-2.259479256	
MOBKL2A	-0.291444725	0.115506757	-2.259502179	
KLHDC10	0.291394963	0.115567787	2.259080588	yes
CECR6	-0.291402088	0.115567787	-2.259140954	
IPP	0.291360031	0.115600639	2.258784644	yes
SMC3	0.291366117	0.115600639	2.258836204	
IRX4	-0.291319069	0.115671763	-2.258437634	
RAB18	0.291286103	0.115700075	2.258158373	
FLT4	-0.291294208	0.115700075	-2.258227034	yes
GTF2H5	0.291257176	0.115743218	2.257913333	
GNB1L	-0.29124125	0.115756092	-2.257778422	
USP40	0.291221817	0.115777138	2.257613814	
CXorf61	-0.291201438	0.115800395	-2.257441192	
CCNI	0.291160124	0.115848225	2.257091248	
TNNI1	-0.291163726	0.115848225	-2.257121761	
HIVEP1	0.291070425	0.115940097	2.256331524	

KCNJ11	-0.291072912	0.115940097	-2.256352586	
AADAT	0.291084363	0.115940097	2.256449568	
PPP6C	0.29108301	0.115940097	2.256438114	
PLA2G2F	-0.291068768	0.115940097	-2.256317488	
PPY	-0.291017348	0.116035809	-2.255882008	
CLDN18	-0.290951628	0.116164977	-2.255325448	
PRKAA1	0.290933806	0.11618235	2.25517452	
LOC100132750	-0.290872676	0.116281664	-2.254656869	
ZNF786	0.290860153	0.116281664	2.254550826	
ATP11A	0.290866498	0.116281664	2.254604558	
HAPLN1	-0.29082368	0.116325357	-2.254241991	
C20orf7	0.290810328	0.116325357	2.254128938	
AKNA	-0.290818284	0.116325357	-2.254196303	
FLJ44313	-0.290789539	0.116330022	-2.253952914	
TAF9	0.290787588	0.116330022	2.25393639	
KCNK5	-0.290741732	0.116412989	-2.25354813	
RP11-35N6.1	-0.290690686	0.11650815	-2.25311595	
FBP1	-0.290669501	0.116533464	-2.252936592	
DARS	0.290607117	0.116558191	2.252408458	
ADAMTS19	-0.290620196	0.116558191	-2.252519178	
FAM9A	-0.29063256	0.116558191	-2.252623855	
NUDT12	0.290645768	0.116558191	2.252735671	
TRIM55	-0.290610466	0.116558191	-2.25243681	
GNRH2	-0.290540054	0.116690972	-2.251840746	
PTMS	-0.29052541	0.116701011	-2.251716786	yes
hCG_1793639	-0.290513234	0.116705274	-2.251613711	
CLCNKA	-0.290498092	0.116716488	-2.251485535	
TRIM25	0.29042822	0.116856001	2.250894109	
NCR3	-0.290403784	0.116880721	-2.250687277	
KIAA1370	0.290396974	0.116880721	2.250629636	
ANKFY1	0.290341687	0.116986153	2.250161709	
TRIM9	-0.290317476	0.117018689	-2.2499568	
MRVI1	-0.29025352	0.117133466	-2.249415538	

RNF149	0.290247906	0.117133466	2.249368027	
C20orf30	-0.290195136	0.117208845	-2.248921457	
IBSP	-0.290196571	0.117208845	-2.248933603	
TBCCD1	0.290182114	0.11721514	2.248811257	
RYK	0.290145709	0.117276411	2.248503195	
COL25A1	-0.29011873	0.117315536	-2.248274906	
EMP3	-0.290107743	0.117317057	-2.248181937	
POLG2	0.290027614	0.117408293	2.247503945	
KRTAP12-4	-0.290033755	0.117408293	-2.247555901	
VBP1	0.290041697	0.117408293	2.247623104	
MOGAT2	-0.290031409	0.117408293	-2.247536055	
SFTA2	-0.290001937	0.117444405	-2.247286694	
RAD51AP1	0.289951162	0.117483357	2.246857109	
ADORA2A	-0.289960007	0.117483357	-2.246931937	
SNORD59A	0.289944072	0.117483357	2.246797121	
MFSD7	-0.289946853	0.117483357	-2.246820657	
FAM181B	-0.289926849	0.117486939	-2.246651414	
C6orf201	-0.28991158	0.117486939	-2.246522234	
CALD1	-0.289916996	0.117486939	-2.246568057	
BHLHE23	-0.289874045	0.117551014	-2.246204692	
APOBEC2	-0.28984179	0.117578375	-2.245931829	
STEAP1	0.28985021	0.117578375	2.246003057	
FOXA2	-0.289806568	0.117637045	-2.245633873	
ADAD2	-0.289792381	0.117646167	-2.245513867	yes
AGXT2L1	-0.289767181	0.117681246	-2.245300702	
NT5M	-0.289750285	0.117696763	-2.245157778	
ABI3	-0.289696224	0.117775598	-2.244700504	
PRDX2	0.289705358	0.117775598	2.244777762	
OR2M3	-0.289640679	0.117817841	-2.244230698	
C12orf61	-0.289638514	0.117817841	-2.244212384	
TRIT1	0.289637089	0.117817841	2.244200333	
ATP10D	0.28964777	0.117817841	2.244290668	
KIAA1274	-0.289599121	0.117858803	-2.243879212	

DOCK5	0.289608858	0.117858803	2.243961563	
MYO22	-0.289586653	0.11786392	-2.243773766	
RHBDD3	-0.289545312	0.117871413	-2.243424128	
ZNF517	-0.2895423	0.117871413	-2.243398658	
SLC1A3	0.289566687	0.117871413	2.243604904	
hCG_1659830	-0.289551937	0.117871413	-2.243480158	
RASSF1	-0.289491504	0.117896163	-2.242969085	
CYP1B1	0.289505047	0.117896163	2.243083614	
GLI4	-0.289480375	0.117896163	-2.242874971	
TRPC3	-0.289482821	0.117896163	-2.242895656	
DNAJC14	0.28949865	0.117896163	2.243029512	
CALHM2	-0.28943464	0.117975674	-2.242488212	
TGM1	0.289426114	0.117975674	2.242416115	
CLDND2	-0.289411523	0.11798585	-2.242292733	
HSPB6	-0.289344907	0.118094597	-2.241729444	
CENPN	0.289349534	0.118094597	2.241768568	
TRAF6	0.289333241	0.11809788	2.241630806	
MYF5	-0.289322964	0.11809789	-2.241543904	
TESSP2	-0.28926653	0.118109915	-2.241066753	
FLJ44653	-0.28929482	0.118109915	-2.241305943	
MMP7	-0.289269726	0.118109915	-2.24109377	
SERPINA5	-0.289281876	0.118109915	-2.241196502	
CACNA2D3	0.289280462	0.118109915	2.241184546	
C21orf81	0.289195556	0.11824469	2.240466693	
MPP5	0.289185869	0.11824469	2.240384803	
TDG	0.289178694	0.11824469	2.240324141	
C8orf46	-0.289166048	0.118244982	-2.240217229	
RAC2	-0.289147797	0.118244982	-2.240062932	
LOC731797	-0.289148979	0.118244982	-2.240072928	
CDX2	-0.289073472	0.118269607	-2.239434622	
PTF1A	-0.289113657	0.118269607	-2.239774327	
IRF2BP1	-0.289105381	0.118269607	-2.239704361	yes
SH2D4B	-0.28906563	0.118269607	-2.239368334	

PNLIP	-0.289076118	0.118269607	-2.239456988
PBXIP1	-0.28908513	0.118269607	-2.239533169
IPPK	0.28912585	0.118269607	2.239877404
POU4F1	-0.289033751	0.118320744	-2.239098853
ATP2B1	0.289015199	0.118340389	2.238942036
ARX	-0.288957097	0.1183853	-2.23845092
SNED1	-0.288955253	0.1183853	-2.238435333
CD200R1L	-0.288974124	0.1183853	-2.238594841
TRIM17	-0.288964392	0.1183853	-2.23851258
FGF8	-0.288935872	0.118390097	-2.238271517
LOC255411	-0.2889123	0.118390097	-2.238072283
LRRC33	-0.288916915	0.118390097	-2.238111288
C13orf23	0.288925006	0.118390097	2.238179679
PNLDC1	-0.288851177	0.118416392	-2.237555689
MYLPF	-0.288858764	0.118416392	-2.237619811
LOC388387	-0.288850061	0.118416392	-2.237546256
MLN	-0.288851142	0.118416392	-2.237555388
UCHL5	0.28888687	0.118416392	2.237857348
C6orf226	-0.288833195	0.11843211	-2.237403711
TM2D2	0.288801279	0.118483426	2.23713398
TMTC2	0.288715285	0.118502617	2.236407257
VPREB3	-0.288730557	0.118502617	-2.236536313
IL9	-0.288752481	0.118502617	-2.236721586
IRF7	-0.288774442	0.118502617	-2.236907179
ACCSL	-0.288705217	0.118502617	-2.236322183
MMP16	-0.288714838	0.118502617	-2.236403484
LOC643332	-0.288743553	0.118502617	-2.236646138
SNAI1	-0.288701284	0.118502617	-2.236288946
C9orf140	-0.288768488	0.118502617	-2.236856862
F10	-0.288666204	0.118512831	-2.235992511
CSTF2T	0.288665692	0.118512831	2.235988186
C1orf146	-0.288661646	0.118512831	-2.235954002
SOS2	0.288656173	0.118512831	2.235907752

C8orf74	-0.288581383	0.118647028	-2.235275798
DDAH2	-0.288579062	0.118647028	-2.23525619
PITPNM3	0.288562341	0.118662481	2.235114909
MYLK	-0.288543329	0.118674291	-2.234954267
OSM	-0.288536972	0.118674291	-2.234900564
JOSD1	0.288524573	0.118679528	2.2347958
CATSPER1	-0.28848059	0.11871132	-2.234424203
DEFB116	-0.288481357	0.11871132	-2.234430682
APOBEC1	-0.288490187	0.11871132	-2.234505284
ZIC2	-0.288396928	0.118875499	-2.233717398
ZBTB22	-0.288390915	0.118875499	-2.233666604
CSF1	-0.288311442	0.118991518	-2.232995249
SNORD44	0.288312251	0.118991518	2.233002085
OR5J2	-0.288313741	0.118991518	-2.233014668
CPLX2	-0.288199609	0.119089041	-2.232050622
OR1N1	-0.288228025	0.119089041	-2.232290632
DNAJC5G	-0.288245464	0.119089041	-2.232437935
HBM	-0.28819913	0.119089041	-2.232046569
NOVA2	-0.288207602	0.119089041	-2.232118132
PRPH	-0.288226754	0.119089041	-2.232279895
ACTL8	-0.28824004	0.119089041	-2.232392117
RBM38	-0.28817402	0.119100485	-2.231834488
DOK2	-0.288173977	0.119100485	-2.231834124
AZI1	-0.288065768	0.119333309	-2.230920221
YIPF1	0.288049622	0.119347526	2.230783863
PATE1	-0.288004375	0.119399513	-2.230401759
ORC5L	0.287981458	0.119399513	2.230208226
PSMA3	0.287983981	0.119399513	2.230229531
C9orf29	-0.287976955	0.119399513	-2.230170203
SNORA24	-0.28798537	0.119399513	-2.230241263
DHRS1	0.287945813	0.119425272	2.229907222
GFER	-0.287954516	0.119425272	-2.229980713
LRIT1	-0.287925339	0.119425684	-2.229734333

NPBWR2	-0.287928091	0.119425684	-2.229757577	
RNASE10	-0.28788127	0.119482211	-2.229362218	
C21orf56	-0.287882188	0.119482211	-2.229369966	
PBX3	-0.287867738	0.119490266	-2.229247954	
ART3	-0.287850312	0.119507583	-2.229100821	
PLA2G4A	0.287792637	0.119620675	2.228613846	
CLNS1A	0.287757632	0.119644867	2.228318299	
C22orf34	-0.287752052	0.119644867	-2.228271189	
BAZ1B	0.287754452	0.119644867	2.228291455	
ZAN	-0.28771441	0.119710349	-2.227953396	
UPRT	0.28770281	0.119713834	2.227855462	
PGPEP1	-0.287662971	0.119784585	-2.227519128	
LDB3	-0.287637829	0.119820343	-2.227306882	
PIK3C2G	-0.287567526	0.119939623	-2.226713415	
ASCC2	0.287570742	0.119939623	2.22674056	
BTNL9	-0.287539777	0.119981642	-2.226479178	
C15orf45	-0.287517924	0.120009608	-2.226294716	
AP2M1	0.287486156	0.120039664	2.226026564	
FRMPD3	-0.287485071	0.120039664	-2.226017409	
C6orf168	0.287396413	0.120227165	2.225269108	
C9orf97	0.287377147	0.120249002	2.225106503	
MRC2	-0.287353254	0.1202819	-2.224904857	yes
C22orf31	-0.287338976	0.120291829	-2.224784355	
CNGA2	-0.28732816	0.120293487	-2.224693072	
JMJD2C	0.2872936	0.120351905	2.22440141	
SLBP	0.287265132	0.120395776	2.22416117	
NCAPG	0.287169875	0.120598232	2.223357334	
RBM15	0.287160292	0.120598232	2.223276475	
DNAJB2	-0.287134094	0.120612513	-2.223055416	
HIST1H2BN	-0.287140227	0.120612513	-2.223107162	
SMR3A	-0.287101077	0.120667367	-2.222776822	
RUSC2	-0.287063884	0.120732247	-2.222463012	yes
DPP10	0.287051046	0.120738779	2.222354689	

CXADR	0.286984251	0.120746544	2.221791141
C16orf65	-0.28697706	0.120746544	-2.221730478
PPAPDC2	0.287017377	0.120746544	2.222070624
FLJ90757	-0.286985447	0.120746544	-2.221801239
SHISA5	0.287005935	0.120746544	2.221974091
PTPRH	0.287025423	0.120746544	2.222138509
SLA	-0.287013182	0.120746544	-2.222035233
C2orf47	0.286947785	0.120792498	2.221483494
OR5T1	-0.286937226	0.1207936	-2.221394418
GMFG	-0.286898142	0.12086309	-2.221064699
TRPM7	0.286864946	0.120894275	2.220784662
RFX4	-0.286869218	0.120894275	-2.220820696
IPO5	0.286834164	0.120895491	2.220524998
PTK2	0.286851314	0.120895491	2.220669663
CCPG1	0.286843418	0.120895491	2.220603056
TLL12	0.286775258	0.121012601	2.220028102
LOC25845	-0.286755258	0.121022943	-2.21985941
PSD	-0.286750773	0.121022943	-2.219821578
EME2	-0.286734577	0.12103761	-2.219684963
NAT5	0.286699868	0.121072515	2.219392214
CACNA1E	-0.286702369	0.121072515	-2.219413305
UNQ6126	-0.286487328	0.121082833	-2.217599725
LOC100129395	-0.286679198	0.121082833	-2.219217871
VPS45	0.286590219	0.121082833	2.218467428
COPB1	0.286581668	0.121082833	2.218395317
FAM46D	-0.286509985	0.121082833	-2.217790795
AGA	0.286593872	0.121082833	2.218498233
ESRRB	-0.286525627	0.121082833	-2.217922705
FGFR3	0.286542538	0.121082833	2.218065312
PHLPP	0.286470703	0.121082833	2.217459533
GBP3	0.286569779	0.121082833	2.218295046
GNAS	-0.286605392	0.121082833	-2.218595389
DKFZp564N2472	-0.286542909	0.121082833	-2.21806844

KLK2	-0.286464137	0.121082833	-2.21740417	
MGAT5	0.286478564	0.121082833	2.217525825	
PLCG2	-0.286586316	0.121082833	-2.218434515	
COMMD4	-0.286562529	0.121082833	-2.218233903	
FAM176B	-0.286547409	0.121082833	-2.218106397	
ANKRD33B	-0.286670222	0.121082833	-2.219142169	
SPINK1	-0.286492696	0.121082833	-2.217644998	
hCG_2039146	-0.286503392	0.121082833	-2.217735192	
ZNF644	0.286592841	0.121082833	2.218489537	
PARD6G	0.286511742	0.121082833	2.217805614	
PHOX2B	-0.28660724	0.121082833	-2.218610974	
C20orf195	-0.286449017	0.121095016	-2.217276663	
FLJ32810	0.286431934	0.121111191	2.217132614	
FBXL16	-0.28635705	0.121223878	-2.216501193	
IGSF11	0.286350891	0.121223878	2.216449263	
LONRF2	-0.286350205	0.121223878	-2.216443476	
KRT82	-0.286345128	0.121223878	-2.216400669	
TMEM150	-0.286325061	0.121247964	-2.216231474	yes
KCNQ4	-0.286268296	0.121360206	-2.215752875	
C7orf61	-0.286234714	0.1214168	-2.215469741	
TACR3	-0.286210959	0.121425676	-2.215269472	
NCOR1	0.286215175	0.121425676	2.215305019	
FOXD2	-0.286117585	0.121626136	-2.214482309	
FCRL2	-0.28610146	0.121640806	-2.214346382	
ZACN	-0.286060062	0.12166805	-2.213997412	
PRR16	-0.28606209	0.12166805	-2.214014509	
QPCTL	-0.286063284	0.12166805	-2.214024568	
ACE	-0.286034853	0.121680297	-2.213784913	
KSR2	-0.286044452	0.121680297	-2.213865833	
KCNK1	0.286010247	0.121680297	2.213577509	
NF-E4	-0.286004872	0.121680297	-2.213532208	
SPG11	0.286012787	0.121680297	2.213598919	
SMC2	0.285965243	0.121692283	2.213198178	

OR7G1	-0.285963182	0.121692283	-2.213180805
C8orf42	-0.285956645	0.121692283	-2.213125707
CHST7	-0.285985377	0.121692283	-2.213367884
C3	-0.285949831	0.121692283	-2.213068278
DBC1	-0.285913191	0.121732305	-2.21275946
BMP10	-0.285917723	0.121732305	-2.212797659
CDSN	-0.285882871	0.121774446	-2.212503923
TMIGD1	-0.285865677	0.121774446	-2.212359014
ASCL2	-0.285868861	0.121774446	-2.212385843
RAI14	0.285852091	0.121783081	2.212244507
ANXA10	0.285808872	0.121814931	2.211880277
MFSD4	0.285809573	0.121814931	2.211886182
HOXB7	-0.285820792	0.121814931	-2.211980729
HOXB5	-0.285789752	0.121836908	-2.21171915
ZNRF4	-0.285779009	0.121838714	-2.211628616
PCOLCE	-0.285740756	0.121906795	-2.211306249
BFAR	0.285703232	0.121949068	2.210990052
LOC100133425	0.285710856	0.121949068	2.211054295
NAGK	-0.285683169	0.121973352	-2.210820983
HNRNPU	0.285658156	0.121985502	2.210610221
RPL8	0.285661876	0.121985502	2.210641568
TFAP2C	0.285621543	0.1220497	2.210301718
SUNC1	-0.285594522	0.122090789	-2.210074042
KCTD8	-0.285577661	0.122107383	-2.209931974
NKX1-2	-0.285554033	0.122140306	-2.209732893
SLC36A2	-0.285508684	0.122184767	-2.209350816
ABCA13	0.285505673	0.122184767	2.209325451
NSUN3	0.285508494	0.122184767	2.20934922
LILRB1	-0.285473563	0.12223819	-2.209054925
HORMAD2	-0.285399823	0.122344001	-2.208433705
PCDH8	-0.285417166	0.122344001	-2.208579807
SNX27	0.285400087	0.122344001	2.208435932
COL23A1	-0.285383813	0.12235859	-2.208298833

SSTR3	-0.285353827	0.122406949	-2.208046233	
BRI3BP	0.285284067	0.122485947	2.207458605	
LGI4	-0.285271313	0.122485947	-2.207351176	
DEFA5	-0.285272752	0.122485947	-2.207363295	
RBM16	0.285283065	0.122485947	2.207450168	
LAG3	-0.285274747	0.122485947	-2.207380095	
ZNF524	-0.285210059	0.12260998	-2.206835233	
GLO1	0.285173099	0.122627112	2.206523938	
SNX14	0.285181766	0.122627112	2.20659693	
SKP1	0.285175896	0.122627112	2.206547496	
CCNA1	-0.285090405	0.122803176	-2.205827479	
TMPRSS9	-0.285075441	0.122807698	-2.205701455	
C12orf35	0.285068626	0.122807698	2.205644063	
TFF1	-0.285058081	0.12280913	-2.205555257	
SYCN	-0.285034888	0.122841201	-2.205359936	
LOC145814	-0.285022856	0.122846242	-2.205258614	
THOC4	0.284992902	0.122855678	2.205006363	
RAB8A	0.284988285	0.122855678	2.204967484	
COQ9	0.285003172	0.122855678	2.205092851	
TCTE3	-0.284979173	0.122855678	-2.204890755	
RND2	-0.284940472	0.122925348	-2.204564865	
NDUFA5	0.284874793	0.123060466	2.204011825	
FLJ46321	-0.284778963	0.123268913	-2.203204957	
C17orf75	0.284731806	0.123359317	2.202807935	yes
PGA5	-0.284677591	0.123465118	-2.202351513	
F2RL3	-0.284668396	0.123465118	-2.202274104	yes
PARD6A	-0.284639161	0.12351204	-2.202027993	
RPL17P18	0.284605372	0.123521704	2.201743552	
CRISP3	-0.284611357	0.123521704	-2.201793938	
GPR156	-0.284615826	0.123521704	-2.201831554	
EFCAB3	-0.284578257	0.123539326	-2.201515303	
VWA1	-0.284583386	0.123539326	-2.201558477	yes
COMMD9	0.284509044	0.123567764	2.200932702	

APOC1	-0.284518941	0.123567764	-2.201016011	
FGFRL1	-0.284539847	0.123567764	-2.201191984	
UROS	0.284532537	0.123567764	2.20113045	
SFRS2IP	0.284506994	0.123567764	2.200915447	
VAPB	0.284551735	0.123567764	2.201292048	
SC5DL	0.284490796	0.123583027	2.200779106	
GPN1	0.284426237	0.123691837	2.200235724	
ABTB1	-0.284435263	0.123691837	-2.20031169	
CLEC4GP1	-0.284345552	0.123828408	-2.199556656	
METTL8	0.284343117	0.123828408	2.199536167	
B3GNT9	-0.284340396	0.123828408	-2.199513269	
LOC100130348	-0.284308238	0.123842688	-2.199242631	
RNF2	0.284311334	0.123842688	2.199268681	yes
ZFP37	0.284304788	0.123842688	2.1992136	
TSPYL3	-0.284246373	0.123845941	-2.198722007	
ARID3A	-0.284234742	0.123845941	-2.198624136	
MOBK13	0.284239822	0.123845941	2.198666881	
MCM6	0.2842143	0.123845941	2.198452113	
PMS2CL	0.284245471	0.123845941	2.198714423	
TAS2R3	0.28422803	0.123845941	2.198567649	
RIPK4	0.284242735	0.123845941	2.198691393	
LBH	-0.284264467	0.123845941	-2.198874273	
C4orf49	-0.284221124	0.123845941	-2.198509537	
C15orf52	-0.284196995	0.123863981	-2.198306495	
B3GNTL1	-0.284166385	0.12386446	-2.198048922	
DAOA	-0.284157222	0.12386446	-2.197971816	
C4orf15	0.284157906	0.12386446	2.197977571	
KISS1R	-0.284182184	0.12386446	-2.198181864	
POU2AF1	-0.28411979	0.123907457	-2.197656853	
MTFR1	0.284121642	0.123907457	2.197672434	
LOC100133412	-0.284097107	0.123936742	-2.197465998	
OR2A2	-0.284087995	0.123936742	-2.197389327	
TMEM191A	-0.284077634	0.123937901	-2.197302154	

CHAD	-0.284035643	0.124016143	-2.19694885	
SAR1B	0.28402405	0.124020311	2.196851318	
SNX4	0.283957418	0.1241587	2.196290723	
FHL3	-0.283925694	0.124211995	-2.196023838	
GPA33	-0.283892912	0.124267122	-2.195748059	
EID2	-0.283883348	0.124267122	-2.195667606	
C17orf95	0.28383128	0.124297796	2.195229602	
ERCC3	0.283839751	0.124297796	2.195300861	
RNASE9	-0.283832914	0.124297796	-2.195243342	
LOC729173	-0.283846352	0.124297796	-2.195356385	
ACTR8	0.283819705	0.124301955	2.19513223	
LOC728613	-0.283733754	0.124487803	-2.194409252	
JUND	-0.283683225	0.124575163	-2.193984256	
FAM57B	-0.283678281	0.124575163	-2.19394267	
GYP A	-0.283656057	0.124589294	-2.193755753	
ITGAD	-0.283652765	0.124589294	-2.193728069	
OR6Q1	-0.283635469	0.124607055	-2.193582601	
IL1F5	-0.283616111	0.124607055	-2.19341979	
FAM50A	-0.283615909	0.124607055	-2.193418093	
CFHR3	-0.283583958	0.124656902	-2.193149379	
TRIM69	-0.283556583	0.124656902	-2.19291916	
GJD4	-0.283542828	0.124656902	-2.192803485	
MAPRE1	0.283496979	0.124656902	2.192417911	
KRT73	-0.283519305	0.124656902	-2.19260566	
C13orf35	-0.28354929	0.124656902	-2.192857825	
GPRC5B	-0.283498162	0.124656902	-2.192427861	
DNLZ	-0.283513231	0.124656902	-2.192554581	
FLJ11506	0.283515788	0.124656902	2.192576089	yes
FTMT	-0.283520454	0.124656902	-2.192615322	
PAPD4	0.283480475	0.12467186	2.192279129	
DLL4	-0.283471172	0.12467186	-2.192200891	
TXNDC3	-0.283435698	0.124734557	-2.191902596	
RGNEF	0.283390727	0.124820529	2.191524446	

SPR	-0.283370107	0.124846914	-2.191351069
CSDC2	-0.283281996	0.125038668	-2.190610229
CSMD2	-0.283253052	0.125085503	-2.190366879
IL22RA1	-0.283228762	0.125120938	-2.190162662
RILP	-0.283204355	0.125156667	-2.189957473
FAM86A	-0.283184399	0.125181488	-2.189789703
PMS2L1	0.283172752	0.125185927	2.189691789
RPRD1A	0.283129212	0.125220367	2.18932576
SNX6	0.283136751	0.125220367	2.189389138
HCN2	-0.283130331	0.125220367	-2.18933517
LOC100129455	-0.283098971	0.125270454	-2.189071543
DFNB31	-0.283066962	0.125300765	-2.188802473
CALCB	-0.283075649	0.125300765	-2.188875493
C16orf11	-0.283021796	0.125344543	-2.188422814
H2BFM	-0.283019651	0.125344543	-2.188404781
SLC17A1	-0.283036757	0.125344543	-2.188548574
MAGI3	0.282994887	0.125357107	2.18819663
IL11	-0.2829956	0.125357107	-2.188202625
C5orf50	-0.282984737	0.125357914	-2.188111317
CHRM2	-0.282961606	0.125366494	-2.187916888
SNORD42B	0.282968322	0.125366494	2.187973341
TRAJ41	-0.282936979	0.125402862	-2.187709898
PFKFB2	0.282869332	0.125544948	2.187141347
KLHDC7B	-0.282833748	0.125563417	-2.186842283
CDC42SE2	0.282840765	0.125563417	2.186901256
ABHD8	-0.282832376	0.125563417	-2.186830756
UNQ5814	-0.282794913	0.125569257	-2.186515915
GRIK2	0.282786306	0.125569257	2.186443583
KPNA3	0.282791143	0.125569257	2.186484229
MARCH11	-0.282782553	0.125569257	-2.186412044
MYH6	-0.28278096	0.125569257	-2.186398658
PRPF39	0.282732715	0.125663766	2.185993227
NXNL1	-0.282712351	0.125688306	-2.185822102

OPN4	-0.282703133	0.125688306	-2.185744635	
PIK3CD	-0.282686117	0.125706052	-2.185601653	
MPL	-0.282618624	0.125848028	-2.18503452	
C14orf102	0.282562014	0.125963314	2.18455887	
EXOSC6	-0.28252941	0.125995364	-2.184284928	
CPLP	-0.282535137	0.125995364	-2.184333044	
TERT	-0.282469248	0.126119518	-2.183779473	
CTBS	0.282441363	0.126164131	2.183545201	
TMEM210	-0.282399647	0.126242887	-2.183194748	
ORAI1	-0.282389645	0.126243398	-2.183110723	
UPF3B	0.282358231	0.126296764	2.182846821	
IL2RG	-0.282334944	0.126330079	-2.182651201	
RAMP3	-0.282300372	0.126391274	-2.182360793	
SGK3	0.282289358	0.126394295	2.182268277	
MID1IP1	0.28220386	0.126581405	2.181550121	
RXFP2	-0.282082523	0.126672105	-2.180531032	
FBXW2	0.28206323	0.126672105	2.180368998	
AMHR2	-0.28213849	0.126672105	-2.18100107	
FAM126B	0.282053257	0.126672105	2.180285246	
XKR6	-0.282080633	0.126672105	-2.180515156	yes
HOXC8	-0.282122659	0.126672105	-2.180868111	
MAD2L1	-0.282045634	0.126672105	-2.180221226	
LOC442668	-0.28212605	0.126672105	-2.180896595	
NAT8B	-0.282042824	0.126672105	-2.180197629	
KIF17	-0.282067654	0.126672105	-2.180406155	
SOX5	-0.28204003	0.126672105	-2.180174161	
FAM40A	0.282143428	0.126672105	2.181042543	
FATE1	-0.282073555	0.126672105	-2.180455713	
WFIKKN2	-0.282023687	0.126688359	-2.180036919	
OR51Q1	-0.282005067	0.126710253	-2.179880546	
C1orf105	-0.281961814	0.126793108	-2.179517328	
NOP2	0.281941114	0.126820168	2.179343501	
SYCP2	0.28192568	0.126834197	2.179213901	

KIAA1524	0.281895762	0.126884096	2.17896267	
LY6G6F	-0.281879932	0.126899116	-2.17882975	
VT11B	0.281852488	0.126913865	2.178599311	
ANKRD43	-0.281798708	0.126913865	-2.178147753	
C22orf40	-0.281844402	0.126913865	-2.17853142	
OR56B4	-0.281772265	0.126913865	-2.177925736	
RAB11FIP5	-0.281752333	0.126913865	-2.177758391	
RCC2	0.281846622	0.126913865	2.178550061	
RGS16	-0.281774039	0.126913865	-2.177940627	
ELOVL1	0.281802501	0.126913865	2.178179602	
SLC4A3	-0.281812172	0.126913865	-2.178260801	
WNT9B	-0.281751845	0.126913865	-2.177754289	
FZD4	-0.281791242	0.126913865	-2.178085071	
INHBE	-0.281747174	0.126913865	-2.177715074	
GAL3ST1	-0.281809386	0.126913865	-2.178237412	
C7orf30	0.281701624	0.126954284	2.177332652	
C8orf82	-0.281715766	0.126954284	-2.177451386	yes
TCF15	-0.281711103	0.126954284	-2.177411624	
SWAP70	0.281671359	0.126969109	2.177078566	
SLCO4A1	-0.281666423	0.126969109	-2.177037132	yes
SNORD27	0.281667118	0.126969109	2.177042968	
CENPE	0.281654941	0.126973436	2.17694074	
ZNF805	0.281620771	0.127033955	2.176653882	
TMEM139	-0.281577417	0.127097081	-2.176289945	
PLS3	0.281575827	0.127097081	2.176276592	
WDR41	0.281563715	0.127102983	2.176174919	
PTCD2	0.28154246	0.127131544	2.175996503	
ADCY6	-0.281532238	0.127132771	-2.175910691	
OR10A4	-0.281476507	0.127222702	-2.175442895	
BUB1B	0.281480036	0.127222702	2.175472512	
C5orf38	-0.281441725	0.127271855	-2.175150949	
CEP57	0.281437239	0.127271855	2.175113296	
S100A11	0.281402107	0.127334889	2.174818418	yes

IQGAP2	-0.2813765	0.127374307	-2.174603501	
SCN4A	-0.281350487	0.127414745	-2.174385177	
DLEU7	-0.281323582	0.12745741	-2.174159372	
FOXS1	-0.281266605	0.12757479	-2.173681203	
MGA	0.281199462	0.127645062	2.173117756	
FRAG1	0.281218858	0.127645062	2.173280514	
RAB3A	-0.281225649	0.127645062	-2.173337503	
ADAMTS2	-0.281205576	0.127645062	-2.173169061	
BEND6	-0.281182526	0.127645911	-2.172975634	
PCSK6	-0.281169969	0.127645911	-2.172870266	
SLC29A3	-0.281169665	0.127645911	-2.172867712	
PYGM	-0.281150572	0.127645911	-2.172707497	
RABGGTB	0.281154602	0.127645911	2.172741314	
IL21	-0.281139639	0.127648962	-2.172615758	
PP2672	-0.281102399	0.127662837	-2.172303279	
OR51F2	-0.281106764	0.127662837	-2.172339905	
ACTRT2	-0.281117584	0.127662837	-2.172430697	yes
RBMXL2	-0.28109525	0.127662837	-2.172243289	
LYL1	-0.28108007	0.127676461	-2.172115918	
ACTR6	0.281065303	0.127680234	2.17199202	
SERPING1	-0.281056279	0.127680234	-2.171916303	
EIF2A	0.281049466	0.127680234	2.171859139	
MOG	-0.281006078	0.127763989	-2.171495098	
FLJ40606	-0.280991032	0.127777302	-2.171368862	
SEC11B	0.280922221	0.12790025	2.170791559	
NPPA	-0.28093137	0.12790025	-2.170868317	
LBX1	-0.280891643	0.127900709	-2.170535031	
MYADML	-0.280900319	0.127900709	-2.170607817	
RARA	-0.280889396	0.127900709	-2.170516179	
EIF2B2	0.280883291	0.127900709	2.170464965	
ANAPC1	0.280857145	0.127917582	2.170245625	
CDK5R2	-0.280863697	0.127917582	-2.170300591	
CKAP4	-0.280844763	0.127924306	-2.170141752	

C6orf211	0.280807068	0.127994025	2.169825542	
LOC100130633	0.28078315	0.127996196	2.169624906	
TCEAL6	-0.280786107	0.127996196	-2.169649705	
VCPIP1	0.280777167	0.127996196	2.169574718	
FRMD1	-0.280708471	0.128143163	-2.168998492	
RASSF3	-0.280644614	0.1282782	-2.168462882	
HES4	-0.280631899	0.12828578	-2.168356244	
CREB3L4	-0.280601265	0.128338052	-2.168099312	
GMEB2	-0.280573714	0.128358528	-2.167868242	
SCNN1D	-0.280581229	0.128358528	-2.167931271	
GPR78	-0.280506932	0.12845278	-2.167308177	
RARB	0.280520491	0.12845278	2.167421886	
HIST1H2AB	0.280510159	0.12845278	2.167335238	
RASSF5	0.280496902	0.128453691	2.16722406	
PPP3R2	-0.280483191	0.12846379	-2.167109079	
PPP1R3A	-0.280428256	0.128576808	-2.1666484	
CCDC124	-0.280395254	0.128586844	-2.16637166	
NCOA6	0.280396864	0.128586844	2.166385164	
KRTAP10-7	-0.280410353	0.128586844	-2.166498273	
C4orf45	-0.280385109	0.12858806	-2.166286589	
PRR17	-0.28037414	0.128591336	-2.166194614	
AUTS2	0.280291719	0.128773143	2.165503522	
FGL1	-0.280243686	0.128869112	-2.165100793	
C21orf121	-0.280222535	0.12888355	-2.164923458	
SSX6	0.280218605	0.12888355	2.164890503	
KBTBD2	0.280173798	0.128971509	2.164514853	
STK32B	-0.280156451	0.128990769	-2.164369419	
TRAF3	0.280122752	0.129050974	2.164086903	
RNF126P1	-0.28010043	0.129082704	-2.163899775	
IRGC	-0.280056016	0.129146221	-2.163527451	
TLE4	0.280055775	0.129146221	2.16352543	yes
AKAP10	0.280009493	0.129188268	2.163137468	
GNRHR	-0.279995935	0.129188268	-2.163023819	

ECSIT	-0.279993962	0.129188268	-2.163007283	
SLC6A11	-0.27999077	0.129188268	-2.162980521	
FAM83A	0.280001309	0.129188268	2.163068864	
NSDHL	0.279904999	0.129330773	2.162261591	
BTNL2	-0.279916789	0.129330773	-2.162360413	
TCF7	-0.27991009	0.129330773	-2.162304261	
NPFFR1	-0.279879535	0.129370463	-2.162048165	yes
ENTPD2	-0.279866053	0.129380107	-2.161935169	
C14orf126	0.279844089	0.129396777	2.161751076	
ZBED4	0.279840138	0.129396777	2.161717967	
PRG4	-0.279741038	0.129534467	-2.16088743	
CCDC154	-0.279761885	0.129534467	-2.161062137	
LOC729085	-0.279754797	0.129534467	-2.161002733	
OR7E91P	0.279730244	0.129534467	2.160796973	
GPR55	-0.279734192	0.129534467	-2.160830054	
HAND2	-0.279727487	0.129534467	-2.16077387	
MSLNL	-0.279660051	0.129679643	-2.160208749	
C13orf39	-0.279630867	0.129680426	-2.159964196	
RPS8P7	-0.279634402	0.129680426	-2.159993817	
BMP15	-0.279640156	0.129680426	-2.160042038	
MAGEC3	-0.279591646	0.129688348	-2.15963555	
HSD17B2	-0.279570008	0.129688348	-2.15945424	
FAM108B1	0.279577178	0.129688348	2.159514319	
OTUD4	0.279589108	0.129688348	2.159614279	yes
TMEM100	-0.279614561	0.129688348	-2.15982756	
REXO1	-0.279594198	0.129688348	-2.15965693	yes
FMR1NB	-0.279505535	0.129826203	-2.158914031	
ADAMTS7	-0.279366566	0.129903195	-2.157749733	
ZNF560	-0.279364186	0.129903195	-2.157729799	
ERBB3	0.279398884	0.129903195	2.158020489	
C6orf154	-0.279358162	0.129903195	-2.157679327	
CDR2L	-0.279395359	0.129903195	-2.157990956	yes
HNF4A	-0.279434931	0.129903195	-2.158322483	

LOC401357	-0.279448611	0.129903195	-2.158437101	
YARS2	0.279415344	0.129903195	2.158158385	
OTUD7B	0.279345089	0.129903195	2.157569814	
BCAN	-0.279446747	0.129903195	-2.158421484	
CA7	-0.279340462	0.129903195	-2.157531049	
ZNF138	0.279410166	0.129903195	2.158115003	
NKX6-2	-0.27937635	0.129903195	-2.157831697	
NEXN	-0.279362597	0.129903195	-2.157716486	
TNFRSF13B	-0.279310667	0.12995399	-2.157281452	
KIAA1430	0.279281043	0.130004374	2.157033286	
GPR152	-0.279197226	0.130191196	-2.156331185	
SOCS4	0.279182424	0.130204316	2.156207205	
FAIM2	0.279155192	0.130224595	2.155979112	
PP13004	-0.279155758	0.130224595	-2.155983848	yes
DSG4	-0.279134127	0.130229357	-2.155802673	
TMOD1	-0.279135633	0.130229357	-2.155815283	
TMEM132E	-0.279104436	0.13025586	-2.155553986	
EXOSC7	0.279107802	0.13025586	2.155582177	
PIK3R4	0.279048102	0.13034951	2.155082175	
PCBP3	-0.279055259	0.13034951	-2.155142114	
TLX2	-0.279021261	0.130393016	-2.154857377	
CITED1	-0.279001015	0.130408968	-2.154687819	
ITGA10	-0.278986198	0.130408968	-2.154563731	
PEX11G	-0.278987794	0.130408968	-2.154577098	
CNRIP1	-0.278944751	0.130416915	-2.154216638	
KIFC3	-0.27895554	0.130416915	-2.154306989	
ZNF662	-0.278963911	0.130416915	-2.154377089	
FAM65A	-0.278945405	0.130416915	-2.15422211	yes
NFYA	0.278916884	0.130463044	2.153983268	
FUBP1	0.278900392	0.1304805	2.153845164	
KCNJ5	-0.278876059	0.130493608	-2.153641405	
C8orf76	0.278880292	0.130493608	2.153676852	
SDC1	0.278854729	0.130523279	2.153462787	

RAB42	-0.278787092	0.130585045	-2.152896436	
PRSS35	-0.278782579	0.130585045	-2.152858646	
ONECUT1	-0.278784046	0.130585045	-2.152870932	
HOXA3	-0.278772877	0.130585045	-2.152777417	
ASIP	-0.278790199	0.130585045	-2.152922454	
RNF113A	-0.278780608	0.130585045	-2.152842149	
ZNF750	0.278753939	0.130608714	2.152618845	
STAM2	0.278731393	0.13064149	2.152430076	yes
HERC4	0.278714416	0.130646042	2.152287927	
UBQLN1	0.278700933	0.130646042	2.152175042	
HERC5	-0.278705556	0.130646042	-2.152213748	
OSBPL8	0.278618146	0.130803201	2.151481934	
C1orf49	-0.278610027	0.130803201	-2.151413965	
EIF3I	0.278618137	0.130803201	2.151481864	
PGM2L1	0.278591514	0.130825844	2.151258979	yes
FLJ11151	0.27859777	0.130881899	2.150993295	
RORA	0.278542698	0.130900936	2.150850318	
C1GALT1C1	0.27851361	0.13090773	2.15060682	
TMED5	0.278511382	0.13090773	2.150588169	
EIF4EBP3	-0.278520238	0.13090773	-2.150662298	
UNCX	-0.27843802	0.131025212	-2.149974069	
SSTR2	-0.278436283	0.131025212	-2.149959527	
STAT3	0.278454783	0.131025212	2.150114383	
LUZP4	-0.278397468	0.131099248	-2.149634638	
OSBPL11	0.278359997	0.131121677	2.149321001	
ADSL	0.278376957	0.131121677	2.149462957	
HIC1	-0.278361274	0.131121677	-2.149331691	
GRM4	-0.278329242	0.131175368	-2.149063586	
PPP1R10	0.278283001	0.131268277	2.148676572	
KCNT1	-0.278264991	0.131289742	-2.148525847	
FLJ45079	-0.278228543	0.131355083	-2.148220809	
ANKRD39	-0.27822013	0.131355083	-2.148150403	
Magmas	-0.27816109	0.131480533	-2.147656318	

LSM2	0.278122329	0.131554647	2.147331952	
PDE6C	-0.278098079	0.131591985	-2.147129027	
SLC30A7	0.278039083	0.131649453	2.146635371	
FLJ40235	-0.278037326	0.131649453	-2.14662067	
PIGC	0.278050359	0.131649453	2.146729723	
G2E3	0.278053364	0.131649453	2.146754865	
LPCAT4	0.277994394	0.131734236	2.146261441	
MRPL48	0.277946099	0.131832679	2.145857362	
MAGEA13P	-0.277857157	0.131910376	-2.145113232	
ZNF497	-0.277854614	0.131910376	-2.145091954	
KIAA1949	-0.277856713	0.131910376	-2.14510952	
EMR1	-0.277854538	0.131910376	-2.145091322	
KLK1	-0.277829874	0.131910376	-2.14488498	
C2orf80	-0.277893382	0.131910376	-2.145416303	
RP11-265F14.2	-0.27790474	0.131910376	-2.145511329	
MAP4K2	-0.27784393	0.131910376	-2.145002576	
PPP1R15B	0.277830046	0.131910376	2.144886426	
DSCR10	-0.277816167	0.131921041	-2.144770311	
CACNA1S	-0.277762259	0.132033868	-2.144319343	
MAP4K5	0.277737495	0.132048489	2.144112181	
MATN4	-0.277745187	0.132048489	-2.144176526	
PLK5P	-0.277678165	0.132137051	-2.143615891	yes
GSDMA	-0.277692793	0.132137051	-2.143738248	
PPL	0.277674155	0.132137051	2.143582343	
TMEM74	-0.277661188	0.132145865	-2.143473881	
KRR1	0.277626987	0.132160377	2.143187805	
OR10R2	-0.277638186	0.132160377	-2.143281483	
PRKG1	-0.277636001	0.132160377	-2.143263203	
YIF1B	-0.277586688	0.132238737	-2.142850735	
RTN4	0.277577135	0.132238883	2.142770839	
PDE8A	0.277521161	0.13235719	2.142302678	
MAFA	-0.277481293	0.132386194	-2.141969248	
C21orf122	-0.277499307	0.132386194	-2.14211991	

FGF18	-0.277484441	0.132386194	-2.141995574	
ZNF600	0.27747176	0.132386304	2.141889523	
HES5	-0.277461138	0.13238919	-2.141800691	
MYOD1	-0.277431398	0.132440769	-2.141551971	
ZFYVE9	0.277416705	0.132454031	2.141429098	
SMAD9	-0.277396261	0.132481947	-2.141258134	
C3orf48	-0.277367202	0.13250766	-2.141015126	
HTN1	-0.277375305	0.13250766	-2.141082888	
SPIN2B	-0.277327453	0.132584793	-2.140682735	
CPSF6	0.277243179	0.13264318	2.139978056	
FGF13	0.27727709	0.13264318	2.140261602	
P2RY4	-0.277277308	0.13264318	-2.140263422	
POMC	-0.277238211	0.13264318	-2.139936514	
FAM59A	0.277248432	0.13264318	2.140021973	
UQCRC1	0.277262851	0.13264318	2.140142538	
HAND1	-0.277264534	0.13264318	-2.140156611	
HS6ST3	-0.277223109	0.132657534	-2.139810241	
IL28RA	-0.277175218	0.132668382	-2.139409816	
ALDH1A3	0.277133673	0.132668382	2.139062467	
CADM1	-0.277134348	0.132668382	-2.139068107	
IFFO1	-0.277168253	0.132668382	-2.139351584	
FLJ45422	-0.27716786	0.132668382	-2.139348299	
NPAS1	-0.277152707	0.132668382	-2.139221608	
PDHA1	0.27714273	0.132668382	2.139138192	
EPC1	0.27715118	0.132668382	2.139208837	
ELOVL3	-0.27717315	0.132668382	-2.139392525	
LOC100131017	-0.27709611	0.132721783	-2.138748421	
OR2W5	-0.277093811	0.132721783	-2.138729204	
UBE2L3	0.277074534	0.132746826	2.138568043	
H19	0.277053357	0.132776722	2.138390996	
RNF6	0.277018826	0.132840689	2.138102322	yes
PCSK9	-0.277006271	0.132844271	-2.137997368	
IL12RB1	-0.27699091	0.132844271	-2.137868951	

OCM	-0.276989069	0.132844271	-2.137853561	
EEF1B2	-0.276951663	0.132891497	-2.137540873	
SGEF	0.276957698	0.132891497	2.137591317	
TWSG1	0.276914569	0.13296206	2.137230799	
ZNF57	0.276882972	0.132988059	2.136966684	
CDH22	-0.276876052	0.132988059	-2.136908839	
AQP10	-0.276876195	0.132988059	-2.136910033	
A1BG	-0.276864638	0.132993094	-2.136813436	yes
RIMS4	-0.276814989	0.133078716	-2.136398442	
CTNNB1	0.27678242	0.133078716	2.136126228	
DHX29	0.27676505	0.133078716	2.135981049	
DUSP22	0.276800663	0.133078716	2.136278701	
PROK2	-0.276774688	0.133078716	-2.136061603	
GDF5	-0.27677414	0.133078716	-2.136057026	
DLK1	-0.276788994	0.133078716	-2.136181176	
ANKS3	-0.276711758	0.133142571	-2.135535653	
CCL1	-0.276717552	0.133142571	-2.135584077	
ITGBL1	-0.276712319	0.133142571	-2.135540344	
FOXM1	0.276695947	0.133158878	2.135403512	
CCL17	-0.276662929	0.133219155	-2.135127573	
OR4K14	-0.27662245	0.13327417	-2.134789293	
JAG1	0.276604968	0.13327417	2.134643204	
HOXB4	-0.276603707	0.13327417	-2.134632663	
RXRБ	-0.276614095	0.13327417	-2.134719471	
C2orf37	0.27658118	0.133307671	2.13444442	
DGAT2	-0.276553664	0.133332301	-2.134214483	
RAB33A	-0.276552708	0.133332301	-2.134206491	
AGPAT1	-0.276492232	0.133462896	-2.133701151	
C9orf163	-0.276445543	0.133510083	-2.133311032	
FLJ23865	-0.276460658	0.133510083	-2.133437333	
RPL23AP38	0.276449601	0.133510083	2.133344939	
NOX1	-0.276373276	0.133646901	-2.132707232	
SCN3B	-0.276374926	0.133646901	-2.132721018	

NCRNA00086	-0.276359615	0.133657781	-2.132593097	
ZZZ3	0.276344493	0.133672408	2.132466757	
ACER1	-0.276323515	0.133677939	-2.132291488	
INTS8	0.276324877	0.133677939	2.132302873	
FAM119A	0.276312126	0.133683014	2.132196339	
GPR124	-0.276256679	0.133800984	-2.131733124	yes
TENC1	-0.276236236	0.133829277	-2.131562339	
CORO1A	-0.276175597	0.133840115	-2.131055782	
SLC31A1	0.276187517	0.133840115	2.131155358	
XRN2	0.276200061	0.133840115	2.131260147	
MALAT1	0.276210211	0.133840115	2.131344931	
SLC12A3	-0.276213627	0.133840115	-2.131373473	
CDC42BPB	0.276178298	0.133840115	2.131078341	
AEBP1	-0.27613409	0.133922443	-2.13070906	
FAM53C	-0.27611889	0.133926774	-2.130582097	
SGCA	-0.276113609	0.133926774	-2.130537982	
TTLL11	-0.276070254	0.134010991	-2.130175845	
KCTD14	-0.276050444	0.134010991	-2.130010385	
TAC3	-0.276039402	0.134010991	-2.129918157	
APOL5	-0.276033817	0.134010991	-2.129871508	
CARD6	0.276048976	0.134010991	2.12999812	
ANKRD60	-0.276008609	0.134039715	-2.129660965	
PAFAH1B1	0.275994461	0.134039715	2.129542793	
STC1	-0.275999541	0.134039715	-2.12958522	
EMID1	-0.275960281	0.134103341	-2.129257327	
PAGE2B	-0.275910725	0.134183196	-2.128843449	
SNORD5	0.275910408	0.134183196	2.128840801	
KIF21A	0.275894474	0.134200021	2.128707728	
CORO2B	-0.275855497	0.134253351	-2.128382227	
SPTBN4	-0.27584557	0.134253351	-2.128299324	
TIGD5	-0.275851828	0.134253351	-2.128351585	
GPRIN1	-0.275805489	0.134269347	-2.12796462	
NLRP4	-0.275811518	0.134269347	-2.128014967	

ASPG	-0.27580976	0.134269347	-2.128000283	
RPS23	0.275801842	0.134269347	2.127934163	
CLDN23	-0.275772379	0.134320957	-2.12768813	
ASPRV1	-0.275729932	0.134357796	-2.127333686	
ZFP1	0.2757358	0.134357796	2.127382684	
C1QL4	-0.275746497	0.134357796	-2.127472008	
CLCN5	0.275688099	0.134441234	2.126984382	
ASAH1	0.275655229	0.134501665	2.126709924	
MYH11	-0.275626707	0.134502765	-2.126471786	
CRTAM	-0.275627687	0.134502765	-2.126479969	
USP8	0.275635354	0.134502765	2.126543984	
EPB49	-0.275612317	0.134505268	-2.126351643	
ZBTB1	0.275607011	0.134505268	2.126307341	
LOC100133142	-0.275523889	0.134600605	-2.125613361	yes
SLC26A8	-0.2755249	0.134600605	-2.125621801	
OR111	-0.275523896	0.134600605	-2.125613424	
KCND1	-0.275518529	0.134600605	-2.125568612	
TFDP3	-0.27555002	0.134600605	-2.125831518	
EIF3J	0.275513803	0.134600605	2.12552916	
SELV	-0.275483729	0.134653915	-2.12527809	
KIAA1012	0.275450528	0.134706043	2.125000922	yes
SPRYD4	0.27544477	0.134706043	2.124952856	
NUP160	0.275399023	0.134799746	2.124570964	
LOC100133197	-0.275372366	0.134844319	-2.12434845	
LOC400446	0.275357863	0.134854491	2.124227387	
TTY5	-0.275349722	0.134854491	-2.124159432	
SNIP	-0.275319061	0.134909403	-2.123903494	
CDC2L6	0.275309389	0.134910247	2.123822762	
NRBP2	-0.275290345	0.134935242	-2.123663802	
COL9A1	-0.275234955	0.134957638	-2.123201487	
UBXN2B	0.275240367	0.134957638	2.123246658	
HCN1	-0.275239113	0.134957638	-2.123236188	
COPS7A	0.275246045	0.134957638	2.123294046	

EXOG	0.275249543	0.134957638	2.123323245	
LOC441476	-0.275224721	0.134959954	-2.123116067	
SYTL4	0.275214336	0.134962662	2.12302939	
DOHH	-0.275198201	0.134980187	-2.122894729	
CCR6	-0.275086341	0.134988346	-2.121961173	
AFMID	-0.275096687	0.134988346	-2.122047515	
CMPK2	-0.275132546	0.134988346	-2.12234678	
CTSE	-0.275083482	0.134988346	-2.121937313	
GPR3	-0.275095338	0.134988346	-2.122036256	
C17orf28	-0.275110734	0.134988346	-2.122164742	
MGC39545	-0.275115809	0.134988346	-2.122207101	
ATP4A	-0.275089031	0.134988346	-2.121983621	
GDAP2	0.275184371	0.134988346	2.122779302	
SNORA4	0.275111251	0.134988346	2.122169057	
SEM2	-0.275083144	0.134988346	-2.121934497	
APLN	-0.275096928	0.134988346	-2.122049525	
FRAT2	-0.275036988	0.135032955	-2.121549319	
ALK	-0.27503563	0.135032955	-2.121537985	
C16orf5	-0.275028574	0.135032955	-2.121479107	
IL31	-0.275031211	0.135032955	-2.12150111	
GPBAR1	-0.27500829	0.13506123	-2.121309834	
RAMP2	-0.274978717	0.135088306	-2.121063062	
AIFM3	-0.274951248	0.135088306	-2.120833849	
CTXN3	-0.274975048	0.135088306	-2.121032446	
EBPL	0.274967969	0.135088306	2.120973376	
PCDH21	0.274957646	0.135088306	2.120887236	
MPV17	0.274932961	0.135111458	2.120681257	
TUB	-0.27490817	0.135151377	-2.120474404	
IQCB1	0.274898733	0.135151728	2.120395659	
OR7D4	-0.274805614	0.135235459	-2.11961871	
COL4A2	-0.274822649	0.135235459	-2.119760837	yes
CBLC	0.274808424	0.135235459	2.119642154	
GGT1	-0.274784095	0.135235459	-2.119439181	

ETV3L	-0.274824819	0.135235459	-2.119778949
CACHD1	0.274812081	0.135235459	2.11967267
PYCR1	-0.274782601	0.135235459	-2.119426713
PAPD5	0.274789913	0.135235459	2.119487721
ZNF697	-0.274823799	0.135235459	-2.119770438
DOC2A	-0.274730846	0.135344977	-2.118994929
FUT9	-0.274666007	0.135400942	-2.118454012
CIDEA	-0.274699335	0.135400942	-2.118732047
LOC283174	-0.274656358	0.135400942	-2.118373517
XKR7	-0.274653443	0.135400942	-2.118349207
MC2R	-0.274676684	0.135400942	-2.118543087
SCUBE1	-0.274678502	0.135400942	-2.118558251
CAPN5	0.274621337	0.135459844	2.11808138
HCG27	-0.274587381	0.135523546	-2.117798121
C5orf37	0.274567136	0.135551784	2.117629246
RUFY3	0.274555829	0.135551784	2.117534933
UBL5	-0.274548609	0.135551784	-2.117474713
TIMP3	-0.274537984	0.135555268	-2.117386086
PCDHA11	-0.274515053	0.135590535	-2.117194814
CFTR	0.274482023	0.1356519	2.116919308
ZSCAN2	-0.27445902	0.135663417	-2.116727449
FLJ22184	-0.274464312	0.135663417	-2.116771589
ZNF608	0.274402609	0.135763882	2.116256957
LOC643287	0.274401604	0.135763882	2.116248572
RNF133	-0.274377101	0.135803263	-2.116044219
LYPD4	-0.274346922	0.135823061	-2.11579253
OR51A2	-0.274351415	0.135823061	-2.11583
SNORD68	-0.274341644	0.135823061	-2.115748509
DDX41	0.274313295	0.135864641	2.115512087
PHIP	0.274307037	0.135864641	2.115459895
DCP2	0.274285536	0.135880369	2.11528059
GALNTL5	-0.274276414	0.135880369	-2.11520452
CHORDC1	0.274241362	0.135880369	2.114912213

FLJ43950	-0.274247998	0.135880369	-2.114967551	
HOOK3	0.274258638	0.135880369	2.115056282	
PSTPIP1	-0.274247016	0.135880369	-2.114959363	
ATG5	0.274236148	0.135880369	2.114868742	
USP5	0.274217603	0.135883608	2.114714094	
RAB7L1	-0.274216392	0.135883608	-2.114703995	
DLEU2L	0.274198515	0.135905916	2.114554919	
CITED4	-0.274165981	0.135966137	-2.114283636	
MYBPH	-0.274148301	0.13598795	-2.114136208	
SRC	0.274100896	0.136086691	2.113740942	
PTRF	-0.274078513	0.136120697	-2.113554311	yes
SLC2A5	-0.274068789	0.136121934	-2.113473236	
CCNB1IP1	0.274015395	0.136236268	2.113028063	
TSPAN3	0.273867434	0.136287231	2.111794537	
SLC35D2	0.273955773	0.136287231	2.112530986	
LSM11	-0.273862817	0.136287231	-2.111756052	yes
DUSP4	-0.273870536	0.136287231	-2.111820399	
FLRT1	-0.273888373	0.136287231	-2.11196909	
STK32C	-0.273984079	0.136287231	-2.112766976	
ZNF790	0.273964241	0.136287231	2.112601578	
OR51T1	-0.273930211	0.136287231	-2.112317876	
ATAD2B	0.273891792	0.136287231	2.111997598	
RAD17	0.273946451	0.136287231	2.112453269	
RPS6KB1	0.273866543	0.136287231	2.111787113	
PLA2G6	-0.273857186	0.136287231	-2.111709108	
PIK3R3	0.273930276	0.136287231	2.112318422	
CDC14B	0.273889988	0.136287231	2.111982556	
CHD1L	0.273977059	0.136287231	2.112708446	
ZCCHC24	-0.273829104	0.136288293	-2.111475016	
MSI1	-0.273838889	0.136288293	-2.111556583	
IFI27L2	-0.273832584	0.136288293	-2.111504022	
SLC22A10	-0.273811012	0.136311268	-2.111324207	
PPP1R2P9	-0.273794796	0.13632939	-2.111189031	

LINGO4	-0.273603984	0.136716623	-2.109598608	
STRBP	0.273634921	0.136716623	2.109856448	yes
AZU1	-0.273615734	0.136716623	-2.10969654	
SMTN	-0.273599384	0.136716623	-2.109560273	yes
VEGFA	0.27360192	0.136716623	2.109581406	
ADAM33	-0.273587812	0.136722739	-2.109463824	yes
HAPLN4	-0.273575767	0.136730082	-2.109363446	
CLTA	0.273542412	0.13674492	2.109085463	
PPP1R2P3	-0.273544552	0.13674492	-2.109103302	
PRAM1	-0.273553825	0.13674492	-2.109180579	
GLRB	-0.273489728	0.136838969	-2.108646413	
CDCA4	0.273487775	0.136838969	2.108630137	
HMGB1L10	0.273444084	0.136904627	2.108266051	
ATXN7	0.273447542	0.136904627	2.108294861	
ATG10	0.273427861	0.136922857	2.108130864	
TMPRSS11B	0.273388977	0.13695179	2.107806844	
EPHA2	0.273361509	0.13695179	2.107577966	
LOC51145	-0.273378076	0.13695179	-2.107716007	
PON3	0.273362466	0.13695179	2.107585937	
SLPI	-0.273394796	0.13695179	-2.107855334	
S1PR2	-0.273377503	0.13695179	-2.107711235	
LOC651503	-0.273340603	0.136982215	-2.107403767	
MFSD8	0.273309071	0.137026575	2.107141038	
ITPR3	0.273305143	0.137026575	2.107108302	
NCRNA00167	-0.27326717	0.137101396	-2.106791916	
SNORD81	0.273227388	0.137143381	2.106460465	
KIF5C	-0.273235284	0.137143381	-2.106526255	
GPR173	-0.273223445	0.137143381	-2.106427618	
IFT80	0.273184797	0.137220014	2.106105627	
ATN1	-0.273171152	0.13722523	-2.105991944	
NGFRAP1	-0.273155368	0.13722523	-2.105860445	
C14orf118	0.273149497	0.13722523	2.105811535	
TOX4	0.273146036	0.13722523	2.105782704	

IGF2AS	-0.273111415	0.137291422	-2.10549428
PPIF	0.273069958	0.137327615	2.105148925
LEAP2	-0.273083674	0.137327615	-2.105263184
RPL7P26	0.273074038	0.137327615	2.105182911
C6orf223	-0.273027292	0.137414802	-2.104793506
F7	-0.272979102	0.13742078	-2.104392089
KRTAP10-12	-0.272989197	0.13742078	-2.104476177
BACH1	0.272986427	0.13742078	2.104453105
ZNF26	0.272994397	0.13742078	2.104519493
SLITRK6	0.272979138	0.13742078	2.104392395
MAEA	0.272928299	0.137529219	2.103968925
CCKBR	-0.272875714	0.137642371	-2.103530941
GALR1	-0.272855476	0.137652566	-2.103362383
KRTAP6-3	-0.27285338	0.137652566	-2.103344926
PPP1CA	0.272844283	0.137652566	2.10326916
MXI1	-0.272825972	0.1376764	-2.103116649
TMCC1	0.272794342	0.137734976	2.102853225
BSPH1	-0.272765083	0.137787387	-2.102609549
DUS4L	0.272746292	0.137789753	2.102453058
DNAJC21	0.272736674	0.137789753	2.102372955
RGS7	-0.272736972	0.137789753	-2.102375437
TREML3	-0.272709643	0.137816232	-2.102147852
C16orf58	-0.272708197	0.137816232	-2.102135805
TSP50	-0.272697795	0.137819467	-2.102049178
STRA13	-0.272649597	0.137913441	-2.101647813
SPATC1	-0.272628517	0.137913441	-2.101472278
OR4A16	-0.272629822	0.137913441	-2.101483142
SBF2	0.272625148	0.137913441	2.101444226
AMBN	-0.272562462	0.138053229	-2.10092225
SEBOX	-0.272532813	0.138106773	-2.100675372
REM1	-0.272514603	0.138130434	-2.100523748
KIAA1680	0.272491937	0.138141817	2.100335029
PQLC2	-0.272492854	0.138141817	-2.100342665

FAM168A	-0.272482207	0.138143325	-2.100254015	
KLB	-0.272426323	0.138160489	-2.099788737	
SLC35E4	-0.272450216	0.138160489	-2.099987663	
BARHL2	-0.272419656	0.138160489	-2.099733226	
PPME1	0.272456136	0.138160489	2.100036951	
RCVRN	-0.272410224	0.138160489	-2.099654702	
BHLHE40	0.272446476	0.138160489	2.099956526	
TNFSF10	0.272423888	0.138160489	2.099768465	
PDLIM7	-0.272402459	0.138160489	-2.099590058	yes
RCL1	0.272372636	0.138190649	2.09934177	
SOHLH1	-0.272379506	0.138190649	-2.099398965	
NMU	0.2723218	0.138235215	2.09891856	
ASAP3	-0.272325606	0.138235215	-2.098950239	
TMEM203	0.272319034	0.138235215	2.098895531	
MRPL19	0.27232187	0.138235215	2.098919139	
GABRD	-0.272268495	0.138343474	-2.098474808	
CEACAM8	0.2722104	0.138375994	2.097991212	
C2orf57	-0.272245059	0.138375994	-2.098279718	
COQ3	0.272218793	0.138375994	2.098061079	
ALX4	-0.272233796	0.138375994	-2.098185967	
ZNF764	-0.272228242	0.138375994	-2.098139733	
LOC100129532	-0.272121277	0.138379695	-2.097249377	
CSPG5	-0.272125488	0.138379695	-2.097284431	
LILRA2	-0.272168128	0.138379695	-2.097639348	
CCDC140	-0.272144696	0.138379695	-2.097444308	
ZDHHC22	-0.27214502	0.138379695	-2.097447002	
HSF1	-0.272114399	0.138379695	-2.097192128	
RARS2	0.272119385	0.138379695	2.09723363	
PDP2	0.272108641	0.138379695	2.097144206	
HHIPL1	-0.272182547	0.138379695	-2.097759368	
ZNF628	-0.27213331	0.138379695	-2.097349538	
CAMK2N2	-0.27216653	0.138379695	-2.097626047	
ACADM	0.272060947	0.138435151	2.096747243	

CDC42SE1	0.272061601	0.138435151	2.096752684	
SNX21	-0.272060095	0.138435151	-2.096740151	
SEC14L3	-0.272012099	0.138536879	-2.096340691	
NPPC	-0.271993845	0.138560805	-2.096188776	
CMTM7	0.271958963	0.138628268	2.095898476	
KBTBD5	-0.271938972	0.138656761	-2.095732103	
GRB2	0.271872102	0.138760341	2.095175627	
GNL3L	0.271884355	0.138760341	2.095277593	
NSD1	0.271877807	0.138760341	2.095223105	
C16orf81	-0.271846922	0.138802459	-2.094966091	
SMARCD1	0.271794845	0.138899991	2.09453275	
KIAA0408	-0.271791503	0.138899991	-2.094504939	
TMEM199	0.271770977	0.138906073	2.094334146	
OAS1	0.271779421	0.138906073	2.094404405	
FLJ45983	-0.271714379	0.139006765	-2.09386322	
SLC6A1	-0.271717891	0.139006765	-2.093892437	
ATRN	0.271698194	0.139025352	2.093728554	
D4S234E	0.271684419	0.139037621	2.093613943	
BBC3	-0.271645503	0.139108367	-2.093290158	
OR2C1	-0.271639263	0.139108367	-2.093238245	
PARD6B	0.271610775	0.139159268	2.093001231	yes
MYL12A	0.271554332	0.139254603	2.092531653	
FGF20	-0.271532412	0.139254603	-2.092349303	
JMJD8	-0.271532773	0.139254603	-2.092352302	
IL17D	-0.271519913	0.139254603	-2.092245317	
PPP2R5A	0.2715595	0.139254603	2.09257465	
RIOK2	0.271521701	0.139254603	2.092260192	
H2AFZ	0.271483015	0.139277596	2.091938368	
MYBPC2	-0.271485887	0.139277596	-2.091962266	
RPL36P8	-0.271478402	0.139277596	-2.0919	
C6orf208	-0.271474811	0.139277596	-2.091870124	
HPSE	0.27143354	0.139340747	2.091526812	
DUXA	-0.271432602	0.139340747	-2.091519009	

CXorf64	-0.271415649	0.139361426	-2.091377987
ZNF566	0.271402932	0.13937098	2.091272206
XRCC4	0.271362482	0.139453418	2.090935745
PHLDB2	0.271352059	0.139456951	2.090849048
EIF2C4	0.271341774	0.139460124	2.0907635
LEP	-0.271301738	0.139517652	-2.0904305
ECEL1	-0.271307323	0.139517652	-2.090476954
KCNH2	-0.271235964	0.13964291	-2.089883449
EGLN1	-0.271244418	0.13964291	-2.089953764
DEFB113	-0.271189719	0.139740733	-2.089498844
C7orf11	0.271177711	0.139748458	2.08939898
MMP11	-0.271168609	0.139748536	-2.089323284
MBOAT1	0.271147492	0.139780248	2.089147668
POFUT1	0.271130927	0.139799983	2.089009906
DKFZp686E2433	0.271112075	0.139825742	2.088853133
R3HDML	-0.271087825	0.139851325	-2.088651467
RAB11FIP1	0.271084226	0.139851325	2.088621539
SLC36A1	0.27106125	0.139864084	2.088430484
LOC389813	-0.271061824	0.139864084	-2.088435258
SLC13A4	-0.271038868	0.139899163	-2.088244366
FAM129C	-0.27100769	0.139957426	-2.08798511
P4HA3	-0.270981148	0.14000349	-2.087764409
HFE2	-0.270961022	0.140005894	-2.087597062
GAS6	-0.27090101	0.140005894	-2.08709808
SNORD42A	0.270889681	0.140005894	2.087003886
TCL6	-0.270889775	0.140005894	-2.087004666
BEX5	-0.27092209	0.140005894	-2.087273346
INSC	-0.270912712	0.140005894	-2.087195371
NCL	0.270898672	0.140005894	2.087078642
UBE2W	0.270925125	0.140005894	2.087298588
CAMK2A	-0.270937118	0.140005894	-2.087398302
TMEM49	0.270923358	0.140005894	2.087283891
LIPI	-0.270872971	0.140026082	-2.086864954

LOC100129858	-0.270846279	0.140072583	-2.086643027	
DCBLD1	0.270826153	0.140090228	2.086475702	
FOXH1	-0.270821491	0.140090228	-2.086436948	
EPN2	0.270788192	0.140106491	2.086160102	
LOC389493	-0.270794118	0.140106491	-2.086209371	
TMEM138	0.270793782	0.140106491	2.086206578	
KRTAP23-1	-0.270765264	0.140143098	-2.08596949	
PAPOLA	0.270710209	0.140264448	2.085511803	yes
GPR31	-0.270689694	0.140294722	-2.085341262	
CEP192	0.27067708	0.140304153	2.085236407	
LHFPL4	-0.27065649	0.140334637	-2.085065241	
CNR1	-0.270628463	0.140384755	-2.084832271	
ATPGD1	-0.270571001	0.140488759	-2.084354629	
RPL22	0.270573919	0.140488759	2.084378883	
EIF4EBP2	0.270526824	0.140490898	2.083987437	
KCNA1	-0.270530743	0.140490898	-2.084020005	
CWF19L1	0.270525029	0.140490898	2.083972511	
KCNK12	-0.270550939	0.140490898	-2.084187875	
UBE2V1	0.2705352	0.140490898	2.084057057	
CMKLR1	-0.270499091	0.140535554	-2.083756928	
LOC100131170	-0.270463327	0.140606185	-2.083459681	
MSL2	0.270428933	0.140673224	2.083173828	
NEUROD1	-0.270410439	0.140674392	-2.083020119	
MADCAM1	-0.270413252	0.140674392	-2.083043498	
CMTM3	-0.270331632	0.140858933	-2.08236519	
FASTKD3	0.270272121	0.140992564	2.081870648	
ME3	0.27018584	0.141009038	2.081153687	
A2ML1	0.270189379	0.141009038	2.081183092	
PPA2	0.270253773	0.141009038	2.081718177	
FLJ42291	-0.27020959	0.141009038	-2.081351038	
LDLR	0.270157972	0.141009038	2.080922133	
SMAD2	0.270188813	0.141009038	2.081178392	
TM7SF3	0.270220275	0.141009038	2.08143982	

MBTD1	0.270227797	0.141009038	2.081502325
POLR3B	0.270175477	0.141009038	2.081067583
LOC100133424	0.270157673	0.141009038	2.080919647
TOP2B	0.270201997	0.141009038	2.081287947
ASAM	-0.270180259	0.141009038	-2.081107314
C7orf64	0.270140998	0.141029327	2.080781097
ARID4A	0.270102721	0.141106827	2.080463061
C6orf173	0.270081051	0.141140363	2.080283012
FOXP1	-0.270062294	0.141166188	-2.080127173
ZUFSP	0.270052297	0.141166954	2.080044114
SYNE2	0.270025983	0.141166954	2.079825486
NPHP4	-0.270032891	0.141166954	-2.079882881
FLJ34503	-0.270026059	0.141166954	-2.079826122
SH3BP4	-0.269989635	0.141168783	-2.079523508
POU5F1P1	-0.269984351	0.141168783	-2.079479615
SNORA48	-0.270000947	0.141168783	-2.079617491
SUV39H2	0.269980292	0.141168783	2.079445893
TANC1	0.269990173	0.141168783	2.079527978
PPIL5	0.269952966	0.141208721	2.079218878
HPCAL4	-0.269947223	0.141208721	-2.079171167
DBF4	0.269918568	0.141236982	2.078933121
MADD	0.269923835	0.141236982	2.078976871
HNRNPD	0.269903941	0.141251912	2.078811608
MEOX2	-0.269826667	0.141432923	-2.078169697
OR4C12	-0.269806759	0.141461877	-2.078004331
SLC22A8	-0.269776663	0.141517869	-2.077754343
SPRR2F	-0.26974155	0.141587196	-2.077462689
RTKN2	0.269697459	0.1416088	2.077096474
SPANXN1	-0.269707484	0.1416088	-2.077179737
CABP2	-0.26971301	0.1416088	-2.077225637
VNN2	-0.269703403	0.1416088	-2.077145846
ATF5	-0.269640669	0.141693914	-2.076624807
C17orf87	-0.269655315	0.141693914	-2.076746445

LRRC4	0.269638448	0.141693914	2.076606358
NSL1	0.269618236	0.141712246	2.076438489
PLA2G10	0.269612015	0.141712246	2.076386827
PEX3	0.269604601	0.141712246	2.076325256
TMEM207	-0.269583687	0.141743944	-2.076151562
POR	0.269564521	0.141771005	2.075992391
KIF20A	0.269497997	0.141804686	2.075439947
NPAS4	-0.269530083	0.141804686	-2.075706395
JUP	0.269517074	0.141804686	2.075598367
TBC1D10C	-0.269521952	0.141804686	-2.075638873
OR1E1	-0.26950328	0.141804686	-2.075483818
NRXN2	-0.269514476	0.141804686	-2.075576791
DPYS	-0.269487675	0.141808278	-2.07535423
RAB27B	0.269474979	0.14181818	2.075248796
RASGRP1	0.269454886	0.141847736	2.075081943
PAN3	0.269445465	0.141848942	2.075003716
NUP50	0.269399451	0.141947395	2.074621625
MGLL	-0.269367652	0.141960436	-2.074357589
ERP44	0.269378322	0.141960436	2.074446184
TBX4	-0.269375952	0.141960436	-2.074426504
AIF1	-0.269351186	0.141980386	-2.074220862
TOR1A	0.269307489	0.142071495	2.07385805
UBE3A	0.269299	0.142071495	2.073787559
TBX10	-0.269251273	0.142149528	-2.073391301
FAM26F	-0.269233833	0.142149528	-2.073246508
PCDHB17	-0.269242167	0.142149528	-2.073315697
TRIM46	-0.269240875	0.142149528	-2.073304974
AMOTL1	-0.269220165	0.142162065	-2.073133036
RREB1	0.269183126	0.142236802	2.07282553
MYO18B	-0.26916822	0.142252645	-2.072701784
ITIH3	-0.269159161	0.142252928	-2.072626577
MARCH4	-0.269147398	0.142260413	-2.072528918
ITIH2	-0.269137274	0.142263535	-2.072444879

SH3TC2	-0.269104413	0.142327194	-2.072172076	
KLHL10	-0.269087942	0.142347224	-2.072035346	
FRS3	-0.269049904	0.142424704	-2.071719584	
AFF1	0.269029005	0.142432711	2.071546103	
HDAC8	0.269037394	0.142432711	2.071615745	
HBII-52-24	-0.268977793	0.142539056	-2.071121011	
SUSD2	-0.268971206	0.142539056	-2.071066336	
SORBS2	-0.268955634	0.142556723	-2.070937085	
TMEM110	-0.268897675	0.142687429	-2.070456014	
ANKRD30B	-0.268875713	0.142708024	-2.070273732	
PPARG	0.26887207	0.142708024	2.070243496	
CEBPE	-0.268857963	0.142721807	-2.070126412	
SLC6A20	-0.268843462	0.142735977	-2.070006065	
VIM	-0.268834774	0.142735977	-2.069933952	
LOC150763	-0.268758424	0.142915914	-2.069300312	
PIP4K2C	0.26872783	0.142973755	2.069046421	
C5orf22	0.268688378	0.143032264	2.06871902	
LOC647597	-0.268688057	0.143032264	-2.068716361	
LOC100130019	0.268645117	0.143123151	2.068360029	
GABPB1	0.268622277	0.143135889	2.068170508	
SNX24	0.268613549	0.143135889	2.068098083	yes
EPX	-0.268622203	0.143135889	-2.068169888	
TMEM95	-0.268598714	0.143151672	-2.067974981	
SNORD115-8	-0.268493043	0.143368808	-2.067098193	
SLC43A2	-0.268494686	0.143368808	-2.06711182	
MIPOL1	0.268490753	0.143368808	2.067079185	
DEF8	-0.268406614	0.143555004	-2.066381117	
TPM1	-0.268403365	0.143555004	-2.066354156	
FCRL3	-0.268373267	0.143586255	-2.06610446	
EGFL6	0.268372899	0.143586255	2.066101404	
BCL2L12	-0.268355992	0.143586255	-2.065961139	
COX4I2	-0.268361042	0.143586255	-2.06600304	
WDR64	-0.26833275	0.14362462	-2.065768329	

LMAN1	0.268297235	0.143695898	2.065473703	
ZSCAN10	-0.268281275	0.143714762	-2.065341312	
GPR114	-0.268261073	0.143745008	-2.065173728	
SMAP2	-0.268208894	0.143861045	-2.064740889	
ATP5G2	-0.268191017	0.143861137	-2.064592607	
NETO1	-0.268196259	0.143861137	-2.064636088	
MIB2	-0.268124907	0.143865972	-2.064044248	
C12orf42	-0.268147105	0.143865972	-2.064228372	
MYO7A	-0.268117896	0.143865972	-2.063986098	
SLC25A36	0.268151978	0.143865972	2.064268786	
FAR2	0.268121241	0.143865972	2.064013843	
NARG1L	0.268130636	0.143865972	2.064091764	
TSEN2	0.268139119	0.143865972	2.064162128	
RBM39	0.2681216	0.143865972	2.064016823	
C20orf200	-0.268093115	0.143908553	-2.06378056	
SNRPD3	0.268045898	0.144011368	2.063388943	
KCNG1	-0.268007985	0.14408925	-2.063074507	
BIN1	-0.267967355	0.144174465	-2.062737547	
LLPH	0.267947859	0.144202917	2.062575862	
USP44	-0.267914882	0.144267611	-2.062302386	
PPEF2	-0.267875245	0.144350238	-2.061973691	
FLJ41170	-0.267864469	0.144355269	-2.061884324	
MRP63	0.267828606	0.144427784	2.061586934	yes
PEX19	0.267807968	0.144459353	2.061415804	
NKIRAS2	0.267769173	0.144539803	2.061094116	
CRTC1	-0.267757656	0.144546838	-2.060998621	yes
TAAR1	-0.267719699	0.144606186	-2.060683898	
KRTAP13-2	-0.267717809	0.144606186	-2.060668228	
C14orf180	-0.267684874	0.144646944	-2.060395151	
C17orf68	-0.267687886	0.144646944	-2.060420123	
IDH1	0.267622672	0.144694671	2.059879435	
LOC390282	-0.267648029	0.144694671	-2.060089666	
NRIP3	-0.267626039	0.144694671	-2.059907357	

ACTG2	-0.267644228	0.144694671	-2.060058152	
SHANK3	-0.267625806	0.144694671	-2.059905424	yes
LOC400940	-0.267600054	0.144707688	-2.059691918	
DHX32	0.267601157	0.144707688	2.059701065	yes
LOC400986	0.267586767	0.144719529	2.059581765	
TDRD10	-0.267552973	0.144786624	-2.059301601	
ZNF638	0.26754102	0.144793249	2.059202509	
CHCHD8	0.267518346	0.144793249	2.059014536	
BAI2	-0.267514965	0.144793249	-2.058986505	
KIAA1586	0.267527358	0.144793249	2.059089246	
TMIGD2	-0.267476144	0.144849981	-2.058664685	
LIMCH1	-0.26748237	0.144849981	-2.058716301	
ABHD4	0.267466425	0.144852235	2.058584118	
GCET2	-0.267436698	0.14486055	-2.0583377	
HOXA11	-0.267442213	0.14486055	-2.058383416	
ATP8B2	-0.267439445	0.14486055	-2.058360469	
MSX1	-0.267403765	0.14492539	-2.058064702	
SEZ6	-0.267358245	0.144928473	-2.05768739	
ZNF358	-0.267365137	0.144928473	-2.057744515	yes
MT3	-0.267379054	0.144928473	-2.057859874	
MKKS	0.267362067	0.144928473	2.057719073	
WDR87	-0.2673818	0.144928473	-2.057882636	
LMBRD2	0.267309369	0.145036338	2.057282268	
ZNF75D	0.267291244	0.145061295	2.057132045	
TUSC1	-0.267236766	0.14513648	-2.056680523	
GRM1	-0.267251875	0.14513648	-2.056805747	
KCNMB1	-0.267238595	0.14513648	-2.056695681	
LATS2	-0.267188479	0.145195005	-2.056280324	
GPR144	-0.267194562	0.145195005	-2.056330743	
C10orf95	-0.267199515	0.145195005	-2.056371787	
GNB1	0.267176971	0.145202137	2.056184954	
UNKL	-0.267154276	0.145215549	-2.055996866	yes
LOC727726	0.267161937	0.145215549	2.056060359	

LOXHD1	-0.267121451	0.145232401	-2.055724835
LOC729992	0.267132351	0.145232401	2.055815169
AOC3	-0.267127332	0.145232401	-2.055773575
OR52E8	-0.267068602	0.145351172	-2.055286878
SPIN1	0.267042141	0.145356696	2.055067603
CSHL1	-0.267007468	0.145356696	-2.054780286
CST2	-0.267051324	0.145356696	-2.055143703
FAM92A3	-0.267019588	0.145356696	-2.054880723
FIS1	-0.267032626	0.145356696	-2.054988763
CCDC90A	0.267004858	0.145356696	2.054758659
MFSD1	0.267004573	0.145356696	2.054756301
MRGPRX4	-0.26693812	0.145368923	-2.054205662
KRT24	0.266949547	0.145368923	2.054300343
C19orf68	-0.266982243	0.145368923	-2.054571269
KLK14	-0.266954837	0.145368923	-2.054344177
C20orf46	-0.266977699	0.145368923	-2.054533614
C19orf10	-0.266939144	0.145368923	-2.054214149
YWHAH	0.266946109	0.145368923	2.054271859
LCE1A	-0.266894693	0.145448022	-2.05384584
C10orf118	0.266891146	0.145448022	2.053816454
ZC3H8	0.266877307	0.145461525	2.053701787
HUNK	0.266844525	0.145479848	2.053430178
STX5	-0.266844009	0.145479848	-2.053425906
MMGT1	0.266859706	0.145479848	2.053555956
ZNF404	-0.26682729	0.145501142	-2.053287388
MOGAT3	-0.266775627	0.145563116	-2.052859362
YJEFN3	-0.266769018	0.145563116	-2.05280461
ERCC6L	0.266770331	0.145563116	2.052815488
EXO1	0.266772869	0.145563116	2.052836517
HRCT1	-0.266740632	0.145615961	-2.052569445
OR10W1	-0.266681453	0.145752089	-2.052079196
PHF21B	-0.266636989	0.145752966	-2.051710856
GPRASP2	-0.266651233	0.145752966	-2.051828855

OBSL1	-0.266658729	0.145752966	-2.05189095	
SENP6	0.266645424	0.145752966	2.051780733	
BRD9	0.266662257	0.145752966	2.051920173	
HSD17B4	0.26658147	0.145855406	2.051250968	
CAPZB	0.266587012	0.145855406	2.051296873	
ARMCX1	-0.266568478	0.145866686	-2.05114335	
RBM9	0.266545761	0.145904287	2.050955181	
ANXA4	0.266514983	0.145963716	2.050700251	yes
OR4F15	-0.266463781	0.146078483	-2.050276163	
PEX11B	0.266451784	0.146087085	2.050176802	
TMEM167A	0.266389587	0.146207824	2.049661673	
MT1H	-0.266394978	0.146207824	-2.049706319	
CDX4	-0.266376838	0.146218476	-2.04955609	
HSPE1	0.266346292	0.146229579	2.049303114	
MLLT3	0.266352876	0.146229579	2.049357643	
OXNAD1	0.266359751	0.146229579	2.049414577	yes
CEND1	-0.266328663	0.146229584	-2.049157116	
FAM167B	-0.266334382	0.146229584	-2.049204476	
ADAM29	-0.266280515	0.14633623	-2.048758385	
SIRT5	0.266256446	0.146377609	2.048559071	
C13orf27	0.266244176	0.146386991	2.048457464	
ITPR1	-0.266188622	0.146466011	-2.047997436	
MIB1	0.266189318	0.146466011	2.048003203	
TRIM24	0.266197431	0.146466011	2.048070378	
COL24A1	-0.266161034	0.146485784	-2.047769001	
PIK3CA	0.266159859	0.146485784	2.047759268	
ZNF462	-0.266153499	0.146485784	-2.047706609	
NCR2	-0.266146112	0.146485784	-2.047645438	
SLC35F4	-0.266109711	0.146560685	-2.047344033	
XKR3	-0.266033536	0.146616875	-2.046713331	
WDFY3	0.265974664	0.146616875	2.046225917	
ITGB3BP	0.266016224	0.146616875	2.046569999	
DEFB119	-0.266055071	0.146616875	-2.046891628	

H1FO	-0.26598392	0.146616875	-2.046302549	
MS4A10	-0.26598255	0.146616875	-2.046291203	
KARS	0.266046706	0.146616875	2.046822373	
CRIP3	-0.266013711	0.146616875	-2.046549193	
MDH1	0.266004124	0.146616875	2.046469818	
THAP9	0.266035103	0.146616875	2.046726305	
LOXL4	0.265977699	0.146616875	2.046251045	
IL17RC	-0.266045777	0.146616875	-2.046814677	
KRIT1	0.266041071	0.146616875	2.04677572	
NLK	0.265953785	0.146649697	2.046053059	
RNF187	-0.265899043	0.146762188	-2.045599872	
ALB	-0.265877215	0.146762188	-2.045419174	
KIAA0774	-0.265881477	0.146762188	-2.045454457	
HIST1H2BM	0.265881927	0.146762188	2.045458178	
ARSJ	0.265864761	0.146772158	2.045316075	
MOCS1	-0.265834042	0.14683175	-2.045061782	
IMP5	-0.265757878	0.146988296	-2.044431317	
FRMD4B	0.265749526	0.146988296	2.044362183	
TMEM195	-0.265741324	0.146988296	-2.044294292	
TMEM141	-0.265747063	0.146988296	-2.044341797	
LOC100130518	-0.26571826	0.147001959	-2.044103383	yes
GPR176	-0.265709965	0.147001959	-2.044034727	
TMEM90A	-0.265711579	0.147001959	-2.044048084	
PHF3	0.265699982	0.147005681	2.043950756	
WDR48	0.265690693	0.14700664	2.04387521	
NNAT	-0.265661797	0.147061358	-2.043636048	
LOC255374	-0.265640148	0.147096382	-2.043456863	
CCDC85A	-0.265571116	0.147258234	-2.042885527	
ZNF296	-0.265492627	0.147258234	-2.042235967	
OR1S2	-0.265499279	0.147258234	-2.042291017	
NKAPL	-0.265422923	0.147258234	-2.041659143	
C3orf64	0.265430841	0.147258234	2.041724664	
GSTM3	0.265470923	0.147258234	2.042056357	

KIR2DS4	-0.265557312	0.147258234	-2.042771283	
LOC388931	-0.265434045	0.147258234	-2.041751178	
NTRK2	-0.265463659	0.147258234	-2.04199624	
ANO7	-0.265540221	0.147258234	-2.042629844	
FAM3B	0.265453103	0.147258234	2.041908883	
FLJ10213	0.265500401	0.147258234	2.042300296	
GNPNAT1	0.265423657	0.147258234	2.04166522	
SPTA1	-0.265467754	0.147258234	-2.04203013	yes
ZNF148	0.265535519	0.147258234	2.042590925	
ANKRD30A	-0.265542771	0.147258234	-2.042650941	
C12orf29	0.265439318	0.147258234	2.041794814	
GDF3	-0.265465905	0.147258234	-2.042014831	
TIMD4	-0.265377163	0.147358965	-2.041280481	
PLAC8L1	-0.265327767	0.147435089	-2.040871753	
SMO	-0.265322952	0.147435089	-2.040831908	
ZNF205	-0.265337642	0.147435089	-2.040953462	
PCYT1A	0.265313424	0.147437208	2.040753069	
CHRNA1	-0.265232921	0.147585033	-2.040086988	
VPS37A	0.265244894	0.147585033	2.040186055	
PPA1	0.265238676	0.147585033	2.040134607	
BDP1	0.265208353	0.147628157	2.03988372	
DNASE2B	-0.265175789	0.147693096	-2.039614304	
HAVCR1	-0.265154596	0.147727041	-2.039438969	
AGTR2	-0.26514307	0.147734625	-2.039343613	
GBX2	-0.265111722	0.147782704	-2.039084272	
UGP2	0.265107956	0.147782704	2.039053122	
PPP3R1	0.265027806	0.147955845	2.038390075	
BGN	-0.265027032	0.147955845	-2.038383674	
CACNA2D4	-0.265015316	0.147963965	-2.038286758	
GSTM5	-0.264974435	0.148051746	-2.037948583	
CBX2	-0.264920151	0.148176201	-2.03749956	
DCUN1D2	0.264884496	0.148225887	2.037204644	
CYP20A1	0.264890204	0.148225887	2.03725186	

AGXT2	-0.264809346	0.14840755	-2.036583086
FBLIM1	-0.264791893	0.148431398	-2.036438736
SLC25A17	0.2647416	0.148449489	2.036022788
MTMR11	0.264759	0.148449489	2.036166692
HMGCS1	0.264746835	0.148449489	2.036066087
HILS1	-0.264767626	0.148449489	-2.036238032
NIF3L1	0.264764712	0.148449489	2.036213936
SLC46A1	-0.264720919	0.148482192	-2.03585175
GLB1	0.264681032	0.148552303	2.035521893
EIF2AK3	0.264677846	0.148552303	2.035495542
SERTAD3	0.264631278	0.148655939	2.035110442
SPCS3	0.264619791	0.148663491	2.035015447
CACNA1I	-0.264605003	0.148680089	-2.034893161
SEC61B	-0.26457481	0.148696584	-2.03464349
POU5F2	-0.264556274	0.148696584	-2.034490222
OR8B4	-0.264555349	0.148696584	-2.034482566
C1orf151	0.264587237	0.148696584	2.034746249
PTH1R	-0.264559472	0.148696584	-2.034516665
ALPK2	-0.264542247	0.14870858	-2.034374231
ZMAT5	-0.264532195	0.148712224	-2.034291109
KLK8	-0.264481536	0.148748211	-2.033872236
RP13-388O5.1	-0.26448782	0.148748211	-2.033924189
TMCO1	0.264475465	0.148748211	2.033822035
USP1	0.264480738	0.148748211	2.033865632
CDC5L	0.264499889	0.148748211	2.034023987
SNORD83B	-0.264464349	0.148754788	-2.033730121
APBA2	-0.264448497	0.148765969	-2.033599058
POLE2	0.264442839	0.148765969	2.033552279
IDS	0.264398239	0.148864329	2.033183523
C1orf138	-0.264388161	0.14886807	-2.033100204
KIF5B	0.264345515	0.148961124	2.032747617
ELAVL3	-0.264328309	0.148984422	-2.032605376
UNC84A	0.264300661	0.149036374	2.032376803

OR8D2	-0.264246041	0.14909067	-2.031925257	
SPG21	0.264259301	0.14909067	2.032034875	
GJC2	-0.264254417	0.14909067	-2.031994504	
SERINC4	-0.26426644	0.14909067	-2.032093891	
PDCD7	0.264225307	0.149099791	2.031753854	
SCARA5	-0.264226691	0.149099791	-2.031765302	
SSX7	-0.264201752	0.149140549	-2.031559139	
ZNF706	0.264187118	0.149156829	2.031438169	
FOXR2	-0.264164323	0.14917163	-2.031249737	
NKIRAS1	0.264166875	0.14917163	2.031270836	
MYOC	-0.264137064	0.149222581	-2.031024412	
PRKCG	-0.264082155	0.149349497	-2.030570552	
LCN6	-0.264059367	0.14938821	-2.030382193	yes
ALOX15	0.264031946	0.149415758	2.030155547	
KIAA0232	0.264033137	0.149415758	2.030165392	yes
PCDHA2	-0.263968826	0.149565384	-2.029633862	
MOS	-0.263897703	0.149737159	-2.029046062	
PSEN2	-0.263882321	0.149755562	-2.028918937	
STRADB	-0.263843319	0.149839011	-2.028596628	
ZNF354A	0.263813889	0.149896125	2.028353421	
MXD3	-0.263791392	0.14993415	-2.028167516	
CDKN3	0.263762895	0.149941	2.027932027	
FAM70A	-0.263756074	0.149941	-2.027875665	
RHBG	-0.263773518	0.149941	-2.028019815	
ZNF671	-0.26374544	0.149941	-2.027787796	
ZSCAN16	0.263746039	0.149941	2.027792743	
TRAV12-2	-0.263734264	0.14994785	-2.027695445	
MPHOSPH10	0.26371177	0.149985892	2.027509573	
HS3ST6	-0.263644868	0.150146381	-2.026956785	
OR10AG1	-0.263587415	0.150232973	-2.02648209	
TNFRSF1B	-0.263592258	0.150232973	-2.026522102	
FBXO31	-0.263597305	0.150232973	-2.026563799	
MUC3A	-0.263562624	0.15026201	-2.026277258	

LOC645195	-0.263559521	0.15026201	-2.026251624	
GOLSYN	0.263519892	0.150323448	2.025924218	
OR13A1	-0.263523819	0.150323448	-2.025956662	
PIP5K1A	0.263506643	0.150336051	2.025814764	
NRK	-0.263493797	0.150347548	-2.025708632	
RBP4	-0.263476694	0.150370799	-2.025567336	
CD34	-0.263378335	0.150618534	-2.024754797	
LILRA5	-0.263368872	0.150620696	-2.024676624	
LOC100133346	0.263333724	0.150677474	2.024386285	
LOC400499	-0.263330975	0.150677474	-2.024363579	
PTRH1	-0.263302185	0.150683639	-2.024125762	
SLC2A12	0.263288565	0.150683639	2.024013267	
WDR45L	0.263305228	0.150683639	2.024150902	yes
PSMB2	0.263312606	0.150683639	2.024211847	
SLC12A2	-0.263285365	0.150683639	-2.023986831	
OMA1	0.263272328	0.150695703	2.023879149	yes
SNORD115-3	-0.263241662	0.150752677	-2.02362585	
NUDT16	-0.263234381	0.150752677	-2.02356571	
MUC6	-0.263220568	0.150766898	-2.023451626	
CDC2L5	0.263197684	0.150806214	2.023262615	
TBC1D1	-0.263167375	0.15084251	-2.023012279	
SSX8	-0.263167227	0.15084251	-2.023011064	
LOC100130285	-0.263131417	0.150899796	-2.022715308	
C19orf26	-0.26312919	0.150899796	-2.022696913	
WIPI2	0.263106888	0.150924475	2.022512723	
DNM1P33	-0.263102943	0.150924475	-2.022480143	
LHX3	-0.263079408	0.150965636	-2.022285772	
BCL6	0.263046335	0.151002281	2.022012641	
PCDH15	-0.263051662	0.151002281	-2.022056638	
WNT7A	-0.263026729	0.151002281	-2.021850735	
XPNPEP1	0.263022868	0.151002281	2.021818849	
SLC22A6	-0.263039064	0.151002281	-2.021952595	
ZNF266	0.262981556	0.151060804	2.021477688	

ZHX1	0.262978496	0.151060804	2.021452425	
LOC389791	-0.26297576	0.151060804	-2.021429828	
FBXO6	-0.262955318	0.151093442	-2.021261026	
ZNF780A	0.262928528	0.151119704	2.021039806	
KCNK3	-0.262932071	0.151119704	-2.021069061	
CHRNA10	-0.262916251	0.151129745	-2.020938427	
HIST1H2AE	0.262896097	0.15113765	2.020772006	
OR4F6	-0.26289864	0.15113765	-2.020793008	
C16orf73	-0.262789149	0.151404368	-2.019888946	
NPDC1	-0.262773906	0.151404368	-2.019763099	yes
SNORD28	0.262777624	0.151404368	2.019793792	
APOC2	-0.262743843	0.151463763	-2.019514889	
C3orf58	0.26271113	0.151489098	2.019244802	
SCN5A	-0.262718899	0.151489098	-2.019308942	
CHRD	-0.262708772	0.151489098	-2.019225333	yes
PDE4A	-0.262672952	0.151524119	-2.018929615	
DDX56	0.262660837	0.151524119	2.018829591	
EPS8L1	0.262656594	0.151524119	2.01879457	
PYCRL	-0.262653288	0.151524119	-2.018767277	
MYLK3	-0.262652937	0.151524119	-2.018764375	
C2orf60	0.262625324	0.151532709	2.018536414	
NPB	-0.262619102	0.151532709	-2.018485051	
LOC388955	0.262615291	0.151532709	2.01845359	
PTGER1	-0.262630323	0.151532709	-2.018577682	yes
ZFR2	-0.262596246	0.151561589	-2.01829637	
CRYAB	-0.262566759	0.151604648	-2.018052955	
MMD2	-0.262553546	0.151604648	-2.017943876	
TMEM145	-0.262546197	0.151604648	-2.017883214	
MYPOP	-0.262559479	0.151604648	-2.017992856	
C6orf126	-0.262536542	0.151607492	-2.017803518	
CWC15	0.262509093	0.151659717	2.017576936	
PTCHD1	-0.262488184	0.151693803	-2.017404341	
DHDH	-0.262444497	0.151743239	-2.017043731	

C18orf8	0.262451751	0.151743239	2.017103611	
CLEC11A	-0.262445573	0.151743239	-2.017052615	yes
RUNDC3A	-0.26242045	0.151753865	-2.01684525	
TRA2A	0.262430979	0.151753865	2.016932155	
LOC729627	-0.262414799	0.151753865	-2.016798604	
FAM69B	-0.262402583	0.151763844	-2.016697774	yes
C9orf3	0.262370804	0.151828147	2.016435482	
LOC389151	-0.26236188	0.151828992	-2.016361824	
KIF2B	-0.262331381	0.151889762	-2.016110106	
LRRC52	-0.262310649	0.151899475	-2.015938997	
LOC645769	-0.262317129	0.151899475	-2.01599248	
SPATA16	-0.262249966	0.152044163	-2.015438181	
OLIG3	-0.262204568	0.152146438	-2.015063529	
SLC16A6	0.262192458	0.152156155	2.014963592	
CLEC14A	-0.262172869	0.152186678	-2.014801942	yes
CHRNB4	-0.262086375	0.152262807	-2.014088198	
CYLD	0.262112303	0.152262807	2.014302146	
WDR47	0.26209809	0.152262807	2.014184866	yes
DDAH1	-0.262071612	0.152262807	-2.013966383	
GABRB3	-0.262106845	0.152262807	-2.014257112	
FBXO8	0.262063257	0.152262807	2.013897439	
MSX2P1	-0.262061294	0.152262807	-2.013881246	
JMJD2D	-0.262133072	0.152262807	-2.014473536	
JMJD4	-0.262059403	0.152262807	-2.013865635	
TRPC2	-0.262094601	0.152262807	-2.014156081	
FBLN2	-0.261995401	0.152393031	-2.013337549	
ZNF45	0.261997748	0.152393031	2.013356909	
LARP4	0.261914297	0.152432357	2.012668376	
VASN	-0.261970429	0.152432357	-2.013131503	yes
ELMOD2	0.261916445	0.152432357	2.012686104	
GZMM	-0.261955386	0.152432357	-2.013007387	
C17orf102	-0.261934127	0.152432357	-2.012831987	
SNORA23	-0.261941013	0.152432357	-2.012888797	

PAAF1	0.261912476	0.152432357	2.012653352	
C2orf16	-0.26195394	0.152432357	-2.01299546	
C2orf42	0.261852387	0.15257576	2.012157611	
TMPRSS3	-0.261798375	0.152702327	-2.01171202	
TSPAN5	0.261785417	0.152709817	2.011605126	
STIP1	0.261778498	0.152709817	2.011548041	
TFAM	0.261764781	0.152724099	2.011434885	
ZNF831	-0.261743593	0.152759215	-2.011260098	
CLN8	0.261723378	0.152791625	2.011093342	
MTMR14	0.261700893	0.152830372	2.010907865	
LIM2	-0.261672219	0.152886396	-2.010671335	
RRAGB	0.261656929	0.15290509	2.010545211	
CBR3	-0.261642788	0.152920578	-2.010428575	
CCDC85B	-0.261620318	0.152939534	-2.010243232	
TULP4	0.261618819	0.152939534	2.010230867	
ZNF426	0.261583688	0.153013619	2.009941094	
NPTX1	-0.261570626	0.153026115	-2.009833354	
KIF14	0.261536291	0.153098008	2.009550164	
SOX12	-0.261508807	0.153150789	-2.009323489	
DNAJB8	-0.261479679	0.153186083	-2.009083254	
RAB28	0.261479006	0.153186083	2.009077698	yes
ANUBL1	0.261446877	0.153251872	2.008812724	
MIXL1	-0.261427832	0.153281112	-2.008655659	
MAPK10	0.261383432	0.153333268	2.008289497	
FGF17	-0.261389108	0.153333268	-2.008336304	
C19orf20	-0.261393916	0.153333268	-2.008375954	
CNOT4	0.261369247	0.153348941	2.008172519	
SFRS12	0.261356379	0.153360937	2.008066398	
OR4X2	-0.261338872	0.153361929	-2.007922032	
IFRG15	0.261346935	0.153361929	2.007988525	
OR6C75	-0.261289984	0.153451559	-2.00751889	
TAF7	0.261289669	0.153451559	2.007516286	
SLC5A6	0.261239138	0.153568932	2.007099618	

FMR1	0.261192946	0.153668941	2.006718734	
GLDC	-0.261186262	0.153668941	-2.006663621	
UGT1A4	0.261164435	0.153706053	2.006483653	
INTS10	0.261143467	0.153740767	2.00631077	
USP53	0.261123644	0.153772283	2.006147326	
SPINLW1	-0.261046301	0.153940978	-2.005509661	
PIWIL1	-0.261049295	0.153940978	-2.005534343	
LCN10	-0.261012774	0.154010953	-2.005233254	yes
LCN9	-0.260998223	0.154015941	-2.005113293	
PDC	-0.260993858	0.154015941	-2.005077313	
NLGN3	-0.260957292	0.154094471	-2.004775862	
RP11-429E11.3	-0.260929217	0.154109348	-2.004544425	
OR2W3	-0.260925901	0.154109348	-2.004517082	
LDHA	0.260917729	0.154109348	2.004449721	
PCDH24	-0.260940557	0.154109348	-2.004637903	
LOC113230	-0.260907334	0.154114488	-2.004364032	
SLC38A2	0.260893707	0.154128701	2.004251694	
ZNF383	0.260865558	0.15417059	2.004019661	
LOC653808	-0.260861656	0.15417059	-2.003987492	
KDELR2	0.260822109	0.154257551	2.00366151	
PUSL1	-0.26077808	0.15430041	-2.003298588	
SIGLEC15	-0.26077149	0.15430041	-2.003244268	
CTAG2	-0.260764059	0.15430041	-2.003183024	
C6orf122	-0.260791246	0.15430041	-2.003407109	
RETNLB	-0.260785848	0.15430041	-2.00336262	
MPHOSPH6	0.260721043	0.154384543	2.002828468	
RASA2	0.260716988	0.154384543	2.002795047	
LOC152118	-0.260699397	0.154409926	-2.002650066	
PRTN3	-0.260652175	0.154518564	-2.002260867	
TRPM2	-0.260610838	0.154610713	-2.00192019	
C19orf21	0.260570561	0.15465381	2.001588254	
AASDH	0.260583411	0.15465381	2.001694154	
SMEK3P	-0.260569859	0.15465381	-2.001582469	

SNORD30	0.26054849	0.154689861	2.001406367
CD52	-0.260472538	0.154853129	-2.000780474
SPATA3	-0.260469903	0.154853129	-2.000758755
SLC16A14	-0.260449459	0.154853129	-2.000590288
IGF1R	0.260451025	0.154853129	2.000603196
AGK	0.260447723	0.154853129	2.000575983
FAAH2	0.260427247	0.154862668	2.000407257
RPL14	0.260433499	0.154862668	2.000458776
SPATA9	-0.260391694	0.154938694	-2.000114305
CACNG2	-0.260369609	0.154976825	-1.99993233
C1orf149	0.260341878	0.155006816	1.999703834
SLC5A3	0.260348606	0.155006816	1.999759272
ST6GALNAC2	0.260313029	0.155064017	1.999466134
SYT10	-0.260260009	0.155169031	-1.999029295
NOL4	-0.26025868	0.155169031	-1.999018343
NT5C1A	-0.260244893	0.155183823	-1.998904759
SYT2	-0.260200104	0.155239968	-1.998535756
EVI2B	-0.260189265	0.155239968	-1.998446458
TMEM151A	-0.26015805	0.155239968	-1.998189298
LIME1	-0.26016195	0.155239968	-1.998221428
STAP2	0.260189202	0.155239968	1.998445939
RFWD2	0.26016265	0.155239968	1.998227192
LOC645139	0.260164192	0.155239968	1.998239897
UBE2Z	0.260156709	0.155239968	1.998178251
TXLNA	0.260124605	0.155285455	1.997913767
DDX50	0.260123516	0.155285455	1.997904799
TMEM119	-0.260061096	0.155437436	-1.997390596
SEMA5A	0.260049718	0.155445479	1.997296869
MYD88	0.260031195	0.155473683	1.997144287
NUDT5	0.259976391	0.155580233	1.996692854
FOXD3	-0.259979462	0.155580233	-1.996718153
COP5	0.259955388	0.155591398	1.996519857
RPL35A	0.259958799	0.155591398	1.996547953

TNPO1	0.25993252	0.155631898	1.996331498	
NOP56	0.259907549	0.155642073	1.99612582	
PKD2L2	-0.259894837	0.155642073	-1.996021113	
WEE1	0.259899303	0.155642073	1.9960579	
ZNF767	0.25991134	0.155642073	1.996157046	
DMD	-0.259874228	0.155652165	-1.995851376	
MED21	0.259882548	0.155652165	1.995919903	
ARPP-19	0.259824811	0.155732067	1.995444366	
STAR	-0.259820388	0.155732067	-1.99540794	
IER3	0.259830982	0.155732067	1.995495189	
TMEM179	-0.259784715	0.155808784	-1.995114149	
AURKA	0.259766025	0.15583754	1.994960223	
C10orf99	0.259703634	0.155965768	1.994446412	
ADAMTSL2	-0.259708029	0.155965768	-1.994482605	
C6orf125	0.259694213	0.155968341	1.99436883	
CSN1S1	-0.259684165	0.15597269	-1.994286083	
NIPSNAP3A	0.259656617	0.156002465	1.994059228	
NDUFA8	0.259657896	0.156002465	1.994069758	
C10orf46	0.259645411	0.156010097	1.993966947	yes
PRKACG	-0.259609679	0.156063035	-1.993672709	
CENPT	-0.259610543	0.156063035	-1.993679821	
GSC2	-0.259572794	0.156143315	-1.993368987	
C19orf45	-0.259550942	0.156157022	-1.993189054	
MYL4	-0.259553788	0.156157022	-1.99321249	
NOSTRIN	-0.259535125	0.156172701	-1.993058814	
GSC	-0.259528397	0.156172701	-1.993003415	
ARID3C	-0.259514482	0.156188021	-1.992888843	
FAM70B	-0.259473626	0.156255536	-1.992552451	yes
NFYB	0.259481227	0.156255536	1.992615031	
C9orf82	0.259425871	0.15636668	1.992159262	
OR2B11	-0.259375042	0.156438442	-1.991740788	yes
MATK	-0.259376414	0.156438442	-1.991752078	
RPS12	0.259386055	0.156438442	1.991831454	

VAV3	0.259357058	0.156441258	1.99159273	
ALPP	-0.259362254	0.156441258	-1.991635505	
HS3ST4	-0.259341724	0.156460635	-1.991466489	
CXorf48	-0.259250529	0.156695055	-1.990715741	
GLYAT	-0.25919565	0.156822407	-1.990263981	
HOXB13	-0.259165709	0.156822407	-1.990017526	
DHX36	0.259171948	0.156822407	1.99006888	
PI3	0.259163502	0.156822407	1.989999357	
FUSSEL18	-0.259163177	0.156822407	-1.989996684	
LOC100133388	-0.259118223	0.156925906	-1.989626655	yes
CEBPZ	0.259018928	0.157135613	1.988809378	
KCNN1	-0.259027409	0.157135613	-1.988879183	
ZNF134	0.259027352	0.157135613	1.988878717	
MGMT	-0.258997794	0.15715371	-1.988635439	
PDE11A	-0.258995584	0.15715371	-1.988617248	
MRGPRF	-0.258954921	0.15720374	-1.988282587	yes
GATA2	-0.258952524	0.15720374	-1.988262858	
TNP1	-0.258955959	0.15720374	-1.988291133	
SLC17A2	-0.25892083	0.157269725	-1.988002023	
SNX5	0.258907728	0.157271078	1.987894197	
MANBA	0.258903387	0.157271078	1.987858478	
AZI2	0.258885185	0.157298718	1.98770868	
LOC441239	-0.258868899	0.157320915	-1.987574653	
UNQ9370	-0.258845096	0.157364495	-1.98737877	
TSC22D3	-0.258811393	0.157416236	-1.987101429	
LOC645106	-0.258809949	0.157416236	-1.987089546	
ABCG8	-0.258779248	0.157479471	-1.986836911	
MYOM3	-0.258752601	0.157531186	-1.986617638	
CRP	-0.25871215	0.157615787	-1.986284793	
NGB	-0.258705933	0.157615787	-1.98623363	
COX6B2	-0.258689993	0.157637043	-1.986102475	
TPSD1	-0.258588677	0.157887161	-1.985268866	
ARPM1	-0.25858527	0.157887161	-1.985240837	

DUPD1	-0.258559748	0.157887446	-1.985030856	
SNRNP40	0.258563186	0.157887446	1.98505914	
PIGL	0.258562629	0.157887446	1.98505456	
HVCN1	-0.258519282	0.157978686	-1.984697934	
C5orf34	0.258447683	0.158110461	1.984108912	
TMEM55A	-0.258447781	0.158110461	-1.984109715	
TM4SF4	-0.258452277	0.158110461	-1.984146698	
NOL7	0.258429185	0.158139084	1.983956736	
BTBD8	0.258361807	0.158283109	1.983402474	
RSL24D1	0.258367461	0.158283109	1.983448986	
ANGPTL1	-0.258331558	0.158345332	-1.983153648	
DDN	-0.258313682	0.158372213	-1.983006605	
FSD1	-0.258287562	0.15842266	-1.982791759	
PON1	-0.258278785	0.158423546	-1.982719567	
WISP1	-0.258223015	0.158558791	-1.982260846	
SDC2	-0.25821403	0.158560276	-1.982186943	
GEMIN5	0.25818854	0.158560555	1.981977297	
APEX2	0.258191348	0.158560555	1.98200039	
CHD7	0.258202687	0.158560555	1.982093648	yes
C10orf82	-0.258173444	0.158569497	-1.981853135	
SOX11	-0.25816849	0.158569497	-1.981812393	
C6orf130	0.258140514	0.158625314	1.981582302	
PTPRN	-0.258119562	0.15866105	-1.981409987	
SOCS6	0.258097153	0.158700964	1.981225688	
ANTXRL	-0.257997429	0.158749947	-1.980405582	
SLFNL1	-0.258007843	0.158749947	-1.980491218	
GRM3	-0.258008778	0.158749947	-1.980498909	
DEFB136	-0.257995498	0.158749947	-1.980389702	
TCEB1	0.258024868	0.158749947	1.980631222	
ZNF174	0.258005622	0.158749947	1.980472956	
ZFAND5	0.258060378	0.158749947	1.980923246	
ADPGK	0.258066991	0.158749947	1.980977637	
CD22	-0.258048258	0.158749947	-1.980823581	yes

ORMDL3	-0.258033317	0.158749947	-1.980700707	
DNAJC8	0.257983607	0.1587598	1.980291913	
BAIAP2	0.257908759	0.158832557	1.97967643	
LEFTY1	-0.257927364	0.158832557	-1.979829417	
OR51S1	-0.257907512	0.158832557	-1.979666183	
FLJ10490	-0.257921828	0.158832557	-1.979783897	
EPB41L4A	0.257928857	0.158832557	1.979841701	
LRP5L	-0.257928179	0.158832557	-1.979836118	
DUSP8	-0.257883919	0.158851764	-1.979472178	
ZBTB20	-0.257886371	0.158851764	-1.979492346	
OR12D2	-0.257821219	0.159007117	-1.978956629	
SPAG4L	-0.25780242	0.15903257	-1.978802066	
RYR2	-0.257795453	0.15903257	-1.978744781	
OR8G5	-0.257777572	0.159038261	-1.97859776	
SLC27A1	-0.257768154	0.159038261	-1.978520329	
RAB2B	0.257774396	0.159038261	1.97857165	yes
PPP1R12C	-0.257744282	0.159058319	-1.978324054	yes
LY86	-0.257752504	0.159058319	-1.978391659	
GPR18	-0.257732604	0.159067613	-1.978228042	
UBQLN3	-0.257683254	0.159126548	-1.977822314	
RTKN	-0.257684976	0.159126548	-1.977836469	
ACTN2	-0.257686936	0.159126548	-1.977852584	
CNOT8	0.257678306	0.159126548	1.977781637	
TMPRSS11F	0.257669434	0.159127818	1.977708697	
SNCG	-0.257655938	0.159129085	-1.977597746	
MAPKAPK5	0.257652137	0.159129085	1.977566494	
HSD3B7	-0.257599956	0.159254472	-1.977137519	
SCGN	-0.257589516	0.159260243	-1.977051701	
NLRP11	-0.257549769	0.159350049	-1.976724952	
PVRL1	0.257539738	0.159354655	1.976642495	
LOC100131232	-0.257515279	0.159400643	-1.976441439	
TMED3	-0.25749083	0.159427204	-1.976240469	
PEBP1	-0.257479606	0.159427204	-1.976148205	

MAPK4	-0.257472332	0.159427204	-1.976088411
DMRTB1	-0.257483209	0.159427204	-1.976177824
ACTL6B	-0.257454401	0.159430337	-1.975941027
CCDC76	0.257457377	0.159430337	1.975965484
CWC22	0.257441762	0.159442446	1.97583714
POP4	0.25742783	0.159458267	1.975722622
C22orf24	-0.257411265	0.159481647	-1.97558646
KLHDC2	0.257397645	0.159496579	1.975474513
CRX	-0.257370706	0.15952559	-1.975253099
NME3	-0.257378376	0.15952559	-1.975316142
PLOD3	-0.257338172	0.159546537	-1.974985698
AIFM1	0.257338506	0.159546537	1.974988446
ZBTB47	-0.257347857	0.159546537	-1.975065299
SYN3	-0.257315303	0.159588029	-1.974797741
GABRA5	-0.257297601	0.159614699	-1.974652256
KIAA0090	0.257283857	0.159625446	1.974539298
ANXA7	0.257277042	0.159625446	1.974483286
SLC35F1	-0.25719979	0.159774842	-1.973848408
MTA3	0.25720903	0.159774842	1.97392434
SPRR2C	-0.257207583	0.159774842	-1.973912451
SLC16A12	-0.257143486	0.15981026	-1.973385711
LSS	-0.257162678	0.15981026	-1.973543421
PTOV1	-0.257128983	0.15981026	-1.973266535
BAI3	-0.257128648	0.15981026	-1.973263783
METTL14	0.257140704	0.15981026	1.973362853
NDST4	-0.257160901	0.15981026	-1.97352882
METTL4	0.257141126	0.15981026	1.973366319
HCN4	-0.257113644	0.159829235	-1.973140486
LASS1	-0.257092776	0.159858975	-1.972969005
HMBOX1	0.257086498	0.159858975	1.972917414
EIF4E1B	-0.257057056	0.159896059	-1.972675484
DPF1	-0.2570568	0.159896059	-1.97267338
ST8SIA6	-0.257019973	0.159929528	-1.972370779

LMBRD1	0.257032779	0.159929528	1.972476003	
TTBK1	-0.257027055	0.159929528	-1.972428971	
OTC	-0.257007991	0.159939846	-1.972272329	
NKX2-4	-0.256996696	0.159948196	-1.972179514	
JSRP1	-0.256964091	0.159969579	-1.971911615	
KIAA1614	-0.256977048	0.159969579	-1.972018076	
BRMS1L	0.256969117	0.159969579	1.971952918	
RRAS2	-0.256954088	0.159974226	-1.971829427	
GLTPD2	-0.256932701	0.160011586	-1.97165371	
TMEM108	-0.25691774	0.160030487	-1.971530785	
TOM1L2	0.256879881	0.160115213	1.971219738	
FCER1G	-0.256856892	0.16015721	-1.971030863	
MYL2	-0.256837302	0.160189439	-1.970869921	
DMBX1	-0.25680037	0.160271564	-1.970566509	
PIGX	0.256786005	0.16028878	1.970448494	
LOC139431	-0.256728354	0.160378795	-1.969974892	
RSBN1L	0.256721207	0.160378795	1.969916182	
SYNGR4	-0.256730326	0.160378795	-1.969991097	
GFM1	0.256738813	0.160378795	1.970060815	
TRMT2A	-0.256710719	0.160384871	-1.969830023	
ZNF454	-0.256653884	0.160524391	-1.969363152	
ADCY1	-0.256622648	0.160590239	-1.969106574	yes
MITD1	0.256594482	0.160623123	1.968875224	
UNC93A	-0.2565958	0.160623123	-1.968886045	
SCGB1D1	-0.256574328	0.160626237	-1.968709682	
BLNK	0.25657251	0.160626237	1.968694747	
CDC37L1	0.256566601	0.160626237	1.96864621	
SNAPC3	0.256559909	0.160626237	1.968591244	
PKM2	0.25650836	0.160750673	1.968167849	
WWP2	-0.256478907	0.160811457	-1.967925945	
GBA3	-0.256463065	0.160833003	-1.967795832	
FAM120C	0.256449403	0.160848267	1.967683623	
ALKBH4	-0.256440527	0.160849728	-1.967610729	

FNDC8	-0.256426708	0.160854916	-1.967497231
SLC12A8	-0.256421994	0.160854916	-1.96745852
ZNF558	0.256390725	0.160920976	1.967201716
FERD3L	-0.256382358	0.16092098	-1.967133004
FAM148C	-0.256351303	0.160983385	-1.966877968
TSPYL5	-0.256343999	0.160983385	-1.966817986
RBM4	0.256313709	0.16104666	1.966569245
HAT1	0.256301193	0.161058648	1.966466464
OR6C4	-0.25628035	0.161093022	-1.966295304
E2F8	0.256272562	0.161093022	1.96623135
DSTYK	0.256255071	0.161119382	1.966087717
OSTN	-0.256224742	0.161182817	-1.965838669
IL16	-0.256193934	0.161184444	-1.965585699
EEF1A19	0.256193196	0.161184444	1.965579638
C20orf177	0.256190749	0.161184444	1.965559547
ACSBG2	-0.256196043	0.161184444	-1.965603016
CHST2	-0.256172282	0.161213645	-1.96540791
FBXO3	0.256162303	0.161218338	1.965325971
SERHL2	-0.256141022	0.16124908	-1.965151239
MEX3D	-0.256134953	0.16124908	-1.965101403
OR52J3	-0.256096819	0.161288999	-1.964788302
RPL13AP3	-0.25609921	0.161288999	-1.964807932
NDRG4	-0.25609608	0.161288999	-1.964782233
OR52W1	-0.256022109	0.161438814	-1.96417491
KCNH5	-0.25602435	0.161438814	-1.964193308
KIF7	-0.256010839	0.161438814	-1.964082377
AKAP1	0.25601648	0.161438814	1.964128689
GATA6	-0.255999901	0.161440222	-1.963992579
FLJ43692	0.25599366	0.161440222	1.963941345
ZCCHC3	-0.255954826	0.16152836	-1.963622528
NEDD1	0.255919015	0.161607789	1.963328542
DRD1	-0.255845893	0.161787622	-1.962728273
SUPT6H	0.25584018	0.161787622	1.962681374

AEN	-0.255831356	0.161789012	-1.962608944	
GPR141	-0.25579303	0.161851668	-1.96229434	
NRAP	-0.255799134	0.161851668	-1.962344442	
ZWINT	0.255780334	0.161864279	1.962190125	
CTNNA3	-0.25574715	0.161936229	-1.96191774	
IFNA8	-0.255729996	0.161961762	-1.961776936	
SNX26	-0.25572108	0.161963433	-1.961703755	
MAL	0.255691559	0.162024805	1.961461445	
RGS11	-0.255654709	0.162107439	-1.961158991	yes
SNORA6	-0.255632372	0.162148025	-1.960975659	
COL27A1	-0.25559297	0.162238107	-1.960652282	
C1orf89	-0.255547524	0.162345769	-1.960279305	
LOC100133435	-0.255533279	0.162362915	-1.960162398	
VSX2	-0.255510776	0.162387798	-1.959977722	
LIPC	-0.255508034	0.162387798	-1.959955223	
INMT	-0.255480649	0.162418907	-1.959730483	yes
DEC1	-0.255486818	0.162418907	-1.959781116	
KIR3DL1	-0.255463651	0.162444061	-1.959590993	
ATP2A2	0.255452979	0.162448589	1.959503419	
HCFC1R1	-0.255441719	0.162448589	-1.959411014	
FLJ33544	-0.255437099	0.162448589	-1.959373103	
CUGBP1	0.255423223	0.162461552	1.959259237	
NCRNA00153	-0.255415976	0.162461552	-1.959199771	
ARHGAP12	0.255398858	0.162487073	1.9590593	
NEK7	0.255354171	0.162568475	1.958692611	
B3GALT1	0.25536166	0.162568475	1.95875406	
STAG1	0.255322868	0.162612369	1.958435759	
C18orf56	-0.255322408	0.162612369	-1.958431983	
C7orf33	-0.255308574	0.162628377	-1.958318467	
PPAPDC1A	-0.255295916	0.162640969	-1.95821461	
TRPM5	-0.255280397	0.162643559	-1.958087277	
PLXNB3	-0.255278382	0.162643559	-1.958070743	yes
DNM3	-0.255239313	0.162684555	-1.957750185	

PDGFB	-0.255246143	0.162684555	-1.957806223	yes
UTP14C	0.255244081	0.162684555	1.957789301	
CST5	-0.25522022	0.162713288	-1.957593529	
PCDHA3	-0.255204474	0.162713288	-1.957464345	
TGFB3	-0.255208471	0.162713288	-1.957497133	
VPS8	0.255189384	0.162732974	1.957340535	
HOXA13	-0.25516682	0.162750226	-1.957155413	
SHB	-0.255170569	0.162750226	-1.957186175	
RPL23AP32	-0.255157879	0.162752055	-1.95708206	
ADAMTS16	-0.255115578	0.162803362	-1.956735018	
STEAP2	0.255115292	0.162803362	1.95673267	
TMEM14A	0.255128626	0.162803362	1.956842063	
APC	0.25509945	0.162825254	1.956602709	
FLJ32756	-0.255079875	0.162858002	-1.956442117	
NOS3	-0.255030412	0.162963282	-1.956036343	
LOC646976	-0.255027048	0.162963282	-1.956008754	
AARS	-0.254971918	0.163051159	-1.955556513	
FIGLA	-0.254979714	0.163051159	-1.955620457	
PECAM1	-0.254978718	0.163051159	-1.955612291	
TBX22	-0.254874038	0.16331189	-1.954753639	
LOC284379	-0.254848605	0.163361782	-1.954545031	
PKLR	-0.254742831	0.163645927	-1.953677492	
C10orf27	-0.254734163	0.163646982	-1.953606404	
FABP1	-0.254725663	0.163647549	-1.953536694	
EEF1A2	-0.254680401	0.163755386	-1.953165489	
ZNF267	0.254654247	0.16375822	1.952951001	
SRGAP2	0.254637918	0.16375822	1.952817093	
INPP5B	-0.254639563	0.16375822	-1.952830584	
LOC729602	0.254650879	0.16375822	1.952923381	
CD84	-0.254648092	0.16375822	-1.952900522	
CCR9	-0.254614451	0.163778267	-1.952624644	
OR1L6	-0.254619374	0.163778267	-1.952665019	
C1orf64	-0.254565304	0.163841008	-1.95222162	

GPX3	-0.254575141	0.163841008	-1.952302288
C2orf78	-0.25456546	0.163841008	-1.952222896
ACTR10	0.254559768	0.163841008	1.952176228
VSIG4	-0.254523265	0.163874936	-1.951876897
C6orf81	-0.25452748	0.163874936	-1.951911459
HDAC3	0.254529359	0.163874936	1.951926864
LARS2	0.254469039	0.16398485	1.951432252
SNORD49A	0.254474773	0.16398485	1.951479273
NDOR1	-0.254454105	0.164001511	-1.951309802
WBP11	0.254435006	0.164001511	1.951153204
FSTL5	-0.254436043	0.164001511	-1.951161705
HAGHL	-0.254430177	0.164001511	-1.951113605
PDZRN3	-0.254417512	0.164014296	-1.951009765
FAM178A	0.254402279	0.164034588	1.950884862
DHRS7C	-0.254383873	0.164064149	-1.950733952
IL22RA2	-0.25435031	0.164138003	-1.950458772
USP26	-0.254328371	0.164177908	-1.950278899
RPP30	0.254305136	0.164218961	1.950088404
SRFBP1	0.254297759	0.164218961	1.950027922
STX1B	-0.254284789	0.164232664	-1.949921591
VSTM1	-0.254268918	0.164241422	-1.949791475
ETAA1	0.254265232	0.164241422	1.949761252
SETD5	0.254241464	0.164286699	1.949566405
PLD3	-0.254229155	0.164298483	-1.949465492
C20orf43	0.254215781	0.164313383	1.949355855
CNIH3	-0.254196454	0.164332682	-1.949197411
BEND4	-0.254192628	0.164332682	-1.949166048
POLK	0.254181415	0.164341271	1.949074129
ARID5A	-0.254152936	0.16434748	-1.948840671
SRPK3	-0.254159404	0.16434748	-1.948893694
LRRTM1	-0.254155816	0.16434748	-1.948864275
PDF	-0.25412966	0.16434748	-1.948649868
ZNF649	0.254144171	0.16434748	1.948768816

HPS3	0.254137588	0.16434748	1.948714856	
RAP1B	0.254101439	0.164405823	1.94841853	
LYSMD1	0.254089149	0.164406755	1.948317788	
PRM2	-0.254076319	0.164406755	-1.948212619	
ACRBP	-0.254077095	0.164406755	-1.948218978	
CHRNA	-0.253934061	0.164441936	-1.947046606	
ARFIP1	0.253916092	0.164441936	1.946899331	
RABGEF1	0.253890921	0.164441936	1.946693033	
FAM177A1	0.253959805	0.164441936	1.947257606	
C19orf54	-0.253974558	0.164441936	-1.947378525	
NENF	-0.253991275	0.164441936	-1.947515543	yes
NTRK3	-0.254008242	0.164441936	-1.947654611	
COL5A3	-0.25390359	0.164441936	-1.946796862	
PIGA	0.25390638	0.164441936	1.946819728	
AFTPH	0.253972526	0.164441936	1.947361866	yes
DPP8	0.253948933	0.164441936	1.947168496	
SCN10A	-0.253960332	0.164441936	-1.947261921	
ANO3	-0.253897354	0.164441936	-1.946745752	
hCG_22804	0.253923081	0.164441936	1.94695661	
ST14	0.253997652	0.164441936	1.947567811	
HNF1A	-0.253968159	0.164441936	-1.947326076	
TTN	-0.253984487	0.164441936	-1.947459906	
USH2A	-0.253991553	0.164441936	-1.947517816	
ZBP1	-0.253928605	0.164441936	-1.947001883	
ARHGAP19	0.253996004	0.164441936	1.947554303	
TLK1	0.253994688	0.164441936	1.947543515	
RRP1B	0.253857211	0.164492277	1.946416758	
C1orf110	0.253857813	0.164492277	1.946421693	yes
PRDM12	-0.253839234	0.164514771	-1.946269427	
SHOC2	0.253833031	0.164514771	1.946218595	
SNORD116-29	-0.253793574	0.164557853	-1.945895236	
MSH3	0.253801801	0.164557853	1.945962651	
MAGEB17	-0.253796954	0.164557853	-1.945922931	

SNORA35	-0.253757393	0.164639573	-1.945598729
TSFM	0.253730762	0.164693379	1.945380496
DDX1	0.253704116	0.164747243	1.945162141
ZNF674	0.253636829	0.164920122	1.944610776
EXOSC3	0.253564448	0.165108074	1.944017701
OR4K17	-0.25351085	0.165241086	-1.943578553
FCRL1	-0.253475113	0.165273413	-1.943285758
OR51M1	-0.253477019	0.165273413	-1.943301371
TMEM185A	-0.253477943	0.165273413	-1.94330894
C17orf77	-0.253457434	0.165281788	-1.943140915
LMO4	0.253455785	0.165281788	1.943127403
PRSSL1	-0.253438284	0.165308973	-1.942984017
MXD4	-0.253315077	0.165501981	-1.941974668
STXBP5	0.253342828	0.165501981	1.942202003
IL1F7	-0.253335175	0.165501981	-1.942139309
OR5B3	-0.253320341	0.165501981	-1.942017789
SLC35B3	0.253344971	0.165501981	1.942219559
LOC646359	-0.253314895	0.165501981	-1.941973176
TARS2	0.253337175	0.165501981	1.942155699
C1orf31	0.253294433	0.165511622	1.941805556
ASCL1	0.253283149	0.165511622	1.941713119
MPP4	-0.253277946	0.165511622	-1.941670502
C15orf56	-0.253293928	0.165511622	-1.941801418
LOC729898	-0.253270472	0.165511622	-1.941609277
FEM1B	0.253204592	0.165680953	1.941069629
SPPL2A	0.253181426	0.165724853	1.940879877
TPT1	0.253170328	0.165733297	1.940788971
MUCL1	0.253132743	0.165803662	1.940481115
FKBP2	-0.25312994	0.165803662	-1.940458161
SMAD4	0.253096461	0.165877916	1.940183949
CPNE9	-0.253038063	0.165991655	-1.939705652
C19orf31	-0.253032225	0.165991655	-1.939657842
CYP2W1	-0.253024905	0.165991655	-1.939597884

MANEA	0.253045329	0.165991655	1.939765159	
ZNF840	-0.252998054	0.166046472	-1.939377978	
CLDN22	-0.252965562	0.166117906	-1.93911188	
LOC100132755	-0.252935976	0.166152899	-1.938869587	yes
LRRC55	-0.25292902	0.166152899	-1.93881262	
UBASH3B	0.252938282	0.166152899	1.938888473	
EXOC8	0.252919319	0.166157267	1.938733182	
UBE2J1	0.252860259	0.166306994	1.93824953	
CYTH3	-0.252843502	0.166332155	-1.938112308	
WNT3A	-0.252834187	0.166335395	-1.938036033	
C9orf84	0.252814835	0.166368208	1.937877567	
C8orf31	-0.252766197	0.166479929	-1.937479296	
SPRR2A	0.252757214	0.166479929	1.937405747	
SNX22	-0.252752287	0.166479929	-1.937365403	
CALHM1	-0.252723867	0.16650096	-1.937132696	
HUS1	0.252732098	0.16650096	1.937200088	
SNORA29	0.25272052	0.16650096	1.937105292	
C3orf24	-0.25270364	0.166526523	-1.936967074	
C10orf84	0.252674508	0.166588216	1.936728551	
CDK2AP2	-0.25264024	0.166641669	-1.936447986	
ATXN7L1	0.252623556	0.166641669	1.936311384	
ITIH5L	-0.252627399	0.166641669	-1.936342846	
LIG4	0.252630524	0.166641669	1.936368432	
MYT1	-0.252600661	0.166685	-1.936123935	
GJB2	0.252566823	0.16668803	1.935846905	
HSD11B1L	-0.252570384	0.16668803	-1.935876058	
KCNH6	-0.252571536	0.16668803	-1.935885488	
RNF14	0.252579608	0.16668803	1.935951573	
VEZF1	0.252502096	0.166854827	1.935316999	
ATP5J2	0.252492738	0.166858241	1.935240396	
PCTK2	0.252479807	0.166872207	1.935134537	
THPO	-0.252449509	0.16692993	-1.934886511	
BRSK2	-0.252443858	0.16692993	-1.934840247	

SLC23A2	0.252433088	0.166937523	1.934752086	
CMIP	0.252394712	0.16702665	1.934437944	
GMPPB	-0.252367638	0.16708242	-1.934216318	
PLAC1	-0.252340149	0.167139427	-1.93399131	
VCP	0.252290981	0.167236314	1.933588854	
ZMAT4	-0.252298646	0.167236314	-1.933651595	
CRCP	0.252275158	0.167258867	1.933459341	
PRDM10	0.25224711	0.167317577	1.933229773	
EPHX1	0.252211131	0.167399769	1.932935293	
KLHL9	0.252084734	0.167749776	1.931900843	
SUCLA2	0.252033993	0.167875897	1.931485597	
MCTP2	0.252014529	0.167909311	1.931326317	
FANCF	0.251996101	0.167927609	1.931175515	yes
TMEM188	0.251991969	0.167927609	1.931141704	
LOC100133401	-0.251949095	0.168006176	-1.930790865	
NEUROD6	-0.251954723	0.168006176	-1.930836923	
C14orf33	-0.251920553	0.168066553	-1.930557318	
TGM6	-0.251912356	0.168066567	-1.930490244	
KRTAP19-7	-0.251856745	0.168207326	-1.930035211	
CRY2	-0.251844038	0.168220735	-1.929931237	
LOC440957	0.25182403	0.168255826	1.929767534	
RLBP1L1	-0.251789451	0.168334211	-1.92948461	
C1orf177	-0.251769526	0.168343867	-1.929321587	
CLYBL	0.251744916	0.168343867	1.929120238	
SLC39A6	0.25174893	0.168343867	1.929153077	
OPTC	-0.251737076	0.168343867	-1.929056092	
PTPRA	0.251749194	0.168343867	1.929155237	
SLC4A9	-0.251774885	0.168343867	-1.929365429	
LOC652904	-0.251715236	0.168384433	-1.928877417	
IL1R2	0.251706345	0.168386534	1.928804677	
TXNL1	0.251688156	0.168416266	1.928655865	
CHUK	0.251661973	0.168421137	1.928441662	
C4orf7	-0.251665154	0.168421137	-1.928467683	

GCHFR	-0.251675912	0.168421137	-1.9285557	
PLEKHO1	-0.251644901	0.16842473	-1.928302002	
ZNF43	0.251644406	0.16842473	1.928297949	
FLJ40194	-0.251580954	0.168589013	-1.927778872	
LIX1	-0.2515452	0.168635655	-1.927486396	
NPC1L1	-0.251541625	0.168635655	-1.92745715	
RLF	0.251540737	0.168635655	1.927449881	
BPNT1	0.251508547	0.16868277	1.927186569	
USP50	-0.251508544	0.16868277	-1.927186541	
DOM3Z	-0.251488886	0.168716927	-1.927025742	
MKLN1	0.251453783	0.168772726	1.926738611	
FAM71F1	-0.251459739	0.168772726	-1.926787334	
COL6A1	-0.25141329	0.168844587	-1.926407398	yes
POLR2K	0.251420396	0.168844587	1.926465528	
GAPT	-0.251391545	0.168884985	-1.926229547	
CSRP2BP	0.251329927	0.169044134	1.925725573	
COL4A1	-0.251264834	0.169148605	-1.925193209	yes
IGJ	-0.251262183	0.169148605	-1.925171524	
MMS19	0.251268225	0.169148605	1.925220938	
UBE2M	-0.251265734	0.169148605	-1.925200569	
PSMD5	0.251248744	0.16916431	1.925061621	
CENPL	0.25122734	0.169203762	1.924886568	
HNRNPR	0.251182985	0.16922658	1.924523843	
PAIP1	-0.251162537	0.16922658	-1.924356617	
TMEM30B	0.251179536	0.16922658	1.924495638	
HSD17B3	0.251191949	0.16922658	1.924597146	
LOC388906	-0.251165639	0.16922658	-1.924381984	
PAX4	-0.2511706	0.16922658	-1.92442256	
RP1L1	-0.251185197	0.16922658	-1.924541929	
EBNA1BP2	0.251136489	0.169279895	1.924143613	
CRKRS	0.251100451	0.169363014	1.923848913	
OR6C6	-0.251060752	0.169432123	-1.92352429	
REG3A	-0.251040389	0.169432123	-1.923357785	

LINS1	0.251040714	0.169432123	1.923360445	
MMP20	-0.251036488	0.169432123	-1.923325888	
HNRPDL	0.251049651	0.169432123	1.923433522	
SYT6	-0.251016905	0.169466209	-1.923165762	
MTPN	0.250949974	0.169601885	1.922618498	
OLFML2B	-0.250944996	0.169601885	-1.922577795	
GFAP	-0.250938818	0.169601885	-1.922527289	
SLC35D3	-0.250958386	0.169601885	-1.922687281	
CACNG3	-0.250893268	0.169696431	-1.922154864	
ANXA2P3	-0.250882691	0.169696431	-1.922068391	
BMP5	-0.250885697	0.169696431	-1.922092965	
CBFA2T2	0.250872466	0.169702626	1.921984791	
SNORD115-33	-0.250849427	0.169747086	-1.921796432	
NFAT5	0.250816683	0.169747543	1.921528738	
POTED	-0.250827419	0.169747543	-1.921616505	
GAL	-0.250824098	0.169747543	-1.921589356	
ZNF33B	0.250819944	0.169747543	1.921555392	yes
CCDC56	0.250795278	0.169787141	1.921353738	
EXOC6B	0.250778211	0.169789466	1.921214214	
KRTAP5-11	-0.250783121	0.169789466	-1.92125436	
C6orf64	0.250754197	0.169836866	1.921017897	
ZFAND1	0.250724793	0.169900378	1.920777528	
CMBL	-0.250715615	0.169903474	-1.920702498	
IL1RAPL2	-0.250690585	0.169929615	-1.920497884	
GDAP1	0.25069165	0.169929615	1.920506596	
CLDN17	-0.250671561	0.16993782	-1.920342371	
KLK3	-0.25067875	0.16993782	-1.920401144	
SLC22A9	-0.250636307	0.169970217	-1.9200542	
C7orf53	0.250646402	0.169970217	1.920136717	
UBE2D1	0.250639715	0.169970217	1.920082054	
ABCC13	-0.250598168	0.170059887	-1.919742447	
GYS2	-0.250572577	0.170063442	-1.919533266	
SLC15A1	-0.250575958	0.170063442	-1.919560904	

HS6ST2	0.250573471	0.170063442	1.919540577
MGAT5B	-0.250517438	0.170115513	-1.919082587
AMDHD2	-0.250527971	0.170115513	-1.919168671
CAMK1G	-0.250527097	0.170115513	-1.919161531
BGLAP	-0.25052639	0.170115513	-1.919155749
TARBP1	0.250514504	0.170115513	1.919058604
hCG_2004198	-0.250466563	0.170118051	-1.918666765
PDCD10	0.250464593	0.170118051	1.918650665
LYPLAL1	0.25047529	0.170118051	1.918738093
EPGN	0.250448657	0.170118051	1.918520424
OR2J2	-0.250489034	0.170118051	-1.918850424
GPR27	-0.25045428	0.170118051	-1.918566376
SNORA52	-0.250497008	0.170118051	-1.918915601
CAMKK1	-0.250497107	0.170118051	-1.918916407
C11orf84	-0.250391095	0.170265866	-1.918049981
ZNF749	0.250372547	0.170276154	1.917898393
C16orf48	-0.250371414	0.170276154	-1.917889136
LOC643406	-0.250352608	0.170308118	-1.917735442
UBLCP1	0.250304353	0.170403905	1.917341093
TUBB4Q	-0.250312175	0.170403905	-1.917405016
C1QTNF4	-0.250250181	0.17051246	-1.916898414
C14orf37	-0.250257456	0.17051246	-1.916957859
BCCIP	0.250243731	0.17051246	1.916845701
PLCG1	-0.250222041	0.170553096	-1.916668464
SAMD11	-0.250206131	0.170576435	-1.916538454
TTC14	0.250173675	0.17064933	1.916273251
SPATA2L	-0.250119719	0.170734333	-1.915832368
CRYBB2	-0.250080355	0.170734333	-1.915510742
MMADHC	0.250122599	0.170734333	1.915855906
ANGPTL3	-0.250080181	0.170734333	-1.915509316
C2orf53	-0.250082405	0.170734333	-1.915527494
ARL1	0.250085222	0.170734333	1.915550509
MPZ	-0.250136587	0.170734333	-1.915970197

HMP19	-0.250065591	0.170734333	-1.915390113	
TUG1	0.250068599	0.170734333	1.915414691	
PIWIL2	-0.250064194	0.170734333	-1.915378693	
PLD1	0.250039094	0.170785246	1.915173617	
C17orf49	0.25001581	0.170830728	1.914983385	
KERA	-0.249993457	0.170873432	-1.914800755	
NEURL2	-0.249982163	0.17088299	-1.914708491	
HOXD9	-0.249964142	0.17091272	-1.914561255	
GNG11	-0.249934225	0.170953829	-1.914316841	
SLC46A3	0.249936945	0.170953829	1.914339065	
MEP1B	-0.249917455	0.170955531	-1.914179842	yes
ATP5A1	0.249918854	0.170955531	1.914191267	
SERPINF2	-0.249884261	0.171030776	-1.913908666	
SLC6A12	-0.249872802	0.171040852	-1.913815056	
ENGASE	-0.249848187	0.171090392	-1.913613969	
SP8	-0.24981221	0.171174034	-1.913320075	
HEATR5A	0.249793884	0.171180428	1.913170378	
NDUFC2	0.249796694	0.171180428	1.913193329	
SENP2	0.249768655	0.171207549	1.91296429	
RHBDL1	-0.249770619	0.171207549	-1.912980332	
NTSR2	-0.249756367	0.171220135	-1.912863913	
FLJ46300	-0.249693041	0.171370743	-1.912346658	
SLC33A1	0.249690009	0.171370743	1.912321892	
MN1	-0.249662339	0.171429539	-1.912095883	yes
RAB3GAP2	0.249624678	0.171455296	1.911788278	
OR56B1	-0.249621398	0.171455296	-1.911761491	
MCM5	0.24963603	0.171455296	1.911881	
RNF25	0.249635395	0.171455296	1.911875811	
ZCCHC11	0.249575808	0.171543658	1.911389134	
CECR2	-0.249581819	0.171543658	-1.911438229	
SORBS1	-0.249513215	0.171658859	-1.910877932	
GTF3C2	0.249517727	0.171658859	1.910914781	
NINJ1	-0.249524278	0.171658859	-1.910968282	

FAM171B	-0.249457187	0.171803022	-1.910420375
DFFA	0.249401747	0.171872511	1.909967627
C19orf30	-0.249405577	0.171872511	-1.909998904
FIBIN	-0.249424578	0.171872511	-1.910154074
IL33	0.249407727	0.171872511	1.910016463
STMN1	0.249390631	0.171881634	1.909876852
C6orf62	0.249363808	0.171938023	1.909657823
CIB3	-0.249312271	0.171979707	-1.909236982
C15orf58	0.249309554	0.171979707	1.909214793
MYL1	-0.249332011	0.171979707	-1.90939817
ANKRA2	0.249338576	0.171979707	1.909451782
PNMA6A	-0.249321698	0.171979707	-1.909313958
ALOX15B	-0.2492933	0.172004312	-1.909082077
DCLK2	-0.249243191	0.172082216	-1.908672919
ZNF793	0.249258102	0.172082216	1.908794674
QARS	0.249249003	0.172082216	1.908720376
UBR5	0.24922571	0.172104179	1.90853019
SNORD31	0.249219746	0.172104179	1.908481491
NAPB	0.249156046	0.172271727	1.907961399
IL17RD	-0.249141088	0.172281299	-1.907839277
NUF2	0.249136721	0.172281299	1.907803619
ACAN	-0.249030184	0.172553829	-1.906933844
ITM2A	-0.249037399	0.172553829	-1.906992742
ACTN3	-0.249017889	0.172566563	-1.906833475
LOC100133131	-0.249004776	0.172581771	-1.906726423
MAP3K8	0.248995728	0.172583262	1.906652558
MYST1	-0.248988139	0.172583262	-1.906590606
SKI	-0.248930491	0.172732886	-1.906120008
NFIX	-0.248911652	0.172765397	-1.905966224
RBM4B	0.24888243	0.172804899	1.905727696
NTNG2	-0.248884463	0.172804899	-1.90574429
RFFL	0.248858341	0.172828917	1.90553106
CA5A	-0.248859749	0.172828917	-1.905542557

RHBDD1	0.248829382	0.172892015	1.905294687	
LOC100133207	-0.248784286	0.172955652	-1.904926594	
ERCC5	0.248767992	0.172955652	1.904793607	
SNHG10	-0.248771796	0.172955652	-1.904824651	
ITGA5	-0.248771494	0.172955652	-1.904822185	
ATP5O	0.248773897	0.172955652	1.904841799	
OR1L3	-0.248742825	0.173007333	-1.904588197	
C1QL2	-0.248721946	0.173046067	-1.904417784	
ASB3	0.248707799	0.173064461	1.904302318	
APOBEC3B	0.248677189	0.173132625	1.904052493	
LOC100133420	-0.248655514	0.173173787	-1.903875602	
KCNA5	-0.248608415	0.173291867	-1.903491213	
SPSB2	-0.248569187	0.17338618	-1.903171083	
SNORD115-2	-0.248531619	0.173426709	-1.902864505	
C14orf178	-0.248539267	0.173426709	-1.902926916	
RALB	0.248538685	0.173426709	1.902922168	
PPM1E	-0.248509241	0.173441928	-1.902681894	
SULT1C2	-0.248500157	0.173441928	-1.902607765	
LOC729808	-0.248499134	0.173441928	-1.902599414	
MED23	0.248494366	0.173441928	1.902560505	
UBE2D2	0.248477513	0.173468562	1.902422981	
C15orf28	-0.248431322	0.173584037	-1.902046065	
TOE1	0.248409922	0.17360007	1.901871446	
GCK	-0.248416115	0.17360007	-1.901921981	
WFDC9	-0.248388676	0.173640032	-1.90169809	
FAM59B	-0.248358558	0.173706886	-1.901452345	
SEC23IP	0.248334005	0.173732496	1.901252008	yes
KRT33B	-0.248337155	0.173732496	-1.901277707	
STAG2	0.248280428	0.173870498	1.900814869	
UPK1A	-0.248226281	0.173961474	-1.9003731	
FSHB	-0.248239517	0.173961474	-1.90048109	
ATF7IP	0.248233584	0.173961474	1.900432683	
MKRN3	-0.248188026	0.174053114	-1.900061	

C9orf86	-0.248170455	0.174082012	-1.899917651	
SEP15	0.248158962	0.174092469	1.899823891	
OR4S2	-0.248100462	0.174206157	-1.899346661	
MLH3	0.248106969	0.174206157	1.899399742	
PROZ	-0.248097369	0.174206157	-1.899321429	
ANP32E	0.248087323	0.174212234	1.899239475	
KLK15	-0.248008795	0.174426331	-1.898598892	
PRKD1	-0.247978951	0.174492587	-1.898355453	
KLHL17	-0.247966091	0.174507225	-1.898250557	
MAGOH	0.2479153	0.174612746	1.89783627	
C10orf55	-0.247921717	0.174612746	-1.897888617	
BTRC	0.247907158	0.174613046	1.897769862	
TSPAN1	0.247836795	0.174631446	1.897195968	
KIAA2018	0.24787536	0.174631446	1.89751051	yes
GNS	0.247840546	0.174631446	1.897226557	
METTL2A	0.247842435	0.174631446	1.897241964	
TRGV5	-0.247846054	0.174631446	-1.897271484	
C8orf51	-0.247872095	0.174631446	-1.897483876	
SHARPIN	-0.247847248	0.174631446	-1.897281224	
ZNRF3	-0.247838628	0.174631446	-1.897210919	
SLCO5A1	-0.247812494	0.174680911	-1.896997772	
ABCF2	0.247795635	0.17470775	1.896860277	
RANBP6	0.247751102	0.174777839	1.896497083	
LOC442461	-0.247752967	0.174777839	-1.896512293	
KRTAP3-1	-0.247748496	0.174777839	-1.896475824	
MALL	0.24773671	0.17478926	1.896379705	
ERC2	-0.247728093	0.174791042	-1.896309432	
KCNJ10	-0.247707115	0.174806005	-1.896138357	
ACTN4	0.247708288	0.174806005	1.896147924	
DUSP26	-0.247666292	0.174905803	-1.895805442	
SETD7	0.247638866	0.174964852	1.895581786	
CSNK1A1L	-0.247605116	0.175043176	-1.895306568	
FAM43B	-0.247595903	0.175046785	-1.89523144	

NCOA2	0.247554553	0.17505051	1.894894265	
DTX3L	0.247576868	0.17505051	1.895076222	
GKN2	-0.24756011	0.17505051	-1.894939578	
ZNF607	0.247575993	0.17505051	1.895069088	yes
KIAA0586	0.247557474	0.17505051	1.894918078	
AAAS	-0.247540395	0.175067928	-1.894778821	
TTY12	-0.247532789	0.175067928	-1.894716795	
NMB	-0.247497759	0.175150189	-1.894431168	
SLC6A18	-0.247486364	0.17516047	-1.89433825	
C17orf55	-0.247473248	0.175175993	-1.89423131	
THAP8	-0.247372902	0.175359622	-1.893413161	
OXT	-0.247375006	0.175359622	-1.89343031	
MRPL50	0.24739017	0.175359622	1.893553942	
SCN1A	-0.247404538	0.175359622	-1.893671085	
CRIP1	0.247388415	0.175359622	1.893539634	
ZNF573	0.247361288	0.175363601	1.893318471	
DPYSL2	-0.247355565	0.175363601	-1.893271812	
MBTPS2	0.247340632	0.175384694	1.89315006	
NT5DC1	0.247331907	0.175386862	1.893078928	
FREM3	-0.247304645	0.175400567	-1.892856672	
PLAT	0.247315807	0.175400567	1.892947671	
DDX55	0.247303375	0.175400567	1.892846317	
MORF4	-0.247279866	0.175447817	-1.892654667	
ARRB2	-0.247265655	0.175466726	-1.892538812	
SNRNP70	-0.247192559	0.175640839	-1.89194293	
TCL1B	-0.247194868	0.175640839	-1.891961748	
C12orf5	0.247163812	0.175704131	1.891708592	
ZNF707	-0.247151517	0.175709323	-1.891608367	
WNT3	-0.247138088	0.175709323	-1.891498897	
GDAP1L1	-0.247139858	0.175709323	-1.891513324	
TGDS	0.247102035	0.175794944	1.891205016	
RP11-35F15.2	-0.247066559	0.175854384	-1.890915844	
MUT	0.247069509	0.175854384	1.89093989	

ANAPC4	0.247046366	0.175891609	1.890751253
PLD4	-0.247029577	0.17590094	-1.890614414
LHB	-0.247027303	0.17590094	-1.890595878
ZBTB33	0.246998291	0.175965122	1.890359406
CRLF3	0.246982165	0.175989941	1.890227975
ZSWIM1	0.246965445	0.176016582	1.8900917
ANO5	-0.24694596	0.176051677	-1.88993289
MAGEA8	-0.246916372	0.176095777	-1.889691744
RPS16	0.246915532	0.176095777	1.889684895
LOC100129624	-0.246811383	0.176166139	-1.888836114
COPS6	0.246810246	0.176166139	1.888826847
LHX8	-0.246784325	0.176166139	-1.888615606
MYO3A	0.246866926	0.176166139	1.88928876
SLC39A9	0.246833603	0.176166139	1.889017191
ZNF302	0.246796927	0.176166139	1.888718303
SNORA51	-0.246766599	0.176166139	-1.888471159
SUV39H1	0.246805245	0.176166139	1.888786089
THBS3	-0.246824604	0.176166139	-1.888943859
TIE1	-0.246814336	0.176166139	-1.888860176
TRAPPC10	0.246771583	0.176166139	1.888511768
NPHS2	-0.246839864	0.176166139	-1.889068216
SCRN3	0.246780014	0.176166139	1.888580472
TEX101	-0.246836462	0.176166139	-1.889040492
SOAT2	-0.246826179	0.176166139	-1.888956689
TM4SF5	-0.246764632	0.176166139	-1.888455124
NME2	-0.246734452	0.176233979	-1.888209193
PDCD11	0.246706207	0.176295926	1.887979025
GABRA4	-0.246697488	0.176298171	-1.887907979
PRND	-0.246675412	0.17633208	-1.887728088
COX5A	0.246670432	0.17633208	1.887687515
PRPS1L1	-0.246591299	0.176533634	-1.887042717
MCOLN2	-0.246588589	0.176533634	-1.887020637
GRID2	-0.246539085	0.176611875	-1.886617291

PACSIN1	-0.246541989	0.176611875	-1.886640954	
GLTSCR1	-0.246551115	0.176611875	-1.886715305	
LOC100129503	-0.246437134	0.17685581	-1.885786667	
KLKBL4	-0.246443623	0.17685581	-1.885839531	
BAT4	-0.24643551	0.17685581	-1.885773436	
SIGLEC16	-0.24642402	0.176866569	-1.885679823	
ZNF488	-0.246389421	0.176948167	-1.885397957	
FHL5	-0.246367836	0.176989885	-1.88522211	
OR52B2	-0.246354756	0.17700553	-1.885115553	
LPA	-0.246307591	0.177125727	-1.884731337	
C19orf23	-0.246277603	0.177168785	-1.884487053	
GPR132	-0.246283038	0.177168785	-1.884531324	
TMEM132D	-0.246267911	0.17717405	-1.884408101	
GRID1	-0.246232181	0.177259232	-1.884117047	
GCAT	-0.24621814	0.177266333	-1.884002676	
TSSK6	-0.246213917	0.177266333	-1.883968279	
ARIH1	0.246194154	0.177302524	1.883807299	
RAB3IL1	-0.246176612	0.177331901	-1.883664412	
PGCP	-0.24613574	0.177398368	-1.883331505	
ROBO4	-0.24613105	0.177398368	-1.883293304	yes
ZP3	-0.246137686	0.177398368	-1.883347351	
HNRNPA0	0.24611738	0.17741587	1.883181965	
LOC100131928	-0.246069129	0.177539612	-1.882788971	
TYR	-0.245972279	0.177812883	-1.882000191	
CNBP	0.245961897	0.177820298	1.881915642	
SNRNP200	0.245949033	0.177833279	1.881810877	
OR6W1P	-0.245941737	0.177833279	-1.881751461	
BATF3	-0.245899432	0.177865378	-1.881406942	
WNK1	0.245900143	0.177865378	1.881412735	
NAT11	0.245918168	0.177865378	1.881559524	
RG9MTD2	0.245907117	0.177865378	1.881469529	
MCPH1	0.245885021	0.177885206	1.881289591	
EIF2AK4	0.245861386	0.177919347	1.881097118	

SRP19	-0.245857996	0.177919347	-1.881069513
CHEK2	0.245813746	0.177958141	1.880709181
SSPO	-0.245813539	0.177958141	-1.880707496
ANK1	-0.245826036	0.177958141	-1.880809255
ZNF91	0.24581968	0.177958141	1.880757504
DNAJB12	-0.245784692	0.178022423	-1.880472597
ACCN4	-0.245753172	0.178094954	-1.880215938
SERPINA12	-0.245723573	0.17811257	-1.87997493
HNRNPA2B1	0.245728021	0.17811257	1.880011145
RAB1A	0.245730146	0.17811257	1.880028447
DAB2	-0.245710128	0.178129466	-1.879865456
PDIA6	0.245660398	0.178159311	1.879460544
ADORA3	-0.245672015	0.178159311	-1.879555129
PPIC	0.245652707	0.178159311	1.879397928
TMEM72	-0.245672951	0.178159311	-1.87956275
C21orf2	-0.245659189	0.178159311	-1.879450697
CAMK1	-0.245669718	0.178159311	-1.879536427
LOC119358	-0.245638289	0.178164691	-1.879280536
STAU2	0.245635057	0.178164691	1.879254222
KEAP1	0.245618815	0.178190222	1.879121984
JMJD6	-0.245591591	0.178249581	-1.878900334
ZBTB26	0.245566599	0.17830208	1.878696859
LOC100129876	-0.245515505	0.178435031	-1.878280895
DNAJC15	0.245485463	0.178491592	1.878036321
LOC401397	0.24548126	0.178491592	1.878002106
NTN3	-0.245471099	0.178498417	-1.877919384
DRD5	-0.245421472	0.178553432	-1.877515393
ZNF821	-0.245424067	0.178553432	-1.877536515
C2orf3	0.245427085	0.178553432	1.877561085
WDR25	-0.245439687	0.178553432	-1.877663673
HOXD3	-0.245401969	0.17857464	-1.877356628
FOXL2	-0.245398707	0.17857464	-1.877330075
MGEA5	0.245368132	0.178608248	1.877081183

ANAPC13	0.245363984	0.178608248	1.877047419
NMD3	0.245369369	0.178608248	1.877091254
SCARNA23	-0.245353007	0.178617614	-1.876958065
LOC391764	-0.245308723	0.178729721	-1.876597598
RAB31	0.24524682	0.178837173	1.876093731
CYP11A1	-0.245242149	0.178837173	-1.876055714
EXOSC4	-0.245246232	0.178837173	-1.876088947
PCSK4	-0.245248527	0.178837173	-1.876107632
RORB	-0.24521494	0.178896661	-1.875834259
FASLG	-0.245196639	0.178904159	-1.875685305
FTHL17	-0.245202662	0.178904159	-1.875734319
LSM5	0.245177824	0.178937751	1.875532167
ZNF785	-0.245094757	0.17909629	-1.874856111
RTTN	0.24511034	0.17909629	1.874982936
RNF112	-0.245099362	0.17909629	-1.874893588
UMODL1	-0.245098261	0.17909629	-1.874884631
PTH2	-0.245070108	0.179123432	-1.874655512
C3orf44	-0.245070979	0.179123432	-1.874662598
ZDHHC19	-0.245060746	0.179127855	-1.87457932
CYP4F8	-0.245044867	0.179152415	-1.874450095
BRUNOL6	-0.245028182	0.179179469	-1.874314315
HES2	-0.245014916	0.179195965	-1.874206351
FGF22	-0.244953824	0.179360312	-1.873709205
TLR9	-0.244927191	0.17939364	-1.87349248
TRMT12	0.244930757	0.17939364	1.873521502
GPSM1	-0.244893195	0.179449755	-1.87321585
FLVCR2	-0.244899928	0.179449755	-1.873270634
KAT2B	-0.244867299	0.17950535	-1.873005132
ASF1A	0.244849952	0.179534503	1.872863979
QSER1	0.244782909	0.179717505	1.872318475
CSRP1	-0.244770455	0.179731528	-1.872217149
ALDH3B2	0.244752742	0.179761844	1.872073028
HTR1A	-0.244719762	0.179814912	-1.871804695

SLC7A5	0.244726813	0.179814912	1.87186207
S100PBP	0.244654204	0.17999352	1.87127133
LSMD1	-0.244625503	0.180057941	-1.871037835
GJD3	-0.244564766	0.180199451	-1.870543723
MYF6	-0.244564035	0.180199451	-1.870537782
MCTS1	0.24454011	0.180249107	1.870343152
CPA5	-0.244515213	0.18030179	-1.870140622
GNAT1	-0.244483503	0.180326457	-1.869882673
ART1	-0.244491127	0.180326457	-1.869944689
DBNDD2	-0.244491165	0.180326457	-1.869944992
SEP6	-0.244474122	0.180330995	-1.86980636
LEFTY2	-0.244455044	0.180365634	-1.869651175
NDC80	0.244418349	0.180451994	1.869352684
KLHL1	-0.244409002	0.180451994	-1.86927666
HIST1H4B	-0.244403478	0.180451994	-1.869231723
TRUB2	0.244321487	0.18058374	1.868564829
GPR1	-0.244336359	0.18058374	-1.868685792
FAM20C	-0.244327674	0.18058374	-1.868615152
RPS13	0.244321946	0.18058374	1.868568568
HIP1R	-0.244323596	0.18058374	-1.868581981
PDZD7	-0.244303336	0.180615547	-1.868417202
KRT80	0.244280092	0.180663188	1.868228153
RHCG	0.24423019	0.180788672	1.867822292
VASH2	-0.2442239	0.180788672	-1.867771138
ZCCHC9	0.244188421	0.1808744	1.867482597
PAQR8	0.244116388	0.181073926	1.866896794
ZBTB2	0.244093354	0.181121004	1.866709478
C6orf15	-0.244063791	0.181165913	-1.866469076
C6orf153	0.244063108	0.181165913	1.866463523
EGFLAM	-0.244031354	0.181211906	-1.866205304
GBX1	-0.244033781	0.181211906	-1.866225037
SULT2B1	0.24402461	0.181211906	1.866150469
MED29	-0.244006836	0.181242633	-1.866005937

C15orf43	-0.243988417	0.181250745	-1.865856165
HNRNPC	0.243990315	0.181250745	1.865871599
LOC729603	0.243976178	0.181264242	1.865756644
FAM82A1	0.243901574	0.181426583	1.86515003
LRRC10	-0.24390818	0.181426583	-1.865203746
RAD51C	0.24390036	0.181426583	1.865140161
LMTK3	-0.243891683	0.181428993	-1.865069609
LOC100132564	-0.243857973	0.181509437	-1.864795526
CYB561	-0.243845587	0.181523413	-1.864694823
CBFA2T3	-0.243836825	0.181526094	-1.86462358
RP5-1022P6.2	0.24382478	0.181539012	1.86452565
RNF175	0.24379982	0.181592206	1.864322719
TSSC4	-0.243781345	0.181600549	-1.864172513
KLHDC6	-0.243785894	0.181600549	-1.864209497
ANKRD9	-0.243756455	0.181653539	-1.863970161
PPID	0.243738893	0.181683683	1.863827382
ELK1	-0.243631746	0.181944193	-1.862956339
AMELY	-0.243641454	0.181944193	-1.863035253
UTP11L	0.243631732	0.181944193	1.862956224
C9orf40	-0.243593248	0.182039725	-1.86264339
UNQ9391	-0.24357113	0.182064426	-1.862463596
IRF2	0.243553757	0.182064426	1.862322371
TNFAIP8L3	-0.24355467	0.182064426	-1.862329793
RPL3L	-0.243561862	0.182064426	-1.862388258
NANOS2	-0.24353553	0.182072045	-1.862174214
PAFAH1B2	0.243535902	0.182072045	1.862177238
RNASEH2B	0.24352568	0.182078159	1.862094148
BMF	-0.24351666	0.182081685	-1.862020827
SLC22A25	-0.243495558	0.182118938	-1.861849304
ST8SIA3	-0.243488954	0.182118938	-1.861795624
NLRP9	-0.243466431	0.182164659	-1.861612557
CORO1C	0.243457467	0.182168016	1.8615397
HYAL1	-0.24344162	0.18216824	-1.861410892

HERV-FRD	-0.243443863	0.18216824	-1.861429128	
ACVRL1	-0.243431779	0.182174346	-1.861330906	yes
KRTAP11-1	-0.243410678	0.18218863	-1.861159402	
KCNC1	-0.243395669	0.18218863	-1.861037414	
NPY2R	-0.24340104	0.18218863	-1.86108107	
NSF	0.243397685	0.18218863	1.861053803	
OR8I2	-0.243384931	0.182197551	-1.86095014	
KIAA1383	-0.243375535	0.182202284	-1.860873771	
MSC	-0.243353943	0.182245125	-1.860698286	
CPT1C	-0.243342381	0.182256631	-1.860604314	
FOXI2	-0.24331362	0.182321893	-1.86037057	
MAT2B	0.243264229	0.182451686	1.859969171	
DIP2C	-0.243228385	0.182489865	-1.859677877	
TAS2R1	-0.24323893	0.182489865	-1.859763576	
RPLP0	0.24323328	0.182489865	1.859717658	
LOC100128233	-0.243162428	0.182671595	-1.859141888	
MORF4L1	-0.243129087	0.182728303	-1.858870954	
PIGR	-0.243128557	0.182728303	-1.858866653	
C21orf99	-0.243103944	0.182780706	-1.85866665	
DENND4A	0.243088712	0.182803739	1.85854288	
FAM129A	-0.243077802	0.182813241	-1.858454226	
DSG1	-0.24304079	0.182904507	-1.858153483	
PLCL2	-0.243030947	0.182910672	-1.858073506	
ABRA	-0.242976368	0.183044874	-1.85763004	
RTP2	-0.242972373	0.183044874	-1.857597585	
OR8J1	-0.2429274	0.18314712	-1.857232185	
PROC	-0.242924013	0.18314712	-1.857204669	
EDN1	-0.242914534	0.183152157	-1.857127651	yes
GABRR2	-0.242890476	0.18318062	-1.856932195	
GOLPH3L	0.242889713	0.18318062	1.856926	yes
LOC340096	-0.242881726	0.183180984	-1.85686111	
LOC100131508	-0.24285286	0.183195116	-1.856626591	
MFSD3	-0.242835527	0.183195116	-1.856485776	

ICAM1	-0.242837984	0.183195116	-1.856505733
SH2D5	-0.242831578	0.183195116	-1.856453688
MEF2A	0.242830013	0.183195116	1.856440977
BAT1	0.242854397	0.183195116	1.856639078
LOC375337	-0.24279995	0.18326473	-1.856196744
NAT2	-0.242785986	0.18328386	-1.856083305
IQCJ	-0.242760466	0.183289915	-1.855875985
COQ10B	0.242761272	0.183289915	1.855882534
NRG2	-0.242768221	0.183289915	-1.85593899
CMA1	-0.242691808	0.183480677	-1.855318248
OR5B17	-0.242678649	0.183497301	-1.855211362
LOC339742	-0.242639768	0.183570008	-1.854895527
DNAJC30	-0.242643323	0.183570008	-1.854924401
CHI3L1	-0.242622587	0.183582715	-1.854755973
DKFZp434E1119	-0.242620001	0.183582715	-1.854734963
RHOG	-0.242598923	0.183624225	-1.854563753
EP400NL	-0.242575756	0.183633057	-1.854375583
LOC642864	-0.24258752	0.183633057	-1.854471133
OR1G1	-0.242572537	0.183633057	-1.854349434
LOC441795	-0.242558729	0.183651749	-1.85423728
KIAA0746	0.242549375	0.183656454	1.854161306
WSB2	0.242524979	0.183708409	1.85396315
NGLY1	0.242489242	0.183796004	1.853672899
RPL7A	-0.242440002	0.183926081	-1.853272981
DOCK2	-0.242409701	0.183947274	-1.853026886
KIF13B	0.242422854	0.183947274	1.853133712
PPPDE1	0.24241436	0.183947274	1.85306473
FBXL7	0.24237832	0.184008973	1.852772037
BCL9L	-0.242368775	0.184008973	-1.852694518
PMEPA1	-0.242358673	0.184008973	-1.852612479
RP1-27O5.1	-0.242359426	0.184008973	-1.852618594
OR8K3	-0.242330048	0.184074309	-1.852380014
MED19	-0.242283282	0.184196742	-1.852000239

CD226	-0.242227869	0.184247644	-1.851550257
OSTbeta	-0.242252092	0.184247644	-1.85174696
KCNJ13	-0.242237026	0.184247644	-1.851624618
LOC392364	-0.242248944	0.184247644	-1.851721397
RBBP6	0.242230376	0.184247644	1.851570612
CLDN15	-0.242203633	0.184274539	-1.851353457
SMARCA5	0.242204558	0.184274539	1.851360967
KHDRBS3	0.242163556	0.184376006	1.851028031
PCP4L1	0.242147548	0.184401713	1.850898047
CHST8	-0.242135994	0.184413397	-1.850804233
C8B	-0.242102636	0.184493755	-1.850533379
C1orf161	-0.242058626	0.184539158	-1.850176041
KIF2A	0.242055737	0.184539158	1.850152591
PRMT8	-0.242053461	0.184539158	-1.850134105
BRCA1	0.242049018	0.184539158	1.850098034
CA3	-0.242065113	0.184539158	-1.850228714
NEUROD2	-0.242011997	0.184631103	-1.84979746
LOC100128374	-0.241952027	0.184649427	-1.849310574
S100Z	-0.241983314	0.184649427	-1.849564586
LCLAT1	0.241946819	0.184649427	1.849268295
TLX1	-0.241958862	0.184649427	-1.849366068
HTR5A	-0.241957437	0.184649427	-1.849354498
FANCL	0.241972697	0.184649427	1.849478392
ZNF574	0.241943496	0.184649427	1.84924132
VGf	-0.241956329	0.184649427	-1.849345506
C17orf80	0.241934469	0.184653193	1.84916803
PDIA5	-0.241899995	0.184737151	-1.848888164
BAIAP2L2	-0.241850558	0.184868324	-1.848486828
CELSR1	0.241824194	0.184926774	1.848272809
GP9	-0.24180987	0.184947255	-1.848156531
CCDC38	-0.24175926	0.185035507	-1.847745701
DMXL1	0.241758408	0.185035507	1.847738787
GPR142	-0.241769664	0.185035507	-1.847830154

PIGS	0.241737113	0.185078	1.847565934
KIF4A	0.241724773	0.18509224	1.847465766
GIP	-0.241645242	0.185293916	-1.846820221
GATC	0.241647901	0.185293916	1.846841802
CNOT10	0.241631775	0.185311729	1.846710916
SUZ12	0.241560832	0.185486434	1.846135119
RNF114	0.241565486	0.185486434	1.84617289
SNX20	-0.241507109	0.185592763	-1.845699104
C20orf141	-0.241508408	0.185592763	-1.845709644
NMS	-0.241503722	0.185592763	-1.845671615
NUDT16L1	-0.241448798	0.185741741	-1.845225877
TUBB3	-0.241426598	0.18574439	-1.845045714
C21orf90	-0.241410252	0.18574439	-1.844913059
COL16A1	-0.241429313	0.18574439	-1.845067749
ZFR	0.241408842	0.18574439	1.844901617
RPA3	-0.241414363	0.18574439	-1.844946424
LHFPL5	-0.241354376	0.185867244	-1.844459629
ATXN3	0.241359611	0.185867244	1.844502111
DEFB137	-0.241340649	0.185885939	-1.844348236
THRA	-0.241331203	0.185891085	-1.844271584
RPA1	0.241297572	0.185948045	1.843998683
MED30	-0.24129899	0.185948045	-1.844010193
LY6K	-0.241280072	0.185978699	-1.843856679
KLC3	-0.24126222	0.186010472	-1.843711825
ZNF783	-0.241236007	0.18606873	-1.843499132
SNORD114-6	-0.24122649	0.186074117	-1.843421905
PSMB6	0.241209546	0.186103031	1.84328442
CSMD3	-0.241160913	0.186223533	-1.842889829
SERPIND1	-0.241152152	0.186223533	-1.84281874
RPL13P12	-0.241135673	0.186223533	-1.842685042
C6orf100	-0.241137147	0.186223533	-1.842696999
FMNL3	-0.241124628	0.186223533	-1.842595432
NCR1	-0.241130298	0.186223533	-1.842641433

ASB8	0.241105866	0.186258236	1.842443206
EIF4A2	0.241065882	0.186335455	1.842118811
ZBTB10	-0.241066509	0.186335455	-1.842123898
HOXA10	-0.241050054	0.186360873	-1.841990401
NDUFB6	0.241015599	0.186445362	1.841710871
SLC2A4	-0.240993015	0.186492222	-1.841527655
EMX2	-0.240984564	0.18649426	-1.841459095
LRRC45	-0.24092175	0.186668791	-1.84094953
ILKAP	0.240900997	0.186709883	1.840781176
LOC389895	-0.240874374	0.186761519	-1.840565212
ATP6VOC	0.240869117	0.186761519	1.840522571
PHTF2	0.240857291	0.186774282	1.840426639
PODN	-0.240823848	0.186781416	-1.840155361
HNF4G	0.240843992	0.186781416	1.840318764
MLH1	0.240835487	0.186781416	1.840249772
PKHD1	-0.240823824	0.186781416	-1.840155169
ZNF787	-0.24080693	0.186810283	-1.840018129
hCG_1993592	-0.240763355	0.186899111	-1.839664682
USP45	0.240766941	0.186899111	1.839693771
FAM182A	-0.240748847	0.186905419	-1.839547006
LOC645877	-0.240745767	0.186905419	-1.839522025
ZNF653	-0.240642889	0.186974188	-1.838687611
OR4L1	-0.240697256	0.186974188	-1.839128559
FAM78B	-0.240652862	0.186974188	-1.838768501
TMEM161B	0.240645443	0.186974188	1.838708327
SLC10A4	-0.240711821	0.186974188	-1.839246693
MDN1	0.240635279	0.186974188	1.838625888
SNORD32A	-0.240630569	0.186974188	-1.838587689
MAP1LC3C	-0.240676401	0.186974188	-1.838959408
NAP1L1	0.240675186	0.186974188	1.838949558
OR3A1	-0.240650164	0.186974188	-1.838746619
WFS1	-0.240698985	0.186974188	-1.839142579
DLGAP2	-0.240661185	0.186974188	-1.838835998

SEZ6L	-0.240614852	0.186998349	-1.838460227
ICAM2	-0.240607381	0.186998349	-1.838399635
LENG9	-0.240595526	0.187011266	-1.838303483
ANKRD54	-0.240546636	0.187141852	-1.837906991
UCN	-0.24052589	0.187183032	-1.83773875
PWWP2B	-0.240485735	0.187261171	-1.837413105
ALOX5AP	-0.240492818	0.187261171	-1.837470549
SLU7	0.240463143	0.187308244	1.8372299
FAM180B	-0.240453357	0.187314601	-1.837150545
SPACA3	-0.240440735	0.187329979	-1.837048191
SLC6A2	-0.240393835	0.187454398	-1.836667878
ERCC8	0.240360041	0.187512384	1.836393851
TGFBI	0.240366938	0.187512384	1.836449779
NPR3	-0.240350979	0.187516448	-1.836320375
RNF144B	0.240339999	0.187526621	1.83623134
NOXA1	-0.240292009	0.187536779	-1.83584222
TBC1D9	0.240277584	0.187536779	1.835725257
SNAI3	-0.240301897	0.187536779	-1.835922397
XKR8	-0.240325069	0.187536779	-1.836110283
ZNF444	-0.240286369	0.187536779	-1.835796489
PRDM15	-0.240276672	0.187536779	-1.835717865
GMCL1	0.240274566	0.187536779	1.835700791
DGKD	-0.240300189	0.187536779	-1.835908546
ARMC8	0.240257369	0.187551893	1.835561357
ZNF587	0.240254264	0.187551893	1.83553618
DNMT3B	-0.240244032	0.187559712	-1.835453217
USP15	0.240212221	0.187636202	1.835195302
FTCD	-0.240182199	0.187707023	-1.834951891
PNO1	0.240130861	0.187845754	1.834535673
C6orf195	-0.240114112	0.187874343	-1.83439989
ATP5L	0.240097037	0.187903977	1.83426146
CTSZ	-0.240086501	0.187912781	-1.834176043
CNIH4	0.240049232	0.188006774	1.833873916

DPY30	0.240020804	0.188072618	1.83364346	yes
AHNAK	0.23999153	0.188141177	1.83340615	
LEO1	0.23995509	0.188197966	1.833110755	
TMEM155	-0.23995041	0.188197966	-1.83307282	
ANGPT4	-0.239959569	0.188197966	-1.833147063	
TM9SF3	0.239940228	0.188205659	1.832990285	
FBXO25	0.23992807	0.188219656	1.832891737	
DCTN6	0.239905294	0.18826753	1.83270711	
SYNPO2	-0.239865209	0.188350045	-1.832382192	
NDUFV2	0.239859028	0.188350045	1.832332095	
HNRPLL	0.239856129	0.188350045	1.832308598	
OSCAR	-0.239831818	0.188353283	-1.832111547	
RP11-167P23.2	-0.239835257	0.188353283	-1.832139419	
LIPN	-0.239833493	0.188353283	-1.832125119	
TIMM8A	0.239817782	0.188355911	1.831997778	
RAB2A	0.239815468	0.188355911	1.831979023	
CUL4B	0.239744217	0.188558561	1.831401531	
MYO15A	-0.239696953	0.188684729	-1.831018472	
FNDC3B	-0.239678988	0.188717324	-1.830872873	
CRHR1	-0.239654057	0.188772185	-1.830670827	
RTP1	-0.239638444	0.188772821	-1.830544293	
TSNAX	0.239638334	0.188772821	1.830543402	
SLC5A9	-0.239611804	0.188832809	-1.8303284	
KIFC2	-0.239592407	0.188870005	-1.830171213	
SOX3	-0.23954079	0.189010249	-1.829752919	
TIMM17A	0.239514424	0.189020125	1.82953926	
MEGF9	0.239518185	0.189020125	1.829569741	
ACO2	0.239518724	0.189020125	1.829574112	
DUSP7	0.239483267	0.189094978	1.829286787	
GALNT3	0.239474026	0.189099722	1.829211909	
TMEM174	-0.239452691	0.18911835	-1.829039024	
RNF152	-0.239454581	0.18911835	-1.829054341	
CPNE6	-0.239390301	0.189293213	-1.828533491	

MBNL3	0.239343127	0.189419451	1.828151265
PDSS2	0.239287961	0.189571368	1.827704298
ATP6V1G2	-0.239256168	0.189648423	-1.827446715
C10orf78	0.239239711	0.18965145	1.827313384
RILPL2	-0.239244898	0.18965145	-1.827355412
MRPL54	-0.239135166	0.189787807	-1.826466426
SLC16A10	-0.239186609	0.189787807	-1.82688318
KIAA0240	0.239135685	0.189787807	1.826470628
MTO1	0.239145721	0.189787807	1.826551935
CALB1	-0.239154899	0.189787807	-1.82662629
MS4A14	-0.239151583	0.189787807	-1.826599422
CHRD1	-0.239150235	0.189787807	-1.826588505
KIAA0753	0.239163648	0.189787807	1.826697167
STH	-0.239121537	0.189806015	-1.826356017
LOC283392	-0.23911399	0.189806015	-1.82629488
SERPINA10	-0.239104842	0.189810504	-1.826220773
SRRM1	-0.239075906	0.18987847	-1.825986371
GBE1	0.23904605	0.189949409	1.825744516
GDF2	-0.239014115	0.189973949	-1.825485826
MYEF2	-0.239018903	0.189973949	-1.825524612
VGLL1	-0.238990693	0.189973949	-1.825296109
C15orf39	-0.238996247	0.189973949	-1.825341095
LOC649445	-0.23900953	0.189973949	-1.825448692
SLC19A3	-0.238976447	0.189973949	-1.825180713
KIRREL3	-0.238988986	0.189973949	-1.825282282
HIRIP3	-0.238982886	0.189973949	-1.825232871
PHF5A	-0.238966761	0.18998019	-1.825102255
CAPN11	-0.238958569	0.189981641	-1.825035898
C9orf103	-0.238941496	0.189986757	-1.824897612
CXCR7	0.238943029	0.189986757	1.824910023
TRDN	-0.238864008	0.190040378	-1.824269982
TMEM54	0.238879466	0.190040378	1.824395189
GPR137C	-0.238912148	0.190040378	-1.824659893

APOC4	-0.238873345	0.190040378	-1.824345609	
TRNT1	0.238862903	0.190040378	1.824261032	
CEP27	0.238907108	0.190040378	1.824619073	
SST	-0.23887988	0.190040378	-1.824398542	
FAM103A1	0.238885595	0.190040378	1.824444831	
SEMA6B	-0.238711759	0.190079186	-1.82303693	yes
SLC5A11	-0.238692008	0.190079186	-1.822876981	
SHROOM1	-0.238819551	0.190079186	-1.823909918	
PAQR7	0.238774882	0.190079186	1.823548146	
DPEP1	-0.238746386	0.190079186	-1.823317359	
GJA8	-0.238693252	0.190079186	-1.822887051	
C3orf56	-0.23882168	0.190079186	-1.823927156	
QRFP	-0.238731667	0.190079186	-1.82319816	
LCP2	-0.238746234	0.190079186	-1.823316126	
C14orf181	-0.238803991	0.190079186	-1.82378389	
MDH2	0.238834452	0.190079186	1.824030601	
MYO7B	-0.238717489	0.190079186	-1.823083337	yes
NDUFB8	0.238688602	0.190079186	1.822849398	
PMS2L5	0.238706373	0.190079186	1.822993311	
CT47.13	-0.238772915	0.190079186	-1.823532216	
TCEB1P3	-0.238801494	0.190079186	-1.823763671	
SLC13A1	-0.2387144	0.190079186	-1.823058317	
C3orf36	-0.238745839	0.190079186	-1.823312931	
UTF1	-0.238781809	0.190079186	-1.823604241	
AP1G2	0.238840881	0.190079186	1.824082671	
G3BP2	0.238782315	0.190079186	1.823608345	
OR4E2	-0.238677377	0.190084497	-1.822758492	
LOC84856	-0.238671516	0.190084497	-1.822711031	
CTNND2	-0.238652218	0.190121652	-1.822554754	
CD300C	-0.238569233	0.190183087	-1.82188275	
ZFP30	0.238538128	0.190183087	1.82163088	
CNIH2	-0.238532986	0.190183087	-1.821589243	
GPR32	-0.238597084	0.190183087	-1.822108282	

IFNAR2	0.238525147	0.190183087	1.82152577	
OR2L8	-0.238605749	0.190183087	-1.82217845	
NTSR1	-0.238598596	0.190183087	-1.822120525	
VPS29	0.238559501	0.190183087	1.821803948	
RCOR3	0.238609408	0.190183087	1.822208079	
TDP1	0.238573001	0.190183087	1.821913264	yes
ZFYVE28	-0.238589362	0.190183087	-1.822045752	
TWIST1	-0.238525751	0.190183087	-1.821530658	
YWHAE	0.238537546	0.190183087	1.821626167	yes
OR12D3	-0.238567031	0.190183087	-1.82186492	
COG5	0.23848549	0.190187605	1.821204661	
KRTAP5-10	-0.238508183	0.190187605	-1.821388408	
FBXO47	-0.238492358	0.190187605	-1.821260268	
SNORD101	0.238485233	0.190187605	1.821202578	
SNRPN	-0.238500991	0.190187605	-1.821330171	
RPL30P8	-0.238462992	0.190234245	-1.821022489	
TMEM30A	0.238447013	0.190236113	1.820893115	
RASSF4	-0.238448524	0.190236113	-1.820905344	
AARSD1	-0.238436383	0.190245523	-1.82080704	
IL1F10	-0.238425841	0.19025465	-1.820721687	
KHDC1	-0.238385998	0.190357777	-1.820399098	
MRPL1	0.23836446	0.190402197	1.820224716	
NEU4	-0.238326472	0.190426753	-1.819917158	
AFAP1L1	-0.238302959	0.190426753	-1.819726797	
TAF9B	0.238304519	0.190426753	1.819739426	
PSMB7	0.238304322	0.190426753	1.819737831	
NAT14	-0.238343273	0.190426753	-1.820053181	
RBBP7	0.238323323	0.190426753	1.819891664	
FKRP	-0.238321544	0.190426753	-1.819877263	
FBXO44	-0.238264842	0.19052441	-1.819418204	yes
IL4	-0.238237004	0.190564533	-1.819192844	
HIST1H3E	0.238236965	0.190564533	1.819192521	
GLIS1	-0.238216571	0.190605325	-1.819027427	

TK2	-0.238193338	0.190630556	-1.818839348	
JRKL	0.238196235	0.190630556	1.818862798	
RBM26	0.238184043	0.190635721	1.818764103	
C10orf90	-0.238171803	0.190636924	-1.818665016	
CD300LG	-0.238147402	0.190636924	-1.818467489	
OR8B12	-0.238167286	0.190636924	-1.81862845	
ANGPT1	-0.238145247	0.190636924	-1.818450046	
RESP18	-0.238148676	0.190636924	-1.818477799	
GAB4	-0.238127057	0.190646003	-1.818302795	
CST4	-0.238128348	0.190646003	-1.818313246	
BPTF	0.238105424	0.190666141	1.818127687	
WBP2	-0.238105612	0.190666141	-1.818129204	
ANP32B	0.238096961	0.190668659	1.818059179	
TSNARE1	-0.238087081	0.19067573	-1.8179792	
MAPT	-0.238070498	0.190704322	-1.817844971	
ACP1	0.238036335	0.190789383	1.817568437	
C11orf86	-0.238019408	0.190819095	-1.817431428	
KIAA0513	-0.237996911	0.190866708	-1.817249335	
CLEC9A	-0.237972389	0.19091738	-1.817050856	
SLC24A6	0.237965789	0.19091738	1.816997436	
TMEM93	0.237937595	0.190983325	1.816769237	
EHD1	-0.237912197	0.190994177	-1.816563676	
PSTK	0.237855512	0.190994177	1.816104901	
C12orf67	-0.23791923	0.190994177	-1.816620595	
PXT1	-0.237849842	0.190994177	-1.816059013	
KCNG2	-0.237860316	0.190994177	-1.816143784	
OBP2B	-0.237888252	0.190994177	-1.816369878	
ANKRD37	-0.237852079	0.190994177	-1.81607712	
RINT1	0.237880347	0.190994177	1.816305898	
SCN2B	-0.23788399	0.190994177	-1.816335384	
RPS11P5	0.237851622	0.190994177	1.816073424	
ZNF202	0.237890445	0.190994177	1.816387625	
LOC100133397	-0.237833852	0.191006366	-1.815929606	yes

EFNA1	0.237830718	0.191006366	1.815904239
CFB	-0.237804581	0.191060609	-1.815692715
SNORA55	-0.23779851	0.191060609	-1.815643586
FAM175A	0.237783382	0.191084602	1.815521156
OR2M5	-0.237752982	0.19110843	-1.815275142
C19orf25	-0.237757554	0.19110843	-1.815312141
FIG4	0.237757906	0.19110843	1.815314988
RICTOR	0.237685351	0.19127662	1.814727844
SRGN	-0.237691458	0.19127662	-1.814777264
EHMT1	0.237657705	0.191340907	1.814504131
C4orf39	-0.237647683	0.191348506	-1.814423031
ARHGAP10	-0.237639309	0.191350806	-1.814355268
KPNA1	0.237627521	0.191359606	1.814259881
SLC22A1	-0.237621256	0.191359606	-1.814209192
CSF3	-0.237574338	0.191485939	-1.813829548
SLC27A5	-0.23755524	0.191522763	-1.813675019
DEFB124	-0.23752612	0.191528206	-1.813439396
PNN	0.237522926	0.191528206	1.813413557
ESX1	-0.237528422	0.191528206	-1.813458022
RSPO3	-0.237540284	0.191528206	-1.813554001
RNASEN	0.237482099	0.191610359	1.81308322
RPL36P14	-0.237483167	0.191610359	-1.813091864
FAM19A3	-0.237464304	0.191643013	-1.812939247
ZNF443	0.237447495	0.191672497	1.812803252
GALP	-0.237418421	0.191716847	-1.812568024
CRLF1	-0.237423178	0.191716847	-1.812606504
ENO3	-0.237357273	0.191889205	-1.812073313
KRT16	0.237323339	0.191969387	1.811798785
LRRC37A4	0.237317096	0.191969387	1.811748276
KLHL25	-0.237291542	0.192027109	-1.811541553
PUS7L	0.237281149	0.192035954	1.811457475
SAP130	0.237245372	0.192126667	1.811168055
DMPK	-0.237218474	0.192188765	-1.810950463

RNF17	-0.237200498	0.192222084	-1.810805055
ZNF167	-0.237184669	0.192248482	-1.810677007
PSMD4	0.237174462	0.192256738	1.810594447
B3GNT1	-0.237133389	0.192364627	-1.81026221
ABCC12	-0.237121302	0.192378961	-1.810164437
ABHD3	0.236978694	0.192780405	1.809010984
SOHLH2	-0.236977547	0.192780405	-1.809001706
VPS53	0.236974114	0.192780405	1.808973947
C20orf106	-0.236964413	0.192787044	-1.808895487
GLCC1	0.236954117	0.192787106	1.808812213
EID2B	-0.236949101	0.192787106	-1.808771645
OR2Y1	-0.236914742	0.192848769	-1.808493762
ATOH1	-0.236915372	0.192848769	-1.808498858
NOXO1	-0.236897804	0.192878827	-1.808356778
SMPX	-0.236860629	0.192974357	-1.80805614
TUBAL3	-0.236820309	0.193080107	-1.807730065
PRPF8	0.236784411	0.193096571	1.80743977
FAM172B	0.236780891	0.193096571	1.807411303
CCDC59	0.236780458	0.193096571	1.807407806
KEL	-0.236772268	0.193096571	-1.807341572
LOC440934	-0.236776905	0.193096571	-1.807379068
NEUROG3	-0.236769369	0.193096571	-1.807318131
FOX1	-0.236758554	0.193106848	-1.807230678
RDH16	-0.236708932	0.193242771	-1.80682941
NKAIN1	-0.236648946	0.193412344	-1.806344367
SLAIN1	-0.236621086	0.193457537	-1.806119096
SLC24A2	-0.236619722	0.193457537	-1.806108069
GMEB1	0.236608415	0.193469428	1.80601664
YOD1	0.236596692	0.193482668	1.805921853
LRFN4	-0.236585672	0.19349363	-1.805832756
VASP	-0.236546862	0.193594689	-1.805518964
FOLR2	-0.236537637	0.193599839	-1.805444378
LILRB4	-0.236470813	0.193791825	-1.804904106

OR14K1	-0.236455249	0.193804922	-1.804778277
SHROOM3	-0.236451504	0.193804922	-1.804748002
NCRNA00094	-0.236434671	0.193833823	-1.804611909
KIFC1	0.236427328	0.193833823	1.804552549
SEP10	0.236385624	0.193919625	1.804215399
GPX6	-0.236387374	0.193919625	-1.804229543
BUB1	0.236373833	0.193933123	1.804120075
FDXACB1	0.236349854	0.193986192	1.803926225
AGTPBP1	0.236316488	0.194069757	1.803656499
C15orf29	0.236306458	0.194077545	1.803575418
ECE2	-0.236293624	0.194094442	-1.803471674
SLC35A1	0.236218104	0.194269884	1.802861208
APOOL	0.236191351	0.194269884	1.802644961
C6orf221	-0.23618622	0.194269884	-1.802603489
RLN2	-0.236192955	0.194269884	-1.802657926
CACNA1F	-0.236203972	0.194269884	-1.802746978
BRAP	0.236223976	0.194269884	1.802908671
DYRK3	-0.236213432	0.194269884	-1.802823444
LOC347411	-0.236176245	0.194277515	-1.802522862
MAN1B1	-0.236137107	0.19435515	-1.802206513
ZNF24	0.236141153	0.19435515	1.802239211
FMO6P	0.236114111	0.194381733	1.802020644
OR2A25	-0.236112356	0.194381733	-1.802006459
C3orf51	-0.236106056	0.194381733	-1.80195554
HOXD1	-0.236085222	0.194424683	-1.801787144
MACROD1	-0.236057542	0.194465113	-1.801563432
KBTBD4	0.236059044	0.194465113	1.801575564
ANO4	-0.236036874	0.194482756	-1.801396388
NOS1	0.236042679	0.194482756	1.801443302
MAP7D3	-0.235989334	0.19461259	-1.801012172
CPNE1	0.235976916	0.1946282	1.800911811
ZNF92	0.235926436	0.194767676	1.800503849
SLC39A12	-0.235901754	0.194823219	-1.800304388

WFDC11	-0.235885018	0.194852903	-1.800169133	
TDRD9	-0.235836665	0.194943221	-1.799778392	
PLD5	-0.23584263	0.194943221	-1.799826594	
RERGL	-0.235834427	0.194943221	-1.79976031	
RAX2	-0.23582068	0.194963187	-1.799649216	
FLJ43093	-0.235780514	0.19499479	-1.79932465	
C1orf112	0.235801471	0.19499479	1.799493997	
FCRL4	-0.235781628	0.19499479	-1.79933365	
ISG15	-0.235786438	0.19499479	-1.799372517	
MRPL22	0.235757154	0.195021279	1.79913589	
TATDN2	0.235761591	0.195021279	1.799171745	
SNORA37	-0.235744798	0.19503673	-1.799036049	
ANKAR	0.235698235	0.19508924	1.798659808	
NAGLU	-0.235699479	0.19508924	-1.798669858	
PCGF6	-0.235703949	0.19508924	-1.798705978	
RELT	-0.235710402	0.19508924	-1.798758124	
NDRG3	0.235662014	0.195182469	1.798367143	
KIAA1045	-0.235640607	0.195202639	-1.798194179	yes
FRMPD4	-0.235647751	0.195202639	-1.7982519	
SDCCAG10	0.235622606	0.195216549	1.798048741	
ARSF	-0.235620856	0.195216549	-1.798034601	
CASP5	-0.235613517	0.195216549	-1.7979753	
MDGA2	-0.235589091	0.195238019	-1.797777951	
VPS41	0.235584113	0.195238019	1.797737733	
NKX3-1	-0.235598909	0.195238019	-1.797857278	
GATA1	-0.23555272	0.195315559	-1.797484106	
C9orf7	-0.235491828	0.195481144	-1.796992154	
ZNF503	-0.235486736	0.195481144	-1.796951014	
ST8SIA1	-0.235472804	0.195501786	-1.796838468	
C9orf131	-0.235439278	0.195574236	-1.796567617	
OR2AE1	-0.235427791	0.195574236	-1.796474824	
TRIP11	0.235429235	0.195574236	1.796486487	
RWDD2B	0.235414349	0.195593294	1.796366233	

FGF23	-0.235377797	0.195687781	-1.796070959
DRAP1	-0.235355437	0.195735963	-1.795890333
CLPS	-0.235311391	0.195795887	-1.795534533
FLI1	-0.235321805	0.195795887	-1.795618651
SASH1	0.235306687	0.195795887	1.795496534
RRAGC	0.235326032	0.195795887	1.795652804
PNMA3	-0.235297614	0.195800702	-1.795423251
ALX3	-0.235195337	0.196110041	-1.79459712
ATG2B	0.235180805	0.196127983	1.794479747
DDX23	0.235174652	0.196127983	1.794430052
EXOSC10	0.235145447	0.196198636	1.794194161
DKK1	0.235117596	0.196243503	1.793969218
KRT26	-0.235116533	0.196243503	-1.793960638
NR2F2	-0.235096071	0.19626643	-1.793795377
C6orf114	0.235094332	0.19626643	1.79378133
SEMA6C	-0.235059512	0.196282513	-1.79350011
C6orf120	0.235059041	0.196282513	1.793496307
UBE2H	0.235066126	0.196282513	1.793553531
PRPF38A	0.235071316	0.196282513	1.793595442
RFT1	0.235033637	0.196340774	1.793291142
ZDHHC4	0.234995168	0.196410284	1.792980465
TUT1	-0.234994079	0.196410284	-1.792971675
CHD9	0.234989618	0.196410284	1.792935644
CCDC83	-0.234956149	0.196494971	-1.792665359
SLC2A7	-0.234885011	0.196605676	-1.792090896
SNORD33	-0.234877314	0.196605676	-1.792028742
LOC100133411	-0.2348768	0.196605676	-1.792024592
C16orf38	-0.23490035	0.196605676	-1.792214758
ANKRD10	0.234884472	0.196605676	1.792086542
TMEM88	-0.23488842	0.196605676	-1.792118422
LRTM1	-0.234851401	0.196663999	-1.791819494
SPRED2	0.234838457	0.196681547	1.791714968
CHCHD9	-0.234804943	0.196766467	-1.791444354

TSPYL1	0.234779824	0.196823908	1.791241531
C19orf24	-0.234759886	0.196864385	-1.791080541
LOC100131402	0.234720846	0.196942621	1.790765317
CLEC3A	-0.2347231	0.196942621	-1.790783517
SLC25A22	-0.234701418	0.196981445	-1.790608456
IL28B	-0.234668064	0.197041075	-1.790339157
FMN2	-0.234671599	0.197041075	-1.790367694
OR8U1	-0.234614343	0.197113242	-1.789905429
FSCN2	-0.234625476	0.197113242	-1.789995307
NAAA	-0.234620366	0.197113242	-1.789954058
TRBV28	-0.234608477	0.197113242	-1.789858067
PRF1	-0.234600574	0.197113242	-1.78979426
SYT4	-0.234604752	0.197113242	-1.789827995
IL12A	-0.234591475	0.197118228	-1.789720805
CEL	-0.234571568	0.197133815	-1.789560087
KANK2	-0.234576295	0.197133815	-1.789598246
TTC24	-0.234519753	0.197181071	-1.789141775
ARHGAP26	-0.23453389	0.197181071	-1.789255908
AQP1	-0.234524726	0.197181071	-1.789181926
MAG	-0.234536876	0.197181071	-1.789280013
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GABPA	0.234472078	0.197286234	1.788756908
BLVRA	0.234476296	0.197286234	1.788790956
RICH2	-0.234446225	0.197346215	-1.788548202
DHRS2	-0.234422701	0.197394535	-1.788358311
SNPH	-0.234416357	0.197394535	-1.788307097
RBP2	-0.234380933	0.197485958	-1.788021147
FLRT2	-0.234357033	0.197514716	-1.787828225
HRC	-0.234360647	0.197514716	-1.787857393
LOC220429	-0.234328585	0.19758327	-1.787598597
IQGAP1	0.234313423	0.197608207	1.787476208
RP11-93B14.6	-0.234271352	0.19772154	-1.787136632
CCR3	-0.234219201	0.197846499	-1.786715703

ELK3	0.23421819	0.197846499	1.786707544	
STX18	0.234189189	0.197916959	1.786473472	
RGAG1	-0.234178023	0.197928788	-1.786383355	
NDUFC1	0.234145765	0.198009982	1.786123003	
NPW	-0.234118889	0.198073492	-1.785906097	
LOC552889	0.234095844	0.198099519	1.785720117	yes
CABP5	-0.23410137	0.198099519	-1.785764713	
IRF5	-0.234060892	0.198189629	-1.785438043	
KIAA1024	-0.234041639	0.198203198	-1.785282664	
KCNQ5	-0.234045971	0.198203198	-1.785317625	
FGF6	-0.23401204	0.198275723	-1.785043797	
FBXO18	0.23398957	0.198324793	1.78486247	
CSRNP3	-0.233973875	0.198351565	-1.784735814	
VRK1	0.23396541	0.198354534	1.784667507	
ISM1	-0.233929533	0.19842287	-1.784377999	
POU5F1	-0.233935649	0.19842287	-1.784427352	
FAM148A	-0.233880593	0.19854551	-1.783983089	
OTOA	-0.233858619	0.19854551	-1.783805774	
ENDOG	-0.233872122	0.19854551	-1.783914732	
ZC3H3	-0.23385902	0.19854551	-1.783809009	
TTLL10	-0.23384694	0.19854551	-1.783711541	
WNT10B	-0.23384735	0.19854551	-1.783714845	
ADAM32	-0.233823216	0.198598771	-1.783520115	
MPHOSPH9	0.233660148	0.199053811	1.78220443	
AAK1	0.233654999	0.199053811	1.782162893	
ATP9B	0.233660239	0.199053811	1.782205168	
FBXL12	-0.233674843	0.199053811	-1.78232299	
DDB1	0.233586704	0.199254353	1.781611914	
ZNF668	-0.233534828	0.199400777	-1.781193415	
NKX2-3	-0.233501779	0.19948503	-1.780926812	
HBS1L	0.23348239	0.199524141	1.780770403	
RHOT1	0.233468438	0.199545277	1.780657864	
FEZF2	-0.23344369	0.199602121	-1.780458231	

AGTR1	-0.233419537	0.199657011	-1.780263396	
FNBP4	0.233403416	0.199685338	1.780133361	
SRMS	-0.233388725	0.199708939	-1.780014858	
SNORD56B	0.233369371	0.199743273	1.77985875	
ABLIM1	0.233363234	0.199743273	1.779809251	
C1orf156	0.23335044	0.199760606	1.779706054	
CDR2	-0.23329288	0.199877182	-1.779241783	
DBP	-0.233284998	0.199877182	-1.77917821	
GNL3	0.233294974	0.199877182	1.77925867	
OR7E24	-0.233288619	0.199877182	-1.779207415	
MAGOHB	0.233258405	0.199940212	1.778963722	
KIF22	0.233247881	0.199950049	1.778878845	
C12orf48	0.233236655	0.199962215	1.7787883	
PAX9	0.233227813	0.199966488	1.778716988	
PTCRA	-0.233213015	0.199976843	-1.778597642	
IL4R	0.233209585	0.199976843	1.778569977	
ASL	-0.233195072	0.199999898	-1.778452932	
MAPK11	-0.233147207	0.200133417	-1.778066902	yes
ISCA2	-0.233138049	0.200138746	-1.777993049	
RPUSD3	0.233123307	0.200162578	1.777874157	
FBXO41	-0.233065204	0.20025507	-1.777405591	
TPP2	0.233065983	0.20025507	1.777411872	
HPS4	0.233077147	0.20025507	1.777501901	
GLP2R	-0.233080943	0.20025507	-1.777532514	
TNKS	0.23305378	0.200267922	1.777313468	
BICD2	0.2330427	0.200279639	1.777224114	
TAS1R3	-0.233022281	0.200322309	-1.777059449	
NFATC3	0.232980929	0.200431257	1.776725994	
CNNM2	-0.232974327	0.200431257	-1.776672759	
FRG1B	0.23296596	0.200432338	1.776605291	
ITGA7	-0.232958916	0.200432338	-1.77654849	yes
TMEM133	0.232912497	0.200536246	1.776174192	
PPFIA3	-0.23291268	0.200536246	-1.776175664	

PRAME	-0.232892742	0.200568625	-1.776014897
COG6	0.232887654	0.200568625	1.775973873
USP47	0.232850321	0.200654685	1.775672851
VIPR2	-0.232846632	0.200654685	-1.775643109
GALNT4	0.232783101	0.200840516	1.775130874
FLJ35776	0.232759766	0.200892961	1.774942738
TRIM10	-0.232725644	0.200911177	-1.774667633
POLD3	0.232709137	0.200911177	1.774534548
CNOT6L	0.232745447	0.200911177	1.774827289
NEK8	-0.232709056	0.200911177	-1.774533898
FAM151A	-0.232722011	0.200911177	-1.774638345
FAM48A	0.232716731	0.200911177	1.774595777
FBXO9	0.232689293	0.200928763	1.774374563
KIAA1543	-0.232688691	0.200928763	-1.774369711
FAM128A	-0.232656864	0.200959405	-1.774113124
SLC7A3	-0.232658506	0.200959405	-1.774126368
RAB11FIP3	-0.232667236	0.200959405	-1.77419674
SNORA19	0.232647083	0.200966873	1.774034275
ZKSCAN1	0.232625445	0.20100197	1.773859834
SCAMP1	0.232621453	0.20100197	1.773827652
FAM65C	-0.232582927	0.201079912	-1.773517071
OLA1	0.232589108	0.201079912	1.773566903
OR2AK2	-0.23256911	0.201086911	-1.773405689
PIK3C2A	0.232565763	0.201086911	1.773378707
FBXO4	0.232555779	0.201095068	1.773298229
RPS26P54	-0.232507812	0.201215878	-1.772911563
SHPK	0.232504363	0.201215878	1.77288376
FAM165B	0.23242729	0.201422051	1.772262497
CIAPIN1	0.23242979	0.201422051	1.772282644
DBH	-0.232419401	0.201423256	-1.772198911
CCNJL	-0.232402383	0.201454827	-1.772061732
SKIV2L2	0.232371659	0.201531991	1.771814093
LOC100127980	0.232355301	0.201536344	1.771682248

ORC4L	0.232361271	0.201536344	1.771730368
LOC100133091	-0.232309729	0.201587849	-1.771314938
ABCA5	0.232323964	0.201587849	1.771429676
NR5A1	-0.232313507	0.201587849	-1.771345388
KRT32	-0.232325117	0.201587849	-1.771438963
C17orf101	-0.232300601	0.201593194	-1.771241371
ADRB1	-0.232235421	0.201785089	-1.770716055
RCC1	-0.232213421	0.201833298	-1.77053875
TMPRSS6	-0.232196519	0.201837914	-1.770402535
MSRB3	-0.232192763	0.201837914	-1.770372263
SHF	-0.232189475	0.201837914	-1.770345764
ETV2	-0.232161748	0.201862765	-1.77012231
SDAD1	0.232151941	0.201862765	1.770043281
PARL	0.232152388	0.201862765	1.770046884
ZNF616	0.232161613	0.201862765	1.770121229
CLCN2	-0.23211274	0.201914817	-1.769727367
RG9MTD1	0.232116112	0.201914817	1.769754544
ARMC1	0.23211063	0.201914817	1.769710369
SFMBT2	-0.232102382	0.201914817	-1.769643897
ALG8	0.232098736	0.201914817	1.769614519
FAM186A	-0.232080061	0.201951987	-1.769464031
ZC3H15	0.232071524	0.201955401	1.769395232
C1orf38	-0.232043988	0.202022096	-1.769173337
PER1	-0.231998295	0.202149307	-1.768805145
PLCB3	0.231990318	0.202150858	1.768740867
SNORD80	0.231957837	0.202209048	1.768479143
hCG_1757335	0.231965322	0.202209048	1.768539451
STK40	-0.231949184	0.202212858	-1.768409422
RPS11	0.231926664	0.202262895	1.768227961
PAPPA	0.231873628	0.202414706	1.767800637
T	-0.231850217	0.202467752	-1.767612008
HTR2B	0.231813295	0.202513721	1.767314533
HDAC7	-0.231806407	0.202513721	-1.767259032

MMP26	-0.231818374	0.202513721	-1.767355454
ANKRD26L1	-0.231825267	0.202513721	-1.767410986
KLHL2	0.231787821	0.202518987	1.767109292
RDH8	-0.231782311	0.202518987	-1.767064904
GREB1	-0.231794735	0.202518987	-1.767164993
MTM1	0.231765756	0.202549186	1.766931521
C8orf40	0.231712485	0.202701926	1.766502355
C15orf37	-0.231674354	0.20280419	-1.766195162
ANKMY2	0.231614496	0.202979086	1.765712956
PTPN11	0.231579368	0.20303971	1.765429985
VPS72	0.231573843	0.20303971	1.765385477
ADAM18	-0.231575428	0.20303971	-1.765398241
PABPC1L2A	-0.231514739	0.203187134	-1.764909384
ELFN1	-0.231519145	0.203187134	-1.76494487
AASDHPPT	0.231480617	0.203276165	1.764634528
C7orf55	-0.231448624	0.203358096	-1.764376836
ZIC3	-0.231439968	0.203361958	-1.76430711
ANKRD56	0.231421664	0.203398104	1.764159679
LYZL2	-0.231390141	0.20345339	-1.763905783
ORMDL1	0.231394622	0.20345339	1.763941876
GRIN2C	-0.231354123	0.203498638	-1.763615685
LTC4S	-0.231361462	0.203498638	-1.763674795
BMS1	0.23136691	0.203498638	1.763718675
PRKACA	-0.231317452	0.203596301	-1.76332034
B3GALNT2	0.231300237	0.203628839	1.763181687
KIF15	0.231250403	0.203770649	1.762780342
AMIGO1	-0.231239521	0.203781984	-1.762692707
CYBB	-0.231228741	0.203792981	-1.762605891
SP6	-0.231199184	0.203841777	-1.762367864
ZNF594	0.231200734	0.203841777	1.762380345
OR4C11	-0.231188631	0.203852021	-1.762282878
EPC2	0.231153985	0.203917896	1.762003868
RNF219	0.231158354	0.203917896	1.762039053

TMEM123	0.231130546	0.203971341	1.761815122	
C19orf34	-0.231118892	0.203985286	-1.761721277	
TMEM59L	-0.231072694	0.204115073	-1.761349263	
C17orf74	-0.231041787	0.20414334	-1.761100384	
PURA	0.231045943	0.20414334	1.76113385	
RAB27A	0.231052421	0.20414334	1.761186016	
FAM19A2	-0.231002718	0.204249275	-1.760785795	
PTH	-0.230967949	0.204340815	-1.760505842	
MFSD6L	-0.230957929	0.204341306	-1.76042516	
PLXND1	-0.230952819	0.204341306	-1.760384017	yes
COL1A1	-0.230941984	0.204352532	-1.760296775	
PGRMC1	0.230922345	0.204393311	1.760138651	
FOXA1	0.230856659	0.20456358	1.759609788	
FAM18A	-0.230856705	0.20456358	-1.759610156	
NKAIN3	-0.230845741	0.204575095	-1.759521889	
MRGPRX2	-0.230829568	0.204579112	-1.759391678	
IL10	-0.230831201	0.204579112	-1.759404822	
TMEM5	0.230782723	0.20458546	1.75901453	
ZNF689	-0.230791996	0.20458546	-1.759089188	
ZNF579	-0.230775281	0.20458546	-1.758954615	
LOC100133406	0.230805333	0.20458546	1.759196562	
GPR108	0.230816663	0.20458546	1.759287777	
KRT37	-0.230780482	0.20458546	-1.758996493	
BOC	-0.230784062	0.20458546	-1.759025314	
IL22	-0.230763964	0.204594762	-1.758863506	
EXOC3L2	-0.230757547	0.204594762	-1.758811845	
GBP7	-0.230716997	0.204660156	-1.758485404	
GPR101	-0.230722044	0.204660156	-1.758526035	
CCDC126	0.230715634	0.204660156	1.758474428	
RNF11	0.230706083	0.204667116	1.758397537	
OTUD6B	0.230695493	0.204677564	1.758312288	
OR2T8	-0.230668482	0.204743182	-1.758094844	
COG4	0.230646802	0.204789291	1.75792032	

TIMM22	0.230633955	0.204789291	1.757816903
HP	-0.230606602	0.204789291	-1.757596715
MTX3	0.230602426	0.204789291	1.757563101
FLJ45964	-0.23060937	0.204789291	-1.757619004
TAS2R4	0.230612985	0.204789291	1.7576481
RRBP1	-0.230619148	0.204789291	-1.757697711
UNQ6190	-0.230594951	0.204789297	-1.75750293
PNPO	0.230550494	0.20488846	1.757145077
HHATL	-0.23055321	0.20488846	-1.757166935
WRNIP1	0.230516903	0.20497625	1.756874695
ADI1	0.230504838	0.204991692	1.756777581
DKFZP564O0823	-0.230480087	0.20503753	-1.756578356
EIF2B5	0.230476262	0.20503753	1.756547573
HIGD1A	0.230448309	0.205106407	1.756322581
LOC100130138	-0.230440092	0.205108919	-1.756256446
MVD	-0.230411699	0.205179294	-1.756027919
TBC1D23	0.230349621	0.205347866	1.75552829
SLC6A5	-0.230346662	0.205347866	-1.75550448
CUGBP2	-0.23032237	0.205379355	-1.755308971
C8orf85	-0.230325757	0.205379355	-1.755336233
OR4K5	-0.230255244	0.20558024	-1.754768753
SLC15A5	-0.230231651	0.205609399	-1.754578891
SCARB1	-0.23023701	0.205609399	-1.754622018
CD300LD	-0.230170334	0.205768921	-1.75408545
TINP1	0.230169376	0.205768921	1.754077742
CHI3L2	-0.230155486	0.20579057	-1.753965968
ELAVL1	0.230144241	0.205803306	1.75387548
ODF1	-0.230133612	0.205813969	-1.753789948
NINJ2	-0.23012363	0.205822452	-1.753709625
RCAN1	-0.230078493	0.205879983	-1.753346419
TAC4	-0.230076709	0.205879983	-1.753332064
POU3F4	-0.230086717	0.205879983	-1.753412597
RAB17	-0.230080184	0.205879983	-1.753360022

DUSP2	-0.230038688	0.205983024	-1.753026131	
ORC3L	0.230016578	0.20600726	1.752848226	
AMAC1L3	-0.230018544	0.20600726	-1.752864044	
ZNF683	-0.229981155	0.206101582	-1.752563209	
USHBP1	-0.229971535	0.206108867	-1.752485804	yes
SNORD115-34	-0.229935189	0.206130823	-1.752193371	
CLEC2D	0.22994167	0.206130823	1.752245512	
IL10RA	-0.229940096	0.206130823	-1.752232852	
BBS10	0.229942125	0.206130823	1.752249177	
ZDHHC8	-0.229906957	0.206200918	-1.751966227	
DISC1	-0.229848739	0.206221265	-1.751497833	
APOC3	-0.229884362	0.206221265	-1.75178443	
KRTAP26-1	-0.229870992	0.206221265	-1.751676869	
SPINK6	-0.229852494	0.206221265	-1.751528043	
PLCB2	-0.229858513	0.206221265	-1.75157647	
TCAP	-0.229854321	0.206221265	-1.751542744	
CYTIP	-0.229853113	0.206221265	-1.751533027	
UBE2G2	-0.229824588	0.206274922	-1.751303537	
EMILIN2	-0.229817933	0.206274922	-1.751249994	
SNX10	-0.22979255	0.206286755	-1.751045791	
RP11-191L9.1	-0.229792073	0.206286755	-1.751041953	
SEP5	-0.229796444	0.206286755	-1.751077112	
RASGEF1A	-0.229779806	0.206287116	-1.750943266	
hCG_1776018	-0.229777068	0.206287116	-1.750921236	
ACBD3	0.229767921	0.206292847	1.750847652	
LOC157740	-0.229725032	0.206387327	-1.750502623	
LMOD3	-0.229728769	0.206387327	-1.75053269	
HMX2	-0.22971086	0.206410026	-1.750388621	
SNORD4B	0.229695474	0.206434713	1.750264848	
LECT2	-0.229688655	0.206434713	-1.750209993	
RTP3	-0.229671801	0.206441346	-1.750074412	
TSC22D2	-0.229674738	0.206441346	-1.750098038	
ZNF557	0.229658999	0.206446699	1.749971433	

CD53	-0.229655328	0.206446699	-1.749941903	
LBXCOR1	-0.229623164	0.206530161	-1.749683177	
GPHB5	-0.229604965	0.206566486	-1.749536781	
LOC100130274	-0.229551938	0.206701855	-1.749110251	
ABHD11	0.229550005	0.206701855	1.749094703	
CNTN1	0.229515193	0.206794342	1.748814696	
RP13-102H20.1	-0.229487873	0.206811233	-1.748594953	
ROR2	-0.22949365	0.206811233	-1.748641425	
PAX7	-0.229501413	0.206811233	-1.748703858	
SNCB	-0.229473882	0.206833374	-1.748482424	
SPARCL1	-0.229454865	0.206872505	-1.748329476	
NRL	-0.229415256	0.20695612	-1.7480109	
MTMR2	0.229420847	0.20695612	1.74805587	
CBLN1	-0.22940067	0.206980288	-1.747893593	
ANKRD44	-0.229384337	0.207010369	-1.747762234	
TBC1D21	-0.229373534	0.207021751	-1.747675353	
hCG_1983896	-0.22933099	0.207115346	-1.747333193	
MAP1LC3B2	-0.229332539	0.207115346	-1.747345656	
VPS26B	0.229283749	0.207227361	1.746953284	
SCRN2	-0.229283011	0.207227361	-1.746947345	
IL2	-0.229266641	0.207238199	-1.746815699	
SNORA45	-0.229250624	0.207238199	-1.746686895	
BHLHA9	-0.229253254	0.207238199	-1.746708046	
NFKBID	-0.229250073	0.207238199	-1.74668246	
SH3BP2	-0.229212127	0.207341467	-1.746377317	yes
PRIMA1	-0.229185902	0.207405088	-1.746166429	
SS18L2	0.229177668	0.207407803	1.746100217	
SLC23A1	-0.229164333	0.207427791	-1.745992987	
ZNF280B	-0.229141966	0.207428549	-1.745813128	
C16orf71	-0.229135917	0.207428549	-1.745764484	
ZNF652	-0.229154651	0.207428549	-1.745915126	
C11orf30	0.22913439	0.207428549	1.745752212	yes
SPACA1	-0.229110692	0.207483637	-1.745561653	

MST131	0.229102505	0.207486208	1.745495823
KCNF1	-0.229066885	0.207503944	-1.745209411
PDE2A	-0.229071424	0.207503944	-1.745245905
VDAC2	0.229083609	0.207503944	1.745343878
FCAMR	-0.229079632	0.207503944	-1.745311903
PAGE4	-0.229060139	0.207503944	-1.745155166
CCNO	-0.22901197	0.207516813	-1.744767865
PGBD3	0.22902418	0.207516813	1.744866035
FLJ44881	-0.229026079	0.207516813	-1.744881301
IGDCC4	-0.229011806	0.207516813	-1.744766548
TNKS2	0.229019521	0.207516813	1.744828577
ZNF160	0.229018881	0.207516813	1.74482343
SRP68	0.22897656	0.207560791	1.74448316
MAP3K12	-0.228983676	0.207560791	-1.744540368
OTOP2	-0.228990621	0.207560791	-1.744596209
MT1G	-0.228953607	0.207588279	-1.744298614
WDR67	0.228956467	0.207588279	1.744321607
SNRNP27	0.228924538	0.207643683	1.744064898
SLC29A4	-0.228922413	0.207643683	-1.744047814
OR10H3	-0.228888656	0.207691108	-1.743776418
GHRH	-0.228886165	0.207691108	-1.74375639
C7	-0.228899699	0.207691108	-1.743865202
CCDC84	0.228822444	0.207831626	1.743244111
OR52A4	-0.228832575	0.207831626	-1.743325552
ADAMTS20	-0.228825901	0.207831626	-1.7432719
FHL1	-0.228796134	0.207895666	-1.743032596
DGCR6	-0.228766762	0.207970098	-1.742796476
SFTPC	-0.22875921	0.207970569	-1.74273577
C6orf138	-0.228741546	0.208005328	-1.742593766
CDH16	-0.228726352	0.208008361	-1.742471628
LELP1	-0.228725829	0.208008361	-1.742467425
DDX59	0.228691889	0.208098316	1.742194592
TTC27	0.228683049	0.208103166	1.742123532

IGSF22	-0.228671995	0.208115526	-1.742034675
FKTN	0.228655226	0.20814727	1.741899883
PP8961	-0.228601304	0.208305068	-1.741466449
TMEFF2	-0.228553228	0.208429801	-1.741080025
TAS2R5	0.228549738	0.208429801	1.74105197
DCTN3	0.2285386	0.208442461	1.740962451
OR2W1	-0.228517279	0.208486144	-1.74079108
RPRML	-0.228503513	0.208486144	-1.740680436
ORAI2	-0.228505453	0.208486144	-1.740696032
PARN	0.228473422	0.208535075	1.740438588
SLC2A4RG	-0.228466886	0.208535075	-1.740386057
RFX5	0.228472872	0.208535075	1.740434161
ZNF192	0.228451916	0.208560768	1.740265738
PTAR1	0.228432684	0.208600938	1.74011117
JAKMIP1	-0.228395254	0.208654084	-1.739810352
DNAJB5	-0.228405241	0.208654084	-1.739890609
SNORD52	0.228394829	0.208654084	1.739806931
OR2AT4	-0.228383753	0.208666563	-1.73971792
FAM5C	-0.228298731	0.208905186	-1.739034639
MND1	0.228305679	0.208905186	1.73909048
FLJ35024	-0.228279137	0.208921475	-1.738877183
SLC16A5	0.228282794	0.208921475	1.738906569
ATG16L1	0.228270263	0.208926486	1.738805871
C12orf51	0.22825013	0.208944625	1.738644078
ARF4	0.228254701	0.208944625	1.738680816
HEATR5B	0.22822129	0.208992373	1.738412328
KCNAB2	-0.228228629	0.208992373	-1.7384713
PSAPL1	-0.228183783	0.209094767	-1.738110938
CYFIP1	0.228149045	0.209159031	1.737831802
EIF2AK1	0.228142701	0.209159031	1.737780825
C8orf41	0.228146285	0.209159031	1.737809624
PRRX1	-0.228124482	0.209195854	-1.737634429
ZNF808	0.228105984	0.209213298	1.737485791

PLXNA3	-0.228097171	0.209213298	-1.737414984
TRIM7	0.228099307	0.209213298	1.737432143
CHPF	-0.228079666	0.209247704	-1.737274327
C11orf21	-0.228070133	0.209254986	-1.737197732
THEM5	-0.228058429	0.209269659	-1.737103688
ATP8A2	-0.228043709	0.209280442	-1.73698542
TMX4	-0.228040477	0.209280442	-1.736959452
RYR1	-0.228006088	0.209372324	-1.736683149
ODF3L2	-0.227990783	0.209399266	-1.736560178
SLCO1C1	-0.227971791	0.209414386	-1.736407595
PTK6	0.227971562	0.209414386	1.736405754
FBXL17	0.227904306	0.209593081	1.735865407
TBX3	-0.227905271	0.209593081	-1.735873166
HLA-DQA2	-0.2278895	0.209618346	-1.73574646
SIRT2	-0.22785187	0.209620719	-1.735444155
HMGCS2	-0.227861212	0.209620719	-1.735519202
ZNF317	0.227855468	0.209620719	1.735473054
HAPLN2	-0.227876403	0.209620719	-1.735641241
TMEM22	-0.227854612	0.209620719	-1.735466178
TMC2	-0.227800767	0.209694187	-1.735033616
C10orf49	-0.227801114	0.209694187	-1.735036404
KIDINS220	0.227802082	0.209694187	1.735044181
LOC729040	-0.227821801	0.209694187	-1.735202594
NRSN2	-0.227780729	0.209737304	-1.734872642
CLC	-0.227759062	0.209785974	-1.734698593
SNORD36B	0.227747868	0.209798967	1.734608666
SNORD115-48	-0.227709615	0.209904183	-1.734301389
PTGDR	-0.227697978	0.209918691	-1.734207911
SUGT1	0.227645109	0.210020778	1.733783236
ADCY10	-0.227651989	0.210020778	-1.733838497
BCL9	-0.227638516	0.210020778	-1.733730279
FLJ14107	-0.227643056	0.210020778	-1.733766743
SCGB1D2	-0.227623136	0.210048063	-1.733606742

YLPM1	0.227593971	0.21010539	1.73337248	
TRPC4	-0.227591571	0.21010539	-1.733353205	
FAM161B	-0.227551632	0.210146461	-1.733032414	
KIAA1279	0.227519617	0.210146461	1.732775274	yes
TFAP2E	-0.227514794	0.210146461	-1.732736542	
HSN2	0.227557044	0.210146461	1.733075885	
NR3C2	-0.227528342	0.210146461	-1.732845348	
MTTP	-0.227555201	0.210146461	-1.73306108	
C22orf26	-0.227530639	0.210146461	-1.732863799	
PRAMEF2	-0.227513159	0.210146461	-1.732723408	
THRAP3	0.227518267	0.210146461	1.732764435	yes
TFCP2L1	-0.227469967	0.21019891	-1.732376506	
LIN7B	-0.2274683	0.21019891	-1.732363117	
SHOX2	-0.22748337	0.21019891	-1.732484153	
EAF1	0.227476576	0.21019891	1.73242959	
ZNF35	0.227390758	0.210438353	1.731740366	
OR2A12	-0.227368644	0.210463529	-1.731562772	
LZIC	0.22737051	0.210463529	1.731577757	
PTRH2	0.227349998	0.21050203	1.731413028	
OR14C36	-0.227331363	0.210540499	-1.731263376	
C3orf59	0.227307426	0.210597081	1.73107115	
TXK	-0.227295732	0.210611855	-1.730977246	
B4GALNT4	-0.227274533	0.210659103	-1.730807004	
ATP4B	-0.227255516	0.210698898	-1.7306543	
OR8A1	-0.227238974	0.210730248	-1.730521461	
LOC100133415	-0.227227689	0.210743636	-1.730430846	
GEMIN4	0.227219755	0.210745581	1.730367131	
LPAL2	-0.227201483	0.210757688	-1.730220407	
NPFF	-0.227206128	0.210757688	-1.730257713	
RAD51L1	0.227183665	0.210793407	1.730077335	
GC	-0.227157855	0.210856445	-1.729870093	
VPS54	0.227145199	0.210874537	1.729768466	
C8orf80	-0.227125578	0.210916437	-1.729610923	

IMMT	0.227110017	0.21092463	1.729485973	
IL17REL	-0.227108459	0.21092463	-1.729473461	
ZSCAN4	-0.227099413	0.21093039	-1.72940083	
USMG5	0.227065052	0.211022697	1.729124943	
LOC100128064	-0.227027578	0.211059376	-1.728824067	
PPP2CB	0.227024889	0.211059376	1.728802477	
DPPA4	-0.227033532	0.211059376	-1.728871872	
ALLC	-0.227034649	0.211059376	-1.728880836	
C11orf20	-0.22701338	0.211073573	-1.728710072	yes
TRBV7-9	-0.226946271	0.211261607	-1.728171284	
RAD52	0.226943695	0.211261607	1.728150597	
KCNG3	-0.226934953	0.211266344	-1.728080418	
LOC541471	0.226918545	0.211297319	1.727948684	
LOC100129563	0.226909963	0.211301515	1.727879788	
GPR81	-0.226878463	0.211384146	-1.727626908	
ZNF717	0.226832669	0.211490562	1.727259276	
SPRN	-0.226838765	0.211490562	-1.72730821	
DDHD1	0.226815965	0.211522575	1.727125185	
SLC38A3	-0.226806897	0.211528446	-1.727052386	
LOC100133408	-0.226793909	0.211547739	-1.726948129	
C11orf57	0.226766747	0.211615582	1.726730089	
RP11-49G10.8	-0.226718716	0.211711164	-1.726344527	
DOCK8	-0.226716789	0.211711164	-1.726329065	
KLHL21	-0.226727012	0.211711164	-1.726411123	
FRAT1	-0.226699855	0.211736883	-1.726193133	yes
LMAN2	0.226678963	0.211736883	1.726025436	
PSMD13	0.226678595	0.211736883	1.726022482	
ATHL1	-0.226672532	0.211736883	-1.725973817	
SNAP91	-0.226690837	0.211736883	-1.726120748	
C9orf125	0.226649495	0.21179064	1.725788901	
FLNA	-0.22662523	0.211824087	-1.725594136	
KIAA1919	0.22662504	0.211824087	1.725592607	
CATSPER3	0.226600934	0.211832604	1.725399127	

CCDC136	-0.226604128	0.211832604	-1.725424761
SNORA5C	-0.226593171	0.211832604	-1.725336815
C3AR1	-0.226596691	0.211832604	-1.725365072
SEPP1	0.226581297	0.211848126	1.725241513
PACRGL	0.226566738	0.211872854	1.725124655
NPM3	-0.226534461	0.211935517	-1.724865599
FILIP1L	-0.226527768	0.211935517	-1.724811881
EIF2AK2	0.226526427	0.211935517	1.724801116
RPL36	-0.226493827	0.212022102	-1.724539477
FUT7	-0.226455568	0.212127742	-1.724233317
PFN3	-0.226412466	0.212205423	-1.723886507
MUC1	0.22641101	0.212205423	1.723874823
LONP2	0.226421437	0.212205423	1.723958505
CYP4F11	0.226388651	0.212256951	1.723695383
ITGB1BP3	-0.226358536	0.212307833	-1.723453708
FKBP11	-0.226345497	0.212307833	-1.723349075
CACNB2	-0.226344466	0.212307833	-1.723340798
CARTPT	-0.22636056	0.212307833	-1.72346995
CRTC3	-0.22629616	0.212448446	-1.72295315
ELFN2	-0.226281297	0.21247428	-1.722833884
C11orf58	0.226253476	0.212519421	1.722610632
FAM166A	-0.226259376	0.212519421	-1.722657973
DAD1	0.226112946	0.212853213	1.72148302
C11orf76	-0.226128431	0.212853213	-1.721607268
SEC31B	-0.226139161	0.212853213	-1.721693362
MS4A13	-0.226127134	0.212853213	-1.721596856
ZCCHC10	0.226117748	0.212853213	1.721521549
LOC65998	-0.226112303	0.212853213	-1.721477859
CBARA1	0.226103445	0.212858448	1.721406789
CST8	-0.226091035	0.212875898	-1.721307213
LEMD3	0.226013011	0.213118997	1.720681212
C9orf141	-0.226005348	0.213120127	-1.720619731
NEIL1	-0.225988567	0.213152632	-1.720485093

LSM8	0.225957274	0.213235079	1.720234039
REST	0.225949557	0.213236398	1.720172129
C2orf61	-0.225934118	0.213264298	-1.720048267
RFX6	-0.225923467	0.213268408	-1.719962818
C1orf111	-0.22591826	0.213268408	-1.719921044
MALT1	0.225870167	0.213307794	1.719535226
REG3G	-0.225876807	0.213307794	-1.719588495
KCNQ3	-0.225878054	0.213307794	-1.719598497
NPSR1	-0.225893909	0.213307794	-1.719725688
MIOX	-0.225888406	0.213307794	-1.719681543
COX17	-0.225830524	0.213318152	-1.719217209
ESPNL	-0.225854814	0.213318152	-1.719412063
ARHGAP5	0.225841295	0.213318152	1.719303612
LOXL2	-0.225842762	0.213318152	-1.719315382
SUV420H2	-0.225833913	0.213318152	-1.719244396
TSPAN17	0.225792234	0.213424736	1.718910053
ZNF273	0.225745292	0.21356116	1.7185335
KRTAP1-3	-0.225736687	0.213565569	-1.718464474
MRGPRD	-0.225714102	0.213567683	-1.718283308
IL17A	-0.225724358	0.213567683	-1.718365578
ELL	-0.2257156	0.213567683	-1.718295329
ROBLD3	-0.225706342	0.213569188	-1.718221068
C14orf56	-0.225679984	0.213634758	-1.718009641
FAM73A	0.225666631	0.213655534	1.717902536
HDHD3	0.225656616	0.213664813	1.717822211
GJB6	0.225625368	0.213701347	1.717571567
OTOL1	-0.225638535	0.213701347	-1.717677178
B3GNT4	-0.225624052	0.213701347	-1.717561012
RABGAP1	0.225612208	0.213716936	1.717466019
TMEM224	-0.225592385	0.213760021	-1.717307024
ZFPM2	-0.225565919	0.213775578	-1.717094749
SNAPIN	0.225566677	0.213775578	1.717100828
INGX	-0.225571241	0.213775578	-1.717137438

LOC100130557	-0.225539953	0.213839844	-1.716886495	
FBLN5	-0.225511599	0.213904824	-1.716659092	
RRP7B	-0.225506469	0.213904824	-1.716617945	
GULP1	0.22547831	0.213954443	1.716392107	
SH3BGR	-0.225462819	0.213954443	-1.71626787	
STATH	-0.225469569	0.213954443	-1.716322008	
ZNF70	-0.225475058	0.213954443	-1.716366027	
ZNF837	-0.22539587	0.2141601	-1.715730958	
IQCF1	-0.22538578	0.214169678	-1.715650043	
RPLP1P4	0.225331218	0.214285945	1.715212497	
FUS	0.225341295	0.214285945	1.715293306	
ATP6V0E1	0.225330146	0.214285945	1.715203899	
NKX2-8	-0.225314819	0.214288374	-1.715080995	
KIAA1432	0.225320502	0.214288374	1.715126565	
INSR	-0.225302614	0.214305264	-1.714983124	
ZNF567	0.225274766	0.214364026	1.714759814	
FZD3	0.225270969	0.214364026	1.714729363	
EEP1	0.225255302	0.214392877	1.714603731	
TGM3	0.225237096	0.214405267	1.714457746	
CACNA1B	-0.225238459	0.214405267	-1.714468675	
SCARA3	-0.225215138	0.214453227	-1.714281674	
CCDC77	0.225208589	0.214453227	1.71422916	
TMEM182	0.22517326	0.214490877	1.713945884	
SNORD50A	-0.22517367	0.214490877	-1.713949174	
ZNF673	0.225168461	0.214490877	1.713907407	
ARHGEF1	-0.225190258	0.214490877	-1.714082181	
BATF2	-0.225132504	0.214514168	-1.713619095	
C9orf4	-0.225138901	0.214514168	-1.713670393	yes
ZNF345	0.225134836	0.214514168	1.713637793	
CEP55	0.225151485	0.214514168	1.713771287	
LCE5A	-0.225115127	0.214523745	-1.713479774	
CTXN1	-0.225116651	0.214523745	-1.713491988	
C22orf33	-0.225089885	0.214585692	-1.713277386	

E2F3	0.225073622	0.214612899	1.713146992	
MGC33894	-0.225067407	0.214612899	-1.713097159	
RABAC1	-0.225044797	0.214665774	-1.712915885	
GATA4	-0.225022791	0.214691365	-1.712739454	
CDH20	-0.225024927	0.214691365	-1.712756581	
NPAL1	0.225010457	0.214708761	1.712640568	
HTR1F	-0.224953561	0.214880122	-1.712184428	
SLC39A5	-0.224916024	0.214984648	-1.711883498	
NEDD9	-0.224892876	0.215013238	-1.71169793	
UBE2N	0.224893472	0.215013238	1.711702702	
RGS6	-0.224885864	0.215013238	-1.711641713	
ANKRD16	0.224853331	0.215043181	1.711380916	
RNF222	-0.224856084	0.215043181	-1.711402983	
SIPA1	-0.224857117	0.215043181	-1.711411266	
BSN	-0.224848024	0.215043181	-1.711338372	
AIRE	-0.224829645	0.215081512	-1.711191036	
TYROBP	-0.224814356	0.215109161	-1.711068478	
HLA-DMA	-0.224801359	0.215112814	-1.710964289	
TBXA2R	-0.224798716	0.215112814	-1.710943103	
EFEMP2	-0.224790329	0.215116602	-1.710875876	yes
UNC5B	0.224740186	0.215223052	1.710473936	
PDE4C	-0.224732154	0.215223052	-1.710409549	
SCARNA22	-0.224730389	0.215223052	-1.710395404	
TACR2	-0.224737545	0.215223052	-1.710452767	
JAZF1	-0.224722476	0.215225211	-1.710331978	
MFRP	-0.224711213	0.215238961	-1.710241696	
AGT	-0.224681993	0.215294567	-1.71000748	
FKBP6	-0.22467681	0.215294567	-1.709965935	
CD1D	-0.224673277	0.215294567	-1.709937618	
RUNX1T1	-0.2246541	0.215335703	-1.709783912	
C15orf51	-0.224625626	0.215392088	-1.709555686	
PDE5A	-0.224623233	0.215392088	-1.709536507	
GPR120	-0.224579075	0.215519704	-1.709182582	

KLHL7	0.224557337	0.215544523	1.709008355	
C9orf45	0.22455908	0.215544523	1.709022327	
TANK	0.224471488	0.215615704	1.708320321	
LOC100131510	-0.224476263	0.215615704	-1.70835859	
POFUT2	-0.224459586	0.215615704	-1.708224935	
POTEA	-0.224480743	0.215615704	-1.708394495	
LIPM	-0.224467801	0.215615704	-1.708290771	
FAS	0.224527284	0.215615704	1.708767491	
RGS9BP	-0.224473144	0.215615704	-1.708333595	
ATP2A1	-0.224467193	0.215615704	-1.708285904	
DCLRE1B	0.224513813	0.215615704	1.708659529	
TNFRSF10A	0.224456689	0.215615704	1.708201723	
ZNF486	0.224498224	0.215615704	1.708534594	
LOC729687	0.224448474	0.215618954	1.708135881	
COL20A1	-0.22442787	0.215665092	-1.707970764	
VMA21	0.224398373	0.215716839	1.707734381	
C14orf68	-0.2244005	0.215716839	-1.707751425	
GJB3	0.224375221	0.215771823	1.70754884	
OR8D1	-0.224350631	0.215831794	-1.70735179	
SMPD1	-0.224299692	0.215983083	-1.706943597	
ITGA9	-0.224241851	0.216133154	-1.706480111	
WDR73	0.224242874	0.216133154	1.706488306	
EPOR	-0.224219401	0.216173722	-1.706300221	
GIMAP4	-0.224215603	0.216173722	-1.706269789	
NEO1	0.224195572	0.216217966	1.706109282	
RS1	-0.224145709	0.21636571	-1.70570976	
ZNF721	0.224133772	0.216381893	1.705614113	
LAMB3	0.224097525	0.216482452	1.705323693	
C1orf14	-0.224017685	0.216734457	-1.704684028	
PAQR3	0.223970325	0.216842971	1.704304604	
TDRD7	0.223929193	0.216842971	1.703975078	yes
PLEKHG4	-0.223956895	0.216842971	-1.704197012	
DCTN4	0.223928275	0.216842971	1.703967724	

PRKAA2	0.223952583	0.216842971	1.704162465
ZAP70	-0.223942777	0.216842971	-1.704083904
MGC12966	-0.223956008	0.216842971	-1.704189899
SLC39A13	-0.223935144	0.216842971	-1.704022757
OTOF	-0.223877066	0.216995696	-1.70355749
AK1	-0.223857683	0.217037812	-1.703402214
TAAR2	-0.223840467	0.217072397	-1.703264303
SLC6A19	-0.223831801	0.217077251	-1.703194887
ACVR1B	0.223821373	0.217088238	1.703111348
HOOK1	0.223801703	0.217131367	1.702953784
BDH2	0.223733166	0.217281455	1.702404789
SLC10A1	-0.223741029	0.217281455	-1.702467771
FLJ30403	-0.223729488	0.217281455	-1.70237533
FAM20B	0.223733069	0.217281455	1.702404015
ZPBP	-0.223706664	0.21728542	-1.702192512
DCST1	-0.223702168	0.21728542	-1.702156499
GIMAP8	-0.223699286	0.21728542	-1.702133411
TPD52L3	-0.223699921	0.21728542	-1.7021385
BCAP31	0.223591175	0.217496241	1.701267491
HOXD13	-0.223589612	0.217496241	-1.701254974
HRG	-0.22358787	0.217496241	-1.701241022
ARMCX6	-0.223628242	0.217496241	-1.701564373
GIPC2	-0.223592464	0.217496241	-1.701277815
LOC643905	-0.223592324	0.217496241	-1.701276696
L3MBTL2	-0.223589164	0.217496241	-1.701251388
FLJ42258	-0.22357881	0.217502503	-1.701168459
METT10D	0.223564001	0.217528784	1.701049849
PTK2B	-0.223517324	0.217640758	-1.700676016
TBCD	-0.223519463	0.217640758	-1.700693149
SP140	-0.22348964	0.217686611	-1.700454305
CD74	-0.223492621	0.217686611	-1.700478176
TXNL4A	0.223463251	0.217702689	1.70024296
LYPD2	-0.223468101	0.217702689	-1.700281809

ANKRD29	-0.223464031	0.217702689	-1.700249214	
PI4K2A	0.223453587	0.217711071	1.700165574	
UNQ565	0.223432343	0.217725889	1.69999544	
CTNS	0.223427567	0.217725889	1.699957192	
KLK6	-0.22343589	0.217725889	-1.700023846	
KPNA4	0.22339015	0.21778042	1.699657551	
OR51A4	-0.223392404	0.21778042	-1.699675602	
TAF1C	-0.22339798	0.21778042	-1.699720255	
C13orf16	-0.223347358	0.217797639	-1.699314873	
SMC1B	-0.223355945	0.217797639	-1.699383634	
ARL10	-0.223349996	0.217797639	-1.699335999	yes
LOC442028	-0.223368473	0.217797639	-1.699483955	
C1orf183	-0.223353599	0.217797639	-1.699364845	
ZNF552	0.223341701	0.217797639	1.69926957	
CNGB1	-0.223316191	0.217847016	-1.69906529	
GJA9	0.223313028	0.217847016	1.699039966	
LRPAP1	-0.223299038	0.217870503	-1.698927939	
SLC40A1	-0.223285301	0.217893111	-1.698817942	
ARC	-0.223268353	0.21792691	-1.69868223	
ASB12	-0.223240115	0.217932947	-1.698456114	
STS	0.223237639	0.217932947	1.698436288	
PPP2R5B	-0.223243154	0.217932947	-1.698480448	
IMPACT	0.223244184	0.217932947	1.698488695	
RRH	0.223207974	0.217991361	1.69819876	
GRIN2A	-0.223206386	0.217991361	-1.698186042	
LHX9	-0.22313037	0.218231095	-1.697577396	
IQCF2	-0.223091518	0.218341342	-1.697266327	
CHRNA3	-0.223058871	0.218429976	-1.697004945	
SLTM	0.223032959	0.218495126	1.69679749	
CD300E	-0.223019924	0.21851534	-1.696693127	
BRD1	0.2229599	0.218699627	1.696212589	
RPS25	0.222951771	0.218702719	1.696147509	
OR7C2	-0.222938137	0.218725039	-1.69603836	

WDR4	0.222924722	0.218746597	1.695930965
LRDD	-0.222895354	0.21882389	-1.695695865
REEP3	0.222875773	0.218867002	1.695539116
OR9A2	-0.222845559	0.218931239	-1.695297243
OR10Q1	-0.222828426	0.218931239	-1.695160094
C13orf3	0.222834468	0.218931239	1.695208464
TRMT11	0.222833777	0.218931239	1.695202928
PCK1	-0.222795403	0.218971777	-1.69489575
CNDP2	0.222807923	0.218971777	1.694995974
GPR61	-0.222795108	0.218971777	-1.694893389
SLIT2	-0.222751976	0.219097252	-1.694548136
CARHSP1	-0.222737051	0.21909882	-1.694428667
RASAL1	-0.222741692	0.21909882	-1.694465821
HHLA3	-0.222720752	0.219129682	-1.694298209
KRTAP3-2	-0.22271375	0.219129682	-1.694242158
TRIM71	-0.222689618	0.219188762	-1.694049004
C9orf50	-0.222635964	0.219351138	-1.693619559
HOXB8	-0.222606239	0.21942984	-1.69338164
LOC100133383	-0.222585845	0.219475893	-1.693218418
SEPHS1	0.222546031	0.219564875	1.692899765
C14orf48	-0.222541298	0.219564875	-1.692861891
PAX1	-0.222538721	0.219564875	-1.69284126
PTPN2	0.222525468	0.219585943	1.6927352
OR4D1	-0.222492637	0.219603632	-1.692472442
RUFY4	-0.222502617	0.219603632	-1.692552318
IKZF5	0.22248775	0.219603632	1.692433331
KIAA0319L	0.22248552	0.219603632	1.692415492
TMEM209	0.22248425	0.219603632	1.692405327
C3orf10	0.222475827	0.219607805	1.692337916
PCDHB1	-0.222458635	0.219642683	-1.692200329
RAPGEF6	0.2224421	0.219675266	1.692068003
PSMD10	0.222432383	0.219683976	1.691990238
IARS	0.222340603	0.219969444	1.691255772

SLC26A5	0.222336445	0.219969444	1.691222501	
GOLGA8A	0.222303567	0.220034008	1.690959412	
C9orf106	-0.222310708	0.220034008	-1.691016554	
KRTAP6-1	-0.222279526	0.220092953	-1.690767038	
NFASC	-0.222265772	0.220115833	-1.690656982	
NEFH	-0.222248188	0.220152151	-1.690516274	
TBC1D19	0.222219076	0.220228905	1.690283339	
SLC6A13	-0.222204692	0.220251159	-1.690168238	
C11orf83	-0.222198277	0.220251159	-1.690116914	
UCP3	-0.222165713	0.220340053	-1.689856362	
FAM83E	-0.2221573	0.220344216	-1.689789046	
GAFA2	-0.222124327	0.220434573	-1.689525229	
ODF3B	-0.222111579	0.220453955	-1.689423232	
CHCHD6	-0.222052986	0.220634318	-1.688954444	
BLID	-0.222036826	0.220660223	-1.688825155	
ST6GALNAC1	0.222031158	0.220660223	1.688779809	
TBX2	-0.22201384	0.220695676	-1.688641255	yes
UQCRFSL1	0.221963263	0.220730529	1.688236632	
MED8	0.221986635	0.220730529	1.688423608	
PGLYRP3	0.221969689	0.220730529	1.688288039	
KCNH4	-0.221960577	0.220730529	-1.688215137	
FLG2	-0.221963073	0.220730529	-1.688235109	
EGFL7	-0.221986327	0.220730529	-1.688421145	yes
PHF14	0.221936957	0.220788136	1.688026181	
SSX5	-0.22192866	0.220791915	-1.687959808	
PAIP2	0.221909444	0.220808691	1.687806084	
PI4K2B	0.221910866	0.220808691	1.687817456	
AWAT2	-0.221856605	0.220892895	-1.687383389	
RPS12P23	-0.221863496	0.220892895	-1.687438511	
KLHL4	-0.221860817	0.220892895	-1.687417087	yes
AKAP4	-0.221863729	0.220892895	-1.687440377	
WFDC13	-0.22179493	0.221064504	-1.686890031	
PDIA2	-0.221793348	0.221064504	-1.686877374	

APAF1	0.221774848	0.221078799	1.686729391	
TPRXL	0.221781147	0.221078799	1.686779784	
ZFC3H1	0.22175914	0.221108655	1.686603747	
HMBS	0.221744609	0.221109007	1.686487514	
LACRT	-0.221750148	0.221109007	-1.686531822	
RPL23AP71	-0.221717527	0.221178868	-1.686270893	yes
IGFL2	-0.22169883	0.221193881	-1.686121342	
ZBTB38	0.221706036	0.221193881	1.68617898	
SLC15A4	0.221661832	0.221247903	1.685825411	
USP36	-0.22167209	0.221247903	-1.685907463	
CLRN1	-0.221664003	0.221247903	-1.685842779	
SSX2IP	0.221609154	0.221265606	1.685404085	
CAPN12	-0.221618012	0.221265606	-1.685474927	
AMPD3	0.221627755	0.221265606	1.685552857	yes
LCN12	-0.221584709	0.221265606	-1.685208571	
GRIK5	-0.221592586	0.221265606	-1.68527157	
OR5K3	-0.221627614	0.221265606	-1.685551725	
STX19	0.2216326	0.221265606	1.685591607	
FAHD2A	-0.221613752	0.221265606	-1.685440855	
ST7L	0.221589819	0.221265606	1.685249443	
TLR3	0.221602855	0.221265606	1.685353703	
EIF4G3	0.221562589	0.221318059	1.685031655	yes
TMEM204	-0.221544761	0.221355421	-1.684889074	
CUX2	-0.221525073	0.221399333	-1.684731617	
NELL1	-0.221491624	0.221440977	-1.684464107	
PITX2	-0.221502924	0.221440977	-1.684554474	
CASP8AP2	0.22149383	0.221440977	1.684481746	
CROCC	-0.221465908	0.221506117	-1.684258445	
CHIC2	0.221422155	0.221634761	1.683908545	
TNFRSF18	-0.221405295	0.221668759	-1.683773714	yes
UBE2L6	-0.221345207	0.22185501	-1.683293208	
ZNF766	0.221323135	0.221907397	1.683116704	
LOC100130872	-0.221308782	0.22193259	-1.683001932	

WDR42B	-0.22125135	0.22205885	-1.682542692
TTC28	-0.221253737	0.22205885	-1.682561781
LRRC16B	-0.221265203	0.22205885	-1.682653464
LOC100133393	-0.221213901	0.222165491	-1.682243249
FBXL4	0.221183143	0.222248566	1.681997316
USP16	0.221147693	0.222307489	1.681713869
GAPVD1	0.221130436	0.222307489	1.681575888
HIST1H1A	0.221150823	0.222307489	1.681738895
KLRD1	-0.221135894	0.222307489	-1.681619529
MFS11	0.221137739	0.222307489	1.681634279
SNORA75	-0.22108976	0.222425597	-1.681250676
PLK1	0.221053388	0.222528559	1.680959877
DAZL	-0.220993956	0.222636726	-1.680484726
ACSF3	-0.220996163	0.222636726	-1.680502374
MIER1	0.22099755	0.222636726	1.680513461
MYL7	-0.221014949	0.222636726	-1.680652564
APOBEC3H	-0.220959122	0.222734321	-1.680206251
RBBP9	0.220923442	0.222780044	1.679921011
CXCR3	-0.220933197	0.222780044	-1.679998995
FLJ46361	-0.220905609	0.222780044	-1.679778448
P2RY11	-0.220903001	0.222780044	-1.679757598
TPST1	0.220907246	0.222780044	1.679791535
USO1	0.220908698	0.222780044	1.679803143
BTN2A2	-0.220794112	0.223053088	-1.678887156
IL28A	-0.220791304	0.223053088	-1.678864707
KCNJ4	-0.220789761	0.223053088	-1.678852375
LCAT	-0.220817204	0.223053088	-1.679071743
GPR68	-0.220809509	0.223053088	-1.679010234
FGF21	-0.220758073	0.22313969	-1.67859908
RAD21	0.2207501	0.223142448	1.678535349
TARSL2	-0.22071189	0.223212887	-1.678229928
SMOX	-0.220716342	0.223212887	-1.678265516
RBBP5	0.220708605	0.223212887	1.678203675

VSTM2B	-0.220679493	0.223290421	-1.677970984
CPE	-0.220647987	0.223376444	-1.677719162
ADAM2	-0.22059318	0.223544975	-1.677281109
MYH2	-0.220571013	0.223580834	-1.677103941
MRO	-0.220568669	0.223580834	-1.677085213
MTCH1	-0.22052831	0.223647368	-1.676762651
C21orf34	-0.220532097	0.223647368	-1.676792918
FLJ35767	-0.220535602	0.223647368	-1.676820928
HIST1H2AI	0.22051584	0.223666068	1.676662993
ZNF322B	0.220496012	0.223710831	1.676504528
SRGAP3	0.22045204	0.223841138	1.676153112
ZKSCAN3	-0.220412092	0.223957235	-1.675833865
RAB42P	-0.220398713	0.223979175	-1.675726955
FARS2	0.220385955	0.22399892	1.675625002
HHLA1	-0.220364874	0.224048175	-1.675456536
ZNF589	0.220325964	0.224160667	1.675145601
C2orf40	-0.220249165	0.224407659	-1.674531923
UBR1	0.220200497	0.22445773	1.674143051
RIF1	0.220223774	0.22445773	1.674329042
LOC619207	-0.220213432	0.22445773	-1.674246406
SEL1L	0.220197911	0.22445773	1.674122383
MED28	0.220196332	0.22445773	1.674109765
TAF3	-0.220191936	0.22445773	-1.674074644
LOC93622	0.220184114	0.22445999	1.674012145
C3orf27	-0.220144737	0.224557667	-1.673697519
HACL1	0.220140992	0.224557667	1.673667602
MRPL11	-0.220135048	0.224557667	-1.673620104
MST075	-0.220112402	0.224612572	-1.67343917
DDX20	0.220087918	0.224674016	1.67324355
IKBKE	0.22005141	0.224778192	1.672951865
FBXO42	0.220035175	0.224784832	1.672822164
SNORD114-2	-0.220038628	0.224784832	-1.67284975
ACSBG1	-0.22001549	0.224829259	-1.672664889

ADH1A	-0.219943387	0.224942782	-1.672088858
MUC17	-0.219940897	0.224942782	-1.672068968
SNX9	0.219973812	0.224942782	1.672331924
C6orf50	-0.219960513	0.224942782	-1.672225677
OCEL1	-0.219940464	0.224942782	-1.672065508
CCND3	-0.219944171	0.224942782	-1.672095121
SYF2	0.219922423	0.224981392	1.671921382
MRGPRX3	-0.219907676	0.225008295	-1.671803576
MPG	-0.219868039	0.225123703	-1.671486936
AKAP11	0.219829818	0.225234117	1.671181613
FABP4	-0.219806752	0.225286451	-1.67099736
ACAT2	0.219800752	0.225286451	1.67094943
ELF3	0.219780693	0.225305683	1.6707892
FLJ11235	-0.219773776	0.225305683	-1.670733949
DDX43	-0.219766641	0.225305683	-1.670676957
CASKIN1	-0.219787495	0.225305683	-1.670843535
ZNF491	-0.219750526	0.225311966	-1.670548231
PABPC5	-0.219756554	0.225311966	-1.670596378
MRPL41	-0.219712903	0.225420314	-1.670247708
PPP1CB	0.21969704	0.225451238	1.670121006
MTRF1L	-0.219588273	0.225813047	-1.669252263
C8A	-0.219561833	0.225881702	-1.669041096
LMX1B	-0.219534082	0.225955048	-1.668819458
MS4A3	-0.219487779	0.226094572	-1.668449662
AQP12A	-0.219468423	0.226138017	-1.668295086
EDARADD	0.219424611	0.226268731	1.6679452
C7orf38	0.219403892	0.226317067	1.667779738
MAP4K1	-0.219383349	0.226317184	-1.667615686
SLC17A5	0.219382336	0.226317184	1.667607595
SNORA38	0.219382392	0.226317184	1.667608043
NFS1	0.219374815	0.226318426	1.667547533
WNT1	-0.219357914	0.226353146	-1.667412568
NCAM1	-0.219337367	0.226354369	-1.667248487

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TIA1	0.219340757	0.226354369	1.667275565	
LAPTM4A	0.219320415	0.226384603	1.667113118	
GPR44	-0.219289155	0.226470591	-1.666863505	
ALG11	0.219267025	0.226498408	1.666686786	
GNG8	-0.219272172	0.226498408	-1.666727891	
WNT16	-0.219248047	0.226540572	-1.666535247	
FECH	0.219235051	0.226544496	1.666431481	
CDK5R1	-0.219232611	0.226544496	-1.666411995	
DPF2	0.2191897	0.226672145	1.666069361	
GFOD1	-0.219164062	0.226718973	-1.665864655	
FN3KRP	0.219162256	0.226718973	1.665850235	
EEF1G	0.219095219	0.22693293	1.665314983	
ANKRD18A	0.219046129	0.227082833	1.664923051	
SNORA31	-0.219018461	0.227156161	-1.664702158	
RPS6	0.218996178	0.227210239	1.664524256	
APLNR	-0.218981913	0.227225225	-1.664410369	
C17orf76	-0.218970488	0.227225225	-1.664319163	
TNFSF14	-0.218971715	0.227225225	-1.664328954	
FKBP7	-0.218912123	0.227408464	-1.66385322	
GTDC1	0.218877958	0.227479472	1.663580478	
TAAR8	-0.218882221	0.227479472	-1.66361451	
FOXK1	0.218849098	0.227557163	1.663350091	
HEPACAM2	0.218832387	0.227591352	1.663216691	
MICAL3	-0.218824536	0.227593808	-1.663154019	
ZNF780B	0.218795355	0.227652529	1.662921085	
SRF	-0.218793814	0.227652529	-1.662908778	
GFM2	0.218784169	0.227661417	1.662831788	yes
GEFT	-0.218693182	0.227902873	-1.662105514	yes
NACC2	-0.218680977	0.227902873	-1.6620081	
CLN6	0.218682006	0.227902873	1.662016309	
PRELP	-0.218708609	0.227902873	-1.662228651	
VPS52	0.218685498	0.227902873	1.662044184	

SETX	0.218627394	0.228027756	1.661580414	
OR5L2	-0.218602465	0.228027756	-1.661381444	
GMIP	-0.218609608	0.228027756	-1.661438454	
MAPK1	0.218625878	0.228027756	1.661568312	
C11orf75	-0.218612672	0.228027756	-1.661462912	
LOC645805	0.218624608	0.228027756	1.66155818	
TPMT	0.218596022	0.228027756	1.661330018	
KRTAP1-1	-0.21857458	0.228078977	-1.661158883	
CBX4	-0.218562809	0.228095521	-1.661064935	
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OR5M8	-0.218531701	0.228116126	-1.660816659	
MPV17L	-0.218549366	0.228116126	-1.660957641	
ST8SIA5	-0.218528436	0.228116126	-1.660790601	
C16orf78	-0.218480084	0.228263904	-1.660404708	
TMOD4	-0.218465325	0.228276495	-1.660286921	
COL14A1	-0.218462264	0.228276495	-1.66026249	
RPL27A	0.218427917	0.228374073	1.659988386	
LRRC7	-0.218407223	0.228422672	-1.659823235	
RABL3	0.218359066	0.228560963	1.659438936	
EIF3F	0.218354396	0.228560963	1.659401668	
DUSP9	-0.218347063	0.228561606	-1.659343148	
RNF169	0.218326563	0.228609536	1.659179558	
TBC1D29	-0.218304432	0.228663332	-1.659002956	
RNF113B	-0.218268945	0.228739423	-1.658719782	
FAM53A	-0.218270731	0.228739423	-1.658734035	
PPIAP19	-0.218245103	0.228787365	-1.658529535	
C16orf45	-0.218241297	0.228787365	-1.658499169	
SRY	-0.218220667	0.228835799	-1.658334554	yes
UBXN2A	0.218207124	0.228858771	1.658226488	
ADSSL1	-0.218168448	0.228946383	-1.657917883	
LSM14B	-0.218174976	0.228946383	-1.657969974	
KRTAP4-4	-0.218158958	0.228954794	-1.657842163	
PANX1	0.21813072	0.229030609	1.657616858	

PRSS3	0.218087317	0.229160989	1.657270555
RGS10	-0.218045562	0.22928549	-1.656937415
PTGES3	0.218023037	0.22934082	1.656757708
AMPH	-0.217984079	0.229435294	-1.656446895
CLIC6	0.217982492	0.229435294	1.656434231
SCN11A	-0.217946667	0.229538545	-1.65614842
FLYWCH1	-0.217937067	0.229547369	-1.656071835
FLJ31713	-0.217886154	0.229705014	-1.655665668
SLC27A2	0.217869228	0.229740238	1.655530648
SALL3	-0.217838917	0.229797946	-1.655288845
GPR172B	-0.217841821	0.229797946	-1.655312011
GIMAP5	-0.217824272	0.229824966	-1.655172018
VPS13B	0.217773883	0.229957648	1.654770063
HOXA5	-0.217762558	0.229957648	-1.654679725
LOC729080	-0.217766741	0.229957648	-1.654713096
OR2G3	-0.217758876	0.229957648	-1.654650356
LOC100129940	-0.21773881	0.230004232	-1.654490294
UCN3	-0.2176804	0.230163352	-1.654024389
SBK2	-0.21768422	0.230163352	-1.654054858
FXD7	-0.2176401	0.23028298	-1.653702946
KIR2DL4	-0.217613525	0.230288474	-1.653490979
ACCN1	-0.217629778	0.230288474	-1.653620616
ENPP2	-0.217609998	0.230288474	-1.653462848
PROK1	-0.217620276	0.230288474	-1.653544825
ASB4	-0.217601682	0.230292704	-1.653396523
GCNT1	0.217582474	0.230336248	1.653243315
CR2	-0.217570016	0.230355432	-1.653143952
SLC1A7	-0.217546083	0.230416038	-1.652953071
SLC41A1	-0.217517194	0.230417211	-1.652722665
PLG	-0.217520222	0.230417211	-1.652746819
PTPRCAP	-0.217526818	0.230417211	-1.652799425
CLEC6A	-0.217530815	0.230417211	-1.652831301
MAB21L2	-0.217445876	0.230615519	-1.65215389

CLDN20	-0.21744321	0.230615519	-1.652132629
TRAK2	0.21744085	0.230615519	1.652113808
OR2B3	-0.217425939	0.230643589	-1.651994893
TMEM99	0.21738697	0.23072699	1.651684114
C10orf88	0.217381436	0.23072699	1.651639985
CD6	-0.217390503	0.23072699	-1.651712292
PPAN	-0.217357346	0.230762451	-1.651447875
CACNA1D	0.217361823	0.230762451	1.651483579
DENND5B	-0.217319439	0.230847848	-1.651145587
HISPPD1	0.21732524	0.230847848	1.651191848
LCN8	-0.217239897	0.231039636	-1.650511307
PKD1L1	-0.217216437	0.231039636	-1.650324237
EPHA5	-0.217228941	0.231039636	-1.650423944
SRL	-0.217238181	0.231039636	-1.650497622
ZNF136	0.217222514	0.231039636	1.650372691
DBNDD1	-0.217255157	0.231039636	-1.650632987
C15orf48	0.217233747	0.231039636	1.650462262
CCDC27	-0.217187691	0.231050688	-1.650095018
CYB561D1	-0.217193723	0.231050688	-1.650143117
SYNC	-0.217198176	0.231050688	-1.650178624
GNPTG	-0.217184853	0.231050688	-1.650072391
TINAG	-0.217160834	0.231111745	-1.649880878
VPS25	0.217136015	0.231175709	1.649682983
HMHB1	-0.217111215	0.231188047	-1.649485245
SLCO1A2	-0.217117879	0.231188047	-1.64953838
MYOZ3	-0.217122604	0.231188047	-1.649576053
ASGR2	-0.217089259	0.231241674	-1.649310181
ZNF551	0.217033948	0.231415992	1.648869188
NUP35	0.216998881	0.231424971	1.648589611
UBR7	0.217001701	0.231424971	1.648612089
ACOT1	-0.216995829	0.231424971	-1.64856528
LOC729862	-0.217010874	0.231424971	-1.648685229
CAV1	-0.217007127	0.231424971	-1.648655352

DNAJB14	0.216967617	0.231501282	1.648340356	
ELF4	0.216914715	0.231667005	1.647918603	
GCKR	-0.216862189	0.231817513	-1.647499862	
PANK1	-0.21685891	0.231817513	-1.64747372	
PKNOX1	0.216833027	0.2318407	1.647267392	
SLC2A11	-0.216831133	0.2318407	-1.647252292	
STAT5A	-0.216839056	0.2318407	-1.647315449	
ARSH	-0.216802377	0.231867457	-1.647023055	
NOTCH4	-0.216806185	0.231867457	-1.647053415	
XCL1	-0.216807314	0.231867457	-1.647062413	
NLRX1	-0.21678873	0.231891095	-1.646914266	
SLC22A7	-0.21675931	0.231952443	-1.646679755	
DKK4	-0.216757555	0.231952443	-1.646665757	
SLC34A1	-0.216733952	0.232012169	-1.646477617	
GPR20	-0.216715863	0.232051924	-1.646333422	
FLVCR1	0.216655273	0.232219962	1.645850467	
FZD5	0.21666132	0.232219962	1.645898662	
FLJ46838	-0.216617795	0.232330073	-1.64555174	yes
LOC100132686	0.21659607	0.232383055	1.645378585	
ASXL2	0.216563939	0.232473813	1.645122488	yes
ZNF446	-0.216530216	0.232570374	-1.64485371	
FAM111B	0.216510786	0.232615066	1.644698846	
FLJ38723	0.216502515	0.232619241	1.64463293	
CCDC79	-0.216492401	0.232630111	-1.644552325	
KIAA0802	-0.216425224	0.23280742	-1.644016943	
ZNF14	0.216433331	0.23280742	1.644081552	
SLC35E2	0.216422222	0.23280742	1.643993013	
AIPL1	-0.216414892	0.232808188	-1.643934596	
LTA	-0.216402825	0.232826165	-1.64383843	
RSHL1	-0.216393756	0.232833253	-1.643766156	
SMARCAL1	0.216377325	0.232867086	1.643635217	
TMEM125	-0.216352271	0.232932261	-1.643435551	
GRIA2	-0.216328319	0.23299344	-1.643244678	

PPARGC1A	-0.216316648	0.233007239	-1.643151675
SYCP2L	-0.216288946	0.233007239	-1.642930916
C8orf44	0.21629506	0.233007239	1.642979639
BCL2A1	-0.216310263	0.233007239	-1.643100792
RAB33B	-0.216295531	0.233007239	-1.642983391
OR51V1	-0.216277523	0.233022898	-1.642839895
SETD4	0.216262393	0.233052035	1.642719325
UMOD	-0.216230954	0.23314046	-1.642468799
LOC100129492	0.216200154	0.233226584	1.642223372
OVGP1	0.216179421	0.233276112	1.642058174
SGCZ	-0.216172158	0.233276662	-1.642000297
ADARB1	-0.216147387	0.233340889	-1.641802923
EXOSC5	0.216128137	0.233385045	1.641649536
EMILIN1	-0.216103679	0.233448157	-1.641454657
ESRRA	-0.216086806	0.233483675	-1.641320223
ARP11	0.216068131	0.23352576	1.641171423
BCL2L10	-0.21604486	0.233584578	-1.640986009
TRIML1	-0.216027961	0.233620208	-1.640851371
C16orf89	-0.216013229	0.233647957	-1.640733993
LOC55908	-0.21599651	0.23365706	-1.640600788
LRCH2	-0.216001888	0.23365706	-1.640643637
EPHA1	0.215980286	0.233690244	1.640471534
GLYCK	-0.215951372	0.233692012	-1.640241175
KIAA1530	-0.215967879	0.233692012	-1.640372682
SNAPC1	0.215962875	0.233692012	1.640332818
NR1I3	-0.215956962	0.233692012	-1.640285711
ZNF366	-0.215930651	0.233692248	-1.640076088
IDUA	-0.215925976	0.233692248	-1.640038849
UNQ6490	-0.215931634	0.233692248	-1.640083922
PLEKHA9	-0.215920653	0.233692248	-1.639996441
C1orf50	0.215915786	0.233692248	1.639957662
TDH	-0.215854898	0.233888081	-1.639472595
TAPT1	0.215826404	0.233960135	1.639245598

ACOX1	0.21582091	0.233960135	1.639201836	
MAGEE2	-0.215793198	0.233964744	-1.638981074	
ZDHHC24	-0.215798389	0.233964744	-1.63902243	
SLC17A6	-0.215791238	0.233964744	-1.638965464	
TMBIM1	0.215803374	0.233964744	1.639062139	
YPEL3	-0.215781004	0.233976159	-1.638883939	
SLC35E3	0.215755255	0.233992377	1.638678818	
CANX	0.21575831	0.233992377	1.638703154	
USP48	0.215763001	0.233992377	1.638740528	
VAMP1	-0.215732477	0.234049495	-1.638497375	
BCLAF1	0.215697445	0.234151276	1.638218323	
OR2D3	-0.21567547	0.234205496	-1.638043278	
MRPL34	-0.215660299	0.234234923	-1.637922434	
FAM187B	-0.215636308	0.234296505	-1.637731341	
MOSPD2	0.215605249	0.234383875	1.637483946	
EVPL	0.215584088	0.234409282	1.637315402	
SLN	-0.21558432	0.234409282	-1.63731725	
KIAA0947	0.215572913	0.234424157	1.637226394	
DERL3	-0.215563731	0.234431765	-1.637153261	
DEPDC1	0.215543306	0.234432495	1.636990575	
TRH	-0.215542248	0.234432495	-1.63698215	
OR6A2	-0.215545559	0.234432495	-1.637008523	
MYB	0.215526448	0.234451178	1.636856308	yes
SMEK2	0.215522939	0.234451178	1.63682836	
GPR158	-0.215486203	0.234559292	-1.63653578	
FAM109A	-0.215464865	0.234559524	-1.636365832	
KBTBD8	-0.2154658	0.234559524	-1.636373282	
MARCO	-0.215466231	0.234559524	-1.636376712	
PHF11	0.215430911	0.234646895	1.636095412	
KCNE2	-0.215426734	0.234646895	-1.636062144	
C20orf123	-0.215409325	0.234680112	-1.635923502	
RNY5	-0.21540345	0.234680112	-1.635876714	
TCF23	-0.215392046	0.234695858	-1.635785888	

LOC441179	-0.215366722	0.234740418	-1.635584215
BAP1	0.215365657	0.234740418	1.635575736
KRTAP8-1	-0.2153409	0.234804901	-1.635378577
MFSD9	0.215329821	0.234819468	1.63529035
TSPAN8	0.215313215	0.234854216	1.635158101
CCT8L1	-0.215300353	0.234875297	-1.635055675
VWA5B1	-0.215271392	0.234877562	-1.63482505
GMFB	0.215279439	0.234877562	1.634889128
SBK1	-0.215277248	0.234877562	-1.634871682
MUC16	0.215278474	0.234877562	1.634881449
OR10Z1	-0.2152206	0.234933694	-1.63442059
FOXD4	-0.21523176	0.234933694	-1.634509455
USP24	0.215231783	0.234933694	1.634509634
OR4K13	-0.215244216	0.234933694	-1.634608646
CALCR	-0.215225314	0.234933694	-1.634458123
FLJ16165	-0.215211037	0.234942756	-1.634344433
REG4	-0.215200074	0.234956927	-1.634257139
LOC339524	-0.215172717	0.235007366	-1.634039296
MYO1A	-0.215172097	0.235007366	-1.634034364
FAM78A	-0.215156873	0.235037103	-1.633913137
PELI3	-0.215119751	0.235146806	-1.633617551
MUC21	0.215097944	0.235186392	1.633443912
PMCH	-0.215094755	0.235186392	-1.633418523
NEUROG2	-0.215075326	0.235231506	-1.633263823
OR1L4	-0.215049321	0.23530065	-1.633056771
KIAA1644	-0.215031975	0.235338168	-1.632918662
C9orf170	-0.215015904	0.235371036	-1.632790699
ACSL4	0.214982839	0.235440148	1.632527444
TSHB	-0.214985599	0.235440148	-1.632549416
CHAC1	-0.21497383	0.235447211	-1.632455721
NFU1	0.214965982	0.235450034	1.632393238
KRT34	-0.214947547	0.235479293	-1.632246467
CCDC86	-0.214943827	0.235479293	-1.63221685

PIM3	-0.214923563	0.235527508	-1.632055513
TSKS	-0.214914886	0.235533367	-1.631986435
PLCD3	0.214872347	0.235645108	1.631647774
VPS37C	-0.214870177	0.235645108	-1.631630492
HSP90AB1	0.214858783	0.235652603	1.631539789
LRRC20	-0.214853982	0.235652603	-1.631501564
MDFIC	-0.214820042	0.235668555	-1.631231369
LOC441242	0.214814266	0.235668555	1.631185393
PGR	-0.214822532	0.235668555	-1.631251193
BCAT2	-0.214833155	0.235668555	-1.631335759
ZFX	0.214821099	0.235668555	1.631239783
SEP1	-0.21478352	0.235755137	-1.630940629
C17orf88	-0.214752514	0.235777956	-1.630693804
SELS	-0.214747433	0.235777956	-1.630653354
RAD18	0.214758936	0.235777956	1.630744925
LOC646316	0.21474781	0.235777956	1.630656354
C16orf52	0.214741942	0.235777956	1.630609647
MAGEE1	-0.214727935	0.23580334	-1.630498146
SEMA4A	0.214688752	0.235920822	1.630186236
PANX3	-0.214611699	0.2361511	-1.629572902
THAP11	-0.214616159	0.2361511	-1.629608401
ZNF469	-0.214595555	0.236184338	-1.629444397
PPP1R1A	-0.214556634	0.236281684	-1.629134609
LHX5	-0.21455484	0.236281684	-1.629120324
CLCNKB	-0.214544975	0.236291937	-1.629041806
BTG3	0.214530825	0.236292015	1.628929178
TMEM192	0.214536226	0.236292015	1.628972171
GLP1R	-0.214517731	0.236314099	-1.628824963
LOC644717	-0.214494523	0.236373231	-1.628640251
EVI5L	-0.214481017	0.236396832	-1.628532756
KRTAP19-4	-0.214473542	0.236398345	-1.628473257
HUS1B	-0.214449916	0.236433154	-1.628285224
CYLC2	-0.214453817	0.236433154	-1.62831627

DKFZp686O24166	0.214377199	0.236673766	1.627706488
PRH1	-0.214349932	0.236733578	-1.627489492
GPSM3	-0.214346761	0.236733578	-1.627464254
C20orf144	-0.214311625	0.236836536	-1.62718463
SNORD115-23	-0.214269902	0.236846331	-1.626852602
TREH	-0.214274792	0.236846331	-1.626891514
RRP8	0.214266964	0.236846331	1.626829221
NAP1L5	-0.214270716	0.236846331	-1.626859081
C9orf79	-0.214261331	0.236846331	-1.626784392
KCNIP1	-0.214259537	0.236846331	-1.626770114
SLC30A3	-0.214269512	0.236846331	-1.6268495
GPRIN3	-0.214250687	0.236852904	-1.626699691
APOB	-0.21424156	0.236860494	-1.626627064
FXD2	-0.214222156	0.236905782	-1.626472646
HIBCH	0.214176007	0.237023301	1.626105419
SYT16	-0.214181138	0.237023301	-1.626146245
LOC340900	-0.214119595	0.237105353	-1.625656534
IGHA1	-0.214118372	0.237105353	-1.625646798
OVOL1	0.21413407	0.237105353	1.625771714
RGS3	-0.214126869	0.237105353	-1.62571441
HPDL	-0.21414658	0.237105353	-1.625871259
FAM170A	-0.214069182	0.237260006	-1.625255395
STT3A	0.214038345	0.237347328	1.625010035
PDGFRB	-0.214003238	0.237450355	-1.624730708
CETN3	0.213990053	0.23745708	1.624625798
FAM5B	-0.213987301	0.23745708	-1.624603901
ADAM3A	-0.213934208	0.237574399	-1.624181487
MET	0.213946501	0.237574399	1.624279287
BCL11B	-0.213934256	0.237574399	-1.624181862
GINS4	0.213844601	0.237877871	1.623468585
HSPB2	-0.213819629	0.237943779	-1.623269916
SMTNL2	-0.213789676	0.238028024	-1.623031628
NBN	0.213771153	0.238070229	1.622884272

C10orf26	-0.213737102	0.23816959	-1.622613391
FEN1	0.21371254	0.238234044	1.622418001
LRRC3	-0.213695472	0.238270916	-1.62228223
VIL1	-0.213668208	0.238345339	-1.622065353
ADCY7	-0.213653091	0.238375042	-1.621945098
LCP1	-0.213622396	0.238462128	-1.621700934
ADAM28	0.213580978	0.238536781	1.621371486
TMEM77	0.213591597	0.238536781	1.621455951
ACACB	-0.213585971	0.238536781	-1.621411203
C1QTNF2	-0.213563412	0.238568673	-1.62123176
C1orf27	0.213558222	0.238568673	1.621190477
ZRANB1	0.213538094	0.238616863	1.621030384
TTC6	0.21348811	0.23877512	1.620632815
GP6	-0.213474496	0.238785168	-1.620524537
C4orf43	0.213471286	0.238785168	1.620499
PPCDC	-0.21345472	0.238820255	-1.620367246
LENEP	-0.213409301	0.238961764	-1.620006008
NSUN2	0.213389256	0.238965595	1.619846586
SLC13A3	-0.213400845	0.238965595	-1.619938754
ZNF622	0.213387118	0.238965595	1.61982958
CIB4	-0.213366817	0.238988493	-1.619668121
IGKC	-0.21336909	0.238988493	-1.619686204
KCNH3	-0.213339659	0.239036691	-1.619452135
DTWD1	0.213341546	0.239036691	1.619467144
GALNT7	0.213314412	0.239103843	1.619251348
MME	-0.21328133	0.239199921	-1.618988263
BZRPL1	-0.213185062	0.239503354	-1.618222704
RSF1	0.213188605	0.239503354	1.618250877
SLC4A11	0.21316554	0.239548738	1.618067462
UTP23	0.213158686	0.239548738	1.618012957
MCC	0.213144116	0.239576539	1.617897096
TTC9	0.213119919	0.239613885	1.617704689
INTS12	0.213125694	0.239613885	1.617750614

THSD1	-0.213099993	0.239635458	-1.617546246
CRELD1	-0.213103121	0.239635458	-1.617571118
GPR112	-0.213062661	0.23969534	-1.617249396
BID	0.213063902	0.23969534	1.617259264
TLR10	-0.213067578	0.23969534	-1.617288495
LARP6	-0.21303191	0.239782969	-1.617004883
HRK	-0.212989851	0.239912431	-1.616670468
HEY1	0.212936643	0.240083191	1.616247413
CREBBP	0.212859166	0.240343888	1.615631425
B4GALT1	0.212847192	0.240361494	1.615536233
SLMAP	0.212840324	0.240361494	1.61548163
SLC35B2	-0.212773523	0.240400284	-1.614950556
RGSL1	-0.212795006	0.240400284	-1.615121344
MGAT3	-0.212775733	0.240400284	-1.614968124
LOC100133418	-0.212790147	0.240400284	-1.615082717
KLHL24	0.212775175	0.240400284	1.614963685
AICDA	-0.2127864	0.240400284	-1.615052926
SLC18A3	-0.21278247	0.240400284	-1.615021678
ISX	-0.212788569	0.240400284	-1.615070171
LHFPL3	-0.212754539	0.240444517	-1.614799634
PSMB3	0.212736179	0.240486444	1.614653678
PRDM5	-0.212725252	0.24050085	-1.614566808
SERINC3	0.212704586	0.240551326	1.614402522
MAP3K10	-0.212692711	0.240569246	-1.614308123
LRRC37B	0.212685019	0.240571676	1.614246973
ENTPD6	-0.212668538	0.240606662	-1.614115958
LOC100133410	-0.212633489	0.240710447	-1.613837347
SNORD58A	0.21261174	0.240764968	1.613664466
LOC100133403	-0.212543044	0.240990122	-1.613118407
AQP2	-0.212536935	0.240990122	-1.613069847
SEC1	-0.212529854	0.24099029	-1.613013562
LOC646057	-0.212517554	0.241009812	-1.6129158
GPC1	0.212500803	0.24101976	1.612782652

SPEM1	-0.212504167	0.24101976	-1.612809393	
PCTP	0.212492575	0.241024192	1.612717248	
OR56A5	-0.212472132	0.241073921	-1.612554766	
C2orf86	0.212437235	0.241130626	1.612277395	yes
CAPZA2	0.212435747	0.241130626	1.612265567	
TOX2	-0.21244736	0.241130626	-1.612357866	
DNAJC24	0.212414835	0.241182116	1.612099358	
APOA1	-0.21240392	0.241196526	-1.612012602	
ZNF451	0.212396403	0.241198327	1.611952864	
LOC100128655	-0.21238493	0.241214811	-1.611861675	
COL5A2	-0.212346571	0.241278889	-1.611556809	
RPL7AP66	0.212346784	0.241278889	1.611558497	
FLJ41649	-0.212352098	0.241278889	-1.611600734	
STARD13	-0.212321986	0.241344036	-1.611361416	
DLGAP3	-0.212296784	0.241411487	-1.611161112	
ZBTB11	0.212276456	0.241444685	1.610999568	
CCS	-0.212273784	0.241444685	-1.610978336	
TBC1D15	0.212245252	0.241524519	1.610751585	
NLRP14	-0.212229998	0.241528973	-1.610630365	
CDK5RAP3	-0.212235469	0.241528973	-1.610673843	
C4orf44	-0.212211551	0.241571379	-1.610483764	
DNAJC19	0.212198173	0.241578075	1.610377452	
DEXI	-0.212195697	0.241578075	-1.610357773	
ITLN2	-0.21215075	0.241692812	-1.610000596	
GRM8	-0.21215471	0.241692812	-1.610032062	
LOC131055	-0.212127606	0.24173627	-1.609816677	
ESSPL	-0.212117979	0.24173627	-1.609740177	
SNTG2	-0.21212029	0.24173627	-1.60975854	
SLC8A3	-0.212095378	0.241768049	-1.609560585	
KRTAP17-1	-0.212100819	0.241768049	-1.609603817	
ADCY5	-0.212057373	0.241778827	-1.609258589	
SLC46A2	-0.212074704	0.241778827	-1.609396299	
HIST3H3	-0.212066065	0.241778827	-1.609327656	

PUS3	0.212063139	0.241778827	1.609304405
PKD2L1	-0.21206649	0.241778827	-1.609331028
CETN1	-0.212035085	0.241835546	-1.609081482
C9orf66	-0.212025955	0.241843387	-1.609008939
PTTG2	0.212009669	0.241851745	1.608879533
SPRYD3	-0.212011361	0.241851745	-1.608892976
PIPOX	-0.211978247	0.241942415	-1.608629854
GABRR1	-0.211967167	0.241957507	-1.608541823
SLC25A11	0.211941415	0.242027129	1.608337209
CLCN3	0.211867499	0.242275851	1.607749917
PCDHA6	-0.211837142	0.242362664	-1.607508736
NKX2-2	-0.211826157	0.242377424	-1.607421458
AKR1C4	0.211742483	0.242640361	1.606756694
MBL2	-0.211741472	0.242640361	-1.606748668
GABRG2	-0.211722903	0.242657242	-1.606601148
DBNL	0.211729761	0.242657242	1.606655631
DCD	-0.211608973	0.243039324	-1.605696082
SOX6	-0.211601252	0.243039324	-1.605634746
PCDHB12	-0.211599287	0.243039324	-1.605619135
SPDYA	-0.211542995	0.243223037	-1.60517198
CLEC5A	-0.211510935	0.243298721	-1.604917315
SLC10A6	0.211508667	0.243298721	1.604899299
CECR4	-0.211484202	0.243363807	-1.604704972
PCMTD2	0.211454127	0.243447621	1.604466085
LINGO1	-0.211447704	0.243447621	-1.60441507
FAM184B	-0.21143464	0.243470188	-1.604311301
FAM108A5	-0.211409702	0.24353707	-1.604113231
DGCR6L	-0.211399017	0.243550763	-1.604028364
CLDN19	-0.21137426	0.2435908	-1.603831725
OR10A3	-0.211377359	0.2435908	-1.603856341
KRTAP10-8	-0.211297881	0.243839518	-1.603225105
SIM1	-0.211293623	0.243839518	-1.603191287
TAAR6	-0.211260593	0.243936712	-1.602928956

SH2D2A	-0.211200557	0.244134882	-1.602452173
MTBP	0.21118624	0.244162179	1.602338473
LOC388282	-0.211163271	0.244215477	-1.602156059
UCP1	-0.211157955	0.244215477	-1.602113845
DTL	0.211147475	0.244228434	1.60203062
LOC100133390	-0.211138822	0.244234558	-1.601961909
OR9Q2	-0.211128321	0.244247597	-1.601878518
ERAS	-0.211119311	0.244255064	-1.601806964
DLX5	-0.211109783	0.244264469	-1.601731301
LOC100133360	-0.211043856	0.244484856	-1.601207778
KLHL23	-0.211030124	0.244509998	-1.601098735
TNFAIP1	0.21101078	0.244556144	1.600945134
TIMP2	-0.210999305	0.244558438	-1.600854015
ZNF700	0.210996142	0.244558438	1.6008289
SAP18	0.210944232	0.244700257	1.600416715
LRRC39	-0.210945643	0.244700257	-1.60042792
PMCHL2	-0.210910634	0.24479981	-1.600149943
CXorf55	-0.21088366	0.24482206	-1.599935766
ZNF773	-0.210895863	0.24482206	-1.600032659
SNTG1	-0.21088632	0.24482206	-1.599956888
RBM23	0.210858503	0.244863769	1.599736029
ZNF71	-0.210861399	0.244863769	-1.599759021
NCF2	-0.210808724	0.245023996	-1.599340797
SR140	0.210765248	0.245160667	1.598995622
PDHA2	-0.210740104	0.24518587	-1.598795996
ACOXL	-0.210737846	0.24518587	-1.598778073
BECN1	0.210737496	0.24518587	1.598775293
TNNI2	-0.210721714	0.24521876	-1.598649999
MLYCD	-0.210682169	0.245340759	-1.598336053
LGALS2	-0.210664806	0.245353311	-1.598198209
OMG	-0.210665351	0.245353311	-1.598202535
NHLH2	-0.210611701	0.24552623	-1.597776631
TLK2	0.210589623	0.245562934	1.597601363

CRHBP	-0.210580897	0.245562934	-1.597532095	yes
TNFRSF14	-0.210584138	0.245562934	-1.597557823	
FIGNL2	-0.210572861	0.245566798	-1.5974683	
ONECUT2	-0.21053942	0.245666	-1.597202845	
LZTS1	-0.210476411	0.245823839	-1.596702676	
PTGR2	0.210476358	0.245823839	1.596702261	
ST3GAL1	-0.210487805	0.245823839	-1.59679312	
STOML2	0.210447523	0.245879509	1.596473373	
RPL9	0.210448415	0.245879509	1.596480457	
TRYX3	-0.21042468	0.245896111	-1.596292053	
HSPA6	-0.21042209	0.245896111	-1.596271497	
TNS1	-0.21043601	0.245896111	-1.596381986	
RRP7A	-0.210414003	0.245898891	-1.596207309	
C11orf2	-0.210407344	0.245898891	-1.596154453	
TMEM181	0.210376987	0.245986603	1.595913498	
GLRA1	-0.210360232	0.246023236	-1.595780514	
AOF1	0.210326893	0.246122183	1.595515897	
TMEM190	-0.210290523	0.246201221	-1.595227232	
NODAL	-0.210284856	0.246201221	-1.595182252	
LASS5	0.210287462	0.246201221	1.595202937	
SNORA64	-0.210239031	0.246255223	-1.594818554	
NPR2	-0.210253915	0.246255223	-1.594936685	
PRPSAP2	0.210261955	0.246255223	1.595000495	
TNFAIP6	-0.210235489	0.246255223	-1.594790446	
C12orf52	-0.210242653	0.246255223	-1.594847299	
FAM27L	-0.210162871	0.246501926	-1.594214126	
FEZ2	0.2101242	0.246621065	1.593907228	
HIST2H2AB	0.21011712	0.246621368	1.593851043	
COX16	0.210092643	0.246687129	1.5936568	
FLJ25404	-0.2100738	0.246731703	-1.593507262	
JDP2	-0.210035748	0.246769568	-1.5932053	
KRT72	-0.21004315	0.246769568	-1.593264042	
CCDC22	-0.21004069	0.246769568	-1.593244518	

CXCL10	-0.210038416	0.246769568	-1.59322647
KIAA1429	0.210027886	0.246772825	1.593142913
PPIH	0.209979915	0.246836609	1.592762246
C20orf112	-0.209954986	0.246836609	-1.59256443
FOXL1	-0.209980216	0.246836609	-1.592764639
SHC2	-0.209977678	0.246836609	-1.592744495
SNORD54	0.209970176	0.246836609	1.592684971
C6orf203	0.20995716	0.246836609	1.592581688
CLDN5	-0.209978545	0.246836609	-1.592751377
C18orf22	0.209962395	0.246836609	1.592623222
PPIAL4A	-0.209909996	0.246953315	-1.592207437
UBQLN2	0.209910236	0.246953315	1.592209341
SNUPN	0.209896272	0.246978659	1.592098543
PSMB11	-0.209888647	0.246981044	-1.592038045
C7orf50	-0.209856447	0.247075961	-1.591782549
CEP164	-0.209811411	0.247195807	-1.59142521
TLR2	0.209810645	0.247195807	1.591419134
LOC100129196	-0.209785109	0.247251454	-1.591216527
PAK7	-0.209781893	0.247251454	-1.59119101
NKX2-6	-0.209745055	0.247302632	-1.590898733
C2orf85	-0.209747439	0.247302632	-1.59091765
TNXB	-0.209755075	0.247302632	-1.59097823
LOC728450	-0.209740354	0.247302632	-1.59086144
OR8B8	-0.209721205	0.247331975	-1.59070951
TNFSF4	-0.209711605	0.247331975	-1.59063335
SYT3	-0.209714657	0.247331975	-1.59065756
LOC100129484	-0.209674893	0.247388872	-1.590342085
CRIP2	-0.209668564	0.247388872	-1.59029187
FAM38B	-0.209687525	0.247388872	-1.590442301
PRDM14	-0.209677666	0.247388872	-1.590364087
LOC220077	-0.209661163	0.247390442	-1.590233157
NBPF10	0.20963217	0.24742075	1.590003144
OR2L3	-0.209634163	0.24742075	-1.590018952

TFCP2	0.209645574	0.24742075	1.590109483	
C14orf104	0.209620552	0.247438217	1.589910978	
USP49	0.209599233	0.247492245	1.589741845	
IRX3	-0.209546459	0.247664853	-1.589323189	
NACAD	-0.209537985	0.247670481	-1.58925596	
CDCA7	0.209521812	0.247705138	1.589127663	
ZNF816A	0.209503104	0.247723036	1.588979256	
OR6T1	-0.209506356	0.247723036	-1.589005059	
TIGD3	-0.209480092	0.247783491	-1.588796711	
UBXN6	-0.209466614	0.247807996	-1.588689801	
FBLN7	-0.20945251	0.24783487	-1.588577916	
DIAPH1	0.209415163	0.24789705	1.588281671	
TYMP	-0.209415088	0.24789705	-1.588281079	
C17orf42	0.20941528	0.24789705	1.588282599	
SULT1C3	-0.209357131	0.248089404	-1.587821355	
PCDHGA9	0.209321182	0.248198759	1.587536218	
TEPP	-0.20930159	0.248246383	-1.587380819	
RAD54B	0.209268998	0.248289255	1.587122308	
C4orf40	-0.209262326	0.248289255	-1.587069391	
MAP3K11	-0.209273946	0.248289255	-1.587161557	yes
CASP1	0.209274259	0.248289255	1.587164042	
SLFN12	0.209242388	0.2483382	1.586911257	
OPCML	-0.209189563	0.24851139	-1.586492288	
SMPDL3A	0.209180711	0.248518475	1.586422082	
C1orf124	0.209161522	0.248564621	1.586269897	
P2RX7	-0.209127472	0.248666941	-1.585999854	
IL25	-0.209108189	0.248713464	-1.585846923	
METTL13	0.209091287	0.248750987	1.585712886	
IL18BP	-0.209064931	0.248820654	-1.58550387	
BCL11A	0.209058911	0.248820654	1.585456126	
MAST1	-0.209021858	0.248934405	-1.585162286	
C14orf19	0.209000115	0.248990267	1.584989865	
OR2L13	-0.208976616	0.249026398	-1.584803512	

ACD	-0.208979469	0.249026398	-1.584826136	
IFIT1	-0.208948622	0.24910593	-1.584581524	
C1orf25	0.208941472	0.249106597	1.584524825	yes
C21orf63	0.208923779	0.24914716	1.58438453	
LOC100132622	-0.208909994	0.249172939	-1.584275219	
FXVD6	-0.208902736	0.249174019	-1.584217667	
MAP1S	-0.208885034	0.24921463	-1.584077295	
PTGER2	-0.20887364	0.249230603	-1.58398695	
PLVAP	-0.208866871	0.249230603	-1.58393327	yes
GEM	-0.208852675	0.249257949	-1.583820708	
DENND4C	0.208817317	0.249365415	1.583540345	
ATP6V1A	0.208793173	0.249430441	1.58334891	
OR6C70	-0.208753435	0.249475351	-1.583033832	
SEC61A2	0.208756871	0.249475351	1.583061073	
CCNG2	0.208762191	0.249475351	1.583103251	
ATP6V0D1	0.208771122	0.249475351	1.583174067	
RPL7AP53	-0.208721436	0.249570158	-1.582780115	
UHRF2	0.208672781	0.249728102	1.582394355	
TECTA	-0.20865372	0.249773929	-1.582243236	
KCNE3	0.208623499	0.249862069	1.58200364	
ABHD9	0.208599017	0.249928471	1.581809542	
C21orf86	-0.208589141	0.249939495	-1.581731245	
LRP2	-0.208577121	0.24995865	-1.581635954	

genename	r-value	FDR	t-value	CMH-associated
FKBP10	0.59827201	0.01671254	5.53717990	yes
LOC730241	0.58584662	0.01671254	5.36110204	
PDE3A	0.57177951	0.02233880	5.16868896	
NKD1	0.55721035	0.03331429	4.97654741	yes
MYL9	0.53598642	0.04269761	4.70842981	
CNKS2	0.53047821	0.04269761	4.64095592	
FMOD	0.53415565	0.04269761	4.68591111	
MFGE8	0.52858929	0.04269761	4.61800688	
MEG3	0.53024878	0.04269761	4.63816341	
ODZ3	0.52860085	0.04269761	4.61814699	
MARVELD1	0.53094386	0.04269761	4.64662798	
AMOTL1	0.52123659	0.05251503	4.52957430	
CA11	0.51956536	0.05251503	4.50966916	
MRVI1	0.48339941	0.05803380	4.09525508	
CD300LB	0.49272159	0.05803380	4.19923654	
COL4A1	0.51430024	0.05803380	4.44741983	yes
COL4A2	0.50988082	0.05803380	4.39569795	yes
GLIPR2	-0.48506431	0.05803380	-4.11368975	yes
AEBP1	0.50737076	0.05803380	4.36653193	
FGF2	0.49041311	0.05803380	4.17331303	
NID2	0.49659906	0.05803380	4.24304363	
ITGA11	0.48960744	0.05803380	4.16429287	
FOXF1	0.50172945	0.05803380	4.30152532	
KIAA0146	-0.48753220	0.05803380	-4.14112336	
AK5	0.48436304	0.05803380	4.10591780	
GDF10	0.50369651	0.05803380	4.32410788	
HOXA4	0.50878857	0.05803380	4.38298790	
CCDC36	0.48316048	0.05803380	4.09261429	
RBPM2	0.49116062	0.05803380	4.18169458	
MEOX1	0.49299357	0.05803380	4.20229850	
NAP1L4	-0.49935858	0.05803380	-4.27442511	
ROR1	0.48889851	0.05803380	4.15636751	

ENPP1	0.50411794	0.05803380	4.32895786	
PFKFB2	-0.49868921	0.05803380	-4.26679721	
CSGALNACT1	0.48766241	0.05803380	4.14257446	
RPL23AP32	0.51073097	0.05803380	4.40561064	
RHOJ	0.48610354	0.05803380	4.12522636	
PTGIS	0.48926323	0.05803380	4.16044345	
PCDH10	0.49505611	0.05803380	4.22557163	
GREM2	0.51148639	0.05803380	4.41443344	
TNS3	0.50138345	0.05803380	4.29756234	
TBX3	0.49570208	0.05803380	4.23287994	
COL14A1	0.48422333	0.05803380	4.10437069	
C1orf97	-0.48681817	0.05803380	-4.13317275	
UNC5C	0.48509330	0.05803380	4.11401124	
PRDM6	0.49001475	0.05803380	4.16885135	
CHD1L	-0.49184389	0.05803380	-4.18936657	
SMG7	-0.48579994	0.05803380	-4.12185364	yes
C2orf15	-0.48163800	0.05806311	-4.07581498	
PHACTR1	0.48243383	0.05806311	4.08459028	
FBXL10	-0.48148080	0.05806311	-4.07408310	
RPP38	-0.47660835	0.05926461	-4.02065615	
SYNPO	0.47217475	0.05926461	3.97245819	
COL6A2	0.47325820	0.05926461	3.98420030	yes
HAPLN1	0.47169044	0.05926461	3.96721692	
ACAN	0.47939477	0.05926461	4.05115007	
TMEM154	-0.47576317	0.05926461	-4.01143783	yes
PASK	-0.47583052	0.05926461	-4.01217187	
ADAT1	-0.47814107	0.05926461	-4.03741041	yes
KCNT2	0.47284181	0.05926461	3.97968488	
APOD	0.47165499	0.05926461	3.96683348	
PRR16	0.47328700	0.05926461	3.98451279	
PPP1R3C	0.47329932	0.05926461	3.98464643	
RARRES2	0.47568883	0.05926461	4.01062770	
BGN	0.47290462	0.05926461	3.98036579	

PKNOX2	0.47213865	0.05926461	3.97206740	
HIF3A	0.47513389	0.05926461	4.00458359	
SMTN	0.47541022	0.05926461	4.00759246	yes
SOD3	0.47612676	0.05926461	4.01540172	
CACNA1C	0.47307926	0.05926461	3.98225942	
FEZ1	0.47355388	0.05926461	3.98740888	yes
CDO1	0.46951948	0.05938377	3.94377898	
CLTA	-0.46697740	0.05938377	-3.91645084	
FN1	0.47044014	0.05938377	3.95370728	
ANGPTL2	0.46733440	0.05938377	3.92028121	
DAAM2	0.47032989	0.05938377	3.95251751	yes
HOXB3	0.46700108	0.05938377	3.91670484	
KRT26	0.46975296	0.05938377	3.94629527	
SMAD6	0.46883001	0.05938377	3.93635457	
ROR2	0.47078198	0.05938377	3.95739784	
CERCAM	0.46678780	0.05938377	3.91441761	
CYTL1	0.46706299	0.05938377	3.91736897	
TBX2	0.46832126	0.05938377	3.93088223	yes
TIMP3	0.46819841	0.05938377	3.92956150	
DLC1	0.46632048	0.05958111	3.90940902	
COL6A3	0.46374460	0.05958111	3.88187657	
ZNF423	0.46419394	0.05958111	3.88667029	
ABTB2	0.46597506	0.05958111	3.90570966	
GPBR	0.46517669	0.05958111	3.89716794	
PRELP	0.46384440	0.05958111	3.88294093	
PBLD	-0.46425586	0.05958111	-3.88733114	
LPPR4	0.46409912	0.05958111	3.88565835	
MRC2	0.46453582	0.05958111	3.89032015	yes
CCNY	-0.46221587	0.06082604	-3.86559592	yes
KCNJ8	0.46277216	0.06082604	3.87151525	
COP2	0.46232259	0.06082604	3.86673107	yes
KLHL29	0.46185403	0.06094845	3.86174891	
FAT3	0.46070847	0.06162174	3.84958551	

THBS1	0.46069853	0.06162174	3.84948001	
VAMP8	-0.46043959	0.06162174	-3.84673406	
PPP1R14A	0.46034674	0.06162174	3.84574979	
GDF11	0.45602635	0.06167167	3.80012367	yes
C1QTNF1	0.45703532	0.06167167	3.81074846	yes
GALNTL2	0.45092764	0.06167167	3.74671393	
COL5A1	0.45317064	0.06167167	3.77015225	yes
COL15A1	0.45252312	0.06167167	3.76337681	
COX7A1	0.45515043	0.06167167	3.79091498	
CXorf38	-0.45061356	0.06167167	-3.74343909	
EBF1	0.45090603	0.06167167	3.74648848	yes
S1PR3	0.45345606	0.06167167	3.77314120	
RANBP3L	0.45163512	0.06167167	3.75409710	
MRGPRF	0.45427341	0.06167167	3.78170871	yes
SLC35F1	0.45844246	0.06167167	3.82559707	
SAMD4A	0.45281738	0.06167167	3.76645489	
ZHX3	0.45699530	0.06167167	3.81032664	
TENC1	0.45211129	0.06167167	3.75907138	
FAM19A5	0.45065498	0.06167167	3.74387086	
PCOLCE2	0.45093073	0.06167167	3.74674617	
GDNF	0.45572146	0.06167167	3.79691674	yes
HOXA3	0.45198166	0.06167167	3.75771683	
OR4M2	0.45390920	0.06167167	3.77788955	
TMEM215	0.45431816	0.06167167	3.78217814	
MGP	0.45629246	0.06167167	3.80292410	
MN1	0.45058048	0.06167167	3.74309424	yes
PCOLCE	0.45137659	0.06167167	3.75139812	
RASL12	0.45581484	0.06167167	3.79789883	yes
SNX7	-0.45843705	0.06167167	-3.82553986	
PECAM1	0.45078943	0.06167167	3.74527258	
RALGPS2	-0.45520305	0.06167167	-3.79146782	yes
LIMS2	0.45901714	0.06167167	3.83167172	yes
JPH2	0.45536987	0.06167167	3.79322068	yes

GPR126	0.45317220	0.06167167	3.77016861	
WFDC1	0.45816480	0.06167167	3.82266425	yes
REG1A	0.45390467	0.06167167	3.77784204	yes
XYLT1	0.45311714	0.06167167	3.76959218	
TACR2	0.45876944	0.06167167	3.82905270	
TGFB111	0.45627197	0.06167167	3.80270844	yes
CALD1	0.45536374	0.06167167	3.79315629	
ATPIF1	-0.45411744	0.06167167	-3.78007293	
ZBED4	-0.45309509	0.06167167	-3.76936133	
DAPP1	-0.45031199	0.06177934	-3.74029624	yes
ADAMTS5	0.44922243	0.06193398	3.72895490	
NLGN2	0.44921716	0.06193398	3.72890012	
SPARC	0.44952631	0.06193398	3.73211593	
DYNLT1	-0.44917802	0.06193398	-3.72849313	
VEGFC	0.44977552	0.06193398	3.73470948	
TTC7B	0.44835754	0.06196155	3.71996697	
DDR2	0.44851810	0.06196155	3.72163459	
SERPINE2	0.44834132	0.06196155	3.71979861	
ZCCHC18	0.44872261	0.06196155	3.72375924	
WDR45L	-0.44790305	0.06244165	-3.71524919	yes
SYNM	0.44722138	0.06342977	3.70817991	
C19orf18	-0.44652850	0.06377685	-3.70100268	
SLC22A17	0.44645549	0.06377685	3.70024686	yes
VWF	0.44676639	0.06377685	3.70346591	
CASP12	0.44608909	0.06395835	3.69645532	
SOX18	0.44597477	0.06395835	3.69527280	
COL1A2	0.44419161	0.06487805	3.67685701	
LMOD1	0.44448516	0.06487805	3.67988489	
KANK2	0.44465379	0.06487805	3.68162497	
C3orf70	0.44468039	0.06487805	3.68189950	
SLIT3	0.44521821	0.06487805	3.68745266	
PLVAP	0.44426535	0.06487805	3.67761748	yes
ITGA10	0.44506952	0.06487805	3.68591684	

OLFML2B	0.44374722	0.06525176	3.67227596	
SRL	0.44363943	0.06525176	3.67116535	
NUP50	-0.44307040	0.06528229	-3.66530548	
ISM1	0.44309578	0.06528229	3.66556667	
SDC2	0.44340580	0.06528229	3.66875871	
CLIP3	0.44198468	0.06604305	3.65413990	
ATP1B2	0.44212463	0.06604305	3.65557806	
CMAH	-0.44230644	0.06604305	-3.65744680	
PARD6B	-0.44203864	0.06604305	-3.65469442	yes
GPC6	0.44114253	0.06707855	3.64549302	
TYRP1	0.44126214	0.06707855	3.64672042	
PDCD1	0.44082548	0.06721416	3.64224077	
CRADD	-0.44072509	0.06721416	-3.64121135	
COL12A1	0.43917816	0.06862896	3.62537008	
A2M	0.43970451	0.06862896	3.63075558	
PDZRN3	0.43941746	0.06862896	3.62781799	
NTRK2	0.43882388	0.06862896	3.62174769	
IL20RA	-0.43868893	0.06862896	-3.62036839	
SLC14A1	0.43898029	0.06862896	3.62334664	
SNAI1	0.43935875	0.06862896	3.62721733	
LDB2	0.43872052	0.06862896	3.62069123	
RRAGD	-0.43778406	0.06877356	-3.61112799	
ACTA2	0.43827849	0.06877356	3.61617530	
CXCL12	0.43829892	0.06877356	3.61638400	
LRRTM4	0.43793045	0.06877356	3.61262198	
ITIH5	0.43787283	0.06877356	3.61203387	
CLCN2	0.43653145	0.06901607	3.59835886	
COL1A1	0.43698778	0.06901607	3.60300774	
HOXA5	0.43740843	0.06901607	3.60729606	
LOXL2	0.43679594	0.06901607	3.60105292	
DACT1	0.43659346	0.06901607	3.59899041	
RBP4	0.43722217	0.06901607	3.60539686	
SIM2	0.43708082	0.06901607	3.60395597	

ADARB1	0.43589876	0.06931666	3.59191903	
DIO1	-0.43569378	0.06931666	-3.58983413	
PEAR1	0.43595486	0.06931666	3.59248977	yes
MYH11	0.43602239	0.06931666	3.59317687	
SEMA6D	0.43560041	0.06931666	3.58888455	
NOSTRIN	0.43533946	0.06943685	3.58623171	
KCNMB1	0.43517924	0.06943685	3.58460340	
RBMS1	0.43507770	0.06943685	3.58357174	
CAMTA1	0.43441572	0.07049705	3.57684970	
JHDM1D	-0.43428731	0.07049705	-3.57554660	yes
KCNE4	0.43408726	0.07050949	3.57351703	
FRZB	0.43385955	0.07050949	3.57120773	
OSBPL3	-0.43382337	0.07050949	-3.57084085	yes
IL11RA	0.43321659	0.07152274	3.56469151	
RASL11B	0.43257362	0.07263176	3.55818183	
HHLA1	0.43213460	0.07294635	3.55374090	
PDE2A	0.43226126	0.07294635	3.55502180	
CFDP1	-0.43180670	0.07303780	-3.55042610	
PARVB	0.43179624	0.07303780	3.55032035	yes
TDRD10	0.43012570	0.07495273	3.53345936	
DNAJB5	0.43041759	0.07495273	3.53640218	
LOC387763	0.43001017	0.07495273	3.53229494	
LAMA4	0.42993804	0.07495273	3.53156802	
PDE9A	0.43037678	0.07495273	3.53599068	yes
DYNLL1	-0.43022997	0.07495273	-3.53451046	
BOC	0.43005565	0.07495273	3.53275330	
SULT1C4	0.42945575	0.07574139	3.52670997	
SPEG	0.42872288	0.07591758	3.51933485	yes
COL3A1	0.42848353	0.07591758	3.51692810	
LGI4	0.42838496	0.07591758	3.51593717	
ERG	0.42900798	0.07591758	3.52220286	
FLT1	0.42849629	0.07591758	3.51705638	
ANKRD18A	-0.42903016	0.07591758	-3.52242609	

TPM2	0.42856874	0.07591758	3.51778474	
FLJ11151	-0.42813782	0.07616880	-3.51345329	
LDLRAD3	0.42782366	0.07625249	3.51029739	
CCDC109A	-0.42795980	0.07625249	-3.51166479	yes
SLCO2A1	0.42764131	0.07635560	3.50846623	
FRMD3	0.42748291	0.07640365	3.50687603	
ATP1A2	0.42683680	0.07728147	3.50039372	
COLEC12	0.42690075	0.07728147	3.50103505	
FGFR1	0.42664871	0.07740381	3.49850794	
TLN2	0.42602496	0.07824383	3.49225797	yes
PLXNA4	0.42615970	0.07824383	3.49360754	
TEAD2	0.42551240	0.07865764	3.48712682	
RQCD1	-0.42544845	0.07865764	-3.48648684	yes
TBX4	0.42568558	0.07865764	3.48886002	
LOC100129196	0.42471044	0.07877196	3.47910652	
PDCD6	-0.42341881	0.07877196	-3.46621026	
PALM2	0.42331988	0.07877196	3.46522355	
COL2A1	0.42347310	0.07877196	3.46675187	
COL6A1	0.42309584	0.07877196	3.46298963	yes
COL9A1	0.42408659	0.07877196	3.47287452	
COL11A1	0.42476908	0.07877196	3.47969266	
EPB41L2	0.42257338	0.07877196	3.45778308	
SETBP1	0.42313971	0.07877196	3.46342698	
FLJ34503	0.42256546	0.07877196	3.45770415	
PCSK5	-0.42402614	0.07877196	-3.47227094	yes
STK32B	0.42430058	0.07877196	3.47501148	
FRMD4A	0.42263443	0.07877196	3.45839122	
PMEPA1	0.42335768	0.07877196	3.46560053	
RYR2	0.42297075	0.07877196	3.46174261	
RPL23AP64	0.42483100	0.07877196	3.48031165	yes
TIE1	0.42377218	0.07877196	3.46973593	
SCUBE1	0.42496150	0.07877196	3.48161627	
TMEM25	0.42269228	0.07877196	3.45896759	

PDLIM7	0.42296440	0.07877196	3.46167933	yes
ADAMTSL1	0.42472403	0.07877196	3.47924242	yes
OLFM2	0.42291162	0.07877196	3.46115326	
AGBL1	-0.42112132	0.07902129	-3.44333451	
DNM1	0.42129254	0.07902129	3.44503655	
FAM149A	-0.42151017	0.07902129	-3.44720060	
GEM	0.42163865	0.07902129	3.44847843	
EMR4P	0.42126457	0.07902129	3.44475848	
FLJ46210	0.42181936	0.07902129	3.45027627	
XKRX	-0.42203612	0.07902129	-3.45243334	
C9orf6	-0.42172303	0.07902129	-3.44931781	yes
FAM40B	0.42221942	0.07902129	3.45425804	
AOC3	0.42154962	0.07902129	3.44759295	
ADAMTS1	0.42115648	0.07902129	3.44368405	
LPL	0.42086118	0.07907298	3.44074944	
RGS11	0.42091601	0.07907298	3.44129421	yes
SLC35D2	-0.42072398	0.07911718	-3.43938645	
DKK3	0.42025442	0.07995862	3.43472397	
QRFP	0.41993323	0.08022042	3.43153657	
HORMAD1	-0.41991003	0.08022042	-3.43130645	
IL17RB	0.41972381	0.08036537	3.42945920	
SLC26A10	0.41961567	0.08036537	3.42838673	yes
MCAM	0.41944439	0.08049740	3.42668853	
PCDHB9	0.41892255	0.08120802	3.42151718	
CDC25B	0.41891918	0.08120802	3.42148380	
C7orf31	0.41861712	0.08166284	3.41849233	
EDA2R	0.41807462	0.08271324	3.41312317	
STK35	-0.41778302	0.08286581	-3.41023893	
PITPNM2	0.41779602	0.08286581	3.41036751	yes
HNRNPF	-0.41753905	0.08318688	-3.40782683	yes
PSME3	-0.41646084	0.08532107	-3.39717743	
ZCCHC24	0.41654405	0.08532107	3.39799867	
CHD7	-0.41630178	0.08543612	-3.39560788	yes

SORBS1	0.41591845	0.08612418	3.39182676	
FIGN	0.41561623	0.08617617	3.38884734	
TPM1	0.41545576	0.08617617	3.38726588	
ADAMTS2	0.41544744	0.08617617	3.38718385	
FARP2	-0.41548935	0.08617617	-3.38759691	
CDK7	-0.41518376	0.08627928	-3.38458611	
DENND2A	0.41524985	0.08627928	3.38523719	
MAP4K4	-0.41488877	0.08675029	-3.38168117	
APTX	-0.41439122	0.08774828	-3.37678431	yes
C10orf57	-0.41427675	0.08775799	-3.37565823	yes
SYNPO2	0.41390556	0.08828046	3.37200803	
SCN2B	0.41385524	0.08828046	3.37151340	
C8orf37	-0.41362225	0.08831603	-3.36922337	
MNAT1	-0.41371668	0.08831603	-3.37015146	
KCNMA1	0.41328421	0.08891381	3.36590235	
ANO1	0.41307959	0.08916468	3.36389291	
LOC100133333	-0.41290360	0.08934151	-3.36216515	yes
ARHGAP10	0.41267245	0.08966476	3.35989644	
ITGA9	0.41240620	0.09008252	3.35728427	
CCNDBP1	-0.41191917	0.09048848	-3.35250876	
TAGLN	0.41202705	0.09048848	3.35356630	
ACTG2	0.41212708	0.09048848	3.35454702	
DYSF	0.41182332	0.09048848	3.35156931	yes
FBXO40	0.41162328	0.09073647	3.34960910	
DCLK2	0.41147620	0.09084460	3.34816827	
CAMSAP1	-0.41135660	0.09088039	-3.34699683	
CDH5	0.41053539	0.09112259	3.33895895	
C8orf40	-0.41098954	0.09112259	-3.34340287	
EHD2	0.41092287	0.09112259	3.34275029	
PCK1	0.41053058	0.09112259	3.33891198	
HTRA1	0.41076975	0.09112259	3.34125182	yes
SERPING1	0.41106863	0.09112259	3.34417705	
AIF1L	0.41063746	0.09112259	3.33995752	

PDPN	0.40933700	0.09282136	3.32724699	
BCL6B	0.40927760	0.09282136	3.32666695	
IGFBP4	0.40963460	0.09282136	3.33015355	
THY1	0.40940845	0.09282136	3.32794468	yes
ANKDD1B	-0.40947033	0.09282136	-3.32854902	
RPAIN	-0.40959351	0.09282136	-3.32975210	
ST6GALNAC2	-0.40864112	0.09301148	-3.32045554	
TARSL2	0.40866205	0.09301148	3.32065967	
CNTFR	0.40904057	0.09301148	3.32435313	
ETV5	0.40878560	0.09301148	3.32186501	
IPMK	-0.40820997	0.09301148	-3.31625125	yes
PDGFRB	0.40878163	0.09301148	3.32182629	
KLHL4	0.40820483	0.09301148	3.31620110	yes
SMPD2	-0.40829031	0.09301148	-3.31703447	
BPHL	-0.40805962	0.09301148	-3.31478576	
EZR	-0.40816179	0.09301148	-3.31578155	yes
SHFM1	-0.40799577	0.09301148	-3.31416350	
CGNL1	0.40853328	0.09301148	3.31940367	
FREM1	0.40755753	0.09339273	3.30989405	
KIF7	0.40761904	0.09339273	3.31049313	
GAL3ST4	0.40767545	0.09339273	3.31104260	yes
ERCC4	-0.40742948	0.09347253	-3.30864709	
DOCK3	0.40672755	0.09378587	3.30181581	
FLNA	0.40696488	0.09378587	3.30412475	
DNAJA4	-0.40693961	0.09378587	-3.30387891	yes
SLC34A1	0.40711492	0.09378587	3.30558496	
CACNA1H	0.40674990	0.09378587	3.30203325	
WSCD2	0.40685317	0.09378587	3.30303788	
LRP1B	0.40657905	0.09392581	3.30037153	
CAPN6	0.40630987	0.09439461	3.29775427	
TRAK1	-0.40616435	0.09452830	-3.29633976	
CPXM2	0.40595354	0.09484101	3.29429117	
CDKN1C	0.40471826	0.09488403	3.28229978	

ADAMTS8	0.40461467	0.09488403	3.28129517	
SCRG1	0.40477354	0.09488403	3.28283601	
FAM162B	0.40484041	0.09488403	3.28348459	
IKZF2	-0.40510698	0.09488403	-3.28607093	yes
TESSP2	0.40483257	0.09488403	3.28340860	
MATN2	0.40523900	0.09488403	3.28735225	
PMP22	0.40465060	0.09488403	3.28164362	
NSFL1C	-0.40495961	0.09488403	-3.28464103	
RALB	-0.40546531	0.09488403	-3.28954918	
TMOD1	0.40527626	0.09488403	3.28771393	
ASB13	-0.40557192	0.09488403	-3.29058432	
CRISPLD2	0.40520051	0.09488403	3.28697865	
AP1S2	0.40464207	0.09488403	3.28156092	
PRRX1	0.40444468	0.09509432	3.27964701	
GLB1L2	-0.40400095	0.09605608	-3.27534645	
CORIN	0.40304119	0.09661445	3.26605417	
LOC150763	0.40327698	0.09661445	3.26833588	
ADAMTS15	0.40297336	0.09661445	3.26539791	
PLCB1	0.40341271	0.09661445	3.26964963	
GLI1	0.40305742	0.09661445	3.26621119	yes
TTC9C	-0.40337522	0.09661445	-3.26928676	yes
DKFZp564N2472	0.40310841	0.09661445	3.26670455	
PPP1R7	-0.40302793	0.09661445	-3.26592584	
NKD2	0.40361597	0.09661445	3.27161758	
COL19A1	0.40256978	0.09748104	3.26149471	
LGI2	0.40244714	0.09757040	3.26030909	
PTRF	0.40216154	0.09790102	3.25754881	yes
KCNQ5	0.40214800	0.09790102	3.25741792	
RAMP2	0.40133020	0.09798014	3.24952042	
TIMM23	-0.40133369	0.09798014	-3.24955409	
CIB1	-0.40133325	0.09798014	-3.24954988	
WDR92	-0.40190200	0.09798014	-3.25504138	
COL4A6	0.40155289	0.09798014	3.25167006	

PGM2L1	-0.40186408	0.09798014	-3.25467508	yes
TNFRSF11B	0.40175890	0.09798014	3.25365927	
USP46	-0.40131757	0.09798014	-3.24939854	yes
TSPAN18	0.40135965	0.09798014	3.24980462	
LHFP	0.39988283	0.09821692	3.23556579	
COL13A1	0.40057806	0.09821692	3.24226516	
TCEAL2	0.39916546	0.09821692	3.22866002	
C20orf118	0.40105929	0.09821692	3.24690626	
SLFN13	-0.39948838	0.09821692	-3.23176771	
CCBE1	0.39894204	0.09821692	3.22651075	
RASGEF1B	-0.39815836	0.09821692	-3.21897704	
GABBR1	0.39926089	0.09821692	3.22957827	
OR51F1	0.39814800	0.09821692	3.21887758	
LOC100133411	0.40077613	0.09821692	3.24417503	
MRPL18	-0.39809535	0.09821692	-3.21837174	
GUCY1A2	0.39998420	0.09821692	3.23654219	
IGHA1	0.39866655	0.09821692	3.22386140	
LAMC2	-0.39810962	0.09821692	-3.21850886	
LOC440786	0.39838968	0.09821692	3.22119994	
NNMT	0.40039412	0.09821692	3.24049204	
NTRK3	0.40062307	0.09821692	3.24269906	
C2orf64	-0.40057610	0.09821692	-3.24224624	
SFMBT1	-0.39868335	0.09821692	-3.22402299	yes
STYXL1	-0.39975149	0.09821692	-3.23430089	
PLAGL2	-0.39987090	0.09821692	-3.23545087	
TDP1	-0.40052553	0.09821692	-3.24175873	yes
PYGM	0.39981408	0.09821692	3.23490367	
RGS16	0.39985306	0.09821692	3.23527907	
TSPYL2	0.40047947	0.09821692	3.24131473	
TNS1	0.39869208	0.09821692	3.22410690	
C3orf36	0.39949046	0.09821692	3.23178778	
CTSF	0.39890538	0.09821692	3.22615807	
TNFRSF10D	0.39843271	0.09821692	3.22161354	yes

ITGBL1	0.39886901	0.09821692	3.22580832	
ACVRL1	0.39821968	0.09821692	3.21956631	yes
FADS2	0.39839906	0.09821692	3.22129010	
TLL4	-0.39827824	0.09821692	-3.22012898	
RNF144A	0.39824653	0.09821692	3.21982424	
RUSC2	0.39966131	0.09821692	3.23343251	yes
MAGI2	0.39877580	0.09821692	3.22491189	
KCNE2	0.39971920	0.09821692	3.23398996	
CFHR3	0.39782339	0.09829458	3.21575953	
C2CD3	-0.39795694	0.09829458	-3.21704219	
SKI	0.39787900	0.09829458	3.21629356	
TPSG1	0.39762832	0.09861022	3.21388652	
COL11A2	0.39750868	0.09871778	3.21273797	
ZNF599	-0.39726125	0.09873416	-3.21036328	
ABI3BP	0.39740515	0.09873416	3.21174424	
FLJ11506	-0.39728068	0.09873416	-3.21054975	yes
RFTN2	0.39701553	0.09897119	3.20800591	
TMEM119	0.39705917	0.09897119	3.20842450	
C11orf71	-0.39688926	0.09909996	-3.20679479	
GEFT	0.39652430	0.09976955	3.20329557	yes
TRAV9-2	0.39645518	0.09976955	3.20263298	
BCO2	-0.39640999	0.09976955	-3.20219993	
POLD3	-0.39590915	0.10072910	-3.19740154	
LIX1L	0.39592174	0.10072910	3.19752213	yes
AMPD3	-0.39573776	0.10081762	-3.19576032	yes
VIT	0.39571967	0.10081762	3.19558706	
FARS2	-0.39559898	0.10093561	-3.19443161	
KRTAP5-6	0.39548195	0.10104379	3.19331138	
CDH11	0.39515550	0.10143387	3.19018747	
CLEC14A	0.39486348	0.10143387	3.18739417	yes
ZNF584	-0.39481502	0.10143387	-3.18693084	
ZNF321	-0.39472157	0.10143387	-3.18603728	
MYO1E	-0.39498771	0.10143387	-3.18858233	

FAM70A	0.39471981	0.10143387	3.18602040	
CAV1	0.39481026	0.10143387	3.18688529	
TNFSF15	0.39524073	0.10143387	3.19100285	
RP11-544M22.4	-0.39410449	0.10209491	-3.18013974	
RAB3C	0.39432866	0.10209491	3.18228153	
F13A1	0.39413821	0.10209491	3.18046184	
CLDN11	0.39402431	0.10209491	3.17937375	yes
CLIC6	-0.39428565	0.10209491	-3.18187058	
PXDN	0.39406807	0.10209491	3.17979175	
FAM168A	0.39394332	0.10210761	3.17860022	
ASCL5	0.39384883	0.10215902	3.17769779	
NPR1	0.39376005	0.10219464	3.17685002	
ST6GALNAC3	0.39359240	0.10245463	3.17524945	
IGKC	0.39343338	0.10253874	3.17373158	
USP42	-0.39333534	0.10253874	-3.17279590	yes
COG1	-0.39340794	0.10253874	-3.17348875	
PKD1L1	0.39301602	0.10256162	3.16974944	
TDRD7	-0.39295058	0.10256162	-3.16912521	yes
LASS6	-0.39282304	0.10256162	-3.16790888	yes
FBXL2	-0.39302927	0.10256162	-3.16987574	
APBB2	0.39297355	0.10256162	3.16934427	
PLAC8	-0.39272681	0.10256162	-3.16699136	yes
CMPK1	-0.39296721	0.10256162	-3.16928386	
C1S	0.39275493	0.10256162	3.16725944	
PRKG1	0.39260038	0.10270926	3.16578594	
LOC100129434	0.39162111	0.10274521	3.15645692	
LOC100130100	0.38844443	0.10274521	3.12628111	
SLC38A3	0.38869151	0.10274521	3.12862345	
CYGB	0.38831185	0.10274521	3.12502463	
WDR31	-0.38883715	0.10274521	-3.13000449	
SERPINA3	0.38825108	0.10274521	3.12444876	yes
AMDHD1	0.38808310	0.10274521	3.12285717	
CSPG4	0.38946625	0.10274521	3.13597314	

DLAT	-0.39013122	0.10274521	-3.14228775	yes
DYNC111	0.38907481	0.10274521	3.13225872	
EDN1	0.38832193	0.10274521	3.12512012	yes
FBLN2	0.39008797	0.10274521	3.14187682	
FBN1	0.39221518	0.10274521	3.16211483	
FAM124A	0.38829705	0.10274521	3.12488437	
HMGXB3	-0.39027002	0.10274521	-3.14360657	
GLT25D2	0.38813473	0.10274521	3.12334631	
ZNF521	0.39029888	0.10274521	3.14388081	
GPR124	0.39211342	0.10274521	3.16114536	yes
LRRC32	0.39103340	0.10274521	3.15086414	
GATA2	0.39169636	0.10274521	3.15717332	
GIPR	-0.39004256	0.10274521	-3.14144552	
IGKV5-2	0.38864059	0.10274521	3.12814069	
GSTM5	0.38917927	0.10274521	3.13324971	
HOXB2	0.39154005	0.10274521	3.15568524	
MATN1	0.39159740	0.10274521	3.15623124	
MYLK	0.39051424	0.10274521	3.14592757	
NOTCH4	0.39223787	0.10274521	3.16233097	
P2RX1	0.39128896	0.10274521	3.15329561	
CALHM2	0.38825150	0.10274521	3.12445274	
PDGFRL	0.38850015	0.10274521	3.12680929	
SDK2	0.38988155	0.10274521	3.13991620	
C9orf11	0.38801818	0.10274521	3.12224214	
MXRA8	0.39014202	0.10274521	3.14239034	
FGGY	-0.39106730	0.10274521	-3.15118663	
RADIL	0.38931546	0.10274521	3.13454204	
SEMA3G	0.39065756	0.10274521	3.14729001	yes
GALNTL1	0.38795144	0.10274521	3.12160994	yes
HPSE2	0.39014489	0.10274521	3.14241759	
S100B	0.39198383	0.10274521	3.15991093	
RBKS	-0.39058265	0.10274521	-3.14657786	
SMOC2	0.39017531	0.10274521	3.14270665	

BMP6	0.39135596	0.10274521	3.15393314	
SMARCD3	0.39068351	0.10274521	3.14753678	yes
SVIL	0.38839094	0.10274521	3.12577419	
TBX5	0.39242283	0.10274521	3.16409360	
TGFB3	0.39109231	0.10274521	3.15142460	
VIP	0.39159243	0.10274521	3.15618394	
ZBTB16	0.38882905	0.10274521	3.12992765	
TMEM204	0.38795324	0.10274521	3.12162701	
ECHDC3	0.38889991	0.10274521	3.13059968	
PLBD1	-0.38887610	0.10274521	-3.13037386	
ADAM33	0.39246240	0.10274521	3.16447071	yes
COL18A1	0.39004083	0.10274521	3.14142906	
FZD7	0.38864500	0.10274521	3.12818245	
ZNF541	0.39128574	0.10274521	3.15326490	
GFM2	-0.38979220	0.10274521	-3.13906767	yes
C14orf142	-0.38870279	0.10274521	-3.12873042	
KIAA1841	-0.38853395	0.10274521	-3.12712968	
UNC119B	-0.39010711	0.10274521	-3.14205867	
RSPO3	0.38983477	0.10274521	3.13947189	
PRSS12	-0.39169918	0.10274521	-3.15720018	
SLC43A1	0.38966967	0.10274521	3.13790422	
STC2	0.39178718	0.10274521	3.15803806	
WISP1	0.38923556	0.10274521	3.13378386	
POLR1C	-0.39112884	0.10274521	-3.15177213	yes
H2AFY	-0.39227472	0.10274521	-3.16268211	yes
CPNE5	0.38759630	0.10344086	3.11824692	
SDC3	0.38757116	0.10344086	3.11800892	
ODZ1	0.38737232	0.10373473	3.11612666	
MTMR3	-0.38733463	0.10373473	-3.11577004	
SYPL2	0.38718569	0.10383448	3.11436055	
NID1	0.38716737	0.10383448	3.11418719	
SRPX	0.38704886	0.10398337	3.11306603	
FOXF2	0.38677773	0.10419345	3.11050147	

PLAGL1	0.38685845	0.10419345	3.11126490	
SCARNA16	0.38683762	0.10419345	3.11106794	yes
CCDC88C	-0.38658572	0.10453890	-3.10868594	
TMEM14B	-0.38652509	0.10453890	-3.10811272	yes
LOC644538	0.38643337	0.10455044	3.10724574	
CLEC3B	0.38639062	0.10455044	3.10684166	yes
SLC24A4	0.38620539	0.10470723	3.10509112	
DCN	0.38624835	0.10470723	3.10549710	
EBNA1BP2	-0.38599112	0.10508033	-3.10306671	
TRIM2	-0.38592009	0.10508033	-3.10239573	yes
SPRY4	0.38587990	0.10508033	3.10201608	
ARNT2	0.38570089	0.10540656	3.10032549	
ZNF607	-0.38562588	0.10543655	-3.09961724	yes
SLMO1	0.38520002	0.10559360	3.09559743	
ADCY5	0.38505836	0.10559360	3.09426082	
LCN1L1	0.38513057	0.10559360	3.09494209	
C1orf110	-0.38511684	0.10559360	-3.09481256	yes
SHC4	0.38532620	0.10559360	3.09678820	
TESC	0.38529469	0.10559360	3.09649081	yes
CAMK1D	-0.38509600	0.10559360	-3.09461592	
CD34	0.38544042	0.10559360	3.09786635	
C1R	0.38484385	0.10602494	3.09223727	
LOC221442	-0.38477503	0.10604001	-3.09158819	
ARID3A	0.38440676	0.10658758	3.08811590	
CCDC89	-0.38437024	0.10658758	-3.08777165	
SEP4	0.38433083	0.10658758	3.08740014	yes
C17orf85	-0.38445708	0.10658758	-3.08859016	
RCAN3	-0.38398768	0.10693790	-3.08416659	
KLHDC10	-0.38391487	0.10693790	-3.08348061	yes
ARSB	0.38402716	0.10693790	3.08453855	
IFT52	-0.38389438	0.10693790	-3.08328765	yes
ZSWIM1	-0.38389475	0.10693790	-3.08329114	
BAZ1A	-0.38377140	0.10694472	-3.08212931	yes

COL5A2	0.38347194	0.10694472	3.07930949	
MLLT4	-0.38345528	0.10694472	-3.07915257	yes
OTUD7B	-0.38359048	0.10694472	-3.08042553	
PTPRG	0.38362095	0.10694472	3.08071246	
NCK2	-0.38353049	0.10694472	-3.07986070	
MYOCD	0.38356923	0.10694472	3.08022540	
C11orf48	-0.38304392	0.10741652	-3.07528099	
CCDC3	0.38305487	0.10741652	3.07538409	
N-PAC	-0.38305134	0.10741652	-3.07535079	
SCARF1	0.38320258	0.10741652	3.07677402	
CYP2C8	-0.38294511	0.10752365	-3.07435138	
SIN3A	-0.38274252	0.10771043	-3.07244568	
MRPS16	-0.38269590	0.10771043	-3.07200721	
ZCCHC10	-0.38278715	0.10771043	-3.07286546	
PRKAR1B	0.38262829	0.10772852	3.07137142	
MSI2	-0.38250882	0.10789686	-3.07024801	
HSBP1	-0.38219308	0.10831075	-3.06727996	yes
HIST2H2BF	-0.38206087	0.10831075	-3.06603756	
MYOC	0.38215985	0.10831075	3.06696770	
NFATC4	0.38223207	0.10831075	3.06764643	yes
ROD1	-0.38211903	0.10831075	-3.06658413	yes
POP4	-0.38151816	0.10870365	-3.06093977	
MBOAT1	-0.38149230	0.10870365	-3.06069693	
GRASP	0.38180941	0.10870365	3.06367511	yes
C20orf200	0.38138164	0.10870365	3.05965797	
CCDC144NL	0.38144573	0.10870365	3.06025969	
GTF2H5	-0.38161302	0.10870365	-3.06183054	
PMS2	-0.38151055	0.10870365	-3.06086833	
KIRREL	0.38158989	0.10870365	3.06161335	
ELL3	-0.38143558	0.10870365	-3.06016445	
DACH1	0.38127261	0.10884609	3.05863451	
LTBP1	0.38107031	0.10926071	3.05673586	
TMEM74	0.38098887	0.10932364	3.05597157	

ASAM	0.38087854	0.10947114	3.05493647	
RNF157	0.38023429	0.11013794	3.04889487	
NIPA1	-0.38048042	0.11013794	-3.05120234	
WDR27	-0.38027345	0.11013794	-3.04926191	
GPSM1	0.38055292	0.11013794	3.05188224	
KLF15	0.38043309	0.11013794	3.05075854	
ZNF3	-0.38037525	0.11013794	-3.05021624	
CNTNAP1	0.38034373	0.11013794	3.04992080	yes
C1orf95	0.38014891	0.11021479	3.04809460	
LOC100131507	0.37990240	0.11055333	3.04578449	
SHISA4	0.37992346	0.11055333	3.04598187	
FLJ46838	0.37985657	0.11055333	3.04535512	yes
TRNAU1AP	-0.37955503	0.11109502	-3.04253058	
ACTN2	0.37957138	0.11109502	3.04268363	
SIRPA	0.37928117	0.11149857	3.03996623	
MFSD6	-0.37932805	0.11149857	-3.04040517	
COL23A1	0.37924249	0.11149857	3.03960414	
FGFR1OP	-0.37908224	0.11180001	-3.03810414	
WDR51B	-0.37896600	0.11197150	-3.03701628	yes
CLEC3A	0.37838976	0.11240068	3.03162603	
BVES	0.37806837	0.11240068	3.02862137	
COL8A2	0.37841235	0.11240068	3.03183722	yes
ENG	0.37852192	0.11240068	3.03286190	
C9orf25	0.37873190	0.11240068	3.03482599	
LARP5	-0.37815392	0.11240068	-3.02942106	yes
ZNF749	-0.37828997	0.11240068	-3.03069297	
MGC57346	-0.37814320	0.11240068	-3.02932088	
MMP2	0.37850080	0.11240068	3.03266433	
OR2B3	0.37808038	0.11240068	3.02873365	
PRB4	0.37831830	0.11240068	3.03095778	
FAM60A	-0.37845726	0.11240068	-3.03225718	yes
USP6NL	-0.37867531	0.11240068	-3.03429656	yes
NES	0.37781452	0.11246686	3.02624910	yes

C14orf179	-0.37779019	0.11246686	-3.02602175	
BEND6	0.37775983	0.11246686	3.02573812	
VGLL1	0.37792307	0.11246686	3.02726341	
ASB2	0.37788516	0.11246686	3.02690914	
C6orf57	-0.37764395	0.11256429	-3.02465558	
CST11	0.37761307	0.11256429	3.02436712	
DGKB	0.37732471	0.11273362	3.02167398	
DNAJC16	-0.37727246	0.11273362	-3.02118612	yes
FAM101B	0.37735897	0.11273362	3.02199391	yes
UBL3	-0.37748906	0.11273362	-3.02320880	yes
SOX10	0.37733995	0.11273362	3.02181632	
ITGB8	-0.37718361	0.11282984	-3.02035656	
PI16	0.37688259	0.11323667	3.01754685	
MSRB3	0.37694253	0.11323667	3.01810623	
SPARCL1	0.37687797	0.11323667	3.01750372	
SERPINB11	-0.37679728	0.11330962	-3.01675077	
ASB11	0.37670924	0.11340476	3.01592936	
ACCN4	0.37661026	0.11353289	3.01500587	
ADCY1	0.37654878	0.11354913	3.01443237	yes
FBXO8	-0.37628299	0.11384257	-3.01195351	
THSD4	0.37631801	0.11384257	3.01228012	
PCGF6	0.37637583	0.11384257	3.01281930	
CACNB2	0.37601990	0.11446494	3.00950066	
MAF	0.37588852	0.11452505	3.00827609	
ZP2	0.37589394	0.11452505	3.00832663	
NEBL	-0.37560835	0.11479252	-3.00566542	yes
ACTL7B	0.37547627	0.11479252	3.00443501	
C8orf84	0.37558820	0.11479252	3.00547771	
RGAG1	0.37561856	0.11479252	3.00576058	
PLEKHA4	0.37546713	0.11479252	3.00434984	
CCDC102B	0.37549654	0.11479252	3.00462388	
PODN	0.37517211	0.11515977	3.00160240	
KANK1	0.37511587	0.11515977	3.00107873	

MATN3	0.37507007	0.11515977	3.00065229	
TBX20	0.37518859	0.11515977	3.00175584	
TNFSF12	0.37507663	0.11515977	3.00071340	
DPYSL2	0.37491306	0.11546844	2.99919070	
RGNEF	-0.37471749	0.11586728	-2.99737054	
TNP2	0.37467184	0.11586728	2.99694577	
MMP16	0.37459859	0.11592358	2.99626424	
PTPRB	0.37451380	0.11601514	2.99547537	
NCOA2	-0.37434793	0.11618770	-2.99393242	
KIAA0895	-0.37437136	0.11618770	-2.99415030	
N6AMT2	-0.37413258	0.11667753	-2.99192970	
AP1S3	-0.37402635	0.11668244	-2.99094197	
PAPSS2	0.37402226	0.11668244	2.99090393	
HBCBP	0.37355624	0.11693995	2.98657260	
ASB7	-0.37371860	0.11693995	-2.98808131	
OR52K1	0.37382711	0.11693995	2.98908982	
MAGEA3	-0.37357113	0.11693995	-2.98671092	
ART1	0.37377033	0.11693995	2.98856213	
PRB1	0.37345189	0.11693995	2.98560307	
SNCG	0.37345354	0.11693995	2.98561839	
SRI	-0.37364742	0.11693995	-2.98741980	yes
KL	0.37382165	0.11693995	2.98903911	
DUSP18	-0.37316787	0.11738781	-2.98296494	
PHLDB1	0.37314443	0.11738781	2.98274728	
CDH23	0.37318152	0.11738781	2.98309172	yes
KCNMB2	-0.37268998	0.11752837	-2.97852824	
CHRM4	0.37261272	0.11752837	2.97781117	
HDX	0.37252845	0.11752837	2.97702915	
PRIMA1	0.37291914	0.11752837	2.98065540	
BMPER	0.37221376	0.11752837	2.97410968	
ERCC3	-0.37226449	0.11752837	-2.97458028	
CNRIP1	0.37214544	0.11752837	2.97347608	
LOC339483	0.37274202	0.11752837	2.97901119	

FAM70B	0.37275354	0.11752837	2.97911815	yes
LCN10	0.37296125	0.11752837	2.98104638	yes
FAM108B1	-0.37247560	0.11752837	-2.97653882	
CLEC1A	0.37220171	0.11752837	2.97399793	
STRBP	-0.37219652	0.11752837	-2.97394981	yes
MAGEE1	0.37221181	0.11752837	2.97409160	
NEK4	-0.37214627	0.11752837	-2.97348376	yes
TRAF3	-0.37245747	0.11752837	-2.97637059	
NRP1	0.37237442	0.11752837	2.97560004	
C14orf143	-0.37273982	0.11752837	-2.97899082	
ZNF273	-0.37191873	0.11753406	-2.97137371	
C10orf72	0.37197368	0.11753406	2.97188320	
GTF2E2	-0.37183391	0.11753406	-2.97058737	yes
KIF24	-0.37194950	0.11753406	-2.97165909	
C6orf138	0.37183046	0.11753406	2.97055534	
HN1L	-0.37190680	0.11753406	-2.97126317	
ESR1	0.37136498	0.11788015	2.96624135	
CSTF2T	-0.37149019	0.11788015	-2.96740146	
SIRT5	-0.37149125	0.11788015	-2.96741136	
RASD2	0.37165361	0.11788015	2.96891602	
GRIA3	0.37144466	0.11788015	2.96697959	
ZNF503	0.37135452	0.11788015	2.96614438	
SYDE1	0.37152186	0.11788015	2.96769495	yes
IGJ	0.37127309	0.11797122	2.96539000	
JAM3	0.37122165	0.11797122	2.96491347	
MDP-1	-0.37082487	0.11812329	-2.96123886	
DLX2	0.37077545	0.11812329	2.96078126	yes
TFIP11	-0.37086618	0.11812329	-2.96162128	
GRK5	0.37071969	0.11812329	2.96026511	
PTGS1	0.37077401	0.11812329	2.96076799	
PTMS	0.37067643	0.11812329	2.95986462	yes
STX3	-0.37092171	0.11812329	-2.96213549	
TACC1	0.37066011	0.11812329	2.95971349	

GLT8D2	0.37099896	0.11812329	2.96285090	
STX8	-0.37087809	0.11812329	-2.96173162	
TRIM65	0.36994627	0.11841305	2.95310869	
CADM1	0.37031549	0.11841305	2.95652419	
IGKV1D-12	0.37043660	0.11841305	2.95764487	
NAT8L	0.37008109	0.11841305	2.95435565	
C9orf68	-0.36990860	0.11841305	-2.95276032	
AXL	0.37041110	0.11841305	2.95740884	
SDC4	-0.36999047	0.11841305	-2.95351747	
SFRP1	0.37049714	0.11841305	2.95820512	
TAL1	0.37003439	0.11841305	2.95392369	yes
LOC100133430	0.37029691	0.11841305	2.95635231	
MAP7D3	0.36999831	0.11841305	2.95359003	
OBFC1	-0.37016081	0.11841305	-2.95509310	
VANGL1	-0.37003109	0.11841305	-2.95389321	
SHE	0.36947066	0.11903005	2.94871153	
CCDC28A	-0.36946557	0.11903005	-2.94866444	
ZNF732	0.36960609	0.11903005	2.94996336	
LOXL3	0.36945692	0.11903005	2.94858455	
ZEB2	0.36961163	0.11903005	2.95001454	
MCAT	-0.36923376	0.11911796	-2.94652226	
KATNAL2	-0.36932294	0.11911796	-2.94734635	
FNDC1	0.36922914	0.11911796	2.94647954	
CP110	-0.36927143	0.11911796	-2.94687035	
FBLN7	0.36906488	0.11943726	2.94496203	
DBN1	0.36900747	0.11943726	2.94443175	yes
GRIN2A	0.36897633	0.11943726	2.94414403	
F10	0.36883139	0.11968252	2.94280545	
GPX4	-0.36879762	0.11968252	-2.94249357	
C10orf67	-0.36868990	0.11986209	-2.94149887	
TOMM34	-0.36844986	0.12045074	-2.93928282	yes
WASF3	0.36804270	0.12064575	2.93552550	
EYA4	-0.36811627	0.12064575	-2.93620430	

EVC	0.36807488	0.12064575	2.93582244	
ANK3	-0.36818170	0.12064575	-2.93680799	yes
MYBPHL	0.36826106	0.12064575	2.93754034	
BCCIP	-0.36822021	0.12064575	-2.93716338	
RNF7	-0.36822391	0.12064575	-2.93719746	
VASN	0.36783891	0.12067916	2.93364569	yes
NUP62	-0.36789141	0.12067916	-2.93412985	
CAMK1	0.36780638	0.12067916	2.93334558	
SGPL1	-0.36790026	0.12067916	-2.93421151	
HEPH	0.36778769	0.12067916	2.93317321	
CSF1	0.36758495	0.12100554	2.93130368	
SMYD2	-0.36758700	0.12100554	-2.93132259	
CHD5	0.36751902	0.12105929	2.93069578	
UCRC	-0.36734770	0.12144040	-2.92911648	
ATP6V0E2	0.36671756	0.12166249	2.92331050	
SLC9A8	-0.36701159	0.12166249	-2.92601907	
MOXD1	0.36686861	0.12166249	2.92470175	
MYCBP	-0.36705690	0.12166249	-2.92643652	
PMS2CL	-0.36683915	0.12166249	-2.92443041	
MSH5	-0.36681207	0.12166249	-2.92418100	
BNC2	0.36670877	0.12166249	2.92322952	
AFAP1	0.36709515	0.12166249	2.92678892	
KLF9	0.36706449	0.12166249	2.92650645	
WDR73	-0.36679980	0.12166249	-2.92406795	
PPAP2B	0.36669756	0.12166249	2.92312630	
CYTH3	0.36699523	0.12166249	2.92586830	
ERLIN2	-0.36661201	0.12170924	-2.92233842	
C14orf104	-0.36658679	0.12170924	-2.92210614	
GPD1	0.36632928	0.12193594	2.91973523	yes
EPB41L4B	-0.36641528	0.12193594	-2.92052694	
TLL1	0.36632301	0.12193594	2.91967752	
HTRA3	0.36645685	0.12193594	2.92090966	
TSGA14	-0.36616335	0.12228499	-2.91820786	

PRDM4	-0.36609673	0.12230482	-2.91759475	yes
AQP1	0.36606191	0.12230482	2.91727436	
ADCYAP1R1	0.36586232	0.12277991	2.91543787	
LRRN4CL	0.36579770	0.12283368	2.91484335	
C10orf28	-0.36569859	0.12299558	-2.91393169	
MRPL13	-0.36555594	0.12329437	-2.91261966	
EGFLAM	0.36532936	0.12337769	2.91053619	
ADCY4	0.36527362	0.12337769	2.91002376	
KIAA0802	0.36525331	0.12337769	2.90983697	
RSPO1	0.36540323	0.12337769	2.91121534	
LCAT	0.36536294	0.12337769	2.91084492	
C21orf62	0.36524628	0.12337769	2.90977241	
KIF26A	0.36517015	0.12346907	2.90907254	
TIMP2	0.36503265	0.12375350	2.90780876	
CLDN2	0.36497051	0.12380132	2.90723771	
FILIP1L	0.36484971	0.12393890	2.90612763	
CISH	0.36472710	0.12393890	2.90500116	
PLA2G5	0.36464618	0.12393890	2.90425779	
LOC653113	-0.36465258	0.12393890	-2.90431656	
VPS25	-0.36471823	0.12393890	-2.90491963	
KRT75	0.36469662	0.12393890	2.90472116	
ILK	0.36453938	0.12412840	2.90327675	
GAFA2	0.36430331	0.12454895	2.90110883	
GPR112	0.36419757	0.12454895	2.90013798	
ELN	0.36429535	0.12454895	2.90103578	
OSTCL	0.36412731	0.12454895	2.89949294	
TTLL5	-0.36425414	0.12454895	-2.90065736	yes
LGALS1	0.36414036	0.12454895	2.89961279	
B3GNT5	-0.36403240	0.12470245	-2.89862177	yes
IGHG1	0.36389904	0.12483171	2.89739777	
WBSCR17	0.36392475	0.12483171	2.89763369	
ZNF681	-0.36369139	0.12534309	-2.89549227	
SOX2	-0.36361857	0.12542774	-2.89482420	

TMEM116	-0.36355642	0.12547871	-2.89425402	
SAT1	-0.36344190	0.12555003	-2.89320356	yes
C3orf52	-0.36346218	0.12555003	-2.89338965	yes
ZNF396	-0.36334165	0.12558073	-2.89228419	
PLEKHG4	0.36324867	0.12558073	2.89143150	
ANGPT2	0.36329378	0.12558073	2.89184519	
LHCGR	0.36330957	0.12558073	2.89198997	
EFS	0.36277427	0.12564706	2.88708256	
CST1	0.36280951	0.12564706	2.88740556	
C1orf211	0.36276117	0.12564706	2.88696255	
DES	0.36295754	0.12564706	2.88876231	
GABRA2	0.36308766	0.12564706	2.88995524	
GRIA2	0.36278222	0.12564706	2.88715549	
C21orf123	0.36272208	0.12564706	2.88660435	
LOC390956	0.36285465	0.12564706	2.88781928	
ATP1B1	-0.36316271	0.12564706	-2.89064324	
NUP62CL	-0.36287670	0.12564706	-2.88802132	
MAPK12	0.36263629	0.12564706	2.88581821	
C1orf200	0.36267034	0.12564706	2.88613021	
LOC646508	0.36295175	0.12564706	2.88870924	
MRPS31	-0.36242232	0.12618299	-2.88385783	yes
NXNL1	0.36190083	0.12658976	2.87908237	
COL8A1	0.36201313	0.12658976	2.88011054	
KCTD18	-0.36203075	0.12658976	-2.88027183	
LOC201229	-0.36197590	0.12658976	-2.87976966	
LOXL1	0.36206117	0.12658976	2.88055039	
PCSK1	0.36217645	0.12658976	2.88160598	
FBLIM1	0.36188965	0.12658976	2.87898002	
CD248	0.36201302	0.12658976	2.88010949	
TRAPPC10	-0.36205473	0.12658976	-2.88049136	
NNAT	0.36183212	0.12663041	2.87845336	
ZNF239	0.36170362	0.12686356	2.87727729	
LRBA	-0.36166956	0.12686356	-2.87696556	yes

BMP2	0.36157914	0.12700964	2.87613811	
LOC387825	0.36136185	0.12756203	2.87415002	
RAMP3	0.36076023	0.12764289	2.86864825	
FAM101A	0.36098887	0.12764289	2.87073868	
LOC284297	0.36114996	0.12764289	2.87221179	
C5orf36	-0.36077935	0.12764289	-2.86882307	
C12orf74	-0.36120238	0.12764289	-2.87269122	
CHMP5	-0.36097869	0.12764289	-2.87064554	yes
PDE1B	0.36096303	0.12764289	2.87050242	
GOLPH3L	-0.36090376	0.12764289	-2.86996049	yes
C2orf29	-0.36110642	0.12764289	-2.87181365	
S100A1	0.36077048	0.12764289	2.86874201	
VIPR2	0.36128800	0.12764289	2.87347443	
SGK493	0.36102148	0.12764289	2.87103683	yes
CALML4	-0.36086783	0.12764289	-2.86963195	
ANO2	0.36058292	0.12807006	2.86702764	
HSD17B14	0.36044195	0.12824024	2.86573928	yes
RUNX1T1	0.36048384	0.12824024	2.86612214	
CFHR5	0.36038496	0.12828217	2.86521856	
GJA5	0.36029698	0.12842387	2.86441477	
SPON1	0.35997771	0.12874692	2.86149840	
GRID2	0.36006945	0.12874692	2.86233624	
TRMT6	-0.36000999	0.12874692	-2.86179323	
SNORD113-4	0.35998395	0.12874692	2.86155540	
RNASEH2C	0.35998854	0.12874692	2.86159730	
WTIP	0.35962251	0.12890932	2.85825523	yes
DOK1	0.35964285	0.12890932	2.85844096	yes
C12orf75	-0.35970279	0.12890932	-2.85898810	
TRIM61	0.35986390	0.12890932	2.86045914	
C5orf45	-0.35964803	0.12890932	-2.85848825	
PLA2G2A	0.35975658	0.12890932	2.85947923	
RHPN2	-0.35969872	0.12890932	-2.85895099	
NME7	-0.35943119	0.12909174	-2.85650903	

C10orf139	0.35939262	0.12909174	2.85615698	
USP36	0.35943788	0.12909174	2.85657006	
SKP2	-0.35947367	0.12909174	-2.85689667	yes
DHRS9	-0.35924897	0.12913720	-2.85484618	yes
NUDCD2	-0.35929986	0.12913720	-2.85531053	
MYB	-0.35928760	0.12913720	-2.85519866	yes
GEMIN6	-0.35919763	0.12916376	-2.85437774	
ZNF365	0.35907220	0.12942948	2.85323349	
SLC16A13	-0.35897643	0.12946095	-2.85235986	
RSAD1	0.35898896	0.12946095	2.85247414	
DAZL	0.35887679	0.12964407	2.85145110	
FOXC2	0.35880363	0.12974182	2.85078393	
ABHD2	-0.35869695	0.12980961	-2.84981107	
NPR3	0.35869764	0.12980961	2.84981742	
COCH	0.35863784	0.12986232	2.84927221	
SLC30A8	0.35842745	0.13026685	2.84735422	
JAM2	0.35843852	0.13026685	2.84745514	
LOC389458	0.35838226	0.13026695	2.84694227	
LOC441476	0.35834205	0.13026695	2.84657582	
PLCG1	0.35816324	0.13057068	2.84494629	
MID1IP1	-0.35817974	0.13057068	-2.84509666	
AQP4	-0.35808194	0.13069655	-2.84420554	
DACT3	0.35775064	0.13122194	2.84118767	
C7orf46	-0.35776112	0.13122194	-2.84128309	
SMURF1	-0.35777486	0.13122194	-2.84140825	
COQ10A	-0.35775668	0.13122194	-2.84124268	
RAB3A	0.35766242	0.13137143	2.84038422	
CD93	0.35754804	0.13142174	2.83934270	
COMMD2	-0.35752004	0.13142174	-2.83908779	yes
C7orf63	-0.35759488	0.13142174	-2.83976921	
ANKRD28	-0.35739463	0.13149712	-2.83794601	
UFC1	-0.35737033	0.13149712	-2.83772476	
SLCO5A1	0.35741464	0.13149712	2.83812820	

DYDC2	-0.35726882	0.13169099	-2.83680078	
PHLPP	-0.35720437	0.13176401	-2.83621422	
CYB5D1	-0.35710187	0.13177905	-2.83528139	
NHSL2	0.35709174	0.13177905	2.83518922	
NEXN	0.35707369	0.13177905	2.83502494	
PRB3	0.35693583	0.13209272	2.83377052	
TRIT1	-0.35686974	0.13217183	-2.83316929	
UNC45B	0.35682604	0.13217778	2.83277166	yes
CRIPAK	-0.35674858	0.13229441	-2.83206707	
ANKH	0.35670518	0.13229959	2.83167233	
DCHS1	0.35664984	0.13234401	2.83116900	
HSPA12B	0.35654152	0.13242552	2.83018384	
CACNA1G	0.35654448	0.13242552	2.83021075	
CBY1	-0.35645787	0.13256318	-2.82942316	
LPAR3	-0.35637017	0.13269089	-2.82862577	
OR6W1P	0.35633570	0.13269089	2.82831238	
ARHGEF10	0.35628599	0.13271763	2.82786040	
FAM148B	0.35605771	0.13305857	2.82578540	
PRH2	0.35613416	0.13305857	2.82648028	
THBS4	0.35607654	0.13305857	2.82595656	
SPERT	0.35593876	0.13331366	2.82470444	
LMOD3	0.35582766	0.13354336	2.82369490	
ADA	0.35576541	0.13355993	2.82312931	
TBC1D8	-0.35524678	0.13355993	-2.81841893	
PRR4	0.35565521	0.13355993	2.82212821	
OR6K6	0.35554620	0.13355993	2.82113802	
CTSS	-0.35561735	0.13355993	-2.82178429	
SPATS1	-0.35523734	0.13355993	-2.81833321	
MRAS	0.35559242	0.13355993	2.82155781	
WDR40A	-0.35516493	0.13355993	-2.81767575	
GFRA2	0.35530499	0.13355993	2.81894745	
GJA4	0.35565651	0.13355993	2.82213997	
AFF3	0.35521850	0.13355993	2.81816216	

SERPINA5	0.35550121	0.13355993	2.82072941	
AGPAT5	-0.35539569	0.13355993	-2.81977108	
BAI3	0.35536292	0.13355993	2.81947346	
CA9	0.35512413	0.13355993	2.81730541	
LBH	0.35539144	0.13355993	2.81973242	
EPX	0.35519600	0.13355993	2.81795783	
ZNF564	-0.35477416	0.13381829	-2.81412894	
C15orf33	-0.35480822	0.13381829	-2.81443802	
FHL1	0.35478721	0.13381829	2.81424738	
KCTD1	-0.35495364	0.13381829	-2.81575778	
C22orf34	0.35476105	0.13381829	2.81401000	
TLE4	-0.35489115	0.13381829	-2.81519062	yes
ANKRD30A	0.35486127	0.13381829	2.81491946	
RCAN1	0.35463983	0.13395077	2.81291009	
MEOX2	0.35466529	0.13395077	2.81314111	
ZNF322B	-0.35449041	0.13404353	-2.81155461	
PCDHGB1	0.35453971	0.13404353	2.81200184	
PTPRD	0.35452723	0.13404353	2.81188862	
ZNF385D	0.35436989	0.13430803	2.81046139	
CHRNA1	0.35383684	0.13432601	2.80562830	
IGHV7-81	0.35424604	0.13432601	2.80933819	
GSTA1	-0.35425908	0.13432601	-2.80945640	
HOXB6	0.35422627	0.13432601	2.80915893	yes
POL3S	0.35379695	0.13432601	2.80526672	
ITIH2	0.35382683	0.13432601	2.80553755	
LAMB1	0.35388425	0.13432601	2.80605800	
RBM47	-0.35382236	0.13432601	-2.80549709	
ROBO4	0.35376310	0.13432601	2.80495990	yes
C9orf95	-0.35395863	0.13432601	-2.80673224	
PTPRO	0.35411072	0.13432601	2.80811114	
SLC16A2	0.35413015	0.13432601	2.80828736	
CASQ1	0.35382346	0.13432601	2.80550701	
CORO6	0.35409549	0.13432601	2.80797303	

SNX29	-0.35395590	0.13432601	-2.80670754	
LOC100132755	0.35363920	0.13438830	2.80383712	yes
DSCR6	0.35359940	0.13438830	2.80347645	yes
TNXB	0.35354545	0.13438830	2.80298763	
RERGL	0.35361912	0.13438830	2.80365510	
SYTL3	-0.35358170	0.13438830	-2.80331604	
ACCSL	0.35349044	0.13443893	2.80248920	
PLXDC2	0.35341591	0.13455404	2.80181399	
ZNF385B	0.35331945	0.13461118	2.80094012	
CERKL	-0.35333817	0.13461118	-2.80110969	
FLRT2	0.35327536	0.13462622	2.80054081	
AFF2	0.35306590	0.13492689	2.79864380	
SMO	0.35310259	0.13492689	2.79897603	
RUVBL1	-0.35308694	0.13492689	-2.79883431	
CLIC1	-0.35283861	0.13528794	-2.79658584	
FAM174A	-0.35284594	0.13528794	-2.79665220	
ITIH5L	0.35288664	0.13528794	2.79702063	
CXorf41	-0.35277738	0.13536050	-2.79603151	
LDLRAD2	0.35270994	0.13545375	2.79542108	
ART3	0.35248177	0.13591346	2.79335607	
P4HTM	-0.35237536	0.13591346	-2.79239320	
TRIM68	-0.35247901	0.13591346	-2.79333105	
RNF2	-0.35242389	0.13591346	-2.79283231	yes
SPAG16	-0.35238299	0.13591346	-2.79246224	
CTSH	-0.35218189	0.13596382	-2.79064287	
GALK2	-0.35223389	0.13596382	-2.79111330	
GPR3	0.35220083	0.13596382	2.79081419	
SLC43A3	0.35226726	0.13596382	2.79141518	
TCEAL5	0.35216497	0.13596382	2.79048984	
PURG	0.35210303	0.13604016	2.78992959	
DPY30	-0.35205137	0.13608250	-2.78946228	yes
ARHGEF15	0.35191290	0.13641358	2.78821007	yes
RANGRF	0.35181230	0.13661916	2.78730040	

PANK2	-0.35166826	0.13697007	-2.78599815	
MYRIP	0.35155023	0.13710508	2.78493114	
APITD1	-0.35156482	0.13710508	-2.78506302	
C11orf20	0.35144203	0.13718973	2.78395322	yes
ACAT2	-0.35148459	0.13718973	-2.78433788	
ADAMTSL4	0.35140869	0.13718973	2.78365193	
LCA5L	-0.35120025	0.13737003	-2.78176839	
CCDC138	-0.35120175	0.13737003	-2.78178192	yes
CNOT6	-0.35123870	0.13737003	-2.78211579	yes
CD59	-0.35126197	0.13737003	-2.78232601	
GTF3A	-0.35114498	0.13742595	-2.78126901	
NOVA2	0.35099855	0.13778729	2.77994619	
RAB9B	0.35095486	0.13780468	2.77955152	
PSMG3	-0.35088559	0.13790794	-2.77892588	
LDB3	0.35083471	0.13794965	2.77846637	
ZMAT2	-0.35079518	0.13795336	-2.77810942	
GATA5	0.35056117	0.13822404	2.77599637	
CSRP1	0.35056587	0.13822404	2.77603882	
VASH1	0.35065186	0.13822404	2.77681518	
PCGF1	-0.35062822	0.13822404	-2.77660181	
ANKRD32	-0.35026633	0.13908797	-2.77333496	
TUBB2C	-0.34987461	0.13963739	-2.76980054	
EXPH5	-0.35001621	0.13963739	-2.77107798	yes
PGM5	0.34990240	0.13963739	2.77005122	
ZDHHHC13	-0.34999316	0.13963739	-2.77087000	yes
SNORD114-3	0.34987998	0.13963739	2.76984900	yes
RUFY1	-0.34993742	0.13963739	-2.77036718	
CNDP2	-0.34983438	0.13964459	-2.76943763	
SEZ6L	0.34977229	0.13969785	2.76887757	
IGF2	0.34972013	0.13969785	2.76840711	
PLEKHG7	-0.34966653	0.13969785	-2.76792375	
INS-IGF2	0.34966700	0.13969785	2.76792798	
EML6	-0.34962582	0.13970717	-2.76755662	

NRF1	-0.34950929	0.13997343	-2.76650577	
CCDC148	-0.34944868	0.14005043	-2.76595926	
WDR49	-0.34932665	0.14033602	-2.76485909	
IGSF9B	0.34923098	0.14041106	2.76399668	
MNX1	0.34922888	0.14041106	2.76397777	
CCDC104	-0.34905007	0.14051835	-2.76236614	
PDE6G	0.34911016	0.14051835	2.76290775	
RMI1	-0.34900861	0.14051835	-2.76199256	
FAM49A	0.34902971	0.14051835	2.76218274	
SFI1	-0.34906968	0.14051835	-2.76254289	
CHMP2A	-0.34892341	0.14067998	-2.76122479	
FOXB2	0.34884505	0.14081853	2.76051880	
COL16A1	0.34872518	0.14109875	2.75943881	
LOC100129827	-0.34823078	0.14112649	-2.75498636	
RAMP1	0.34849164	0.14112649	2.75733532	yes
STK38	-0.34840165	0.14112649	-2.75652490	
FANCF	-0.34855750	0.14112649	-2.75792843	yes
SYT14	0.34834513	0.14112649	2.75601593	
DNAJC15	-0.34855544	0.14112649	-2.75790995	
HOXD4	0.34824780	0.14112649	2.75513961	yes
ACTBL2	0.34835639	0.14112649	2.75611733	
ASCC1	-0.34827569	0.14112649	-2.75539075	yes
RBM23	-0.34829729	0.14112649	-2.75558524	
DHX32	-0.34861694	0.14112649	-2.75846380	yes
TEKT3	-0.34865717	0.14112649	-2.75882617	
ESAM	0.34845247	0.14112649	2.75698259	
TMEM132C	0.34816760	0.14121494	2.75441759	
ZFPM2	0.34807283	0.14128459	2.75356446	
INSC	0.34809167	0.14128459	2.75373406	
AOF1	-0.34799974	0.14140715	-2.75290659	
C11orf49	-0.34791986	0.14155304	-2.75218764	
RPL41	-0.34778564	0.14180231	-2.75097981	
TTC5	-0.34777271	0.14180231	-2.75086345	

C16orf82	0.34763649	0.14201489	2.74963778	
PPFIA2	0.34765315	0.14201489	2.74978767	
C2orf50	-0.34751375	0.14225854	-2.74853364	
AGBL2	-0.34749136	0.14225854	-2.74833217	
ACYP2	-0.34743613	0.14232120	-2.74783545	
C20orf160	0.34716714	0.14261170	2.74541632	yes
CITED1	0.34730676	0.14261170	2.74667183	
OGN	0.34726173	0.14261170	2.74626689	
TTC12	-0.34718658	0.14261170	-2.74559113	
THBS2	0.34723407	0.14261170	2.74601815	
GPR176	0.34712091	0.14264414	2.74500069	
FABP3	0.34697775	0.14276867	2.74371361	
FAM127C	0.34699368	0.14276867	2.74385678	
RPL34	-0.34697448	0.14276867	-2.74368414	
PTGES3	-0.34687517	0.14287901	-2.74279149	
C1orf125	-0.34672279	0.14287901	-2.74142186	
KRAS	-0.34680888	0.14287901	-2.74219561	yes
CD320	0.34678602	0.14287901	2.74199012	
BTG4	-0.34676023	0.14287901	-2.74175834	
RP9	0.34673836	0.14287901	2.74156179	
ABCA13	-0.34667739	0.14290957	-2.74101388	
SNORD50A	0.34651264	0.14310617	2.73953348	
KCNA5	0.34650809	0.14310617	2.73949257	
HSPB11	-0.34650591	0.14310617	-2.73947299	
SPAG1	-0.34647440	0.14310617	-2.73918987	yes
BTBD9	-0.34634877	0.14338922	-2.73806131	yes
WDR41	-0.34631370	0.14338922	-2.73774623	
ARAP3	0.34628299	0.14338922	2.73747043	
COQ7	-0.34610301	0.14340859	-2.73585388	
VTI1B	-0.34602392	0.14340859	-2.73514368	
ERLIN1	-0.34604833	0.14340859	-2.73536289	yes
CMC1	-0.34605390	0.14340859	-2.73541292	
LTF	0.34604985	0.14340859	2.73537650	

LOC407835	0.34606087	0.14340859	2.73547548	
SYTL2	-0.34611568	0.14340859	-2.73596770	
C2orf82	0.34590295	0.14370040	2.73405751	
FAM59B	0.34555501	0.14387993	2.73093421	
C11orf65	-0.34559956	0.14387993	-2.73133402	
HECW1	0.34503478	0.14387993	2.72626668	
KIAA0556	-0.34550917	0.14387993	-2.73052281	
C9orf4	0.34554704	0.14387993	2.73086270	yes
TCP11L2	-0.34490936	0.14387993	-2.72514190	
SPAG8	-0.34543183	0.14387993	-2.72982880	
LOC100133408	0.34524843	0.14387993	2.72818323	
LRRC67	-0.34497219	0.14387993	-2.72570538	
HOXD3	0.34506204	0.14387993	2.72651120	
TXNDC6	-0.34546121	0.14387993	-2.73009244	
FRRS1	-0.34488590	0.14387993	-2.72493149	
RGS21	0.34554383	0.14387993	2.73083390	
MTF1	-0.34525285	0.14387993	-2.72822290	yes
NAT5	-0.34501105	0.14387993	-2.72605393	
GMPR2	-0.34499962	0.14387993	-2.72595133	
REEP2	0.34518309	0.14387993	2.72759704	
ATP6V1D	-0.34510837	0.14387993	-2.72692679	
C17orf75	-0.34537580	0.14387993	-2.72932599	yes
CRTC3	0.34494512	0.14387993	2.72546261	
BCAR3	-0.34517012	0.14387993	-2.72748075	
CD164	-0.34528174	0.14387993	-2.72848207	
FGF18	0.34532665	0.14387993	2.72888505	
GAL3ST3	0.34566587	0.14387993	2.73192923	
EEF1E1	-0.34545555	0.14387993	-2.73004167	
ACYP1	-0.34554923	0.14387993	-2.73088230	
SLC12A6	-0.34533294	0.14387993	-2.72894146	
OR52B6	0.34476703	0.14403165	2.72386557	
LOC57228	-0.34476826	0.14403165	-2.72387666	
PTH1R	0.34470121	0.14403165	2.72327543	

CASQ2	0.34470041	0.14403165	2.72326825	
NRK	0.34465728	0.14405863	2.72288164	
RC3H1	-0.34452202	0.14410004	-2.72166902	yes
HCN1	0.34453822	0.14410004	2.72181432	
TAF7	-0.34450440	0.14410004	-2.72151116	
TMEM62	-0.34460743	0.14410004	-2.72243473	
ZC3H12B	0.34444758	0.14417452	2.72100186	
hCG_1793639	0.34440826	0.14418895	2.72064944	
RAB9P1	0.34436454	0.14421860	2.72025759	
RASIP1	0.34432136	0.14424646	2.71987063	yes
PZP	-0.34424384	0.14436851	-2.71917596	
ZNF561	-0.34421579	0.14436851	-2.71892460	yes
ISLR2	0.34402157	0.14455553	2.71718447	
SSTR5	0.34402490	0.14455553	2.71721429	
WBSCR16	0.34405729	0.14455553	2.71750445	
GGTLC2	0.34410388	0.14455553	2.71792187	
STK16	-0.34397837	0.14458408	-2.71679746	
XG	0.34388380	0.14478962	2.71595031	
APCDD1L	0.34384301	0.14481004	2.71558499	
CEACAM19	0.34378954	0.14487424	2.71510610	
FMN1	-0.34365085	0.14490634	-2.71386402	
NRN1	0.34365993	0.14490634	2.71394533	
MFAP5	0.34357397	0.14490634	2.71317563	
FLYWCH1	0.34366660	0.14490634	2.71400505	
PPAPDC3	0.34357171	0.14490634	2.71315543	
FAM38A	0.34360050	0.14490634	2.71341320	
ARPP-21	0.34292532	0.14496902	2.70736994	yes
RAET1E	-0.34302239	0.14496902	-2.70823849	
C17orf77	0.34331295	0.14496902	2.71083884	
LRRC34	-0.34281799	0.14496902	-2.70640972	
TBC1D21	0.34312783	0.14496902	2.70918198	
ECM1	0.34293680	0.14496902	2.70747262	
QPRT	0.34324231	0.14496902	2.71020659	

LATS2	0.34348590	0.14496902	2.71238710	
IGHV1-69	0.34318967	0.14496902	2.70973542	
LMCD1	0.34322372	0.14496902	2.71004022	yes
ZNF850P	0.34307621	0.14496902	2.70872005	
FADS3	0.34334457	0.14496902	2.71112187	yes
OR14I1	0.34276769	0.14496902	2.70595977	
NRAS	-0.34292366	0.14496902	-2.70735509	
PCBD1	-0.34281166	0.14496902	-2.70635303	
SS18L2	-0.34322827	0.14496902	-2.71008091	
QRSL1	-0.34301469	0.14496902	-2.70816959	yes
LOC645605	0.34297595	0.14496902	2.70782290	
SLC17A1	0.34342507	0.14496902	2.71184252	
PRRG4	-0.34299958	0.14496902	-2.70803436	
APOO	-0.34342659	0.14496902	-2.71185612	
AKAP4	0.34283115	0.14496902	2.70652740	
FRMPD4	0.34276238	0.14496902	2.70591219	
LY75	-0.34271261	0.14502286	-2.70546700	
VWA3B	-0.34263232	0.14518178	-2.70474887	
SLC22A15	-0.34259799	0.14518270	-2.70444181	
FSTL3	0.34207262	0.14533247	2.69974453	yes
OR2L13	0.34214606	0.14533247	2.70040101	
SLC6A17	0.34209097	0.14533247	2.69990853	yes
LAMB2	0.34239838	0.14533247	2.70265683	
RFPL4B	0.34224382	0.14533247	2.70127490	
LCMT1	-0.34245896	0.14533247	-2.70319846	
MRPS33	-0.34231484	0.14533247	-2.70190984	
SHQ1	-0.34245979	0.14533247	-2.70320589	
SMPD3	-0.34235270	0.14533247	-2.70224834	
SLC17A7	0.34204627	0.14533247	2.69950902	yes
SORCS2	0.34222831	0.14533247	2.70113626	
RHO	0.34206037	0.14533247	2.69963505	
ATXN2	-0.34221677	0.14533247	-2.70103306	yes
MOGAT2	0.34238972	0.14533247	2.70257933	

ELMO1	0.34212145	0.14533247	2.70018097	
TIGD4	-0.34192444	0.14563579	-2.69842015	
CES8	-0.34185831	0.14574759	-2.69782920	
GABRP	-0.34174707	0.14589907	-2.69683525	
BBS4	-0.34174804	0.14589907	-2.69684393	
TCF21	0.34170049	0.14594377	2.69641908	
MAGEA13P	0.34152347	0.14626786	2.69483770	
SLC38A11	0.34150588	0.14626786	2.69468052	
ZEB1	0.34156298	0.14626786	2.69519066	
KIAA0753	-0.34145602	0.14632423	-2.69423525	
ADH6	-0.34137409	0.14639925	-2.69350348	
DENND1B	-0.34113438	0.14639925	-2.69136294	
EPHB4	0.34117763	0.14639925	2.69174907	
KIF5A	0.34122592	0.14639925	2.69218026	
C20orf111	-0.34120817	0.14639925	-2.69202179	
NR2F1	0.34123379	0.14639925	2.69225056	
CAPN2	-0.34113349	0.14639925	-2.69135499	
IFI27L2	0.34131948	0.14639925	2.69301578	
SLC7A3	0.34135504	0.14639925	2.69333331	
SERPINA12	0.34103865	0.14653666	2.69050826	
STK32A	0.34098429	0.14653666	2.69002299	
ANXA1	-0.34094619	0.14653666	-2.68968282	
FAM164A	-0.34087848	0.14653666	-2.68907850	
C20orf12	-0.34094643	0.14653666	-2.68968499	
CAMK2N1	0.34087138	0.14653666	2.68901506	
IFT80	-0.34086099	0.14653666	-2.68892236	
GPHB5	0.34073398	0.14686114	2.68778875	
PAPOLB	0.34063281	0.14709668	2.68688592	
LYPD6B	-0.34053822	0.14719490	-2.68604199	
NME2	0.34055963	0.14719490	2.68623299	
FAM159B	0.34020617	0.14758594	2.68307984	
CSNK2A1	-0.34037779	0.14758594	-2.68461065	yes
FAM169A	-0.34017301	0.14758594	-2.68278415	

AZIN1	-0.34016137	0.14758594	-2.68268031	yes
SQLE	-0.34021747	0.14758594	-2.68318067	
WRB	-0.34033316	0.14758594	-2.68421259	
RIN3	0.34030113	0.14758594	2.68392685	
SLITRK2	0.34021429	0.14758594	2.68315227	
EDIL3	0.33978569	0.14775059	2.67933056	
CNN1	0.33994621	0.14775059	2.68076164	
MPP7	-0.34000629	0.14775059	-2.68129735	
CSRP2	0.33980536	0.14775059	2.67950587	
PLXND1	0.33984685	0.14775059	2.67987576	yes
SLC25A42	0.33992539	0.14775059	2.68057604	yes
TAGLN3	-0.33994299	0.14775059	-2.68073289	
C3orf34	-0.33978668	0.14775059	-2.67933936	
RASL10B	0.33982134	0.14775059	2.67964840	yes
COG7	-0.34003930	0.14775059	-2.68159171	
SVEP1	0.33969580	0.14794919	2.67852921	
ENHO	0.33966040	0.14795860	2.67821368	
NRN1L	0.33953546	0.14805239	2.67710017	
MAP3K15	0.33957259	0.14805239	2.67743107	
MUC6	0.33953936	0.14805239	2.67713491	
TTC6	-0.33933964	0.14826743	-2.67535522	
KCNRG	-0.33934459	0.14826743	-2.67539936	
OCLN	-0.33937405	0.14826743	-2.67566181	
LOC552889	-0.33929068	0.14826743	-2.67491902	yes
NECAB1	0.33933263	0.14826743	2.67529279	
GFPT2	0.33927827	0.14826743	2.67480841	
NFX1	-0.33916785	0.14853865	-2.67382472	yes
OR8K5	0.33899302	0.14892179	2.67226748	
MMRN2	0.33902115	0.14892179	2.67251800	
ZNF488	0.33886529	0.14897240	2.67112993	
MUC15	-0.33884889	0.14897240	-2.67098384	yes
FGF21	0.33889392	0.14897240	2.67138491	
CASP8	-0.33886519	0.14897240	-2.67112901	

C1QTNF5	0.33866300	0.14916480	2.66932873	yes
MRPL53	-0.33861798	0.14916480	-2.66892787	
OR4X2	0.33853524	0.14916480	2.66819135	
HEBP2	-0.33860466	0.14916480	-2.66880927	yes
TTLL6	-0.33859089	0.14916480	-2.66868676	
ANK1	0.33847112	0.14916480	2.66762059	
FAM20A	0.33849668	0.14916480	2.66784812	
CALB1	0.33856286	0.14916480	2.66843715	
TTC29	-0.33872564	0.14916480	-2.66988642	
RICS	-0.33858001	0.14916480	-2.66858986	yes
FSIP1	-0.33831721	0.14936562	-2.66625071	
POLR2H	-0.33833272	0.14936562	-2.66638876	yes
CYTH1	-0.33833094	0.14936562	-2.66637293	
EDNRB	0.33815825	0.14971561	2.66483620	
SATB2	0.33815292	0.14971561	2.66478878	
LOC100128979	0.33802559	0.14986705	2.66365589	
TCL6	0.33791758	0.14986705	2.66269502	
IGBP1	-0.33794414	0.14986705	-2.66293130	
IFT57	-0.33794557	0.14986705	-2.66294399	
NR2E1	0.33807308	0.14986705	2.66407840	
TMEM88	0.33796848	0.14986705	2.66314781	
EFCAB10	-0.33696492	0.15025200	-2.65422528	
LOC100131720	0.33713011	0.15025200	2.65569326	
LAMC3	0.33698041	0.15025200	2.65436286	
DACH2	0.33737842	0.15025200	2.65790040	
CRYGA	0.33708143	0.15025200	2.65526060	
C14orf50	-0.33718512	0.15025200	-2.65618216	
LELP1	0.33698539	0.15025200	2.65440713	
TTC16	-0.33689309	0.15025200	-2.65358697	
DMBT1	0.33762269	0.15025200	2.66007222	
GPR116	0.33770719	0.15025200	2.66082369	
EBF3	0.33772289	0.15025200	2.66096331	yes
GTPBP8	-0.33761990	0.15025200	-2.66004748	

HNF4G	-0.33696830	0.15025200	-2.65425527	
IK	-0.33760782	0.15025200	-2.65994002	
LMO7	-0.33737695	0.15025200	-2.65788730	
SPIN2B	0.33731359	0.15025200	2.65732404	
PEX7	-0.33701063	0.15025200	-2.65463141	
HHAT	-0.33688635	0.15025200	-2.65352715	
MAPK10	-0.33733706	0.15025200	-2.65753273	
ANKRD5	-0.33732686	0.15025200	-2.65744202	
RABL5	-0.33749426	0.15025200	-2.65893030	
EFCAB6	-0.33733245	0.15025200	-2.65749169	
VWA1	0.33693100	0.15025200	2.65392388	yes
VIM	0.33713348	0.15025200	2.65572322	
SP6	0.33709889	0.15025200	2.65541575	
LRP11	-0.33693455	0.15025200	-2.65395535	
RCSD1	0.33685799	0.15025200	2.65327519	
STK17A	-0.33742721	0.15025200	-2.65833417	
TRIP4	-0.33749421	0.15025200	-2.65892987	yes
MTSS1	-0.33751520	0.15025200	-2.65911643	
NXPH3	0.33670638	0.15028038	2.65192828	
EPYC	0.33671117	0.15028038	2.65197085	
OTUD1	-0.33669334	0.15028038	-2.65181245	
UQCC	-0.33670160	0.15028038	-2.65188576	
IKBKAP	-0.33680766	0.15028038	-2.65282797	
KLRAQ1	-0.33653535	0.15052829	-2.65040913	
ACHE	0.33657892	0.15052829	2.65079606	yes
CHST3	0.33652878	0.15052829	2.65035076	
FBLN5	0.33571893	0.15070342	2.64316145	
FAM43A	0.33570454	0.15070342	2.64303376	yes
WFDC6	-0.33589082	0.15070342	-2.64468680	
CYP2B7P1	-0.33571718	0.15070342	-2.64314599	
DLG3	-0.33580384	0.15070342	-2.64391491	
C6orf199	-0.33597722	0.15070342	-2.64545364	
C6orf224	-0.33640904	0.15070342	-2.64928741	

LDOC1	0.33606533	0.15070342	2.64623572	
CHRD12	0.33605557	0.15070342	2.64614915	
EVX2	0.33630427	0.15070342	2.64835704	yes
ITGA7	0.33591698	0.15070342	2.64491904	yes
RASL11A	0.33628870	0.15070342	2.64821879	
ACP6	-0.33596358	0.15070342	-2.64533260	
TM6SF2	0.33593723	0.15070342	2.64509872	
GRAMD1B	-0.33572106	0.15070342	-2.64318037	
ODF2L	-0.33609526	0.15070342	-2.64650148	
PLEKHG2	0.33595404	0.15070342	2.64524792	
FLJ35776	-0.33619448	0.15070342	-2.64738231	
MRPL44	-0.33598977	0.15070342	-2.64556505	
TTR	0.33593180	0.15070342	2.64505053	
IFT88	-0.33595865	0.15070342	-2.64528885	
FRMPD3	0.33577981	0.15070342	2.64370168	
SPRYD5	0.33602899	0.15070342	2.64591320	
CILP	0.33581450	0.15070342	2.64400951	
ATP5J2	-0.33576244	0.15070342	-2.64354757	
CPT1C	0.33536038	0.15120973	2.63998064	
AMAC1	0.33552461	0.15120973	2.64143741	
DAB1	0.33535382	0.15120973	2.63992246	
GPC2	0.33534515	0.15120973	2.63984558	
GAS1	0.33539593	0.15120973	2.64029597	
NPPC	0.33539100	0.15120973	2.64025221	
TOX2	0.33538530	0.15120973	2.64020167	
ALPPL2	0.33527135	0.15136112	2.63919102	
LOC728115	-0.33519128	0.15153465	-2.63848097	
GPRASP2	0.33498537	0.15161133	2.63665513	
TMEM71	-0.33505751	0.15161133	-2.63729476	
GPBAR1	0.33505510	0.15161133	2.63727340	
GABRB1	0.33512856	0.15161133	2.63792478	
GAS6	0.33498950	0.15161133	2.63669179	
ILDR1	-0.33495580	0.15161133	-2.63639295	

C1orf149	-0.33502089	0.15161133	-2.63697006	
TLL1	-0.33486364	0.15172108	-2.63557601	
LRFN1	0.33488428	0.15172108	2.63575894	
ASB5	0.33482029	0.15176649	2.63519174	
VWA5B1	0.33474968	0.15180102	2.63456588	
MPZL3	-0.33475391	0.15180102	-2.63460330	
HIST1H2BD	-0.33462428	0.15188237	-2.63345443	
PGR	0.33463168	0.15188237	2.63351999	
ZNF701	-0.33460518	0.15188237	-2.63328519	
FOXH1	0.33461513	0.15188237	2.63337334	
ANKRD29	0.33449020	0.15206690	2.63226631	
CSPP1	-0.33445855	0.15206690	-2.63198588	
CSRNP3	0.33446205	0.15206690	2.63201688	
COL27A1	0.33443159	0.15206690	2.63174693	
ANGPT4	0.33435882	0.15221643	2.63110219	
ABCA8	0.33428904	0.15235557	2.63048407	
DNAL1	-0.33425583	0.15236621	-2.63018982	
BBS5	-0.33418236	0.15243455	-2.62953903	
ABHD6	-0.33415274	0.15243455	-2.62927670	yes
WNT3	0.33414594	0.15243455	2.62921640	
MUC20	-0.33405964	0.15263228	-2.62845210	
C20orf166	0.33386560	0.15274903	2.62673371	
HAS1	0.33387339	0.15274903	2.62680275	yes
F11R	-0.33390730	0.15274903	-2.62710302	
RAGE	-0.33385026	0.15274903	-2.62659789	
DYNC2H1	-0.33387836	0.15274903	-2.62684669	
RABGAP1L	-0.33384611	0.15274903	-2.62656114	
TJP2	-0.33378696	0.15285171	-2.62603744	
WDR26	-0.33373718	0.15292146	-2.62559671	yes
IFT122	-0.33369610	0.15296064	-2.62523298	
NUDT1	0.33365170	0.15301156	2.62483994	
PTPN14	0.33352047	0.15336904	2.62367834	
IGF1R	-0.33344305	0.15353688	-2.62299313	

ZNF266	-0.33337991	0.15365440	-2.62243427	
DYDC1	-0.33326340	0.15379823	-2.62140325	
FBXL16	0.33330218	0.15379823	2.62174644	
MDM1	-0.33324960	0.15379823	-2.62128121	
LOC100128225	0.33265120	0.15396312	2.61598798	
AHSA1	-0.33257285	0.15396312	-2.61529520	
DUSP14	-0.33298112	0.15396312	-2.61890593	
C7orf13	-0.33263801	0.15396312	-2.61587141	
CXorf39	-0.33266721	0.15396312	-2.61612958	yes
EPO	0.33305428	0.15396312	2.61955305	
ST6GALNAC6	-0.33260357	0.15396312	-2.61556682	
HOXA2	0.33264095	0.15396312	2.61589740	
HOXB7	0.33255024	0.15396312	2.61509536	
FLJ42177	-0.33276896	0.15396312	-2.61702936	
MLF1	-0.33257582	0.15396312	-2.61532152	
MYO5B	-0.33276370	0.15396312	-2.61698290	
C1orf190	0.33258185	0.15396312	2.61537477	
SPATA6	-0.33308762	0.15396312	-2.61984799	
LZTFL1	-0.33268907	0.15396312	-2.61632285	yes
LRRC36	-0.33308997	0.15396312	-2.61986881	
SENP2	-0.33288700	0.15396312	-2.61807340	
BCORL1	0.33260140	0.15396312	2.61554770	
ACTC1	0.33266378	0.15396312	2.61609923	
C8A	0.33266719	0.15396312	2.61612945	
USHBP1	0.33284664	0.15396312	2.61771640	yes
CCND2	0.33269082	0.15396312	2.61633836	
RASA3	-0.33248206	0.15410002	-2.61449257	
GJC1	0.33148066	0.15411727	2.60564429	
ADCY3	0.33075008	0.15411727	2.59919513	
RAPGEF4	0.33065884	0.15411727	2.59839008	
C9orf9	-0.33031608	0.15411727	-2.59536653	
KATNA1	-0.33091772	0.15411727	-2.60067447	yes
DIRC1	0.33018713	0.15411727	2.59422941	

C16orf55	-0.33012661	0.15411727	-2.59369566	
TTC39C	-0.33033603	0.15411727	-2.59554254	yes
CD200R1	-0.33106741	0.15411727	-2.60199567	
PRICKLE1	0.33026112	0.15411727	2.59488183	
C16orf11	0.33038834	0.15411727	2.59600392	
CD300LG	0.33085922	0.15411727	2.60015827	
CILP2	0.33135781	0.15411727	2.60455941	
ADRA2C	0.33103159	0.15411727	2.60167948	yes
CCDC147	-0.33056111	0.15411727	-2.59752787	
IMP5	0.33202437	0.15411727	2.61044721	
GSX2	0.33034757	0.15411727	2.59564432	
DLG2	0.33208216	0.15411727	2.61095788	
DPT	0.33106973	0.15411727	2.60201619	
C4orf34	-0.33236777	0.15411727	-2.61348216	
UNC84A	-0.33210693	0.15411727	-2.61117678	
FBXO10	0.33217473	0.15411727	2.61177597	yes
TSPAN16	0.33211419	0.15411727	2.61124095	
USP21	-0.33233023	0.15411727	-2.61315034	
GCLM	-0.33191556	0.15411727	-2.60948580	
LYPD5	0.33144669	0.15411727	2.60534423	
C21orf125	0.33195267	0.15411727	2.60981363	
LOC29034	0.33226012	0.15411727	2.61253063	
ANXA11	-0.33012071	0.15411727	-2.59364365	
HOXB5	0.33024253	0.15411727	2.59471794	
ANKRD42	-0.33241138	0.15411727	-2.61386765	
NCRNA00082	-0.33134156	0.15411727	-2.60441595	
OR6F1	0.33070361	0.15411727	2.59878513	
IGFALS	0.33008414	0.15411727	2.59332121	
ITGA5	0.33182006	0.15411727	2.60864205	
LOC401296	0.33233203	0.15411727	2.61316628	
MAGEB3	0.33180434	0.15411727	2.60850317	
NUBP1	-0.33121636	0.15411727	-2.60331060	
VRK3	-0.33022801	0.15411727	-2.59458983	

RASD1	0.33067416	0.15411727	2.59852530	
FXD5	0.33012132	0.15411727	2.59364903	
SLCO1C1	0.33105761	0.15411727	2.60190916	
C21orf58	-0.33172697	0.15411727	-2.60781970	
BCAS3	-0.33022426	0.15411727	-2.59455683	
ULK4	-0.33212364	0.15411727	-2.61132446	
ASXL2	-0.33124667	0.15411727	-2.60357814	yes
BAIAP2L1	-0.33014628	0.15411727	-2.59386914	yes
PCDHGA4	0.33064282	0.15411727	2.59824875	
SCUBE2	0.33134269	0.15411727	2.60442595	
CADM3	0.33136077	0.15411727	2.60458558	
REN	0.33207761	0.15411727	2.61091761	yes
RNF6	-0.33006046	0.15411727	-2.59311240	yes
hCG_2019139	0.33122634	0.15411727	2.60339870	
SMAP2	-0.33115024	0.15411727	-2.60272689	
BMP1	0.33174500	0.15411727	2.60797897	
DST	0.33008225	0.15411727	2.59330459	
TEAD4	0.33008339	0.15411727	2.59331464	
TPO	0.33049640	0.15411727	2.59695705	yes
VDAC3	-0.33143068	0.15411727	-2.60520292	yes
CACNB3	-0.33061833	0.15411727	-2.59803268	
NSUN7	-0.33020112	0.15411727	-2.59435270	
SNX22	0.33091462	0.15411727	2.60064719	
ADM2	0.33072339	0.15411727	2.59895964	
GRHL2	-0.33196259	0.15411727	-2.60990130	
TUBA4B	-0.33139179	0.15411727	-2.60485945	
CALM1	-0.33079327	0.15411727	-2.59957624	
SPG11	-0.33216696	0.15411727	-2.61170728	
PREX2	0.33101873	0.15411727	2.60156605	
ASXL3	0.33098549	0.15411727	2.60127260	
FAM117A	0.33072201	0.15411727	2.59894749	
CAPNS1	-0.33041776	0.15411727	-2.59626340	
SDPR	0.33062627	0.15411727	2.59810273	

MGC16121	0.33135388	0.15411727	2.60452471	
UBE2CBP	-0.33035527	0.15411727	-2.59571218	
MYOM2	0.33036797	0.15411727	2.59582422	
CHRD1	0.33065792	0.15411727	2.59838199	
ZBTB47	0.33106532	0.15411727	2.60197723	
ADAMTS4	0.33118673	0.15411727	2.60304902	
NRG2	0.33226467	0.15411727	2.61257081	
AKAP12	0.33053384	0.15411727	2.59728732	
JMJD2A	-0.33038777	0.15411727	-2.59599884	
IFT140	-0.33033271	0.15411727	-2.59551327	
DNAJC6	-0.33101930	0.15411727	-2.60157102	
PPP4R1	-0.33022775	0.15411727	-2.59458754	yes
DLX5	0.32995949	0.15417606	2.59222225	
NPTX2	0.32996121	0.15417606	2.59223740	
UBE2H	-0.33000830	0.15417606	-2.59265255	
POF1B	-0.32989904	0.15428989	-2.59168934	
IGSF5	0.32963973	0.15467822	2.58940377	
GAP43	0.32973335	0.15467822	2.59022879	
GUCY1B3	0.32962063	0.15467822	2.58923538	
ARHGAP6	0.32969418	0.15467822	2.58988365	
CBX2	0.32967608	0.15467822	2.58972411	
KCNQ4	0.32969165	0.15467822	2.58986133	
SELM	0.32950085	0.15490321	2.58817986	yes
KIAA0319	-0.32950986	0.15490321	-2.58825932	
FBXL13	-0.32946101	0.15493679	-2.58782882	
AMPD1	0.32943473	0.15493679	2.58759731	
ANUBL1	-0.32940759	0.15493679	-2.58735815	
RILPL1	0.32934348	0.15496626	2.58679333	
HSDL1	-0.32934856	0.15496626	-2.58683812	
ADRA1A	0.32925262	0.15497915	2.58599292	yes
TRDMT1	-0.32921051	0.15497915	-2.58562197	
BACE1	0.32928116	0.15497915	2.58624432	
MSX1	0.32925742	0.15497915	2.58603516	

CBS	0.32920072	0.15497915	2.58553575	
TMEM67	-0.32916459	0.15500858	-2.58521749	
H1FOO	0.32909704	0.15505102	2.58462248	
PFN2	-0.32910941	0.15505102	-2.58473141	
PLAC9	0.32896807	0.15509378	2.58348671	yes
PDLIM3	0.32884030	0.15509378	2.58236159	
LEKR1	-0.32898516	0.15509378	-2.58363715	
NFE2	0.32894434	0.15509378	2.58327771	yes
PDE1C	0.32897969	0.15509378	2.58358903	
LRCH2	0.32886290	0.15509378	2.58256053	
ACSBG2	0.32883585	0.15509378	2.58232239	
FIBCD1	0.32888800	0.15509378	2.58278158	
CBFB	-0.32904178	0.15509378	-2.58413577	yes
CEP110	-0.32853849	0.15517137	-2.57970455	
EXTL1	0.32857517	0.15517137	2.58002740	
TMEM130	0.32864425	0.15517137	2.58063552	
C12orf64	0.32859350	0.15517137	2.58018877	
SCGB2A1	-0.32875197	0.15517137	-2.58158386	
THSD1	0.32874649	0.15517137	2.58153565	
FAM20C	0.32859051	0.15517137	2.58016245	
IFT20	-0.32854658	0.15517137	-2.57977577	
USP10	-0.32866134	0.15517137	-2.58078601	yes
ZNF536	0.32860690	0.15517137	2.58030669	
CTNS	-0.32833098	0.15570913	-2.57787819	
C10orf11	0.32835822	0.15570913	2.57811791	
CRYAB	0.32826695	0.15573050	2.57731479	
RSPO4	0.32821527	0.15573050	2.57686000	
ACTA1	0.32828495	0.15573050	2.57747320	
NIF3L1	-0.32821792	0.15573050	-2.57688331	
PCDH19	0.32811531	0.15589006	2.57598053	
MFSD2	-0.32812868	0.15589006	-2.57609815	
FBXO15	-0.32805489	0.15600683	-2.57544897	
ADORA3	0.32798470	0.15603084	2.57483148	

LOC390940	-0.32799442	0.15603084	-2.57491703	
DEPDC7	0.32796611	0.15603084	2.57466801	
SGCA	0.32787067	0.15627165	2.57382851	
CTNNA3	0.32782315	0.15634323	2.57341047	
CCDC38	0.32776753	0.15635576	2.57292132	
LOC100133422	-0.32776507	0.15635576	-2.57289967	yes
IQCD	-0.32767599	0.15642207	-2.57211628	
LOC120364	0.32760101	0.15642207	2.57145696	
GNG11	0.32755609	0.15642207	2.57106201	
HOXB4	0.32753248	0.15642207	2.57085442	
POMGNT1	0.32761816	0.15642207	2.57160782	
FN3K	0.32755386	0.15642207	2.57104238	
FABP12	0.32757318	0.15642207	2.57121229	
TRMT2B	-0.32752874	0.15642207	-2.57082152	
FAM187B	0.32737685	0.15667154	2.56948622	
ABLIM3	0.32741926	0.15667154	2.56985897	
KIAA1737	-0.32738617	0.15667154	-2.56956813	
MED31	-0.32729532	0.15686433	-2.56876948	
A1BG	0.32722638	0.15697092	2.56816351	yes
BANF2	0.32718409	0.15697092	2.56779185	
TRIP13	-0.32718402	0.15697092	-2.56779119	yes
C6orf103	-0.32708475	0.15722704	-2.56691880	
C12orf59	0.32691446	0.15733882	2.56542243	
DYX1C1	-0.32674131	0.15733882	-2.56390120	
FGF1	0.32686059	0.15733882	2.56494911	
LOC283174	0.32674040	0.15733882	2.56389320	
ARMCX1	0.32701314	0.15733882	2.56628949	
PDGFRA	0.32689691	0.15733882	2.56526822	
GOLGA2L1	-0.32670548	0.15733882	-2.56358640	
PKIB	-0.32692762	0.15733882	-2.56553801	
THADA	-0.32670283	0.15733882	-2.56356311	
C7orf58	0.32671869	0.15733882	2.56370244	
FAM175A	-0.32682250	0.15733882	-2.56461447	

PDE5A	0.32678348	0.15733882	2.56427167	
MAP7	-0.32697175	0.15733882	-2.56592579	
NFAM1	0.32661982	0.15753809	2.56283398	
RSPH1	-0.32657341	0.15760757	-2.56242631	
IQCK	-0.32635355	0.15765716	-2.56049555	
ADAMTS18	0.32653212	0.15765716	2.56206372	
MKS1	-0.32634513	0.15765716	-2.56042157	
PDIA2	0.32636222	0.15765716	2.56057169	
RAB11FIP1	-0.32642150	0.15765716	-2.56109224	
KCNK16	0.32642196	0.15765716	2.56109630	
LOC90835	-0.32648925	0.15765716	-2.56168718	
MED20	-0.32644988	0.15765716	-2.56134149	
IP6K2	-0.32631008	0.15768669	-2.56011386	
CCDC42	0.32625467	0.15769379	2.55962731	
FHL2	0.32626585	0.15769379	2.55972548	
TBC1D29	0.32620428	0.15771005	2.55918486	
PELI1	-0.32619673	0.15771005	-2.55911861	
GTF2A2	-0.32612911	0.15785552	-2.55852493	
FAM13A	-0.32607973	0.15789491	-2.55809146	
IMPA1	-0.32598491	0.15789491	-2.55725911	yes
ABCG4	0.32606410	0.15789491	2.55795427	
PIP4K2C	-0.32602416	0.15789491	-2.55760369	
HMGN3	-0.32600249	0.15789491	-2.55741345	
C3orf67	-0.32595359	0.15791173	-2.55698423	
CCDC34	-0.32590857	0.15797726	-2.55658913	
MGC16703	-0.32577912	0.15834316	-2.55545302	
ZNF627	-0.32570699	0.15850544	-2.55482010	
LRRC3B	0.32550012	0.15867580	2.55300507	
KRTAP10-1	0.32552430	0.15867580	2.55321721	
C2orf86	-0.32550775	0.15867580	-2.55307196	yes
FXD6	0.32553089	0.15867580	2.55327498	
BTNL2	0.32560640	0.15867580	2.55393749	
SLC2A4	0.32559817	0.15867580	2.55386529	

CLDN16	-0.32534935	0.15893044	-2.55168250	
CST9L	0.32538891	0.15893044	2.55202948	
TRAPPC9	-0.32536750	0.15893044	-2.55184167	
NDUFA2	-0.32528726	0.15905770	-2.55113789	
EXOC4	-0.32521628	0.15921686	-2.55051533	
CETN1	0.32513720	0.15930941	2.54982182	
GGT5	0.32515942	0.15930941	2.55001673	yes
ADAMTS9	0.32511118	0.15930941	2.54959371	
MIPEP	-0.32507600	0.15934092	-2.54928515	
SH3RF1	-0.32504874	0.15934411	-2.54904618	
LOC440311	0.32501344	0.15937612	2.54873664	
PIGC	-0.32496835	0.15944316	-2.54834131	
C16orf65	0.32489761	0.15960204	2.54772105	
LOC100133407	0.32485461	0.15966175	2.54734407	
STARD13	0.32479067	0.15979648	2.54678359	
MURC	0.32474438	0.15986812	2.54637779	
ITGA8	0.32468121	0.16000028	2.54582415	
KIF21A	-0.32461892	0.16012945	-2.54527815	
LOC100132833	0.32402081	0.16015166	2.54003781	
PRMT5	-0.32447023	0.16015166	-2.54397507	
RABL4	-0.32435488	0.16015166	-2.54296430	
C13orf28	0.32385592	0.16015166	2.53859368	
RUNDC1	-0.32454489	0.16015166	-2.54462936	
GBAP	-0.32444302	0.16015166	-2.54373663	
OFCC1	0.32434864	0.16015166	2.54290969	
HSPB7	0.32390819	0.16015166	2.53905144	
C16orf80	-0.32397266	0.16015166	-2.53961604	
PDZRN4	0.32370323	0.16015166	2.53725666	
HPCAL1	0.32371990	0.16015166	2.53740268	
GPR142	0.32375904	0.16015166	2.53774536	
MID1	-0.32392446	0.16015166	-2.53919395	
MGC44328	0.32424568	0.16015166	2.54200759	
NBL1	0.32378450	0.16015166	2.53796834	

GPRC5B	0.32371398	0.16015166	2.53735083	
SEMA5B	0.32407988	0.16015166	2.54055519	
VNN3	-0.32372623	0.16015166	-2.53745808	
PCDHGB3	0.32423407	0.16015166	2.54190589	
ATP8B2	0.32390729	0.16015166	2.53904359	
SEMA6A	0.32368398	0.16015166	2.53708817	
WDR19	-0.32401348	0.16015166	-2.53997362	
RPGR	-0.32385251	0.16015166	-2.53856388	
SCNN1B	-0.32385332	0.16015166	-2.53857092	
SFRP2	0.32373018	0.16015166	2.53749269	
MRPS9	-0.32403871	0.16015166	-2.54019461	
RTN4R	0.32402442	0.16015166	2.54006942	
WNK4	0.32445361	0.16015166	2.54382943	
FYCO1	-0.32449328	0.16015166	-2.54417706	
IQCA1	-0.32406088	0.16015166	-2.54038874	
MS4A8B	-0.32422318	0.16015166	-2.54181051	
HHIPL1	0.32395562	0.16015166	2.53946686	
DYRK2	-0.32373456	0.16015166	-2.53753104	
SHANK3	0.32385553	0.16015166	2.53859025	yes
SGCE	0.32418463	0.16015166	2.54147280	
PHOX2B	0.32367570	0.16015166	2.53701562	
TRIM13	-0.32345389	0.16017892	-2.53507389	
ADCY8	0.32277630	0.16017892	2.52914484	
CLCN6	-0.32300789	0.16017892	-2.53117081	
FBXO36	-0.32270422	0.16017892	-2.52851444	
C4orf33	-0.32306463	0.16017892	-2.53166725	
MGAT5B	0.32262097	0.16017892	2.52778637	
FAM179A	-0.32303415	0.16017892	-2.53140058	
KHDRBS2	0.32300513	0.16017892	2.53114668	
EPHA3	0.32327021	0.16017892	2.53346624	
WDR47	-0.32286080	0.16017892	-2.52988402	yes
HABP4	0.32355435	0.16017892	2.53595323	
NEDD4L	-0.32306483	0.16017892	-2.53166898	

NTSR2	0.32345221	0.16017892	2.53505916	
NWD1	-0.32325853	0.16017892	-2.53336399	
BRD7	-0.32263094	0.16017892	-2.52787349	
AGBL3	-0.32283943	0.16017892	-2.52969711	
KCNK1	-0.32331872	0.16017892	-2.53389076	
TRIM75	0.32262724	0.16017892	2.52784115	
FOX12	0.32283179	0.16017892	2.52963029	
MCF2	0.32357819	0.16017892	2.53616192	
MFAP4	0.32343348	0.16017892	2.53489521	
MAP3K10	0.32338374	0.16017892	2.53445979	
EGFL7	0.32265886	0.16017892	2.52811770	yes
CYB5R1	-0.32307028	0.16017892	-2.53171673	
KIAA1797	-0.32302838	0.16017892	-2.53135008	
CCDC40	-0.32270743	0.16017892	-2.52854251	
CXorf57	-0.32340246	0.16017892	-2.53462365	
PRKD1	0.32270189	0.16017892	2.52849403	
DUSP22	-0.32292579	0.16017892	-2.53045259	
LOC646316	-0.32285909	0.16017892	-2.52986903	
CREB3L2	0.32338445	0.16017892	2.53446603	
SNRPD1	-0.32302424	0.16017892	-2.53131389	
SNTA1	0.32360451	0.16017892	2.53639240	yes
SRF	0.32263743	0.16017892	2.52793028	
SNORA45	0.32283538	0.16017892	2.52966170	
EFCAB1	-0.32273569	0.16017892	-2.52878970	
FAM62C	0.32291101	0.16017892	2.53032328	
PPP1R1B	0.32310142	0.16017892	2.53198914	
DUSP27	0.32326268	0.16017892	2.53340028	
DNER	-0.32294949	0.16017892	-2.53065993	
SLC38A5	0.32331488	0.16017892	2.53385712	
APPL2	-0.32257595	0.16024933	-2.52739259	
C14orf145	-0.32240789	0.16033416	-2.52592309	
BHMT2	0.32252127	0.16033416	2.52691443	
NAALADL2	-0.32237926	0.16033416	-2.52567279	

FAM5C	0.32242093	0.16033416	2.52603713	
SLC26A5	-0.32240032	0.16033416	-2.52585688	
ADAMTS12	0.32249711	0.16033416	2.52670323	
KRTAP4-4	0.32237553	0.16033416	2.52564010	
RCAN2	0.32227285	0.16039344	2.52474243	
CXorf42	-0.32226525	0.16039344	-2.52467603	
GPR133	0.32227457	0.16039344	2.52475752	
GRB14	0.32223710	0.16039344	2.52442989	
PDGFB	0.32223309	0.16039344	2.52439487	yes
STK36	-0.32218371	0.16047994	-2.52396318	
RBM24	-0.32205846	0.16083736	-2.52286848	
GPATCH2	-0.32201642	0.16089788	-2.52250098	
LOC100130174	0.32190485	0.16102762	2.52152599	
FST	0.32194933	0.16102762	2.52191467	
THEG	0.32190543	0.16102762	2.52153101	
CRIM1	0.32187315	0.16103339	2.52124901	
DUOX1	-0.32185311	0.16103339	-2.52107389	
RAB11FIP4	-0.32179772	0.16114190	-2.52058990	
BHLHE22	0.32174109	0.16116541	2.52009508	
P2RX3	0.32175771	0.16116541	2.52024027	
CTSL3	0.32168161	0.16128875	2.51957537	
C17orf97	-0.32164331	0.16133631	-2.51924083	
LOC100128003	0.32149928	0.16135596	2.51798264	
INMT	0.32158528	0.16135596	2.51873383	yes
PRRT2	0.32148805	0.16135596	2.51788450	
EMB	-0.32150451	0.16135596	-2.51802827	
DNMBP	-0.32154690	0.16135596	-2.51839862	
AHCYL2	-0.32149177	0.16135596	-2.51791702	
NKX2-3	0.32144979	0.16140370	2.51755031	
RPS2P35	0.32137525	0.16148288	2.51689933	
IL17F	0.32139387	0.16148288	2.51706197	
ANKRD26	-0.32132809	0.16148288	-2.51648741	
KRTAP9-3	0.32134885	0.16148288	2.51666874	

C12orf53	0.32119661	0.16186482	2.51533929	
PTGR1	-0.32111416	0.16189315	-2.51461934	yes
LGALS3	-0.32111476	0.16189315	-2.51462462	yes
LOC728196	-0.32112009	0.16189315	-2.51467113	
CHRM1	0.32086674	0.16199204	2.51245931	
GIPC3	0.32089691	0.16199204	2.51272271	
ANKFN1	-0.32076096	0.16199204	-2.51153606	
C11orf76	0.32086013	0.16199204	2.51240167	
GUCA2A	0.32079624	0.16199204	2.51184394	
ICAM1	0.32078632	0.16199204	2.51175737	
KCND3	0.32078796	0.16199204	2.51177175	
VWC2L	-0.32084070	0.16199204	-2.51223203	
MYO1B	-0.32082043	0.16199204	-2.51205515	
KCNK10	0.32092624	0.16199204	2.51297875	
TXNL4B	-0.32074003	0.16199204	-2.51135340	
MYO5C	-0.32082085	0.16199204	-2.51205883	
SNORA7B	-0.32078308	0.16199204	-2.51172914	
UGDH	-0.32085151	0.16199204	-2.51232642	
TMEM144	-0.32064427	0.16215852	-2.51051764	
FAT4	0.32066805	0.16215852	2.51072522	
GUCY1A3	0.32060538	0.16220961	2.51017825	
MORN3	-0.32055901	0.16228757	-2.50977364	
MAP3K2	-0.32041355	0.16237957	-2.50850444	
DMC1	0.32039071	0.16237957	2.50830521	
CATSPER2	-0.32033356	0.16237957	-2.50780661	
MESP2	0.32049726	0.16237957	2.50923482	
AR	0.32042670	0.16237957	2.50861920	
PCDH18	0.32033455	0.16237957	2.50781522	
PECR	-0.32033146	0.16237957	-2.50778826	
PTPN6	-0.32031212	0.16237957	-2.50761959	
ZNF606	-0.32041682	0.16237957	-2.50853299	
TNP1	0.32018776	0.16273805	2.50653475	
PEX13	-0.32015651	0.16276221	-2.50626220	yes

LOC100127905	0.31960910	0.16278616	2.50148891	
ATG7	-0.31915343	0.16278616	-2.49751771	
ADAMTS6	0.31915068	0.16278616	2.49749377	
COL10A1	0.32009161	0.16278616	2.50569615	
ADORA2A	0.31914045	0.16278616	2.49740461	
LOC100133400	-0.31938954	0.16278616	-2.49957521	
IQUB	-0.31927929	0.16278616	-2.49861437	
CCDC67	-0.31933333	0.16278616	-2.49908536	
DENND2C	-0.31920628	0.16278616	-2.49797820	
DNAJC18	0.31913736	0.16278616	2.49737768	
KIAA1024	0.31917787	0.16278616	2.49773066	
DEFB116	0.31984914	0.16278616	2.50358165	
TRAF3IP1	-0.31957643	0.16278616	-2.50120409	
GLDC	0.31912623	0.16278616	2.49728069	
GPR4	0.31926426	0.16278616	2.49848340	
GPX3	0.31941872	0.16278616	2.49982948	
DCPS	-0.31982231	0.16278616	-2.50334769	
GSK3B	-0.31933547	0.16278616	-2.49910396	yes
IFNA21	0.31916842	0.16278616	2.49764832	
IFNAR2	-0.31972706	0.16278616	-2.50251725	
LOC347549	0.32001097	0.16278616	2.50499282	
SELV	0.31930106	0.16278616	2.49880415	
KLKB1	-0.31937764	0.16278616	-2.49947145	
LOC387885	-0.31991118	0.16278616	-2.50412260	
C8orf59	-0.31915287	0.16278616	-2.49751286	
ATP1A4	0.31950351	0.16278616	2.50056848	
NGF	0.31965106	0.16278616	2.50185466	
NRCAM	0.31970158	0.16278616	2.50229509	
NGRN	-0.31989512	0.16278616	-2.50398255	
S1PR5	0.31919616	0.16278616	2.49789007	
BMP2K	-0.32010462	0.16278616	-2.50580956	
RCN3	0.31991409	0.16278616	2.50414804	
CCDC146	-0.31984439	0.16278616	-2.50354027	

C21orf122	0.31951204	0.16278616	2.50064283	
BEND5	-0.31954165	0.16278616	-2.50090092	
TSGA10	-0.31972161	0.16278616	-2.50246972	
OR4A5	0.31965521	0.16278616	2.50189090	
EFCAB2	-0.31973290	0.16278616	-2.50256821	
PPFIA4	0.31982494	0.16278616	2.50337063	
CHRD	0.31985840	0.16278616	2.50366243	yes
NAT1	-0.31910591	0.16278616	-2.49710371	
RALGPS1	-0.31971838	0.16278616	-2.50244158	
TBKBP1	0.31921816	0.16278616	2.49808176	
SUSD3	0.31905483	0.16283169	2.49665866	
SC4MOL	-0.31904514	0.16283169	-2.49657429	
ATP9A	-0.31894819	0.16301641	-2.49572964	
SLCO4A1	0.31890284	0.16301641	2.49533462	yes
UBE3B	-0.31892852	0.16301641	-2.49555830	
FHL5	0.31889761	0.16301641	2.49528907	
APLNR	0.31875721	0.16319642	2.49406625	
C9orf72	-0.31871874	0.16319642	-2.49373114	
FTHL11	-0.31866594	0.16319642	-2.49327134	
C6orf52	-0.31871859	0.16319642	-2.49372983	
DNAJB13	-0.31870063	0.16319642	-2.49357346	
SPEF2	-0.31865590	0.16319642	-2.49318395	
TMEM107	-0.31879597	0.16319642	-2.49440377	
ZNF479	0.31869562	0.16319642	2.49352980	
CEACAM7	-0.31853296	0.16334231	-2.49211342	
SLC2A6	0.31844954	0.16334231	2.49138710	yes
AWAT1	0.31845446	0.16334231	2.49142990	
CCDC60	-0.31851115	0.16334231	-2.49192348	
COG4	-0.31844820	0.16334231	-2.49137539	
KLK3	0.31850132	0.16334231	2.49183788	
MOCS1	0.31859101	0.16334231	2.49261890	
CUBN	-0.31841693	0.16336901	-2.49110320	
LOC100131510	0.31814888	0.16343018	2.48876978	

ZNF238	-0.31811109	0.16343018	-2.48844093	
CMTM4	-0.31827166	0.16343018	-2.48983851	
DEFB128	0.31825133	0.16343018	2.48966158	
IFT172	-0.31817727	0.16343018	-2.48901688	
HEYL	0.31798902	0.16343018	2.48737855	
ANXA7	-0.31829509	0.16343018	-2.49004251	
ICAM4	0.31794928	0.16343018	2.48703273	
IL10RB	-0.31798869	0.16343018	-2.48737568	
FLJ45717	0.31803827	0.16343018	2.48780713	
RNASE1	0.31795482	0.16343018	2.48708093	yes
SGCD	0.31811826	0.16343018	2.48850336	
FNDC4	0.31797885	0.16343018	2.48729011	
SLC8A1	0.31803472	0.16343018	2.48777631	
SGIP1	0.31807956	0.16343018	2.48816651	
ST6GAL2	0.31800688	0.16343018	2.48753403	
B4GALT4	-0.31833611	0.16343018	-2.49039958	
DHX57	-0.31834474	0.16343018	-2.49047473	
MAPK8IP1	-0.31832277	0.16343018	-2.49028339	
INADL	-0.31780422	0.16355408	-2.48577058	yes
RBBP9	-0.31777819	0.16355408	-2.48554411	
HECTD1	-0.31784907	0.16355408	-2.48616081	yes
OR10A4	0.31782850	0.16355408	2.48598182	
SCCPDH	-0.31784271	0.16355408	-2.48610542	
PPP2CB	-0.31776168	0.16355408	-2.48540047	
CXorf36	0.31773210	0.16355408	2.48514312	
TMC5	-0.31772610	0.16355408	-2.48509089	
OSR2	0.31751197	0.16415372	2.48322823	
TPST1	-0.31753090	0.16415372	-2.48339292	
FRMPD2	-0.31739537	0.16423485	-2.48221414	
FOXS1	0.31740737	0.16423485	2.48231854	
LINGO4	0.31743846	0.16423485	2.48258889	
FLJ20712	-0.31744839	0.16423485	-2.48267524	
NUDT7	-0.31730589	0.16438776	-2.48143600	

MYOZ2	0.31732421	0.16438776	2.48159537	
EFHC1	-0.31708512	0.16451755	-2.47951648	
NHEDC2	0.31710580	0.16451755	2.47969627	
GNAO1	0.31719777	0.16451755	2.48049587	yes
XCR1	0.31705898	0.16451755	2.47928921	
TTYH1	0.31706512	0.16451755	2.47934263	yes
KIAA1462	0.31721507	0.16451755	2.48064635	
EVI5	-0.31712505	0.16451755	-2.47986361	
AGBL4	-0.31723866	0.16451755	-2.48085141	
C5orf30	-0.31707272	0.16451755	-2.47940868	
C22orf15	-0.31703439	0.16452190	-2.47907546	
MRGPRE	0.31699105	0.16459378	2.47869866	
LOC285453	-0.31693655	0.16462183	-2.47822491	
WDR60	-0.31695290	0.16462183	-2.47836702	
CCDC85A	0.31686897	0.16469709	2.47763750	
DRD3	0.31687840	0.16469709	2.47771949	
C6orf192	-0.31683939	0.16471961	-2.47738043	
ARAP2	-0.31657652	0.16472119	-2.47509595	
SPATA18	-0.31658501	0.16472119	-2.47516977	
XIRP1	0.31657477	0.16472119	2.47508075	
LRTOMT	-0.31677536	0.16472119	-2.47682390	
FOXD2	0.31657085	0.16472119	2.47504673	
AGTPBP1	-0.31656449	0.16472119	-2.47499146	
HTR1A	0.31677568	0.16472119	2.47682668	
CD300E	0.31662454	0.16472119	2.47551328	
NME4	0.31666145	0.16472119	2.47583399	yes
PIGV	-0.31665686	0.16472119	-2.47579409	
SLC15A2	-0.31668215	0.16472119	-2.47601387	yes
THPO	0.31655991	0.16472119	2.47495170	
JSRP1	0.31641490	0.16473928	2.47369178	
MYOM3	0.31650370	0.16473928	2.47446326	
FGFR2	0.31634655	0.16473928	2.47309799	
CYB5R4	-0.31634740	0.16473928	-2.47310534	

FLJ43080	-0.31636263	0.16473928	-2.47323771
C11orf1	-0.31641204	0.16473928	-2.47366693
BAIAP2L2	0.31643784	0.16473928	2.47389103
GDF5	0.31641123	0.16473928	2.47365985
CD33	0.31635797	0.16473928	2.47319720
NGFRAP1	0.31627464	0.16491478	2.47247334
POTEA	0.31617983	0.16500675	2.47164979
NOS3	0.31622215	0.16500675	2.47201739
DNAH11	-0.31620218	0.16500675	-2.47184395
INTU	-0.31614805	0.16503809	-2.47137382
STOX1	-0.31575501	0.16507334	-2.46796082
TSPAN15	-0.31598736	0.16507334	-2.46997826
OR2M4	0.31575751	0.16507334	2.46798252
STON1-GTF2A1L	0.31603777	0.16507334	2.47041601
PCDHB1	-0.31596094	0.16507334	-2.46974883
KRTAP12-2	0.31596624	0.16507334	2.46979483
METTL10	-0.31579516	0.16507334	-2.46830942
NTM	0.31606404	0.16507334	2.47064417
ROPN1	0.31575584	0.16507334	2.46796808
PCDHGA6	0.31574372	0.16507334	2.46786283
PCDHB15	0.31576539	0.16507334	2.46805093
RFX4	0.31567212	0.16507334	2.46724125
PAPPA2	0.31574900	0.16507334	2.46790864
SOX17	0.31597243	0.16507334	2.46984867
SLC5A2	0.31569930	0.16507334	2.46747718
SSBP1	-0.31592901	0.16507334	-2.46947159
MORN2	-0.31601302	0.16507334	-2.47020114
UBB	-0.31566390	0.16507334	-2.46716994
C4orf14	-0.31565616	0.16507334	-2.46710270
PSRC1	0.31587069	0.16507334	2.46896518
BECN1	-0.31589162	0.16507334	-2.46914697
NLRP8	0.31549189	0.16549986	2.46567682
SIX3	0.31549525	0.16549986	2.46570600

TRPA1	0.31546699	0.16550726	2.46546077	
SSX10	0.31540465	0.16564957	2.46491973	
C8orf34	-0.31536091	0.16572495	-2.46454013	
GPR143	0.31533219	0.16574624	2.46429090	
UHMK1	-0.31525981	0.16576836	-2.46366285	
NGFR	0.31522132	0.16576836	2.46332886	
FSD1	0.31522524	0.16576836	2.46336286	
ADPGK	-0.31529076	0.16576836	-2.46393134	
PLA2G10	-0.31518936	0.16576836	-2.46305157	
ACBD6	-0.31520544	0.16576836	-2.46319105	
PLCH1	-0.31511910	0.16585764	-2.46244196	
SNRPN	0.31513574	0.16585764	2.46258634	
FAM47C	0.31495279	0.16637581	2.46099917	
UBE2E3	0.31471548	0.16667841	2.45894100	
PNMA2	0.31480516	0.16667841	2.45971871	
BBS12	-0.31477246	0.16667841	-2.45943514	
RXRG	0.31473540	0.16667841	2.45911374	
LRFN4	0.31480471	0.16667841	2.45971478	
FUZ	-0.31468748	0.16667841	-2.45869814	
CAMK2B	0.31471637	0.16667841	2.45894865	
RAB28	-0.31470355	0.16667841	-2.45883749	yes
IFLTD1	-0.31459185	0.16693069	-2.45786885	
IGHG3	0.31454981	0.16693069	2.45750437	
SESTD1	-0.31455105	0.16693069	-2.45751509	
TMC4	-0.31449215	0.16705753	-2.45700446	
LEPROTL1	-0.31439020	0.16734511	-2.45612056	
PHTF1	-0.31421273	0.16744457	-2.45458221	
ZCCHC5	0.31419824	0.16744457	2.45445657	
SYNE2	-0.31415592	0.16744457	-2.45408975	
GNG4	0.31426647	0.16744457	2.45504795	
OR4N5	0.31416531	0.16744457	2.45417114	
PTGIR	0.31429242	0.16744457	2.45527291	
LOC728318	0.31414060	0.16744457	2.45395700	

CAPS2	-0.31413693	0.16744457	-2.45392519
SEC16B	0.31432119	0.16744457	2.45552228
MAP3K13	-0.31429293	0.16744457	-2.45527735
SLCO1B1	0.31389165	0.16745403	2.45179965
CHRNA1	0.31391064	0.16745403	2.45196423
TMEM218	-0.31405770	0.16745403	-2.45323857
TTC28	0.31384311	0.16745403	2.45137904
C10orf93	-0.31384570	0.16745403	-2.45140152
HUNK	-0.31389409	0.16745403	-2.45182081
tcag7.893	0.31408967	0.16745403	2.45351561
NVL	-0.31384288	0.16745403	-2.45137710
C3orf18	0.31389502	0.16745403	2.45182885
TMEM100	0.31379728	0.16745403	2.45098199
AADAACL1	-0.31401773	0.16745403	-2.45289216
NBEAL1	-0.31394261	0.16745403	-2.45224125
SLC6A7	0.31380548	0.16745403	2.45105308
LIMD2	0.31397264	0.16745403	2.45250143
TIGD5	0.31381916	0.16745403	2.45117157
C1orf83	-0.31375167	0.16746151	-2.45058685
ARHGAP18	-0.31375043	0.16746151	-2.45057613
KCNH4	0.31370297	0.16746898	2.45016497
GOLIM4	0.31365916	0.16746898	2.44978546
HEATR2	-0.31370778	0.16746898	-2.45020661
RFX2	-0.31365892	0.16746898	-2.44978333
ANKMY1	-0.31358950	0.16755861	-2.44918206
TMBIM6	-0.31360842	0.16755861	-2.44934588
KIF3B	-0.31352177	0.16772322	-2.44859537
AHNAK2	-0.31338712	0.16784882	-2.44742919
AKAP14	-0.31338870	0.16784882	-2.44744290
TSPAN6	-0.31340590	0.16784882	-2.44759184
CEP97	-0.31337563	0.16784882	-2.44732975
C9orf3	-0.31339324	0.16784882	-2.44748218
TPPP3	-0.31335252	0.16785189	-2.44712954

yes

TRAM1L1	0.31319323	0.16802535	2.44575024	yes
FLJ32810	-0.31319109	0.16802535	-2.44573175	
C8orf47	-0.31318322	0.16802535	-2.44566356	
LRRC8B	-0.31309294	0.16802535	-2.44488193	yes
DEFB119	0.31306961	0.16802535	2.44467998	
TRHDE	0.31312570	0.16802535	2.44516556	
IL18	-0.31325555	0.16802535	-2.44628984	
KRT34	0.31307620	0.16802535	2.44473701	
PMCHL2	0.31314964	0.16802535	2.44537287	
KRTAP19-8	0.31306026	0.16802535	2.44459904	
CD38	-0.31309439	0.16802535	-2.44489454	
UNC13B	-0.31302211	0.16808214	-2.44426881	
TTC39B	-0.31300027	0.16808214	-2.44407976	yes
MST075	0.31270412	0.16810926	2.44151646	
FTCD	0.31209187	0.16810926	2.43621975	
RAB3IP	-0.31230816	0.16810926	-2.43809050	
TTC18	-0.31226890	0.16810926	-2.43775089	
C17orf64	0.31274440	0.16810926	2.44186507	
AHSA2	-0.31218104	0.16810926	-2.43699093	
SPATA4	-0.31235206	0.16810926	-2.43847032	
C1orf127	0.31238760	0.16810926	2.43877775	
CCDC27	0.31261312	0.16810926	2.44072893	
ACE	0.31244848	0.16810926	2.43930444	
KIAA1949	0.31290458	0.16810926	2.44325138	
F2RL1	-0.31290249	0.16810926	-2.44323330	
VWCE	0.31215686	0.16810926	2.43678186	
DAGLB	-0.31225384	0.16810926	-2.43762067	
CXorf58	-0.31267486	0.16810926	-2.44126326	
CXorf59	-0.31214727	0.16810926	-2.43669889	
C1QL4	0.31259783	0.16810926	2.44059666	
PKD1L3	-0.31219097	0.16810926	-2.43707680	
C1orf175	0.31229191	0.16810926	2.43794993	
MFAP2	0.31274346	0.16810926	2.44185686	

TMEM138	-0.31234860	0.16810926	-2.43844037	
ATP7B	-0.31221128	0.16810926	-2.43725248	
SETD4	-0.31276966	0.16810926	-2.44208368	
POU3F1	0.31245334	0.16810926	2.43934652	
WDR52	-0.31289218	0.16810926	-2.44314409	
ECHDC1	-0.31279650	0.16810926	-2.44231596	yes
C21orf59	-0.31236877	0.16810926	-2.43861483	
ATPGD1	0.31209850	0.16810926	2.43627708	
RP1	-0.31209534	0.16810926	-2.43624977	
C5orf50	0.31226766	0.16810926	2.43774018	
LOC646851	-0.31255442	0.16810926	-2.44022104	
SMYD3	-0.31215743	0.16810926	-2.43678673	
THRB	-0.31239323	0.16810926	-2.43882648	
SNORD114-26	0.31224668	0.16810926	2.43755870	
ZNF214	-0.31262921	0.16810926	-2.44086821	
NEK11	-0.31247707	0.16810926	-2.43955175	
KIAA1712	-0.31289104	0.16810926	-2.44313423	
CAT	-0.31245270	0.16810926	-2.43934099	
SPSB4	0.31268791	0.16810926	2.44137612	yes
CHST10	0.31244820	0.16810926	2.43930205	yes
ADAMTSL2	0.31253364	0.16810926	2.44004121	
RAB11FIP5	0.31206703	0.16812031	2.43600487	
PYGO1	0.31198722	0.16833037	2.43531468	
ATP2B3	0.31191876	0.16841372	2.43472277	
PPOX	-0.31191173	0.16841372	-2.43466193	
INTS10	-0.31189890	0.16841372	-2.43455099	
FAM163A	0.31180469	0.16865784	2.43373643	
TCTEX1D1	-0.31175619	0.16865784	-2.43331708	
CENPP	0.31174458	0.16865784	2.43321672	
TAX1BP1	-0.31174704	0.16865784	-2.43323799	yes
LNX1	-0.31166675	0.16886136	-2.43254390	
ACTN3	0.31152082	0.16931266	2.43128248	
KPTN	0.31143393	0.16954983	2.43053151	

LOC100133388	0.31132897	0.16985320	2.42962440	yes
LOC150197	0.31112193	0.17029209	2.42783542	
PVR	0.31113914	0.17029209	2.42798412	
CCNB3	-0.31117761	0.17029209	-2.42831652	
NAF1	-0.31112429	0.17029209	-2.42785583	
KRT80	-0.31108902	0.17033308	-2.42755116	
SYF2	-0.31100087	0.17039387	-2.42678957	
MACC1	-0.31101403	0.17039387	-2.42690328	
RAD51L1	-0.31101961	0.17039387	-2.42695151	
ACVR1B	-0.31098573	0.17039387	-2.42665883	
POLR3K	-0.31094782	0.17045335	-2.42633128	
LOC100133142	0.31092183	0.17046924	2.42610684	yes
C20orf94	-0.31075477	0.17084308	-2.42466390	
PCDH17	0.31078217	0.17084308	2.42490050	
KCNT1	0.31077140	0.17084308	2.42480748	
ZNF391	-0.31071102	0.17084509	-2.42428600	
WDR93	-0.31071324	0.17084509	-2.42430522	
LOC100129346	0.31035714	0.17089689	2.42123040	
CLPS	0.31057152	0.17089689	2.42308139	
MBOAT2	-0.31049219	0.17089689	-2.42239643	
C4orf36	-0.31023792	0.17089689	-2.42020124	
CCDC13	-0.31048987	0.17089689	-2.42237640	
PSD3	-0.31040284	0.17089689	-2.42162494	yes
HS6ST3	0.31021833	0.17089689	2.42003220	
GPT	0.31015958	0.17089689	2.41952508	
VN1R2	0.31018144	0.17089689	2.41971375	
NDFIP2	-0.31037376	0.17089689	-2.42137395	
PRIM2	-0.31037821	0.17089689	-2.42141230	
NIT2	-0.31044294	0.17089689	-2.42197122	
PAK7	0.31066280	0.17089689	2.42386961	
PTGDS	0.31051846	0.17089689	2.42262323	
RAD23B	-0.31018725	0.17089689	-2.41976394	
SELP	0.31031336	0.17089689	2.42085247	

LRTM2	0.31056775	0.17089689	2.42304879	
TLE3	0.31031661	0.17089689	2.42088057	
ZNF702P	-0.31022563	0.17089689	-2.42009517	
PPP1R14C	-0.31028245	0.17089689	-2.42058570	
TKTL2	0.31057595	0.17089689	2.42311961	
C21orf119	-0.31058958	0.17089689	-2.42323736	
CLDN8	-0.31046472	0.17089689	-2.42215925	
CD58	-0.31017376	0.17089689	-2.41964743	
HS3ST3A1	0.31017988	0.17089689	2.41970029	
DPPA2	0.31000583	0.17130298	2.41819812	
USP54	-0.31001896	0.17130298	-2.41831142	
NUP153	-0.30996015	0.17139202	-2.41780390	yes
HIPK1	-0.30992952	0.17141919	-2.41753962	
DNAJC5B	-0.30991000	0.17141919	-2.41737122	
C9orf135	-0.30972346	0.17151107	-2.41576163	
TULP4	-0.30979771	0.17151107	-2.41640232	
HEG1	0.30974878	0.17151107	2.41598009	
ST8SIA4	-0.30983899	0.17151107	-2.41675848	
KCTD15	0.30972932	0.17151107	2.41581227	
SPATA9	0.30971434	0.17151107	2.41568300	
ZC3H8	-0.30977588	0.17151107	-2.41621390	
TTYH2	0.30984915	0.17151107	2.41684615	
WFIKKN2	0.30957125	0.17156782	2.41444862	
MYO6	-0.30962690	0.17156782	-2.41492862	yes
FLVCR2	0.30958602	0.17156782	2.41457604	
SETMAR	0.30967424	0.17156782	2.41533704	
ZNF213	0.30962479	0.17156782	2.41491049	
BRSK1	0.30960534	0.17156782	2.41474268	
SPAG5	-0.30950552	0.17160558	-2.41388162	
KCNJ1	0.30949725	0.17160558	2.41381031	
AMZ2	-0.30951299	0.17160558	-2.41394605	
CHCHD1	-0.30944671	0.17171300	-2.41337442	
C4orf22	-0.30929211	0.17192096	-2.41204107	

TMEM158	0.30931435	0.17192096	2.41223286	
RCOR2	0.30933207	0.17192096	2.41238569	yes
BTBD1	-0.30926284	0.17192096	-2.41178871	yes
TEX13B	0.30928624	0.17192096	2.41199048	
OTOP2	0.30927010	0.17192096	2.41185126	
LOC100128064	0.30913023	0.17196323	2.41064523	
TRIM71	0.30896597	0.17196323	2.40922909	
C9orf98	-0.30880390	0.17196323	-2.40783203	
MARCH10	-0.30877496	0.17196323	-2.40758258	
ALCAM	-0.30919202	0.17196323	-2.41117804	
GAPVD1	-0.30903745	0.17196323	-2.40984535	
H1FNT	0.30895909	0.17196323	2.40916974	
SMTNL2	0.30917316	0.17196323	2.41101539	
ANKDD1A	0.30906892	0.17196323	2.41011664	
C6orf58	0.30888398	0.17196323	2.40852228	
MAP3K4	-0.30893483	0.17196323	-2.40896066	
C20orf199	-0.30903898	0.17196323	-2.40985850	
MYF5	0.30884229	0.17196323	2.40816299	
FLJ20184	-0.30876658	0.17196323	-2.40751038	
DOK5	0.30889958	0.17196323	2.40865676	
VAT1L	0.30917917	0.17196323	2.41106720	
ZNF487	-0.30882856	0.17196323	-2.40804460	
GLB1L	-0.30898492	0.17196323	-2.40939248	
C2orf47	-0.30909751	0.17196323	-2.41036314	
SYNC	0.30886869	0.17196323	2.40839051	
CAST	-0.30888384	0.17196323	-2.40852112	yes
AKT1S1	0.30915203	0.17196323	2.41083322	
FAM58A	0.30908391	0.17196323	2.41024583	
GLOD4	-0.30872041	0.17205549	-2.40711248	
DAP3	-0.30861229	0.17237496	-2.40618070	yes
TTC23L	-0.30844142	0.17290140	-2.40470838	
HERV-FRD	0.30842703	0.17290140	2.40458439	
DYNC2L1	-0.30836892	0.17303806	-2.40408371	

MPP2	0.30834249	0.17305820	2.40385599	yes
CCDC37	-0.30826854	0.17325332	-2.40321895	
CHCHD4	0.30818131	0.17331370	2.40246753	
UPP2	0.30822296	0.17331370	2.40282628	
GPBP1L1	-0.30816840	0.17331370	-2.40235636	
FOXRED2	0.30819018	0.17331370	2.40254395	
PLEKHO2	0.30813168	0.17337193	2.40204005	
COL6A6	0.30809326	0.17343646	2.40170911	
GNG13	0.30804804	0.17344908	2.40131961	
RAB42P	0.30805906	0.17344908	2.40141459	
EMILIN1	0.30794884	0.17368004	2.40046533	
SLC37A1	-0.30794335	0.17368004	-2.40041809	
LIPG	0.30792274	0.17368004	2.40024058	
TTLL8	0.30776080	0.17370698	2.39884616	
C8orf85	0.30779133	0.17370698	2.39910901	
NPHP1	-0.30774871	0.17370698	-2.39874204	
SMEK2	-0.30776310	0.17370698	-2.39886594	
PTGER3	0.30785321	0.17370698	2.39964181	
RFX3	-0.30782747	0.17370698	-2.39942016	
MAK10	-0.30781172	0.17370698	-2.39928459	yes
MTMR14	-0.30785999	0.17370698	-2.39970025	
SEMA4D	-0.30760843	0.17380784	-2.39753436	
POLR3F	-0.30745146	0.17380784	-2.39618314	
KIF19	-0.30764234	0.17380784	-2.39782622	
C10orf63	-0.30745301	0.17380784	-2.39619649	
COL24A1	0.30766961	0.17380784	2.39806101	
GRHL1	-0.30745824	0.17380784	-2.39624147	
HRH1	0.30766524	0.17380784	2.39802342	
NDP	0.30749766	0.17380784	2.39658078	
NDUFB4	-0.30756463	0.17380784	-2.39715725	
FAM65A	0.30745278	0.17380784	2.39619452	yes
KLHL6	-0.30762571	0.17380784	-2.39768309	
EXOC3L2	0.30745433	0.17380784	2.39620788	

SETDB1	-0.30745887	0.17380784	-2.39624688	
RAPGEF3	0.30736131	0.17381479	2.39540722	yes
CTHRC1	0.30739255	0.17381479	2.39567606	
EXOC3L	0.30738389	0.17381479	2.39560158	
PIP	0.30734611	0.17381479	2.39527645	
RECK	0.30736496	0.17381479	2.39543866	
RNF215	0.30731506	0.17383729	2.39500915	
C14orf45	-0.30729868	0.17383729	-2.39486819	
IAH1	-0.30727530	0.17384734	-2.39466699	
PAK3	0.30719133	0.17392858	2.39394441	
HMHB1	0.30721538	0.17392858	2.39415137	
CARD9	0.30719735	0.17392858	2.39399625	
DLEU7	0.30716896	0.17393502	2.39375190	
NEU3	0.30705757	0.17404173	2.39279352	
ZNF775	0.30707547	0.17404173	2.39294748	yes
GRIA1	0.30708205	0.17404173	2.39300408	
MEIG1	-0.30706219	0.17404173	-2.39283326	
AASS	0.30676462	0.17413711	2.39027337	
LEPREL2	0.30692857	0.17413711	2.39168368	
LOC146336	0.30678700	0.17413711	2.39046585	
hCG_17324	-0.30683937	0.17413711	-2.39091637	
ALMS1P	-0.30695441	0.17413711	-2.39190594	
CLUAP1	-0.30690709	0.17413711	-2.39149885	
CNNM1	0.30691433	0.17413711	2.39156116	
HSD11B1	0.30680187	0.17413711	2.39059374	
OPCML	0.30676528	0.17413711	2.39027903	
ABCD3	-0.30679564	0.17413711	-2.39054016	
DNAI2	-0.30695473	0.17413711	-2.39190868	
GPR177	-0.30683738	0.17413711	-2.39089918	
HMCN1	0.30686820	0.17413711	2.39116433	
CASP14	0.30673808	0.17415940	2.39004508	
C1orf158	-0.30669057	0.17425897	-2.38963649	
MGC52282	0.30661805	0.17429991	2.38901278	

NTNG1	0.30664937	0.17429991	2.38928211	
ADAM5P	0.30662611	0.17429991	2.38908212	
C1orf102	-0.30656353	0.17440062	-2.38854390	
NDUFAB1	-0.30649862	0.17440062	-2.38798568	
GLT8D1	-0.30652057	0.17440062	-2.38817445	
FAM160A1	-0.30648852	0.17440062	-2.38789885	
HDHD2	-0.30650517	0.17440062	-2.38804206	
PPM1B	-0.30646229	0.17442202	-2.38767335	
MMP19	0.30643817	0.17443568	2.38746595	
LOC100129503	0.30636042	0.17453917	2.38679740	
C3orf24	0.30625708	0.17453917	2.38590899	
B3GAT2	0.30628438	0.17453917	2.38614368	
MFI2	0.30627725	0.17453917	2.38608242	
LOC442668	0.30633327	0.17453917	2.38656398	
ANKMY2	-0.30636506	0.17453917	-2.38683730	
SLC22A3	0.30625090	0.17453917	2.38585586	
TBC1D4	0.30624704	0.17453917	2.38582270	yes
ST5	-0.30621504	0.17458213	-2.38554759	
ZNF618	0.30610502	0.17484091	2.38460187	
C7orf10	0.30610422	0.17484091	2.38459495	
NHP2L1	-0.30604005	0.17500279	-2.38404339	
RASSF8	0.30593283	0.17500927	2.38312192	
DNMT3B	0.30591643	0.17500927	2.38298100	
ZBTB8OS	-0.30595362	0.17500927	-2.38330059	
LYZ	0.30599800	0.17500927	2.38368196	
TBC1D19	-0.30598106	0.17500927	-2.38353642	
ADAMTS10	0.30594275	0.17500927	2.38320712	yes
FLJ42418	0.30585705	0.17511697	2.38247067	
LRRC18	-0.30584671	0.17511697	-2.38238185	
STMN2	0.30575049	0.17518737	2.38155497	
OTOL1	0.30578254	0.17518737	2.38183039	
HOXD11	0.30574661	0.17518737	2.38152170	
C1orf201	-0.30578275	0.17518737	-2.38183221	

CNTNAP4	0.30571941	0.17518928	2.38128795	
ENTPD1	0.30570562	0.17518928	2.38116946	
MORF4L2	-0.30568228	0.17520076	-2.38096896	yes
HEPACAM	0.30564083	0.17527922	2.38061277	
CHRNA4	0.30561447	0.17530189	2.38038637	
KAAG1	0.30554225	0.17549417	2.37976594	
FGF20	0.30545957	0.17557587	2.37905567	
NFIB	0.30547620	0.17557587	2.37919853	
CDKL1	-0.30546762	0.17557587	-2.37912484	
C15orf26	-0.30542611	0.17562501	-2.37876820	
AOF2	-0.30537911	0.17566925	-2.37836458	
FUSSEL18	0.30537380	0.17566925	2.37831893	
LCA5	-0.30527891	0.17566974	-2.37750393	
FLI1	0.30525623	0.17566974	2.37730912	
LOC441046	0.30533503	0.17566974	2.37798594	
EOMES	0.30525990	0.17566974	2.37734066	
DLGAP1	0.30529490	0.17566974	2.37764126	
CXCL14	0.30525279	0.17566974	2.37727961	
OAZ1	-0.30520343	0.17568410	-2.37685573	
C14orf129	-0.30518857	0.17568410	-2.37672809	
KIAA1409	-0.30522522	0.17568410	-2.37704281	
CCT6B	-0.30510353	0.17574455	-2.37599781	
SLC22A12	0.30507074	0.17574455	2.37571630	
ICA1L	-0.30499158	0.17574455	-2.37503662	
CSTB	-0.30499978	0.17574455	-2.37510697	yes
SOX8	0.30509561	0.17574455	2.37592984	
NAP5	0.30503507	0.17574455	2.37540998	
CPSF3	-0.30510615	0.17574455	-2.37602035	
IRX1	0.30500137	0.17574455	2.37512068	
GOSR1	-0.30500993	0.17574455	-2.37519413	
C11orf60	-0.30490812	0.17583097	-2.37432006	
C15orf17	-0.30493146	0.17583097	-2.37452041	
WDR77	-0.30490938	0.17583097	-2.37433086	

ANXA2	-0.30486792	0.17589995	-2.37397498	yes
MNS1	-0.30482944	0.17589995	-2.37364463	
FANK1	-0.30483421	0.17589995	-2.37368554	
DNAL4	-0.30479546	0.17591542	-2.37335288	
CAPN9	-0.30474342	0.17591542	-2.37290621	
MORN4	-0.30468544	0.17591542	-2.37240851	
SPATA13	-0.30474979	0.17591542	-2.37296088	
ARG1	0.30469839	0.17591542	2.37251972	
STELLAR	0.30471371	0.17591542	2.37265115	
SLC2A3	0.30469389	0.17591542	2.37248104	
SPATA7	-0.30461297	0.17610968	-2.37178654	
LBX1	0.30450365	0.17636679	2.37084831	
GBP6	-0.30451982	0.17636679	-2.37098709	
CTSG	0.30441957	0.17660456	2.37012678	
TRO	0.30437095	0.17671097	2.36970959	
GALK1	0.30422898	0.17701617	2.36849153	
ANKRD45	-0.30424289	0.17701617	-2.36861085	
DDI2	-0.30425846	0.17701617	-2.36874448	
MGAT5	-0.30419911	0.17705316	-2.36823531	
HOXA6	0.30416077	0.17707680	2.36790632	
PSMC5	-0.30415296	0.17707680	-2.36783932	
SLC36A3	0.30408598	0.17714215	2.36726479	
XKR7	0.30407572	0.17714215	2.36717676	
ADPRHL2	-0.30409281	0.17714215	-2.36732338	
R3HDM2	-0.30403140	0.17717484	-2.36679656	
GUCA1A	0.30400506	0.17717484	2.36657064	yes
CCDC41	-0.30396765	0.17717484	-2.36624977	
WDR5B	-0.30398319	0.17717484	-2.36638312	
GNPAT	-0.30397367	0.17717484	-2.36630147	
C6orf97	-0.30394402	0.17718893	-2.36604712	
ACPT	0.30391198	0.17723432	2.36577229	
ZMYND12	-0.30388803	0.17724966	-2.36556689	
NUP210L	0.30380543	0.17748306	2.36485852	yes

PLN	0.30375639	0.17759178	2.36443804	
DDIT4L	0.30356491	0.17773341	2.36279619	
GPR146	0.30358084	0.17773341	2.36293272	
DCDC5	-0.30358453	0.17773341	-2.36296439	
FGF8	0.30361955	0.17773341	2.36326469	
TRIM32	-0.30355456	0.17773341	-2.36270743	
IL1F5	0.30367650	0.17773341	2.36375298	
GPR17	0.30363111	0.17773341	2.36336380	
DCDC1	-0.30354032	0.17773341	-2.36258533	
SART3	-0.30367576	0.17773341	-2.36374665	
KRT79	0.30349159	0.17783371	2.36216757	
ACTN1	0.30347388	0.17783371	2.36201580	
NXF4	0.30343698	0.17789765	2.36169942	
LOC100133131	0.30340310	0.17791102	2.36140898	
CEBPG	-0.30317947	0.17791102	-2.35949222	
RUVBL2	-0.30323156	0.17791102	-2.35993869	
ITPRIPL1	0.30300373	0.17791102	2.35798626	
ELF1	-0.30337479	0.17791102	-2.36116631	yes
TCTE1	-0.30314898	0.17791102	-2.35923096	
BBS9	-0.30316925	0.17791102	-2.35940464	
CDRT4	-0.30298135	0.17791102	-2.35779450	
MAGEH1	0.30305039	0.17791102	2.35838604	
ACACA	-0.30331216	0.17791102	-2.36062947	
DKFZp779M0652	0.30302071	0.17791102	2.35813172	
ARL3	-0.30321008	0.17791102	-2.35975459	
MYO7B	0.30328723	0.17791102	2.36041580	yes
NOL7	-0.30304607	0.17791102	-2.35834902	
DLL4	0.30325593	0.17791102	2.36014755	
C10orf92	-0.30299626	0.17791102	-2.35792225	
PSENN	-0.30323532	0.17791102	-2.35997090	
BCL2L1	-0.30335305	0.17791102	-2.36097995	
EPB41L4A	-0.30322084	0.17791102	-2.35984682	
DOC2BL	0.30298937	0.17791102	2.35786320	

TEAD1	-0.30298502	0.17791102	-2.35782592	
C12orf49	-0.30315524	0.17791102	-2.35928456	
CCDC65	-0.30309226	0.17791102	-2.35874486	
STAM2	-0.30270233	0.17805561	-2.35540398	yes
C1orf122	0.30285649	0.17805561	2.35672469	
F13B	0.30284900	0.17805561	2.35666047	
RIBC2	-0.30276058	0.17805561	-2.35590297	
APOBEC1	0.30289285	0.17805561	2.35703615	
PIWIL3	0.30270527	0.17805561	2.35542914	
PGF	0.30270723	0.17805561	2.35544598	yes
RHAG	0.30273922	0.17805561	2.35571996	
C6orf225	-0.30279150	0.17805561	-2.35616789	
RMND5A	-0.30266906	0.17805561	-2.35511903	yes
BCL11B	0.30290837	0.17805561	2.35716914	
TNNI3	-0.30281888	0.17805561	-2.35640244	
ZIC2	0.30271398	0.17805561	2.35550380	
KRTAP3-2	0.30267662	0.17805561	2.35518372	
TAF5L	-0.30260361	0.17808175	-2.35455840	yes
SPTBN4	0.30262121	0.17808175	2.35470913	
C11orf52	-0.30262563	0.17808175	-2.35474703	
FBXO17	0.30247160	0.17822643	2.35342773	
PIGU	-0.30240067	0.17822643	-2.35282030	yes
FAM19A4	0.30237038	0.17822643	2.35256094	
C14orf83	-0.30251321	0.17822643	-2.35378411	
TANC2	-0.30238345	0.17822643	-2.35267281	
LOC100133405	-0.30242974	0.17822643	-2.35306928	
C12orf63	-0.30239485	0.17822643	-2.35277051	
KCND1	0.30241211	0.17822643	2.35291824	
RGS5	0.30243245	0.17822643	2.35309250	
F2RL3	0.30241127	0.17822643	2.35291108	yes
M6PRBP1	-0.30229002	0.17825034	-2.35187281	
CCDC56	-0.30229596	0.17825034	-2.35192368	
PCBP4	0.30228127	0.17825034	2.35179791	yes

BBOX1	-0.30227179	0.17825034	-2.35171671	
LCOR	-0.30226703	0.17825034	-2.35167599	yes
C2orf57	0.30220367	0.17834196	2.35113346	
SLITRK3	0.30222045	0.17834196	2.35127716	
NPB	0.30216474	0.17841479	2.35080010	
SNORD113-3	0.30213319	0.17846018	2.35053000	
RGS22	-0.30208719	0.17855937	-2.35013619	
TAF8	0.30197989	0.17888695	2.34921769	
ATR	-0.30194561	0.17894267	-2.34892423	
C1QTNF6	0.30187670	0.17898346	2.34833442	
C2orf76	-0.30190041	0.17898346	-2.34853734	
DYNLRB1	-0.30187977	0.17898346	-2.34836074	
TRIM16	-0.30184138	0.17904314	-2.34803212	
CCDC80	-0.30182041	0.17904641	-2.34785261	
FAIM	-0.30179388	0.17904641	-2.34762560	
LTBP4	0.30178261	0.17904641	2.34752915	
SULT6B1	0.30172961	0.17917213	2.34707556	
CLDN7	-0.30169160	0.17924199	-2.34675031	
SLC32A1	0.30166113	0.17924200	2.34648956	
LCE1F	0.30165306	0.17924200	2.34642046	
CPLX1	0.30156513	0.17935453	2.34566808	
SLC22A23	-0.30156687	0.17935453	-2.34568293	
YWHAE	-0.30156955	0.17935453	-2.34570592	yes
B9D1	-0.30143571	0.17955607	-2.34456077	
PDX1	0.30143841	0.17955607	2.34458387	
LOC387720	0.30145801	0.17955607	2.34475152	
PFKP	-0.30143420	0.17955607	-2.34454786	
SERPINI2	-0.30137522	0.17970458	-2.34404329	
CACNG3	0.30131842	0.17984508	2.34355735	
ABI2	-0.30122341	0.17986815	-2.34274464	
C20orf46	0.30123207	0.17986815	2.34281874	
BTD	-0.30122254	0.17986815	-2.34273722	
NME5	-0.30121624	0.17986815	-2.34268337	

GNA14	-0.30124659	0.17986815	-2.34294296	
STON1	0.30115034	0.17989947	2.34211968	
IKIP	0.30117602	0.17989947	2.34233930	
CLDN18	0.30115437	0.17989947	2.34215417	
TUBGCP2	-0.30092381	0.18021558	-2.34018245	
OR56B4	0.30076014	0.18021558	2.33878297	
SSPO	0.30076795	0.18021558	2.33884971	
RBMS3	0.30087833	0.18021558	2.33979349	
TMEM105	0.30089359	0.18021558	2.33992398	
ITPR2	0.30074368	0.18021558	2.33864224	
LSAMP	0.30100280	0.18021558	2.34085785	
EGLN1	0.30099762	0.18021558	2.34081354	
KIF27	-0.30067810	0.18021558	-2.33808163	
KCNK12	0.30079655	0.18021558	2.33909426	
PXMP3	-0.30073077	0.18021558	-2.33853189	
CACNG7	0.30100268	0.18021558	2.34085686	
VTN	0.30070874	0.18021558	2.33834356	
SRD5A3	-0.30074090	0.18021558	-2.33861847	
EIF4EBP3	0.30072556	0.18021558	2.33848735	
PNPT1	-0.30066467	0.18021558	-2.33796677	
TBX18	0.30073631	0.18021558	2.33857925	
MARS2	-0.30088032	0.18021558	-2.33981056	
MMP20	0.30083700	0.18021558	2.33944016	
NAPSA	0.30071342	0.18021558	2.33838356	yes
CLINT1	-0.30069316	0.18021558	-2.33821033	
TAS1R3	0.30062379	0.18029728	2.33761728	
PACRG	-0.30058813	0.18035946	-2.33731252	
ASB14	-0.30055574	0.18040947	-2.33703565	
XKR4	0.30048210	0.18041525	2.33640613	
FAM71A	0.30041194	0.18041525	2.33580652	yes
C10orf107	-0.30047762	0.18041525	-2.33636788	
SLC10A5	-0.30041313	0.18041525	-2.33581665	
IGLL1	0.30040223	0.18041525	2.33572356	

FXVD3	-0.30042009	0.18041525	-2.33587616	
PLXNB3	0.30041890	0.18041525	2.33586598	yes
AGPAT9	-0.30047040	0.18041525	-2.33630621	
FLRT1	0.30037427	0.18044889	2.33548459	
SEMA3A	-0.30026979	0.18055934	-2.33459172	yes
ATP6V1H	-0.30027034	0.18055934	-2.33459640	
IQCH	-0.30026894	0.18055934	-2.33458439	
GFI1B	0.30027590	0.18055934	2.33464391	
PSMC3IP	-0.30019758	0.18075554	-2.33397461	
CPE	0.30009605	0.18086558	2.33310710	
C11orf66	-0.30009249	0.18086558	-2.33307669	
LPO	0.30010613	0.18086558	2.33319329	
GLIS2	0.30012378	0.18086558	2.33334408	
FHL3	0.30005702	0.18092759	2.33277367	
FAM110B	0.30000802	0.18104035	2.33235504	
NR6A1	-0.29998467	0.18105703	-2.33215554	
NIP7	-0.29996214	0.18107062	-2.33196313	
GDPD1	-0.29991356	0.18118193	-2.33154811	
SLC22A4	-0.29981715	0.18147283	-2.33072453	
CDS1	-0.29979657	0.18147919	-2.33054878	yes
KIF18B	0.29962163	0.18148830	2.32905461	
NLRP7	0.29968132	0.18148830	2.32956443	
PHF19	0.29964386	0.18148830	2.32924453	
EIF2AK1	-0.29977402	0.18148830	-2.33035614	
WDFY1	-0.29961922	0.18148830	-2.32903408	
TINAGL1	0.29958683	0.18148830	2.32875743	
FLJ40606	0.29968246	0.18148830	2.32957412	
HIST1H3E	-0.29960847	0.18148830	-2.32894225	
WISP2	0.29960179	0.18148830	2.32888518	
C2orf39	-0.29960274	0.18148830	-2.32889330	
PCYT1B	-0.29967226	0.18148830	-2.32948702	
SNORD115-31	0.29946411	0.18154570	2.32770953	
ASCL4	0.29952429	0.18154570	2.32822344	

TMEM68	-0.29955034	0.18154570	-2.32844582	
HES3	0.29948294	0.18154570	2.32787031	yes
ACBD7	-0.29945876	0.18154570	-2.32766384	
NCAM2	0.29945988	0.18154570	2.32767339	
CDX1	0.29935097	0.18170741	2.32674350	yes
WDR66	-0.29928760	0.18170741	-2.32620250	
FAM71B	0.29918292	0.18170741	2.32530885	
FBLN1	0.29928288	0.18170741	2.32616219	
SYT11	0.29922267	0.18170741	2.32564824	
PRDX5	-0.29924306	0.18170741	-2.32582226	
IL17B	0.29920618	0.18170741	2.32550742	
FAM92B	-0.29919230	0.18170741	-2.32538900	
LAMC1	0.29923757	0.18170741	2.32577537	
CYB5R2	-0.29919911	0.18170741	-2.32544712	
C3orf51	0.29917205	0.18170741	2.32521613	
KIAA2013	0.29918309	0.18170741	2.32531032	
VPS4B	-0.29929679	0.18170741	-2.32628093	
COL9A3	0.29911552	0.18170915	2.32473355	
RNF222	0.29915118	0.18170915	2.32503795	
CLMN	-0.29912231	0.18170915	-2.32479150	
SPTA1	0.29909652	0.18171034	2.32457140	yes
MRRF	-0.29906077	0.18177439	-2.32426626	
PAH	0.29902316	0.18177544	2.32394527	
GJC2	0.29903210	0.18177544	2.32402158	
MAP6	-0.29895825	0.18180906	-2.32339127	
NEK1	-0.29896319	0.18180906	-2.32343342	
RBP5	0.29898284	0.18180906	2.32360112	
OR8D1	0.29885595	0.18205870	2.32251820	
C20orf11	-0.29883583	0.18205870	-2.32234655	
THNSL2	-0.29884926	0.18205870	-2.32246113	
NAV3	0.29879847	0.18212907	2.32202775	
LOC100131763	0.29875616	0.18214815	2.32166668	
NGEF	-0.29876117	0.18214815	-2.32170947	

KCNIP3	0.29869733	0.18229924	2.32116478	
LSM11	0.29859387	0.18233873	2.32028200	yes
LRRC6	-0.29860380	0.18233873	-2.32036677	
NGDN	-0.29861142	0.18233873	-2.32043181	
KIAA1529	-0.29864234	0.18233873	-2.32069559	
ZFYVE20	-0.29863463	0.18233873	-2.32062980	
ETV1	0.29857019	0.18235790	2.32008003	
RPGRIP1L	-0.29850471	0.18244477	-2.31952140	
PLAT	0.29851641	0.18244477	2.31962124	
FBXO34	-0.29849138	0.18244477	-2.31940775	
KRTAP10-11	0.29838056	0.18274799	2.31846244	
TTC21B	-0.29837366	0.18274799	-2.31840358	
CGREF1	0.29827446	0.18276656	2.31755748	
FAM81A	-0.29827848	0.18276656	-2.31759179	
ENSA	-0.29825754	0.18276656	-2.31741321	
HIP1	0.29827207	0.18276656	2.31753711	
CCDC123	-0.29833891	0.18276656	-2.31810714	
IQCB1	-0.29827988	0.18276656	-2.31760369	
CDSN	0.29816780	0.18289538	2.31664786	
NDUFC1	-0.29819389	0.18289538	-2.31687038	
FAM161A	-0.29817447	0.18289538	-2.31670476	
FLJ39061	-0.29807863	0.18290699	-2.31588749	
DOPEY1	-0.29813093	0.18290699	-2.31633348	yes
IDH3A	-0.29806500	0.18290699	-2.31577125	yes
ZBBX	-0.29805384	0.18290699	-2.31567608	
ERMP1	-0.29810107	0.18290699	-2.31607885	
EAF1	-0.29808365	0.18290699	-2.31593027	
ERGIC3	-0.29801094	0.18299896	-2.31531034	
NPHS1	0.29796215	0.18311035	2.31489427	
C9orf140	0.29794445	0.18311035	2.31474343	
ZYX	0.29785070	0.18339410	2.31394416	
TP53RK	-0.29775361	0.18353417	-2.31311649	
DUSP8	0.29778640	0.18353417	2.31339596	

PCDHGC5	0.29769926	0.18353417	2.31265320	
ALMS1	-0.29769105	0.18353417	-2.31258320	
FAM164C	-0.29774210	0.18353417	-2.31301832	
CCDC33	-0.29771564	0.18353417	-2.31279279	
C3orf25	-0.29768457	0.18353417	-2.31252800	
SLC16A4	0.29764877	0.18359982	2.31222279	
LOC100131848	0.29756939	0.18382374	2.31154630	
TRIM37	-0.29755264	0.18382374	-2.31140347	yes
CLDN19	0.29745966	0.18397347	2.31061115	
KHK	0.29747151	0.18397347	2.31071211	
ATG5	-0.29745783	0.18397347	-2.31059551	
CTRL	0.29737597	0.18400518	2.30989792	
OR2T8	0.29739027	0.18400518	2.31001983	
MAS1	0.29738662	0.18400518	2.30998870	
ZC4H2	0.29742264	0.18400518	2.31029563	
ACN9	-0.29729973	0.18422393	-2.30924829	
PSG3	0.29726365	0.18429095	2.30894092	
GHSR	0.29721978	0.18433223	2.30856709	
HADH	-0.29718814	0.18433223	-2.30829754	
LBP	0.29715786	0.18433223	2.30803962	
ST3GAL2	0.29715919	0.18433223	2.30805092	yes
ZNF20	-0.29717344	0.18433223	-2.30817233	
PRRT1	0.29714275	0.18433223	2.30791085	
NOTUM	0.29712316	0.18433706	2.30774396	
LOC646799	0.29708799	0.18440084	2.30744433	
UBAC1	-0.29699098	0.18449097	-2.30661802	
CCDC17	-0.29700281	0.18449097	-2.30671877	
HOXC13	0.29702280	0.18449097	2.30688908	
UNC93B1	-0.29702298	0.18449097	-2.30689056	
C9orf45	-0.29693347	0.18463939	-2.30612819	
CETP	0.29684510	0.18468074	2.30537546	
VWA3A	-0.29686344	0.18468074	-2.30553172	
CLIC4	0.29683123	0.18468074	2.30525734	

RNF43	-0.29684416	0.18468074	-2.30536752	
FASTKD5	-0.29683515	0.18468074	-2.30529072	
GPR161	0.29673878	0.18472663	2.30447004	
RASSF3	0.29674668	0.18472663	2.30453730	
HOXC9	0.29673972	0.18472663	2.30447802	
C16orf57	0.29672792	0.18472663	2.30437753	
IP6K1	-0.29672816	0.18472663	-2.30437959	
FAM81B	-0.29666976	0.18473994	-2.30388227	
SNORA3	0.29668130	0.18473994	2.30398053	
CLIP1	-0.29668979	0.18473994	-2.30405285	yes
HIRA	-0.29664745	0.18475548	-2.30369230	
PWWP2A	0.29646834	0.18484026	2.30216730	
CRYBB2	0.29646146	0.18484026	2.30210878	
OTOS	0.29647511	0.18484026	2.30222499	
MAGEB6	0.29654587	0.18484026	2.30282743	
LHFPL1	0.29646688	0.18484026	2.30215491	
NBPF7	0.29648279	0.18484026	2.30229035	
ATOH1	0.29657809	0.18484026	2.30310170	
RPS26	0.29654331	0.18484026	2.30280561	
HSD3B7	0.29657163	0.18484026	2.30304674	
TIGD2	-0.29639458	0.18490209	-2.30153937	
ENPEP	0.29640571	0.18490209	2.30163412	yes
MYL2	0.29637256	0.18490209	2.30135197	
PRR13	0.29637988	0.18490209	2.30141428	
EIF2C4	-0.29634109	0.18495259	-2.30108403	
LUM	0.29630284	0.18502877	2.30075843	
CYP2F1	-0.29622344	0.18505581	-2.30008258	
OLIG3	0.29623770	0.18505581	2.30020394	
OBP2A	0.29619224	0.18505581	2.29981702	
NANOS3	0.29625538	0.18505581	2.30035450	
LOC388796	-0.29618268	0.18505581	-2.29973571	
LYL1	0.29616900	0.18505581	2.29961922	
OR2S2	0.29621667	0.18505581	2.30002494	

GCLC	-0.29610969	0.18521187	-2.29911445	yes
EDNRA	0.29602819	0.18524682	2.29842091	
SAMD5	0.29604849	0.18524682	2.29859362	
SS18	-0.29603322	0.18524682	-2.29846371	yes
RGS9	0.29607651	0.18524682	2.29883209	
TXLNB	-0.29596249	0.18542731	-2.29786176	
NR2E3	0.29558961	0.18562553	2.29468940	
ADORA2B	-0.29557935	0.18562553	-2.29460211	
PNCK	0.29564172	0.18562553	2.29513268	yes
PEBP4	0.29576355	0.18562553	2.29616906	
SLC29A1	0.29556816	0.18562553	2.29450689	
TNIK	0.29559297	0.18562553	2.29471794	
ARL2BP	-0.29581663	0.18562553	-2.29662071	
SGK3	-0.29557855	0.18562553	-2.29459528	
CCDC153	-0.29558224	0.18562553	-2.29462665	
FAM69A	-0.29584888	0.18562553	-2.29689506	
KLK12	0.29559485	0.18562553	2.29473397	
CMTM6	-0.29562475	0.18562553	-2.29498827	
SLC6A11	0.29565918	0.18562553	2.29528115	
TGFBR3	0.29567206	0.18562553	2.29539073	
TCTN1	-0.29560108	0.18562553	-2.29478697	
YEATS4	-0.29556981	0.18562553	-2.29452096	
MYCBPAP	-0.29563040	0.18562553	-2.29503634	
MED10	-0.29574564	0.18562553	-2.29601671	
COX7A2L	-0.29576007	0.18562553	-2.29613949	
ABI1	-0.29554520	0.18564452	-2.29431158	yes
SH2B3	0.29548509	0.18567334	2.29380031	
ZNF440	-0.29545930	0.18567334	-2.29358098	
UNC5D	0.29543078	0.18567334	2.29333846	
WDTC1	-0.29540849	0.18567334	-2.29314881	
ORMDL2	-0.29540176	0.18567334	-2.29309165	
SOAT1	-0.29540282	0.18567334	-2.29310066	
LRRIQ1	-0.29539421	0.18567334	-2.29302738	

SIGLEC12	0.29548615	0.18567334	2.29380937	
C17orf68	0.29537353	0.18568389	2.29285148	
LOC100133197	0.29530097	0.18568773	2.29223449	
TXNDC9	-0.29530240	0.18568773	-2.29224663	
CXorf22	-0.29533092	0.18568773	-2.29248915	
IL5RA	-0.29534384	0.18568773	-2.29259898	
GPR137B	-0.29523308	0.18577885	-2.29165717	
CDC14A	-0.29524576	0.18577885	-2.29176494	
KIAA0427	0.29522331	0.18577885	2.29157409	yes
RBPMS	0.29496555	0.18582966	2.28938256	
COL9A2	0.29492416	0.18582966	2.28903068	
BNIP1	-0.29487257	0.18582966	-2.28859211	
C6orf165	-0.29509770	0.18582966	-2.29050605	
PPAPDC1A	0.29503957	0.18582966	2.29001178	
DNAH10	-0.29517563	0.18582966	-2.29116864	
ARMC3	-0.29492185	0.18582966	-2.28901102	
ABC7	-0.29484560	0.18582966	-2.28836285	
RRAS2	0.29497786	0.18582966	2.28948721	
AVL9	-0.29505453	0.18582966	-2.29013896	
ANGPT1	0.29500953	0.18582966	2.28975641	
SCGB1D4	0.29504106	0.18582966	2.29002445	
NAGA	-0.29487325	0.18582966	-2.28859788	
ZNF580	0.29490827	0.18582966	2.28889563	
OTUD4	-0.29491740	0.18582966	-2.28897320	yes
WDR35	-0.29483606	0.18582966	-2.28828176	
CENPK	-0.29485864	0.18582966	-2.28847374	
CDH24	0.29494173	0.18582966	2.28918007	
TP53BP2	-0.29484925	0.18582966	-2.28839393	
SNIP1	0.29511686	0.18582966	2.29066891	
MCM8	-0.29492368	0.18582966	-2.28902662	
KLHL32	-0.29481241	0.18585202	-2.28808072	
TMEM66	-0.29477876	0.18591220	-2.28779476	
OR2F1	0.29472244	0.18600218	2.28731605	

LOC100133409	-0.29471275	0.18600218	-2.28723367	
ZNF774	0.29470180	0.18600218	2.28714067	
ARPC4	-0.29467959	0.18601919	-2.28695190	
NTRK1	0.29465121	0.18605958	2.28671068	
LOC120824	0.29460695	0.18616013	2.28633451	
MED6	-0.29420796	0.18638214	-2.28294447	yes
C16orf46	-0.29432044	0.18638214	-2.28390006	
C18orf25	-0.29440024	0.18638214	-2.28457804	
CTNND1	-0.29447945	0.18638214	-2.28525112	
EFNA2	0.29417967	0.18638214	2.28270414	
SPAG17	-0.29452680	0.18638214	-2.28565341	
FBXL22	0.29419646	0.18638214	2.28284677	
MAGEB18	0.29450535	0.18638214	2.28547120	
HOXB1	0.29444059	0.18638214	2.28492088	
XKR9	0.29421373	0.18638214	2.28299350	
MAB21L1	0.29419602	0.18638214	2.28284304	
PCYT1A	-0.29423819	0.18638214	-2.28320127	
DNAH7	-0.29417761	0.18638214	-2.28268670	
GRAMD1A	0.29436595	0.18638214	2.28428670	
SKP1	-0.29431702	0.18638214	-2.28387101	
BMPR1B	-0.29436201	0.18638214	-2.28425321	
RP4-692D3.1	-0.29446646	0.18638214	-2.28514073	
RAB2B	-0.29442161	0.18638214	-2.28475964	yes
IGSF21	0.29426130	0.18638214	2.28339766	
SERPINH1	0.29444098	0.18638214	2.28492424	
FOXP2	-0.29418797	0.18638214	-2.28277471	
ZNF474	-0.29415684	0.18639416	-2.28251025	
ZNF746	0.29405447	0.18664872	2.28164068	
FIBIN	0.29405875	0.18664872	2.28167708	
M6PR	-0.29402995	0.18667501	-2.28143240	
PHACTR3	0.29388431	0.18704812	2.28019551	
C3orf48	0.29387886	0.18704812	2.28014924	
ITPA	-0.29388069	0.18704812	-2.28016477	

DGKG	0.29372839	0.18707092	2.27887149	yes
SLC25A34	0.29379497	0.18707092	2.27943687	
GPR150	0.29373146	0.18707092	2.27889757	
KCNA6	0.29374278	0.18707092	2.27899374	
KPNA3	-0.29371492	0.18707092	-2.27875714	
PAPPAS	-0.29372124	0.18707092	-2.27881081	
RAF1	-0.29373955	0.18707092	-2.27896624	
KREMEN1	-0.29381471	0.18707092	-2.27960448	
ZNF432	-0.29383181	0.18707092	-2.27974968	
C2orf63	-0.29365184	0.18724386	-2.27822154	
SNORD116-24	0.29355326	0.18741873	2.27738459	
MSL3	-0.29357851	0.18741873	-2.27759899	yes
APOBEC4	-0.29355629	0.18741873	-2.27741035	
LOC100129484	0.29350762	0.18743595	2.27699717	
NCAPD3	-0.29344993	0.18743595	-2.27650743	
GABRG3	0.29344376	0.18743595	2.27645507	
PLEKHA5	-0.29347133	0.18743595	-2.27668905	
CHST9	-0.29350594	0.18743595	-2.27698290	
RASSF5	-0.29346625	0.18743595	-2.27664600	
LOC100132750	0.29338968	0.18744105	2.27599603	
APOE	0.29335626	0.18744105	2.27571235	
MSI1	0.29337386	0.18744105	2.27586175	
PRR14	0.29335509	0.18744105	2.27570242	
RASAL2	-0.29340155	0.18744105	-2.27609676	
SMAD7	0.29329319	0.18760995	2.27517698	
LRRN3	0.29326408	0.18765427	2.27492992	yes
ZBTB12	0.29321000	0.18779355	2.27447097	
FOXL1	0.29317548	0.18785852	2.27417801	
KCNK15	0.29312723	0.18793068	2.27376855	
CLDN5	0.29312165	0.18793068	2.27372115	
SLC27A2	-0.29266448	0.18815773	-2.26984246	
PACRGL	-0.29284544	0.18815773	-2.27137760	
TMEM31	0.29273626	0.18815773	2.27045137	

KLHL34	0.29281780	0.18815773	2.27114312	yes
GNS	-0.29289098	0.18815773	-2.27176393	
HOXC5	0.29277984	0.18815773	2.27082102	
HSPG2	0.29285903	0.18815773	2.27149290	
IDS	-0.29262670	0.18815773	-2.26952198	
ITGB3	0.29290124	0.18815773	2.27185096	
KPNA1	-0.29288977	0.18815773	-2.27175369	
ANKRD18B	-0.29302155	0.18815773	-2.27287180	
BTN2A3	0.29298615	0.18815773	2.27257138	yes
TMEM51	-0.29291567	0.18815773	-2.27197344	
WDR33	-0.29285356	0.18815773	-2.27144642	yes
KIAA1191	-0.29261054	0.18815773	-2.26938494	
MRPS35	-0.29261051	0.18815773	-2.26938468	
STIL	-0.29289725	0.18815773	-2.27181709	
LOC728361	0.29283683	0.18815773	2.27130457	
CLIP2	0.29262583	0.18815773	2.26951464	
CA4	0.29273354	0.18815773	2.27042827	
MAP9	-0.29277246	0.18815773	-2.27075846	
STMN4	0.29265130	0.18815773	2.26973068	
KLHL13	-0.29271571	0.18815773	-2.27027707	
UAP1L1	0.29263053	0.18815773	2.26955454	yes
DDX23	-0.29276490	0.18815773	-2.27069433	
HS3ST1	-0.29272682	0.18815773	-2.27037131	
MDH1B	-0.29256725	0.18819068	-2.26901782	
MEF2C	0.29258226	0.18819068	2.26914511	
SPDYE7P	0.29252604	0.18821595	2.26866829	
KRT38	0.29254036	0.18821595	2.26878974	
NDRG1	0.29238266	0.18825125	2.26745231	
EEF1B2	0.29237572	0.18825125	2.26739344	
KIF6	-0.29242339	0.18825125	-2.26779773	
RTDR1	-0.29247892	0.18825125	-2.26826863	
IGHV1-18	0.29247937	0.18825125	2.26827244	
ATP4A	0.29238215	0.18825125	2.26744800	

PAPPA	0.29243659	0.18825125	2.26790968	
FXD7	0.29240466	0.18825125	2.26763890	
SHB	0.29236145	0.18825125	2.26727245	
AGER	0.29232849	0.18831104	2.26699297	
PIH1D2	-0.29230332	0.18834123	-2.26677958	
LOC100133325	0.29216594	0.18842640	2.26561475	
ZNF271	-0.29215655	0.18842640	-2.26553512	
DIO2	0.29219860	0.18842640	2.26589161	
CCDC125	-0.29224445	0.18842640	-2.26628038	
ZNF662	0.29212609	0.18842640	2.26527688	
SRR	-0.29213462	0.18842640	-2.26534917	
YWHAH	-0.29213196	0.18842640	-2.26532666	
C5orf32	-0.29226252	0.18842640	-2.26643361	
KIAA0317	-0.29220129	0.18842640	-2.26591442	yes
FHAD1	-0.29193558	0.18891471	-2.26366189	
NEK10	-0.29191193	0.18891471	-2.26346144	
DERA	-0.29191453	0.18891471	-2.26348344	
CA7	0.29196002	0.18891471	2.26386906	
CSDA	-0.29197236	0.18891471	-2.26397362	
HFE2	0.29181339	0.18895877	2.26262618	
PKN3	0.29180870	0.18895877	2.26258650	yes
HOXC12	0.29177343	0.18895877	2.26228751	yes
NANOS2	0.29177917	0.18895877	2.26233618	
PFN4	-0.29176321	0.18895877	-2.26220093	
FAM96B	-0.29176532	0.18895877	-2.26221877	
CSNK1G1	-0.29185096	0.18895877	-2.26294466	
SLC44A4	-0.29187723	0.18895877	-2.26316730	
DALRD3	-0.29171975	0.18905909	-2.26183264	
CDKN2C	-0.29160619	0.18936151	-2.26087031	
NUP214	-0.29162049	0.18936151	-2.26099146	
ZACN	0.29157541	0.18941366	2.26060948	
RP11-167P23.2	0.29154989	0.18944576	2.26039323	
CTH	0.29145409	0.18953544	2.25958155	

ZDHC8P	0.29146503	0.18953544	2.25967422	
TBX10	0.29144091	0.18953544	2.25946987	
PPP1R12C	0.29146871	0.18953544	2.25970539	yes
VN1R1	0.29148878	0.18953544	2.25987544	
ESR2	0.29141863	0.18954579	2.25928113	
SLC16A9	-0.29140404	0.18954579	-2.25915749	
CES1	-0.29133600	0.18957607	-2.25858110	
TXNL4A	-0.29115602	0.18957607	-2.25705649	
CALR3	0.29113222	0.18957607	2.25685489	
TMEM182	-0.29118231	0.18957607	-2.25727918	
DNAH2	-0.29131847	0.18957607	-2.25843253	
PLD5	0.29114593	0.18957607	2.25697106	
GRIK5	0.29117305	0.18957607	2.25720070	
PCBP3	0.29129540	0.18957607	2.25823713	
TMCO1	-0.29122236	0.18957607	-2.25761840	
OLFML3	0.29110654	0.18957607	2.25663744	
CGN	-0.29137079	0.18957607	-2.25887577	
RFC5	-0.29122052	0.18957607	-2.25760285	
DEFB137	0.29118908	0.18957607	2.25733656	
STK33	-0.29125116	0.18957607	-2.25786233	
ATOX8	0.29111795	0.18957607	2.25673402	
PAGE5	0.29112072	0.18957607	2.25675749	
RAB36	-0.29131928	0.18957607	-2.25843940	
PIK3CB	-0.29106610	0.18966553	-2.25629487	
SLC20A2	-0.29095998	0.19000575	-2.25539616	
C20orf26	-0.29093774	0.19002582	-2.25520783	
RHOBTB2	0.29091398	0.19005173	2.25500660	
HLX	0.29088689	0.19007391	2.25477721	
RAB11A	-0.29087422	0.19007391	-2.25466995	yes
DAB2IP	0.29082177	0.19009598	2.25422582	
NPR2	0.29081512	0.19009598	2.25416952	
HN1	-0.29078366	0.19009598	-2.25390309	
GRAMD3	-0.29078472	0.19009598	-2.25391207	

WDR54	-0.29084117	0.19009598	-2.25439012	
TTC21A	-0.29069516	0.19030465	-2.25315382	
FAM127A	0.29070493	0.19030465	2.25323659	
VAPA	-0.29067734	0.19030804	-2.25300294	yes
SNORA38B	0.29042572	0.19037279	2.25087297	
MSLN	-0.29063410	0.19037279	-2.25263689	
PHF21B	0.29057846	0.19037279	2.25216590	
CHIC2	-0.29049437	0.19037279	-2.25145401	
HOXC6	0.29054965	0.19037279	2.25192200	
C10orf134	-0.29041516	0.19037279	-2.25078353	
TMIGD1	0.29055729	0.19037279	2.25198664	
MAK	-0.29040396	0.19037279	-2.25068878	
MTIF2	-0.29037566	0.19037279	-2.25044928	
NEDD4	0.29045427	0.19037279	2.25111463	
PODXL2	0.29035634	0.19037279	2.25028576	
CASC1	-0.29049768	0.19037279	-2.25148206	
PARD3	-0.29042171	0.19037279	-2.25083905	
PRODH2	0.29055393	0.19037279	2.25195822	
FAM118B	-0.29041915	0.19037279	-2.25081735	
FCAMR	0.29046446	0.19037279	2.25120087	
C8orf76	-0.29058031	0.19037279	-2.25218151	
NCR1	0.29036001	0.19037279	2.25031676	
EMP3	0.29022423	0.19049161	2.24916764	
OR9Q2	0.29024807	0.19049161	2.24936938	
KPNA6	-0.29024105	0.19049161	-2.24930999	
SIRPB2	0.29028249	0.19049161	2.24966071	
PDE4B	0.29030022	0.19049161	2.24981075	
LOC648987	-0.29024304	0.19049161	-2.24932687	
OLIG1	0.29020708	0.19049285	2.24902254	
CXADR	-0.29018227	0.19052340	-2.24881259	
WIF1	0.29003913	0.19053052	2.24760136	
C4orf32	0.29014244	0.19053052	2.24847551	
ZNF776	-0.29001252	0.19053052	-2.24737626	

ZNF805	-0.29001251	0.19053052	-2.24737618	
PCSK6	0.29012978	0.19053052	2.24836841	
NLK	-0.29005980	0.19053052	-2.24777624	
SMOC1	0.29010372	0.19053052	2.24814792	
TCEB1P3	0.29006381	0.19053052	2.24781021	
RAB7A	-0.29008407	0.19053052	-2.24798160	
KIAA0232	-0.29002998	0.19053052	-2.24752398	yes
CCDC105	0.28995826	0.19060969	2.24691716	
FAM179B	-0.28996757	0.19060969	-2.24699590	
LHX6	0.28987656	0.19068522	2.24622598	
ASTE1	-0.28986938	0.19068522	-2.24616519	
C10orf113	-0.28987164	0.19068522	-2.24618436	
RP5-1077B9.4	0.28989680	0.19068522	2.24639717	
MYO18B	0.28983802	0.19068522	2.24589996	
KIAA1919	-0.28985433	0.19068522	-2.24603794	
NMS	0.28970707	0.19074309	2.24479225	
HEATR7B2	0.28965894	0.19074309	2.24438513	
ARID2	-0.28968500	0.19074309	-2.24460559	yes
HACL1	-0.28965580	0.19074309	-2.24435855	
PGM1	0.28974709	0.19074309	2.24513071	
PRRG1	0.28976590	0.19074309	2.24528983	
RTKN	0.28978404	0.19074309	2.24544328	
CERK	0.28969078	0.19074309	2.24465449	
ZNF217	-0.28967982	0.19074309	-2.24456176	
BCAS1	-0.28975223	0.19074309	-2.24517426	
SNORD116-14	0.28952551	0.19095408	2.24325665	
NALCN	0.28957033	0.19095408	2.24363573	
IRF2BP1	0.28951719	0.19095408	2.24318629	yes
SPRN	0.28956591	0.19095408	2.24359832	
FLJ22167	-0.28953188	0.19095408	-2.24331052	
SERPINB1	-0.28944077	0.19111881	-2.24254004	
GLRX	-0.28945515	0.19111881	-2.24266166	
PRKCB	0.28940438	0.19119428	2.24223229	

TMEM41B	-0.28930469	0.19151203	-2.24138941	
LOC100133404	0.28923939	0.19169840	2.24083729	yes
UNQ6193	0.28905420	0.19185254	2.23927175	
CETN2	-0.28815877	0.19185254	-2.23170572	
C7orf16	0.28853350	0.19185254	2.23487123	
C1QTNF2	0.28818801	0.19185254	2.23195266	
C10orf104	-0.28822264	0.19185254	-2.23224518	
SGPP2	-0.28856184	0.19185254	-2.23511066	
LRGUK	-0.28833267	0.19185254	-2.23317460	
C9orf116	-0.28916241	0.19185254	-2.24018645	
UPRT	-0.28818136	0.19185254	-2.23189644	
ZNF738	-0.28820006	0.19185254	-2.23205439	
LOC149643	-0.28893607	0.19185254	-2.23827319	
SLC2A12	-0.28899120	0.19185254	-2.23873918	
ATN1	0.28886333	0.19185254	2.23765842	
EIF5	-0.28869028	0.19185254	-2.23619593	yes
FGFR4	0.28816925	0.19185254	2.23179423	
FAM120A	-0.28817011	0.19185254	-2.23180147	
TMEM131	-0.28880645	0.19185254	-2.23717769	yes
ZBTB20	0.28836497	0.19185254	2.23344738	
PCDHB5	0.28900587	0.19185254	2.23886321	
DNAI1	-0.28814916	0.19185254	-2.23162452	
KIAA1274	0.28902649	0.19185254	2.23903751	
TEKT2	-0.28814273	0.19185254	-2.23157020	
TMEM224	0.28838931	0.19185254	2.23365307	
FLVCR1	-0.28849525	0.19185254	-2.23454808	
C11orf21	0.28872072	0.19185254	2.23645319	
ANAPC4	-0.28839943	0.19185254	-2.23373850	
FAM149B1	-0.28833045	0.19185254	-2.23315583	yes
SAR1P3	0.28839398	0.19185254	2.23369251	
IGHA2	0.28830784	0.19185254	2.23296480	
GDF6	0.28835819	0.19185254	2.23339019	
TMEM200B	0.28904864	0.19185254	2.23922469	

C14orf180	0.28882079	0.19185254	2.23729884
LOC404266	0.28913308	0.19185254	2.23993853
MARCKS	-0.28851832	0.19185254	-2.23474297
NEFL	0.28872924	0.19185254	2.23652515
NKX6-1	0.28857926	0.19185254	2.23525782
PRDX1	-0.28861626	0.19185254	-2.23557048
C4orf18	0.28830540	0.19185254	2.23294425
CRLS1	-0.28871134	0.19185254	-2.23637389
SAMD9	-0.28859107	0.19185254	-2.23535764
HCFC1R1	0.28836834	0.19185254	2.23347586
NPLOC4	-0.28885803	0.19185254	-2.23761359
KIAA1407	-0.28858906	0.19185254	-2.23534068
REG1B	0.28917880	0.19185254	2.24032501
PRDM16	0.28827181	0.19185254	2.23266048
SEMGI	0.28903990	0.19185254	2.23915082
SFRP5	0.28907879	0.19185254	2.23947955
SYN1	0.28871747	0.19185254	2.23642574
TFDP1	-0.28839334	0.19185254	-2.23368707
TNFAIP3	-0.28828504	0.19185254	-2.23277224
UCP2	-0.28840392	0.19185254	-2.23377646
C11orf63	-0.28903907	0.19185254	-2.23914381
TTC26	-0.28876572	0.19185254	-2.23683346
NUBPL	-0.28887582	0.19185254	-2.23776398
TRIM8	-0.28891126	0.19185254	-2.23806349
DYNLRB2	-0.28869087	0.19185254	-2.23620096
IQCG	-0.28859156	0.19185254	-2.23536181
SNX3	-0.28829283	0.19185254	-2.23283805
LMLN	-0.28833423	0.19185254	-2.23318778
PDCD5	0.28868421	0.19185254	2.23614465
ARRDC4	-0.28827072	0.19185254	-2.23265130
CCPG1	-0.28828243	0.19185254	-2.23275021
SNAP29	-0.28898734	0.19185254	-2.23870658
RP1L1	0.28869711	0.19185254	2.23625366

SEMA6B	0.28810014	0.19189028	2.23121048	yes
SCARNA11	0.28810777	0.19189028	2.23127495	
FUT9	0.28805380	0.19198397	2.23081919	
TRPM3	0.28804293	0.19198397	2.23072731	
RP11-529I10.4	-0.28795870	0.19218110	-2.23001601	
ZNF204	-0.28796851	0.19218110	-2.23009888	
LRRC37B2	-0.28791213	0.19223270	-2.22962277	
GSTP1	-0.28789621	0.19223270	-2.22948835	
MAPK9	-0.28790380	0.19223270	-2.22955244	
FAR2	-0.28785918	0.19231194	-2.22917566	
LOC100133364	0.28777465	0.19239674	2.22846201	
C7orf57	-0.28767286	0.19239674	-2.22760265	
LYPD4	0.28779562	0.19239674	2.22863904	
CYP17A1	0.28781453	0.19239674	2.22879869	
ICK	-0.28773892	0.19239674	-2.22816035	
FZD2	0.28772028	0.19239674	2.22800293	
GPR27	0.28767366	0.19239674	2.22760937	
LCE1D	0.28770015	0.19239674	2.22783300	
PCDHB12	0.28767250	0.19239674	2.22759960	
BAI1	0.28765771	0.19239674	2.22747470	
SOX7	0.28766908	0.19239674	2.22757073	
C7orf11	-0.28763519	0.19242061	-2.22728464	
AKT3	0.28725099	0.19243852	2.22404181	
SNORD116-4	0.28616142	0.19243852	2.21485186	
SNORD116-10	0.28654815	0.19243852	2.21811267	
KIAA1024L	0.28611516	0.19243852	2.21446184	
LOC100132625	-0.28613801	0.19243852	-2.21465451	
MAMLD1	0.28664359	0.19243852	2.21891752	
CRTAP	0.28719139	0.19243852	2.22353889	
ARPC1A	-0.28737334	0.19243852	-2.22507436	
IFITM2	0.28667523	0.19243852	2.21918443	
POLQ	-0.28597296	0.19243852	-2.21326323	
CPLX2	0.28628319	0.19243852	2.21587847	

PPARGC1A	0.28603400	0.19243852	2.21377773	
CHRM3	0.28642158	0.19243852	2.21704531	
CHST14	0.28607275	0.19243852	2.21410434	
WBSCR22	-0.28612867	0.19243852	-2.21457574	
WDR17	-0.28675659	0.19243852	-2.21987061	
CMKLR1	0.28614022	0.19243852	2.21467315	
WDR63	-0.28611165	0.19243852	-2.21443226	
TMEM77	-0.28746242	0.19243852	-2.22582621	
COL4A3	0.28747258	0.19243852	2.22591198	
DIS3L2	-0.28723729	0.19243852	-2.22392624	
RPL32P3	-0.28627856	0.19243852	-2.21583938	
COX6A2	0.28697182	0.19243852	2.22168624	
WDR21C	0.28730782	0.19243852	2.22452142	
TCP10L	0.28600219	0.19243852	2.21350960	
ZNF358	0.28668963	0.19243852	2.21930585	yes
CSNK1A1	-0.28618368	0.19243852	-2.21503948	yes
PTGR2	-0.28648333	0.19243852	-2.21756599	
PRSS36	0.28711696	0.19243852	2.22291084	
UBE2U	0.28725769	0.19243852	2.22409841	
STOML3	-0.28602330	0.19243852	-2.21368755	
DBC1	0.28754740	0.19243852	2.22654354	
SGMS2	-0.28676855	0.19243852	-2.21997152	yes
LCTL	0.28645322	0.19243852	2.21731210	
EPS8	-0.28648854	0.19243852	-2.21760994	yes
MMD2	0.28628944	0.19243852	2.21593110	
KIAA1009	-0.28732895	0.19243852	-2.22469973	
DMXL2	-0.28669398	0.19243852	-2.21934253	
ABCB9	0.28594558	0.19243852	2.21303248	
HAAO	0.28657370	0.19243852	2.21832808	
LCE5A	0.28639710	0.19243852	2.21683890	
DKKL1	0.28738766	0.19243852	2.22519523	
C14orf68	0.28740624	0.19243852	2.22535206	
LOC283685	0.28626957	0.19243852	2.21576362	

GSDMA	0.28619812	0.19243852	2.21516121	
TMOD3	-0.28668074	0.19243852	-2.21923090	yes
NEK5	-0.28619353	0.19243852	-2.21512251	
TUBB2B	0.28730733	0.19243852	2.22451732	yes
GJC3	0.28691109	0.19243852	2.22117395	
ITIH3	0.28689904	0.19243852	2.22107227	
LOC375295	0.28745296	0.19243852	2.22574639	yes
KCNJ3	0.28708903	0.19243852	2.22267520	
KIF3C	0.28619837	0.19243852	2.21516336	
RHOA	-0.28724539	0.19243852	-2.22399453	
CCDC103	-0.28624660	0.19243852	-2.21556999	
RPL10P13	0.28630970	0.19243852	2.21610199	
ARHGDIG	0.28620473	0.19243852	2.21521692	
FLJ42957	0.28710937	0.19243852	2.22284680	yes
C15orf53	0.28654041	0.19243852	2.21804735	
FLJ45139	0.28679105	0.19243852	2.22016133	
MEST	0.28753288	0.19243852	2.22642095	
MUC3A	0.28639767	0.19243852	2.21684373	
NPPB	0.28688198	0.19243852	2.22092837	yes
NRTN	0.28613803	0.19243852	2.21465466	yes
OPRK1	0.28755608	0.19243852	2.22661679	yes
OR3A1	0.28662281	0.19243852	2.21874227	
VILL	-0.28622019	0.19243852	-2.21534733	
PCBP2	-0.28615750	0.19243852	-2.21481881	
STX18	-0.28609363	0.19243852	-2.21428040	
PMS2L3	-0.28708693	0.19243852	-2.22265746	
SNTG2	0.28690282	0.19243852	2.22110418	
GEMIN8	-0.28616181	0.19243852	-2.21485510	
CCDC157	-0.28721724	0.19243852	-2.22375700	
SLC25A36	-0.28628926	0.19243852	-2.21592960	
FAM176B	0.28610761	0.19243852	2.21439820	
LSG1	-0.28599907	0.19243852	-2.21348326	
PCDHA12	0.28644529	0.19243852	2.21724521	

PRM1	0.28629737	0.19243852	2.21599802	
TMEM9B	-0.28745350	0.19243852	-2.22575095	
ENPP5	-0.28697033	0.19243852	-2.22167370	
REL	-0.28756955	0.19243852	-2.22673054	
ROBO2	0.28682906	0.19243852	2.22048197	
RPL3L	0.28598834	0.19243852	2.21339287	
NCRNA00087	0.28703354	0.19243852	2.22220701	
HRCT1	0.28715955	0.19243852	2.22327018	
LPPR2	0.28698450	0.19243852	2.22179326	
ARV1	-0.28596527	0.19243852	-2.21319838	
SPTB	0.28708438	0.19243852	2.22263591	yes
SRM	0.28654332	0.19243852	2.21807195	
SCARNA17	0.28653222	0.19243852	2.21797834	
SURF6	0.28752941	0.19243852	2.22639166	
TLR1	-0.28741002	0.19243852	-2.22538391	
UBE2E1	-0.28628081	0.19243852	-2.21585839	
HHIPL2	0.28600255	0.19243852	2.21351267	
C15orf44	-0.28596010	0.19243852	-2.21315483	
LRRC48	-0.28627051	0.19243852	-2.21577157	
L3MBTL2	-0.28701523	0.19243852	-2.22205253	
RSPH3	-0.28732157	0.19243852	-2.22463744	
ARL6	-0.28739429	0.19243852	-2.22525115	
C9orf24	-0.28757987	0.19243852	-2.22681760	
NFKBID	0.28612712	0.19243852	2.21456265	
WISP3	0.28673671	0.19243852	2.21970296	
ZNF766	-0.28647452	0.19243852	-2.21749173	
OPN4	0.28711451	0.19243852	2.22289018	
DLEC1	-0.28710218	0.19243852	-2.22278616	
LOC100132731	-0.28588540	0.19252741	-2.21252522	
COLEC10	0.28580700	0.19252741	2.21186446	
CLN5	-0.28576417	0.19252741	-2.21150359	
UBXN10	-0.28582160	0.19252741	-2.21198758	
C10orf49	0.28585524	0.19252741	2.21227101	

RAX	0.28582390	0.19252741	2.21200693	
DHH	0.28588606	0.19252741	2.21253080	yes
SOX6	0.28577483	0.19252741	2.21159339	
SNAI2	0.28577481	0.19252741	2.21159319	
SPRR2C	0.28582740	0.19252741	2.21203645	
EPB41L1	-0.28571633	0.19258935	-2.21110045	
FAM18A	0.28572650	0.19258935	2.21118612	
WDR16	-0.28560878	0.19273509	-2.21019421	
TEX28	0.28554736	0.19273509	2.20967666	
WDR69	-0.28556534	0.19273509	-2.20982820	
DNAH5	-0.28554414	0.19273509	-2.20964951	
C6orf1	0.28553620	0.19273509	2.20958265	
LOC442461	0.28560167	0.19273509	2.21013425	
UBE2A	-0.28558814	0.19273509	-2.21002029	
GRRP1	0.28558074	0.19273509	2.20995793	
ADAM19	0.28562498	0.19273509	2.21033064	
LOC400891	-0.28550838	0.19276480	-2.20934824	
CFLAR	-0.28548171	0.19276480	-2.20912354	
OSBPL2	-0.28548118	0.19276480	-2.20911913	
FAM65C	0.28542825	0.19284816	2.20867321	
NLRP6	0.28540828	0.19284816	2.20850493	
OR2AK2	0.28539639	0.19284816	2.20840481	
TMPRSS2	-0.28542048	0.19284816	-2.20860772	
SLC39A12	0.28536843	0.19289478	2.20816929	
PPPDE2	0.28532251	0.19295001	2.20778246	
KIAA1257	-0.28532553	0.19295001	-2.20780787	
MGC33407	0.28522776	0.19313153	2.20698434	
IQSEC3	0.28523232	0.19313153	2.20702274	
SCO1	-0.28525030	0.19313153	-2.20717419	
ZBTB33	-0.28503320	0.19317886	-2.20534571	
PLEKHA7	-0.28516899	0.19317886	-2.20648932	
MARVELD2	-0.28509381	0.19317886	-2.20585613	yes
C6orf118	-0.28510018	0.19317886	-2.20590977	

THSD7A	0.28508284	0.19317886	2.20576374	
PPIL6	-0.28501163	0.19317886	-2.20516411	
BLOC1S3	0.28517970	0.19317886	2.20657950	yes
C2orf71	0.28507587	0.19317886	2.20570503	
PSMA5	-0.28501492	0.19317886	-2.20519175	
MRPL40	-0.28503894	0.19317886	-2.20539409	
SLC5A4	0.28503093	0.19317886	2.20532659	
ZKSCAN1	-0.28502467	0.19317886	-2.20527389	
HYAL2	0.28503145	0.19317886	2.20533100	
LIG3	-0.28499527	0.19318161	-2.20502631	
LOC100131120	0.28471398	0.19321484	2.20265785	
TPPP2	0.28493115	0.19321484	2.20448640	
SMYD1	0.28488503	0.19321484	2.20409803	
ADAD2	0.28488822	0.19321484	2.20412487	yes
MGC34800	0.28489137	0.19321484	2.20415139	
SLC46A3	-0.28478592	0.19321484	-2.20326349	
DPY19L2P2	-0.28489696	0.19321484	-2.20419851	
LAG3	0.28486205	0.19321484	2.20390451	
PPME1	-0.28483323	0.19321484	-2.20366183	
TMEM75	0.28473807	0.19321484	2.20286064	
SLC8A3	0.28473132	0.19321484	2.20280385	
TMEM53	-0.28495932	0.19321484	-2.20472361	
C1orf115	0.28477036	0.19321484	2.20313250	
CNTD2	0.28470567	0.19321484	2.20258791	
WNT10A	0.28473579	0.19321484	2.20284147	
TTY5	0.28476636	0.19321484	2.20309883	
CAV3	0.28476595	0.19321484	2.20309537	
MED7	-0.28476031	0.19321484	-2.20304788	
USH1C	-0.28438857	0.19322863	-2.19991873	
RAB32	0.28422340	0.19322863	2.19852867	
CDC42EP1	0.28454097	0.19322863	2.20120146	
KLK8	0.28451534	0.19322863	2.20098569	
OR4B1	0.28448051	0.19322863	2.20069254	

CNGA4	-0.28420471	0.19322863	-2.19837145	
ZNF57	-0.28432217	0.19322863	-2.19935984	
SPATA17	-0.28440546	0.19322863	-2.20006083	
NRG4	-0.28450062	0.19322863	-2.20086183	
FGD5	0.28441625	0.19322863	2.20015167	
RIBC1	-0.28453186	0.19322863	-2.20112477	
CCDC96	-0.28463839	0.19322863	-2.20202147	
SLC9A11	-0.28461687	0.19322863	-2.20184035	
C2orf21	0.28435916	0.19322863	2.19967118	
GRK4	0.28421545	0.19322863	2.19846183	
CFH	0.28452204	0.19322863	2.20104208	
CCDC39	-0.28450368	0.19322863	-2.20088757	
IGSF1	0.28415339	0.19322863	2.19793959	
TMEM82	0.28447954	0.19322863	2.20068433	
FAM183A	-0.28427544	0.19322863	-2.19896659	
NDUFA5	-0.28420609	0.19322863	-2.19838304	
ARHGEF3	-0.28418756	0.19322863	-2.19822712	
PCSK2	0.28444336	0.19322863	2.20037982	
KBTBD4	-0.28430877	0.19322863	-2.19924713	
CPXM1	0.28421465	0.19322863	2.19845505	
PRPSAP2	-0.28421535	0.19322863	-2.19846091	
BRUNOL4	0.28417511	0.19322863	2.19812237	
LYRM1	-0.28420524	0.19322863	-2.19837589	
BDKRB2	-0.28414415	0.19322863	-2.19786182	
SCN4A	0.28435951	0.19322863	2.19967413	
SLC3A1	0.28440190	0.19322863	2.20003087	
SOX11	0.28460240	0.19322863	2.20171852	
SECISBP2	-0.28419105	0.19322863	-2.19825644	yes
PNPLA3	0.28436982	0.19322863	2.19976092	
RTCD1	-0.28417076	0.19322863	-2.19808570	yes
USP3	-0.28424519	0.19322863	-2.19871209	
LOC100132992	-0.28407365	0.19332070	-2.19726865	
PRND	0.28409010	0.19332070	2.19740702	

AP3B2	0.28407985	0.19332070	2.19732077	
CHAD	0.28394104	0.19335952	2.19615290	
ERI2	-0.28397672	0.19335952	-2.19645314	
CYP27B1	0.28399814	0.19335952	2.19663334	
DDN	0.28395566	0.19335952	2.19627592	
CCDC85C	0.28399271	0.19335952	2.19658762	
DYNC1LI1	-0.28394023	0.19335952	-2.19614612	
FLJ44054	0.28403597	0.19335952	2.19695164	
ZNF496	0.28397978	0.19335952	2.19647883	
INCA1	0.28389535	0.19341316	2.19576853	
MRPL34	0.28390699	0.19341316	2.19586647	
hCG_2018279	0.28371533	0.19350488	2.19425427	
PROCR	0.28318744	0.19350488	2.18981525	
TSPAN9	0.28286359	0.19350488	2.18709310	
KIF3A	-0.28339205	0.19350488	-2.19153558	
SLC2A13	-0.28295591	0.19350488	-2.18786898	
MRGPRD	0.28281911	0.19350488	2.18671923	
METTL6	-0.28329734	0.19350488	-2.19073922	
IQCF1	0.28350194	0.19350488	2.19245962	
SPAG4L	0.28362240	0.19350488	2.19347269	
C10orf129	0.28331543	0.19350488	2.19089137	
CCDC155	0.28304222	0.19350488	2.18859450	
GPR180	-0.28353396	0.19350488	-2.19272890	
MGC24975	0.28366883	0.19350488	2.19386315	
DHCR24	-0.28294349	0.19350488	-2.18776465	
E2F5	-0.28328819	0.19350488	-2.19066229	
DAND5	0.28380426	0.19350488	2.19500234	
EML1	-0.28383573	0.19350488	-2.19526705	
STX2	-0.28321506	0.19350488	-2.19004750	
LRRC55	0.28365266	0.19350488	2.19372715	
FLT4	0.28350597	0.19350488	2.19249350	yes
FMO1	0.28309525	0.19350488	2.18904022	
LPHN2	0.28343165	0.19350488	2.19186855	

FJX1	0.28290914	0.19350488	2.18747592	
GALNS	-0.28294713	0.19350488	-2.18779522	
CHMP2B	-0.28286531	0.19350488	-2.18710758	yes
GBX2	0.28353997	0.19350488	2.19277947	
OSTF1	-0.28291620	0.19350488	-2.18753523	
GDF2	0.28287065	0.19350488	2.18715242	
GREM1	0.28373456	0.19350488	2.19441602	
GLA	-0.28310050	0.19350488	-2.18908441	
RBMX	0.28309618	0.19350488	2.18904806	
GNAZ	0.28323510	0.19350488	2.19021597	
GNG7	0.28354397	0.19350488	2.19281308	
CCR10	0.28359499	0.19350488	2.19324215	
C15orf60	0.28357068	0.19350488	2.19303769	yes
THEM5	0.28306463	0.19350488	2.18878288	
GTF2E1	-0.28371594	0.19350488	-2.19425943	
HSPA8	-0.28311504	0.19350488	-2.18920662	
IRF2	-0.28284647	0.19350488	-2.18694921	
KCNC1	0.28364406	0.19350488	2.19365482	
PHOX2A	0.28290844	0.19350488	2.18747004	
OR2W5	0.28346977	0.19350488	2.19218908	
MUC4	-0.28317046	0.19350488	-2.18967254	
ASTN1	0.28290812	0.19350488	2.18746733	
NPPA	0.28313870	0.19350488	2.18940552	
NPY6R	0.28337152	0.19350488	2.19136296	
IRX4	0.28345042	0.19350488	2.19202641	
A4GNT	0.28282657	0.19350488	2.18678192	
TFDP3	0.28312323	0.19350488	2.18927545	
PEG3	0.28316399	0.19350488	2.18961810	
PPEF2	0.28370638	0.19350488	2.19417904	
PBRM1	-0.28290048	0.19350488	-2.18740309	yes
PCDHB7	0.28338826	0.19350488	2.19150369	
RGMA	0.28376780	0.19350488	2.19469563	
KIAA1377	-0.28372103	0.19350488	-2.19430221	

SNRPB2	-0.28305717	0.19350488	-2.18872014
SPRR2F	0.28335391	0.19350488	2.19121491
SSTR2	0.28346231	0.19350488	2.19212636
SNORA2A	0.28290395	0.19350488	2.18743231
ZNF200	0.28357248	0.19350488	2.19305283
LIN28	0.28328457	0.19350488	2.19063183
LINGO1	0.28364046	0.19350488	2.19362458
KNDC1	-0.28374928	0.19350488	-2.19453981
NUMB	-0.28297363	0.19350488	-2.18801796
SLC25A14	-0.28319971	0.19350488	-2.18991845
PSTPIP2	0.28292978	0.19350488	2.18764942
ACPL2	0.28317639	0.19350488	2.18972238
NOG	0.28316825	0.19350488	2.18965394
GCC2	-0.28311188	0.19350488	-2.18918004
OR6Q1	0.28275446	0.19356562	2.18617597
FLJ23834	-0.28270409	0.19356562	-2.18575268
IRS1	0.28271490	0.19356562	2.18584355
SEMG2	0.28274754	0.19356562	2.18611780
TCTN2	-0.28269734	0.19356562	-2.18569592
NAE1	-0.28270334	0.19356562	-2.18574639
MTRF1	-0.28278669	0.19356562	-2.18644681
C1orf91	-0.28260671	0.19382050	-2.18493445
GPR37L1	0.28259990	0.19382050	2.18487716
ZNF717	-0.28241783	0.19388982	-2.18334746
MORF4	0.28250653	0.19388982	2.18409273
MAPK14	-0.28250407	0.19388982	-2.18407204
CCDC11	-0.28246925	0.19388982	-2.18377952
GH1	0.28244799	0.19388982	2.18360087
C4orf37	-0.28251797	0.19388982	-2.18418882
ORC4L	-0.28247566	0.19388982	-2.18383338
CACNB1	0.28241863	0.19388982	2.18335420
CAMK2A	0.28241586	0.19388982	2.18333091
KIAA1755	0.28256058	0.19388982	2.18454678

TNKS1BP1	0.28248884	0.19388982	2.18394403	
LOC100131581	-0.28237137	0.19400142	-2.18295722	
WHSC1L1	-0.28232922	0.19408721	-2.18260308	
DPF1	0.28231499	0.19408721	2.18248355	
UNC5A	0.28230363	0.19408721	2.18238814	
AHCYL1	-0.28216336	0.19419792	-2.18120998	
CHRM5	0.28215426	0.19419792	2.18113353	
TRYX3	0.28223159	0.19419792	2.18178303	
TUSC1	0.28215984	0.19419792	2.18118039	
ANXA2P3	0.28215935	0.19419792	2.18117627	
MRPL39	-0.28217321	0.19419792	-2.18129272	yes
THBD	0.28217013	0.19419792	2.18126686	
MATN4	0.28219676	0.19419792	2.18149045	
ALDOB	0.28213511	0.19421364	2.18097268	
IGF2BP2	-0.28210696	0.19426350	-2.18073629	
EFHA1	-0.28208529	0.19428881	-2.18055427	
EID2B	-0.28205027	0.19436478	-2.18026018	
CCDC19	-0.28199125	0.19447499	-2.17976455	
IFT74	-0.28199729	0.19447499	-2.17981523	
PAEP	0.28197013	0.19449830	2.17958713	
DIDO1	-0.28191922	0.19450109	-2.17915968	
WDFY2	-0.28182893	0.19450109	-2.17840151	
ENPP4	-0.28189369	0.19450109	-2.17894529	
NBEA	-0.28183369	0.19450109	-2.17844145	
GPC3	0.28181819	0.19450109	2.17831136	
TMOD2	0.28189375	0.19450109	2.17894578	
HOXD10	0.28185117	0.19450109	2.17858820	
HSD17B2	0.28185483	0.19450109	2.17861898	
LOC440563	0.28193633	0.19450109	2.17930333	
CCL23	0.28180475	0.19450109	2.17819851	
TACR3	0.28183262	0.19450109	2.17843248	
TMEM212	-0.28152093	0.19451587	-2.17581582	
TSPAN1	-0.28166972	0.19451587	-2.17706481	

SAP18	-0.28157850	0.19451587	-2.17629902	
LEFTY1	0.28152471	0.19451587	2.17584750	
C17orf50	0.28161624	0.19451587	2.17661583	
CNOT1	-0.28169314	0.19451587	-2.17726143	yes
COL29A1	0.28156845	0.19451587	2.17621467	
GPR1	0.28161484	0.19451587	2.17660410	
STX19	-0.28151751	0.19451587	-2.17578708	
CEND1	0.28162068	0.19451587	2.17665311	
RXFP3	0.28156369	0.19451587	2.17617474	
PENK	0.28172459	0.19451587	2.17752549	
CYP2W1	0.28158670	0.19451587	2.17636790	
CCDC88A	0.28175130	0.19451587	2.17774971	
PSG6	0.28174922	0.19451587	2.17773223	
BMP5	0.28154491	0.19451587	2.17601707	
TTC25	-0.28175909	0.19451587	-2.17781510	
SFRS9	-0.28152976	0.19451587	-2.17588988	
DGKI	0.28157910	0.19451587	2.17630403	
AP3S2	-0.28136049	0.19451669	-2.17446911	
CUGBP1	-0.28132628	0.19451669	-2.17418201	
LASS1	0.28150113	0.19451669	2.17564960	
NPFFR2	0.28134397	0.19451669	2.17433045	
ZNF676	0.28138439	0.19451669	2.17466975	
C17orf66	0.28133064	0.19451669	2.17421861	
BRP44	-0.28141249	0.19451669	-2.17490553	yes
DTWD2	-0.28146979	0.19451669	-2.17538655	
LOC388906	0.28134590	0.19451669	2.17434669	
MTMR12	-0.28137038	0.19451669	-2.17455212	
PPID	-0.28132050	0.19451669	-2.17413347	
SHROOM4	0.28140417	0.19451669	2.17483571	yes
UGCG	-0.28136728	0.19451669	-2.17452610	
SCRT1	0.28129675	0.19451669	2.17393422	
KCNK17	0.28129452	0.19451669	2.17391544	
OR4K2	0.28124614	0.19464387	2.17350942	

ALPK1	-0.28117941	0.19484069	-2.17294950	yes
ADD3	-0.28112206	0.19488963	-2.17246824	
PCM1	-0.28112911	0.19488963	-2.17252738	
ARMC2	-0.28114763	0.19488963	-2.17268277	
CDH6	0.28109992	0.19491742	2.17228251	
NOXA1	0.28105068	0.19493576	2.17186932	
ATP5S	-0.28106864	0.19493576	-2.17202001	
LDLRAD1	-0.28105124	0.19493576	-2.17187402	
PPM1M	0.28097963	0.19498084	2.17127318	
SLC22A10	0.28101540	0.19498084	2.17157332	
TXNDC2	0.28099210	0.19498084	2.17137781	
TTC30A	-0.28099456	0.19498084	-2.17139845	
PTPRT	-0.28089568	0.19513528	-2.17056893	
MYLPF	0.28089459	0.19513528	2.17055975	
FKSG83	0.28091859	0.19513528	2.17076106	
KIF13B	-0.28085357	0.19522394	-2.17021563	
SLC25A41	0.28083756	0.19522394	2.17008135	
RGS6	0.28082692	0.19522394	2.16999208	
FXC1	-0.28080495	0.19525130	-2.16980776	
MAT1A	-0.28078445	0.19527309	-2.16963580	
HSPB6	0.28072125	0.19529033	2.16910570	
BCDIN3D	-0.28073113	0.19529033	-2.16918852	
HTRA4	0.28069061	0.19529033	2.16884867	
P2RX7	0.28068259	0.19529033	2.16878139	
TMF1	-0.28066194	0.19529033	-2.16860817	
TEKT1	-0.28070724	0.19529033	-2.16898814	
B4GALT5	-0.28072458	0.19529033	-2.16913364	
GABBR2	0.28067517	0.19529033	2.16871920	
C14orf79	-0.28053453	0.19536540	-2.16753960	
C1orf58	-0.28053674	0.19536540	-2.16755817	yes
FAM43B	0.28056348	0.19536540	2.16778239	
PUM2	-0.28059359	0.19536540	-2.16803498	
GALC	-0.28050970	0.19536540	-2.16733139	

GRIK3	0.28055528	0.19536540	2.16771366
MMP26	0.28051392	0.19536540	2.16736677
C8G	0.28053211	0.19536540	2.16751934
NAT11	-0.28058534	0.19536540	-2.16796571
H2BFM	0.28049194	0.19537703	2.16718242
HRASLS5	0.28041907	0.19542438	2.16657139
TMEFF2	0.28039797	0.19542438	2.16639440
HABP2	0.28038485	0.19542438	2.16628439
KLHL10	0.28040769	0.19542438	2.16647596
INHBA	0.28036198	0.19542438	2.16609263
KRT19	-0.28041508	0.19542438	-2.16653791
KIAA1644	0.28041432	0.19542438	2.16653155
WDR67	-0.28036348	0.19542438	-2.16610526
C20orf165	0.28031071	0.19545195	2.16566278
DGKH	-0.28031241	0.19545195	-2.16567697
SCIN	-0.28032535	0.19545195	-2.16578555
RYR1	0.28029145	0.19546943	2.16550124
SH3KBP1	-0.28026863	0.19550041	-2.16530990
DOK6	0.28023951	0.19555532	2.16506574
TC2N	-0.28019899	0.19565094	-2.16472606
TREML4	0.28018470	0.19565094	2.16460625
MPPED1	0.28017037	0.19565094	2.16448614
BPIL3	0.28002875	0.19581449	2.16329891
C2orf73	-0.28003702	0.19581449	-2.16336823
GPR26	0.28001565	0.19581449	2.16318908
CCDC113	-0.27999565	0.19581449	-2.16302139
KRTAP6-2	0.28004265	0.19581449	2.16341539
CDGAP	0.28003265	0.19581449	2.16333160
TEK	0.28000338	0.19581449	2.16308622
DNLZ	0.28001837	0.19581449	2.16321186
NRXN2	0.28003706	0.19581449	2.16336851
C2orf77	-0.27987814	0.19584837	-2.16203651
CORT	0.27980325	0.19584837	2.16140879

yes

ARID3C	0.27984454	0.19584837	2.16175488	
CSTF3	-0.27975853	0.19584837	-2.16103398	
DYRK1A	-0.27994476	0.19584837	-2.16259489	yes
FLJ32065	-0.27989568	0.19584837	-2.16218346	
CALHM1	0.27980054	0.19584837	2.16138610	
GFRA1	0.27988320	0.19584837	2.16207886	
ANXA4	-0.27992010	0.19584837	-2.16238818	yes
CD200R1L	0.27980144	0.19584837	2.16139362	
FLJ16686	-0.27985960	0.19584837	-2.16188110	
ASAH1	-0.27976499	0.19584837	-2.16108816	
COPS7A	-0.27976045	0.19584837	-2.16105010	
FEV	0.27984408	0.19584837	2.16175098	
LGR4	-0.27988739	0.19584837	-2.16211402	
FBRSL1	0.27975333	0.19584837	2.16099042	yes
LOC100130503	0.27971940	0.19592191	2.16070606	
DMKN	-0.27968795	0.19598603	-2.16044256	
OCIAD2	-0.27960759	0.19605178	-2.15976918	
ATRNL1	0.27965169	0.19605178	2.16013864	
GPR110	-0.27955608	0.19605178	-2.15933752	
ERAS	0.27958004	0.19605178	2.15953827	
MME	0.27955430	0.19605178	2.15932265	
MAPK11	0.27958091	0.19605178	2.15954555	yes
KIAA1147	-0.27958301	0.19605178	-2.15956319	
KIAA0391	-0.27958404	0.19605178	-2.15957179	
SIGLEC6	0.27953892	0.19605502	2.15919377	
RSPH9	-0.27950674	0.19605977	-2.15892411	
C18orf8	-0.27951372	0.19605977	-2.15898263	
ST6GALNAC5	0.27949411	0.19605977	2.15881831	
MAL2	-0.27940865	0.19620800	-2.15810226	yes
MYH15	0.27936804	0.19620800	2.15776206	
MYO15A	0.27937402	0.19620800	2.15781222	
RPL12P2	0.27941407	0.19620800	2.15814771	
WNT7A	0.27937415	0.19620800	2.15781328	

KIAA1751	-0.27940910	0.19620800	-2.15810609	
MYL3	0.27928896	0.19628818	2.15709964	
TPH1	-0.27930511	0.19628818	-2.15723488	
BRSK2	0.27930063	0.19628818	2.15719739	
HIST3H2A	-0.27932541	0.19628818	-2.15740494	
SH2D3C	0.27922770	0.19637726	2.15658642	
COL22A1	0.27920223	0.19637726	2.15637311	
ELMOD2	-0.27921826	0.19637726	-2.15650741	
JMJD1B	-0.27917866	0.19637726	-2.15617571	
EBF2	0.27918670	0.19637726	2.15624305	
BTRC	-0.27924437	0.19637726	-2.15672611	
HAPLN4	0.27912032	0.19646804	2.15568703	
C8orf82	0.27911020	0.19646804	2.15560225	yes
MSN	0.27909289	0.19646804	2.15545728	
YIPF1	-0.27908248	0.19646804	-2.15537008	
C5orf42	-0.27911431	0.19646804	-2.15563668	
CETN3	-0.27901312	0.19661566	-2.15478920	
KLHL38	0.27900928	0.19661566	2.15475707	
OR6N2	0.27900029	0.19661566	2.15468178	
ADRB3	0.27893815	0.19679705	2.15416134	
MYL12A	-0.27889997	0.19688735	-2.15384164	
C19orf36	0.27885064	0.19691029	2.15342857	
EPOR	0.27885505	0.19691029	2.15346545	
MAPRE3	-0.27887585	0.19691029	-2.15363962	
FXD8	0.27880817	0.19701702	2.15307293	
ALX1	0.27876771	0.19711613	2.15273415	
FGD1	0.27873067	0.19719584	2.15242403	
LY6G6D	0.27871471	0.19719584	2.15229038	
RPS6KB1	-0.27870352	0.19719584	-2.15219669	
GPR158	0.27868910	0.19719588	2.15207593	
ADRBK2	-0.27866518	0.19723208	-2.15187571	
ENAH	-0.27861295	0.19737617	-2.15143843	
TTC8	-0.27859080	0.19738856	-2.15125302	

C17orf71	-0.27858089	0.19738856	-2.15117003
FAM175B	-0.27855711	0.19740765	-2.15097100
MDN1	-0.27854708	0.19740765	-2.15088703
ABCC5	-0.27841408	0.19765983	-2.14977369
TDRD9	0.27841010	0.19765983	2.14974039
RNF19B	-0.27845234	0.19765983	-2.15009391
IGLON5	0.27840393	0.19765983	2.14968874
LRRC4	-0.27844459	0.19765983	-2.15002905
CAPS	-0.27839461	0.19765983	-2.14961074
IFITM3	0.27834039	0.19781182	2.14915690
SOCS7	0.27831102	0.19785148	2.14891110
C5orf40	0.27830125	0.19785148	2.14882931
SEBOX	0.27826657	0.19792901	2.14853902
ARL13B	-0.27820734	0.19798113	-2.14804333
OR8J1	0.27819547	0.19798113	2.14794399
KARS	-0.27822362	0.19798113	-2.14817963
SERPINA4	0.27820984	0.19798113	2.14806430
LMTK3	0.27809659	0.19812348	2.14711655
CLCN1	0.27813947	0.19812348	2.14747543
NPTN	-0.27806026	0.19812348	-2.14681256
C19orf51	-0.27809754	0.19812348	-2.14712450
COX16	-0.27805776	0.19812348	-2.14679167
GPR101	0.27810777	0.19812348	2.14721010
RTN4IP1	-0.27808498	0.19812348	-2.14701944
C18orf1	-0.27803944	0.19813870	-2.14663839
MUCL1	-0.27802054	0.19814145	-2.14648024
TWIST1	0.27801007	0.19814145	2.14639260
FAM178B	0.27795106	0.19815682	2.14589883
RAB5B	-0.27794877	0.19815682	-2.14587970
TNNT2	0.27796480	0.19815682	2.14601386
THSD7B	0.27797340	0.19815682	2.14608575
FRAG1	-0.27784295	0.19829476	-2.14499434
FLJ39639	0.27789157	0.19829476	2.14540115

NBAS	-0.27782212	0.19829476	-2.14482013	
DNM1P33	0.27781253	0.19829476	2.14473991	
C16orf61	-0.27782409	0.19829476	-2.14483657	
TCHH	0.27784547	0.19829476	2.14501548	
GARNL3	0.27788044	0.19829476	2.14530799	
ZNF286A	-0.27778003	0.19830975	-2.14446801	
OR1E1	0.27778208	0.19830975	2.14448517	
LOC439951	0.27774688	0.19837503	2.14419070	
PTS	-0.27773437	0.19837503	-2.14408606	
SNORD116-25	0.27767300	0.19855494	2.14357271	yes
SOCS6	-0.27765439	0.19857152	-2.14341699	
FAM151A	0.27763751	0.19858148	2.14327580	
UNCX	0.27762242	0.19858460	2.14314963	
HSF2	-0.27758134	0.19863257	-2.14280600	
LRFN2	0.27759451	0.19863257	2.14291615	
SATB1	-0.27755821	0.19866648	-2.14261253	
APOBEC3D	-0.27750015	0.19867049	-2.14212692	
SLC35B3	-0.27753907	0.19867049	-2.14245244	
THOC7	-0.27752781	0.19867049	-2.14235833	
SLAMF9	0.27751099	0.19867049	2.14221759	
HNRNPA3P1	0.27741569	0.19867375	2.14142064	
OR10X1	0.27746613	0.19867375	2.14184246	
SLC36A2	0.27741387	0.19867375	2.14140540	
KRTAP20-2	0.27743151	0.19867375	2.14155291	
IL17RD	0.27743411	0.19867375	2.14157463	
COL21A1	-0.27746686	0.19867375	-2.14184858	
C12orf55	-0.27735276	0.19885293	-2.14089438	
CD36	0.27732488	0.19890515	2.14066122	
GPR156	-0.27726957	0.19891424	-2.14019873	
CNOT10	-0.27725555	0.19891424	-2.14008151	
HTR1B	0.27725143	0.19891424	2.14004701	
TFAP2E	0.27727282	0.19891424	2.14022589	
TRMT12	-0.27729927	0.19891424	-2.14044707	

YBX2	0.27719629	0.19896515	2.13958597	
PAIP2	-0.27719550	0.19896515	-2.13957941	
PRKAR2A	-0.27720631	0.19896515	-2.13966980	yes
FERMT2	0.27696225	0.19915596	2.13762941	
LECT1	0.27701427	0.19915596	2.13806422	
LOC147804	0.27698784	0.19915596	2.13784329	
C22orf37	0.27700336	0.19915596	2.13797299	
ITGA1	0.27705688	0.19915596	2.13842044	
SEPSECS	-0.27709927	0.19915596	-2.13877483	
HEATR3	-0.27712288	0.19915596	-2.13897220	
NYX	0.27711673	0.19915596	2.13892084	
SLC19A1	0.27700825	0.19915596	2.13801394	
TMEM133	-0.27697573	0.19915596	-2.13774205	
SPATA22	0.27696128	0.19915596	2.13762122	
CCDC114	-0.27704172	0.19915596	-2.13829372	
EFTUD2	-0.27701918	0.19915596	-2.13810527	
NPDC1	0.27694603	0.19916010	2.13749382	yes
PRSS23	-0.27685524	0.19916573	-2.13673485	
RLBP1L2	0.27686992	0.19916573	2.13685756	
ZNF578	0.27678795	0.19916573	2.13617242	
C1orf168	-0.27688140	0.19916573	-2.13695355	
HARS2	-0.27675680	0.19916573	-2.13591210	
LOC374491	-0.27679470	0.19916573	-2.13622887	
OR51B6	0.27674669	0.19916573	2.13582757	
MYO1D	-0.27681018	0.19916573	-2.13635821	
PLP1	0.27692556	0.19916573	2.13732270	
CHTF8	-0.27676328	0.19916573	-2.13596629	
TP53BP1	-0.27676732	0.19916573	-2.13600001	
C14orf38	-0.27690436	0.19916573	-2.13714547	
MFRP	0.27676220	0.19916573	2.13595724	
TP53INP1	-0.27675306	0.19916573	-2.13588084	
ACAP2	-0.27672685	0.19918762	-2.13566177	
KCNC3	0.27671269	0.19918781	2.13554345	

TARBP1	-0.27667459	0.19927952	-2.13522504	
SDR16C5	-0.27663241	0.19933298	-2.13487251	
OR2J3	0.27664196	0.19933298	2.13495230	
LCE4A	0.27658966	0.19939920	2.13451527	
ALOX12P2	-0.27658690	0.19939920	-2.13449221	
STIP1	-0.27655422	0.19941641	-2.13421913	
C17orf60	0.27656314	0.19941641	2.13429367	
STX1B	0.27646496	0.19962238	2.13347325	
OR4K14	0.27638777	0.19962238	2.13282833	
S100A1L	-0.27644535	0.19962238	-2.13330941	
GLCE	-0.27641092	0.19962238	-2.13302177	
ZNF575	0.27645045	0.19962238	2.13335203	
TMEM14A	-0.27638797	0.19962238	-2.13282997	
PRPH2	0.27640234	0.19962238	2.13295010	
PAPD5	-0.27640805	0.19962238	-2.13299781	
PIBF1	-0.27625002	0.19969522	-2.13167746	
DUSP10	-0.27623602	0.19969522	-2.13156055	
ADH1B	0.27617765	0.19969522	2.13107291	
CCDC63	0.27626780	0.19969522	2.13182603	
GK2	0.27619336	0.19969522	2.13120415	
NENF	0.27621837	0.19969522	2.13141311	yes
C15orf58	-0.27615812	0.19969522	-2.13090975	
WDR38	-0.27627457	0.19969522	-2.13188262	
POMC	0.27627854	0.19969522	2.13191571	
SLC24A3	0.27616942	0.19969522	2.13100422	
LOC643287	-0.27615930	0.19969522	-2.13091961	
CENPT	0.27625357	0.19969522	2.13170711	
LMAN2L	-0.27623751	0.19969522	-2.13157298	
C1orf170	0.27617993	0.19969522	2.13109197	
ATP6V1E2	-0.27625729	0.19969522	-2.13173821	
PIK3IP1	-0.27611531	0.19978757	-2.13055217	
MXRA5	0.27610594	0.19978757	2.13047392	
C1orf114	-0.27607433	0.19985491	-2.13020987	

ARMC4	-0.27601678	0.19999664	-2.12972923
DNAH3	-0.27600928	0.19999664	-2.12966657
TBC1D28	0.27593238	0.20002307	2.12902432
SUV420H1	-0.27596848	0.20002307	-2.12932584
SPA17	-0.27593594	0.20002307	-2.12905406
CAMK1G	0.27596767	0.20002307	2.12931902
TERT	0.27593331	0.20002307	2.12903209
GFRA4	0.27587523	0.20018833	2.12854705
RPAP3	-0.27583688	0.20028169	-2.12822672
ERMN	0.27577353	0.20047086	2.12769777
MCM3AP	-0.27575422	0.20049130	-2.12753646
LRRC23	-0.27570335	0.20052047	-2.12711170
CRYBA2	0.27567864	0.20052047	2.12690543
IGKV1D-8	0.27571452	0.20052047	2.12720496
MRS2	-0.27563483	0.20052047	-2.12653964
TNF	0.27565110	0.20052047	2.12667546
TNFSF9	0.27567466	0.20052047	2.12687219
RPS6KA5	-0.27564308	0.20052047	-2.12660846
RG9MTD2	-0.27566104	0.20052047	-2.12675844
SLC4A3	0.27561796	0.20053167	2.12639872
FABP1	0.27556884	0.20066650	2.12598862
C11orf16	-0.27553712	0.20068206	-2.12572379
MESDC1	0.27553688	0.20068206	2.12572178
PIAS3	-0.27544730	0.20075825	-2.12497398
JAKMIP1	0.27545281	0.20075825	2.12501996
LCE3C	0.27548515	0.20075825	2.12528993
CHD8	-0.27546927	0.20075825	-2.12515742
CLEC11A	0.27545461	0.20075825	2.12503499
KCNE1	-0.27535381	0.20101007	-2.12419358
VCL	0.27536673	0.20101007	2.12430143
KIF2B	0.27532579	0.20106417	2.12395969
CD300LF	0.27529702	0.20112118	2.12371951
MCCC2	-0.27519920	0.20139003	-2.12290311

yes

SH3BP2	0.27520830	0.20139003	2.12297904	yes
EFEMP2	0.27513813	0.20151782	2.12239337	yes
KRT36	0.27513888	0.20151782	2.12239962	
CCDC58	-0.27504439	0.20157756	-2.12161106	
SLC38A6	-0.27502495	0.20157756	-2.12144885	
DNAJC9	-0.27505510	0.20157756	-2.12170043	
STAG3OS	-0.27508746	0.20157756	-2.12197054	
SAPS3	-0.27501134	0.20157756	-2.12133525	yes
RHBDD2	-0.27508817	0.20157756	-2.12197648	
FLJ22374	-0.27505751	0.20157756	-2.12172061	
MRPL43	-0.27502151	0.20157756	-2.12142017	
ZNF709	-0.27499082	0.20160300	-2.12116409	
FSTL1	0.27488400	0.20192535	2.12027275	
LOC728175	-0.27487928	0.20192535	-2.12023333	
MC2R	0.27483632	0.20203731	2.11987491	
hCG_2039146	0.27475428	0.20229997	2.11919046	
GTF2F2	-0.27472471	0.20236046	-2.11894375	
TET2	-0.27466480	0.20253805	-2.11844393	yes
CLOCK	-0.27461214	0.20268774	-2.11800467	
GAS2L1	0.27457642	0.20275120	2.11770668	
EFHB	-0.27449859	0.20275120	-2.11705746	
MORN5	-0.27450206	0.20275120	-2.11708642	
TES	-0.27450138	0.20275120	-2.11708081	
DLK2	0.27450209	0.20275120	2.11708665	yes
TFCP2	-0.27454449	0.20275120	-2.11744034	
FHOD3	0.27450062	0.20275120	2.11707440	
VPS37D	0.27445613	0.20286165	2.11670332	
KLHDC5	0.27440898	0.20293672	2.11631006	
RBBP5	-0.27440907	0.20293672	-2.11631088	
CCDC66	-0.27435102	0.20295150	-2.11582668	
ZDHHC1	-0.27434712	0.20295150	-2.11579422	
C9orf139	0.27433864	0.20295150	2.11572347	
KLK6	0.27433590	0.20295150	2.11570061	

FAM172A	-0.27434041	0.20295150	-2.11573823	
POMP	-0.27429862	0.20302819	-2.11538969	
PDLIM1	-0.27428837	0.20302819	-2.11530424	
TTBK2	-0.27421254	0.20306766	-2.11467184	
FAM154B	-0.27421928	0.20306766	-2.11472804	
RAB37	-0.27424125	0.20306766	-2.11491126	
RBP3	0.27420901	0.20306766	2.11464243	
TESK1	0.27421600	0.20306766	2.11470076	
GAB4	0.27385317	0.20321270	2.11167562	
LOC100133399	0.27378568	0.20321270	2.11111303	
LOC153684	-0.27376555	0.20321270	-2.11094526	
SDK1	-0.27405061	0.20321270	-2.11332168	
FGF4	0.27389826	0.20321270	2.11205155	
KIAA0999	-0.27379879	0.20321270	-2.11122235	
C17orf88	0.27376704	0.20321270	2.11095764	
EIF4E1B	0.27407724	0.20321270	2.11354368	
GRIK2	-0.27409184	0.20321270	-2.11366546	
IFT81	-0.27384588	0.20321270	-2.11161485	
IGFBP2	-0.27402603	0.20321270	-2.11311673	
TEX9	-0.27387415	0.20321270	-2.11185053	
LOC442245	0.27397080	0.20321270	2.11265626	
ACCN5	0.27398457	0.20321270	2.11277103	
PIGF	-0.27395811	0.20321270	-2.11255048	yes
POLD2	-0.27389408	0.20321270	-2.11201663	
MIOX	0.27395260	0.20321270	2.11250456	
TRERF1	-0.27383423	0.20321270	-2.11151771	
PTK2	-0.27390455	0.20321270	-2.11210398	
RPL7A	0.27407039	0.20321270	2.11348662	
MOP-1	-0.27387010	0.20321270	-2.11181673	
NDST4	0.27377569	0.20321270	2.11102978	
FAM173A	0.27407827	0.20321270	2.11355232	
BRCA1	-0.27398970	0.20321270	-2.11281386	
TLL2	0.27380927	0.20321270	2.11130968	

OR1G1	0.27413505	0.20321270	2.11402570	
ZIC5	0.27385229	0.20321270	2.11166829	
ZNF598	0.27398401	0.20321270	2.11276637	
ANKRD40	0.27402792	0.20321270	2.11313252	
TAAR2	0.27375809	0.20321270	2.11088306	
C1orf167	0.27374353	0.20321588	2.11076172	
STGC3	0.27368478	0.20327621	2.11027201	
C3orf14	-0.27365759	0.20327621	-2.11004538	
ZNF410	-0.27364557	0.20327621	-2.10994517	yes
RASGRF2	0.27370346	0.20327621	2.11042771	
CAPN5	-0.27365235	0.20327621	-2.11000175	
MAPKAPK5	-0.27365188	0.20327621	-2.10999779	
C5orf47	0.27354408	0.20338723	2.10909937	
SLITRK5	0.27357677	0.20338723	2.10937180	
FAM170A	0.27352112	0.20338723	2.10890805	
MMP11	0.27352087	0.20338723	2.10890595	
FLJ10357	0.27356023	0.20338723	2.10923393	
CYP26B1	0.27353778	0.20338723	2.10904684	
ELTD1	0.27359998	0.20338723	2.10956524	
ZMYND8	-0.27348713	0.20346464	-2.10862478	
RFWD3	-0.27346238	0.20350736	-2.10841850	
LRRC50	-0.27335755	0.20354475	-2.10754498	
RNF32	-0.27338354	0.20354475	-2.10776152	
TLL9	-0.27334813	0.20354475	-2.10746644	
FGB	0.27335612	0.20354475	2.10753308	
C16orf5	0.27332347	0.20354475	2.10726101	
GLT6D1	0.27340991	0.20354475	2.10798129	
TUBA1A	-0.27336138	0.20354475	-2.10757690	
TCF7L1	0.27332459	0.20354475	2.10727037	
PPAP2A	0.27331593	0.20354475	2.10719815	
C19orf40	0.27336656	0.20354475	2.10762008	
DBI	-0.27327196	0.20366181	-2.10683181	
CYP4B1	-0.27325553	0.20367250	-2.10669495	

TM9SF1	-0.27301305	0.20374259	-2.10467485
ARFGEF1	-0.27319877	0.20374259	-2.10622207
NUDT5	-0.27292743	0.20374259	-2.10396168
ADSL	-0.27291041	0.20374259	-2.10381993
DSC1	0.27297989	0.20374259	2.10439862
NLRP1	0.27308303	0.20374259	2.10525785
SLC16A8	0.27302415	0.20374259	2.10476733
TCTEX1D2	-0.27298813	0.20374259	-2.10446729
WWTR1	0.27308570	0.20374259	2.10528008
GPR20	0.27308487	0.20374259	2.10527318
FLJ37543	0.27307032	0.20374259	2.10515197
VSTM2B	0.27294366	0.20374259	2.10409688
FLJ43950	0.27321010	0.20374259	2.10631640
OXTR	-0.27291893	0.20374259	-2.10389085
SHANK1	0.27303969	0.20374259	2.10489677
WBP11	-0.27306624	0.20374259	-2.10511794
HIGD1B	0.27297712	0.20374259	2.10437556
SMURF2	-0.27298775	0.20374259	-2.10446409
AGXT2L1	0.27309543	0.20374259	2.10536113
TXNRD1	-0.27297174	0.20374259	-2.10433076
CARS	-0.27295003	0.20374259	-2.10414995
C13orf33	0.27317577	0.20374259	2.10603043
ZMYM3	-0.27307004	0.20374259	-2.10514965
DAZAP2	-0.27318595	0.20374259	-2.10611520
C8orf45	-0.27284417	0.20392246	-2.10326824
UBXN11	-0.27283665	0.20392246	-2.10320561
FLJ33534	0.27278480	0.20396536	2.10277378
CDH29	-0.27278895	0.20396536	-2.10280830
CDCP1	-0.27280335	0.20396536	-2.10292825
KRTAP10-10	0.27275114	0.20404296	2.10249343
PRTN3	0.27271212	0.20414129	2.10216848
KLHL23	0.27266297	0.20417392	2.10175916
TMEM111	-0.27268071	0.20417392	-2.10190694

yes

PSEN1	-0.27267581	0.20417392	-2.10186608	
SYNJ2BP	-0.27262362	0.20427361	-2.10143148	
LRRC43	-0.27254548	0.20452339	-2.10078087	
C10orf79	-0.27250608	0.20457093	-2.10045276	
FZD4	0.27251476	0.20457093	2.10052508	
SLMO2	-0.27239304	0.20495624	-2.09951168	yes
THOC4	-0.27227306	0.20505535	-2.09851285	
PAPOLA	-0.27224028	0.20505535	-2.09823996	yes
KIAA0831	-0.27222926	0.20505535	-2.09814817	
ICOSLG	0.27228487	0.20505535	2.09861112	
BTBD8	-0.27230709	0.20505535	-2.09879609	
PSMD10	-0.27233625	0.20505535	-2.09903883	
TCEB1	-0.27221848	0.20505535	-2.09805846	
LOC728844	-0.27225913	0.20505535	-2.09839689	
WNT6	0.27225758	0.20505535	2.09838396	
ZNF24	-0.27232699	0.20505535	-2.09896180	
YSK4	-0.27222000	0.20505535	-2.09807110	
ZFPM1	0.27218802	0.20506855	2.09780493	
KLF5	-0.27219891	0.20506855	-2.09789560	
LOC100131138	0.27214198	0.20512103	2.09742171	
IGFL3	0.27208654	0.20512103	2.09696026	
MAPT	0.27211887	0.20512103	2.09722931	
NSDHL	-0.27207988	0.20512103	-2.09690479	
NKX6-2	0.27210632	0.20512103	2.09712485	
PRPF18	-0.27209188	0.20512103	-2.09700471	
CDKL2	-0.27210155	0.20512103	-2.09708515	
KIAA1012	-0.27205836	0.20515210	-2.09672568	yes
POU5F2	0.27195676	0.20533675	2.09588014	
CXorf61	0.27194416	0.20533675	2.09577526	
DEFB113	0.27196396	0.20533675	2.09594003	
MAGEB17	0.27198177	0.20533675	2.09608830	
MIS12	-0.27194324	0.20533675	-2.09576765	yes
PYDC2	0.27185388	0.20538317	2.09502398	

LCN6	0.27187864	0.20538317	2.09523001	yes
DNAH9	-0.27190780	0.20538317	-2.09547272	
CCL11	0.27189211	0.20538317	2.09534216	
CXCL5	0.27187703	0.20538317	2.09521660	
ACBD5	-0.27183690	0.20538317	-2.09488272	
SLC22A13	0.27184554	0.20538317	2.09495458	
RLIM	-0.27180958	0.20543688	-2.09465538	
SLC25A13	-0.27177891	0.20546672	-2.09440017	
JAGN1	-0.27177496	0.20546672	-2.09436725	
ADAMTS7	0.27167260	0.20552605	2.09351562	
MTCH2	-0.27165923	0.20552605	-2.09340436	
HSD17B3	-0.27165203	0.20552605	-2.09334447	
HIF1AN	-0.27171164	0.20552605	-2.09384040	
PPP2R2D	-0.27167943	0.20552605	-2.09357242	
TLN1	0.27168351	0.20552605	2.09360641	
C6	-0.27169336	0.20552605	-2.09368832	
C1orf25	-0.27168588	0.20552605	-2.09362611	yes
DUSP5P	0.27161030	0.20563578	2.09299725	
CCDC78	-0.27145087	0.20572476	-2.09167099	
C1orf173	-0.27147028	0.20572476	-2.09183242	
ABRA	0.27149156	0.20572476	2.09200942	
GALNTL5	0.27154218	0.20572476	2.09243053	
MAP3K7IP3	-0.27146483	0.20572476	-2.09178710	yes
LPAR4	0.27141286	0.20572476	2.09135479	yes
SLC9A10	0.27142026	0.20572476	2.09141633	
DKFZp686O24166	-0.27146444	0.20572476	-2.09178384	
C6orf203	-0.27146905	0.20572476	-2.09182217	
HOOK1	-0.27148474	0.20572476	-2.09195275	
BCAN	0.27151449	0.20572476	2.09220025	
STRADA	-0.27142025	0.20572476	-2.09141627	
SLC23A1	-0.27143744	0.20572476	-2.09155923	
C20orf141	0.27138523	0.20576293	2.09112493	
MARK2	-0.27136282	0.20576293	-2.09093852	

ID4	0.27137193	0.20576293	2.09101430
SPEF1	-0.27132736	0.20580460	-2.09064363
MLN	0.27132528	0.20580460	2.09062633
ANKRD20A5	0.27130049	0.20584884	2.09042009
CALM2	-0.27124120	0.20602695	-2.08992699
LOC152118	0.27119795	0.20605918	2.08956728
KRTAP6-3	0.27117936	0.20605918	2.08941270
TMPRSS9	0.27118356	0.20605918	2.08944762
UBE2Z	-0.27121399	0.20605918	-2.08970071
LOC440015	0.27115476	0.20610276	2.08920807
PLEKHB2	-0.27112851	0.20615273	-2.08898981
ALS2CR12	-0.27110601	0.20618818	-2.08880268
ANKS1A	-0.27107558	0.20625441	-2.08854968
LOC642648	0.27105020	0.20630107	2.08833861
NBR1	-0.27101506	0.20638567	-2.08804640
LHFPL3	0.27097464	0.20643891	2.08771025
SFXN3	-0.27097774	0.20643891	-2.08773607
CYP46A1	0.27093750	0.20650143	2.08740148
GNAQ	-0.27093183	0.20650143	-2.08735435
FLJ36070	0.27091757	0.20650497	2.08723573
DCTN5	-0.27090342	0.20650807	-2.08711808
ACP1	-0.27087431	0.20651743	-2.08687611
LOC729135	0.27087521	0.20651743	2.08688356
C20orf123	0.27078186	0.20656291	2.08610746
AQP11	0.27077046	0.20656291	2.08601269
C9orf171	-0.27081126	0.20656291	-2.08635186
DEFB132	0.27077971	0.20656291	2.08608959
CMAS	-0.27082772	0.20656291	-2.08648876
FAM3A	0.27079375	0.20656291	2.08620632
ANKRD55	0.27076926	0.20656291	2.08600272
ZNF628	0.27074224	0.20661613	2.08577809
AP1M2	-0.27054533	0.20704169	-2.08414127
NUPL2	-0.27047862	0.20704169	-2.08358675

TRIM9	0.27043040	0.20704169	2.08318599
SLC25A26	-0.27043423	0.20704169	-2.08321786
IGSF10	-0.27049429	0.20704169	-2.08371704
DOK7	0.27052623	0.20704169	2.08398248
MYO1C	0.27058668	0.20704169	2.08448495
RP11-265F14.2	0.27042091	0.20704169	2.08310717
GFOD1	0.27047904	0.20704169	2.08359023
RPL17	-0.27060197	0.20704169	-2.08461203
RPL36AL	-0.27051888	0.20704169	-2.08392139
WNK1	-0.27045859	0.20704169	-2.08342029
hCG_1781062	-0.27056004	0.20704169	-2.08426352
CA2	0.27040962	0.20704169	2.08301327
FZD9	0.27040664	0.20704169	2.08298858
ZNF414	0.27059669	0.20704169	2.08456820
GAL3ST1	0.27048164	0.20704169	2.08361192
ODF3	0.27037103	0.20708165	2.08269264
TMEM164	-0.27036981	0.20708165	-2.08268247
HSF5	0.27018151	0.20771157	2.08111771
ABCA5	-0.27018534	0.20771157	-2.08114953
LOC285550	-0.27011697	0.20771157	-2.08058148
KRTAP6-1	0.27013205	0.20771157	2.08070670
KCNC4	0.27003563	0.20771157	2.07990565
OR4K17	0.27006123	0.20771157	2.08011833
NCRNA00114	0.27011372	0.20771157	2.08055442
COL5A3	0.27006390	0.20771157	2.08014048
NUDT9	-0.27007234	0.20771157	-2.08021064
STEAP3	-0.27003722	0.20771157	-2.07991886
CCDC48	0.27015731	0.20771157	2.08091661
TSEN2	-0.27014104	0.20771157	-2.08078147
HIST1H4G	0.27005383	0.20771157	2.08005686
SEC14L1	-0.27001443	0.20774257	-2.07972950
BAIAP3	-0.26999969	0.20774840	-2.07960704
PSMD13	-0.26998526	0.20775304	-2.07948713

VCAN	0.26994133	0.20780431	2.07912223	
ALDH1L2	0.26994011	0.20780431	2.07911211	
SLC13A5	0.26990729	0.20780431	2.07883944	
LOC389895	0.26990119	0.20780431	2.07878876	
FLJ46365	0.26991404	0.20780431	2.07889552	
ZNF44	-0.26989270	0.20780431	-2.07871823	
KCNK3	0.26986243	0.20781921	2.07846679	
IER5	0.26986904	0.20781921	2.07852169	
CC2D2A	-0.26981340	0.20795884	-2.07805947	
IVNS1ABP	-0.26968248	0.20798127	-2.07697204	yes
TPCN2	0.26975137	0.20798127	2.07754422	
DNAH1	-0.26969843	0.20798127	-2.07710452	
GRB2	-0.26977486	0.20798127	-2.07773936	
RBM43	-0.26978346	0.20798127	-2.07781081	
FLJ35024	0.26967558	0.20798127	2.07691479	
LOC440934	0.26972250	0.20798127	2.07730449	
LOC55908	0.26974144	0.20798127	2.07746180	
RP11-345P4.4	-0.26970744	0.20798127	-2.07717938	
ACTL8	0.26973541	0.20798127	2.07741167	
PARP4	-0.26962148	0.20814080	-2.07646544	
POSTN	0.26948050	0.20821411	2.07529468	
IRAK1BP1	-0.26938447	0.20821411	-2.07449726	
KCNMB4	0.26936565	0.20821411	2.07434098	
SLC25A24	-0.26950914	0.20821411	-2.07553250	
LOC346329	0.26940999	0.20821411	2.07470916	
KRTAP10-7	0.26939200	0.20821411	2.07455978	
C9orf144	0.26939832	0.20821411	2.07461220	
OR6X1	0.26944981	0.20821411	2.07503975	
MEF2D	0.26948959	0.20821411	2.07537016	
NEDD9	0.26936594	0.20821411	2.07434337	
PAX2	0.26948763	0.20821411	2.07535389	
RNF138	-0.26940402	0.20821411	-2.07465957	
NECAP2	-0.26954385	0.20821411	-2.07582076	

SLC22A11	0.26943384	0.20821411	2.07490716	
EP400	-0.26957519	0.20821411	-2.07608099	
CT47.13	0.26948703	0.20821411	2.07534887	
ATCAY	0.26940233	0.20821411	2.07464552	
ZNF804A	0.26958147	0.20821411	2.07613316	
LOC651503	0.26933507	0.20828208	2.07408709	
LOC100129427	0.26927255	0.20831012	2.07356798	
RASGRP2	0.26929891	0.20831012	2.07378684	yes
DPYSL4	0.26923595	0.20831012	2.07326408	
HSPH1	-0.26925879	0.20831012	-2.07345373	
ZMYND10	-0.26927219	0.20831012	-2.07356501	
MTMR2	-0.26928473	0.20831012	-2.07366907	
EMILIN3	0.26924659	0.20831012	2.07335243	yes
GNAT1	0.26919050	0.20843088	2.07288675	
UCHL5IP	0.26917873	0.20843088	2.07278907	
GTF3C2	-0.26914597	0.20850750	-2.07251710	
ATP2C2	-0.26912217	0.20854921	-2.07231946	
NT5M	0.26906593	0.20857868	2.07185266	
TM4SF5	0.26906217	0.20857868	2.07182138	
CD5L	0.26907958	0.20857868	2.07196593	
THRAP3	-0.26909114	0.20857868	-2.07206187	yes
THAP8	0.26904273	0.20860337	2.07166005	
LZTS1	0.26901251	0.20867016	2.07140921	
KCNV2	0.26897348	0.20870907	2.07108523	
SOSTDC1	0.26895016	0.20870907	2.07089161	
MAP7D1	0.26895754	0.20870907	2.07095290	
SLC30A4	0.26895854	0.20870907	2.07096116	
OR8K3	0.26882452	0.20899519	2.06984885	
ID3	0.26882578	0.20899519	2.06985934	
MYH4	0.26885936	0.20899519	2.07013797	
CCDC90A	-0.26883566	0.20899519	-2.06994130	
PRPS1	-0.26879585	0.20901060	-2.06961089	
C4orf29	-0.26879441	0.20901060	-2.06959897	

KIR2DS4	0.26872552	0.20916963	2.06902724	
FAM166A	0.26871448	0.20916963	2.06893561	
POU3F4	0.26873485	0.20916963	2.06910470	
LHB	0.26865341	0.20925283	2.06842887	
BBS7	-0.26865089	0.20925283	-2.06840790	
CA6	0.26864091	0.20925283	2.06832515	
C14orf43	0.26867380	0.20925283	2.06859801	
LRRC37B	-0.26861893	0.20928771	-2.06814272	
SNORA51	0.26857949	0.20939083	2.06781549	
ADAT2	0.26853257	0.20947718	2.06742616	
ARL6IP1	-0.26853130	0.20947718	-2.06741559	
UFSP1	0.26846414	0.20968886	2.06685840	
PRM2	0.26843521	0.20969995	2.06661832	
ZNF398	-0.26844165	0.20969995	-2.06667175	yes
CST8	0.26834931	0.20982194	2.06590570	
DLL3	0.26833867	0.20982194	2.06581746	
CRHBP	0.26814353	0.20982194	2.06419870	yes
C20orf135	0.26835543	0.20982194	2.06595645	
AGR3	-0.26817814	0.20982194	-2.06448581	
ADSS	-0.26822785	0.20982194	-2.06489816	
SULF1	0.26827269	0.20982194	2.06527009	
GAS8	-0.26816701	0.20982194	-2.06439345	
PLA2G4D	0.26819886	0.20982194	2.06465769	
DUPD1	0.26820277	0.20982194	2.06469012	
KCNJ4	0.26814591	0.20982194	2.06421848	
GRAMD1C	-0.26826990	0.20982194	-2.06524692	
HYDIN	-0.26815020	0.20982194	-2.06425401	
RPS6KA3	-0.26827501	0.20982194	-2.06528933	
KIF9	-0.26817680	0.20982194	-2.06447467	
DLEU2L	-0.26815079	0.20982194	-2.06425895	
B9D2	-0.26831885	0.20982194	-2.06565303	
PGBD1	0.26830538	0.20982194	2.06554129	
SLC7A6	-0.26830440	0.20982194	-2.06553312	

TOX	0.26833765	0.20982194	2.06580894	
SNORD116-6	0.26799357	0.21001066	2.06295495	
TREX2	0.26798392	0.21001066	2.06287489	
HMCN2	0.26804533	0.21001066	2.06338424	
KRT1	0.26801308	0.21001066	2.06311676	
KRT39	0.26800107	0.21001066	2.06301712	
GAL	0.26804437	0.21001066	2.06337623	
KIAA1468	-0.26803362	0.21001066	-2.06328708	yes
TBXA2R	0.26798429	0.21001066	2.06287795	
ASCC2	-0.26796794	0.21001066	-2.06274243	
NBPF3	-0.26796542	0.21001066	-2.06272152	
C11orf92	-0.26793508	0.21005045	-2.06246992	
FLJ90680	0.26792931	0.21005045	2.06242203	
LOC645332	-0.26790260	0.21010424	-2.06220052	
KCNK7	0.26784352	0.21013250	2.06171061	
LRRN2	0.26786513	0.21013250	2.06188978	
C18orf23	0.26784935	0.21013250	2.06175893	
DKK2	0.26785851	0.21013250	2.06183491	
C1orf216	0.26782282	0.21016282	2.06153894	
C10orf25	0.26777842	0.21028593	2.06117079	
C10orf118	-0.26774851	0.21035234	-2.06092281	
NEDD1	-0.26771510	0.21036624	-2.06064574	
FBXO16	-0.26768022	0.21036624	-2.06035660	
DZIP1L	-0.26769541	0.21036624	-2.06048253	
FOXA1	-0.26768764	0.21036624	-2.06041812	
SORL1	-0.26772667	0.21036624	-2.06074169	
CEP290	-0.26766548	0.21037332	-2.06023431	
INHA	0.26758604	0.21063389	2.05957576	
OR2B11	0.26756824	0.21064066	2.05942815	yes
C1orf88	-0.26755844	0.21064066	-2.05934694	
WDR42B	0.26753450	0.21065180	2.05914844	
LOC139431	0.26752974	0.21065180	2.05910896	
RBM14	-0.26742832	0.21077623	-2.05826826	

C7orf27	0.26740984	0.21077623	2.05811506	
SV2C	0.26735592	0.21077623	2.05766810	
METAP1	-0.26738496	0.21077623	-2.05790887	
GPR32	0.26743969	0.21077623	2.05836250	
VWA5A	-0.26735609	0.21077623	-2.05766952	
MAP3K11	0.26737434	0.21077623	2.05782081	yes
ABHD5	-0.26738873	0.21077623	-2.05794010	
SNORA5B	0.26736767	0.21077623	2.05776549	
C4orf49	0.26738289	0.21077623	2.05789164	
DZIP3	-0.26741503	0.21077623	-2.05815806	
C13orf26	-0.26729257	0.21078348	-2.05714302	
AGRP	0.26727670	0.21078348	2.05701148	
C9orf117	-0.26732432	0.21078348	-2.05740616	
PRKX	-0.26727765	0.21078348	-2.05701934	
RAB7L1	0.26728660	0.21078348	2.05709353	
CDH1	-0.26729607	0.21078348	-2.05717204	
LOC100131373	0.26722440	0.21088748	2.05657800	
C1orf92	-0.26722817	0.21088748	-2.05660931	
PDILT	0.26714926	0.21103059	2.05595529	
C11orf87	0.26715272	0.21103059	2.05598401	
PCDH9	0.26716631	0.21103059	2.05609661	
SRXN1	-0.26711402	0.21111832	-2.05566324	
CECR6	0.26709209	0.21115385	2.05548151	
WIPI2	-0.26707665	0.21116391	-2.05535359	
C20orf132	-0.26700791	0.21130334	-2.05478391	
LOC151174	0.26699526	0.21130334	2.05467915	
LCE2B	0.26697605	0.21130334	2.05451996	
KRTAP21-2	0.26698044	0.21130334	2.05455632	
LYNX1	0.26696393	0.21130334	2.05441956	
FZD3	-0.26701954	0.21130334	-2.05488035	
KLHDC9	-0.26687921	0.21134072	-2.05371759	
SMEK3P	0.26688286	0.21134072	2.05374779	
C3orf33	0.26688210	0.21134072	2.05374149	

FLJ45983	0.26693821	0.21134072	2.05420642	
C9orf40	0.26687730	0.21134072	2.05370176	
TSKS	0.26690986	0.21134072	2.05397147	
SAMD14	0.26684551	0.21136472	2.05343831	
C10orf111	-0.26685822	0.21136472	-2.05354366	
LAMA1	0.26680421	0.21137803	2.05309617	
GTF2I	-0.26677930	0.21137803	-2.05288978	
C15orf59	0.26682328	0.21137803	2.05325414	
LGR6	0.26677795	0.21137803	2.05287864	
HYI	0.26679132	0.21137803	2.05298935	
MTPN	-0.26673760	0.21143789	-2.05254436	
LCE3E	0.26671699	0.21143789	2.05237361	
IL8	-0.26671141	0.21143789	-2.05232738	
ANTXR1	0.26673471	0.21143789	2.05252040	
OMA1	-0.26668056	0.21150870	-2.05207176	yes
CTTN	-0.26662189	0.21162490	-2.05158578	
HEY1	-0.26660838	0.21162490	-2.05147389	
RP11-191L9.1	0.26663692	0.21162490	2.05171026	
SLC6A12	0.26658691	0.21162490	2.05129600	
AFAP1L2	0.26659648	0.21162490	2.05137532	
SCGB1D1	0.26654426	0.21169181	2.05094276	
CTRB2	0.26654795	0.21169181	2.05097328	
COX19	-0.26648460	0.21187590	-2.05044856	
LOC388882	0.26645081	0.21195837	2.05016873	
OR5D14	0.26634425	0.21229360	2.04928617	
ADIPOR1	-0.26632718	0.21229360	-2.04914484	yes
SCARB1	0.26633985	0.21229360	2.04924972	
PRDM5	0.26626319	0.21233443	2.04861491	
CRABP1	0.26612535	0.21233443	2.04747352	
ADPRH	0.26627997	0.21233443	2.04875385	
KRT25	0.26629349	0.21233443	2.04886582	
ZNF480	-0.26612517	0.21233443	-2.04747205	
DCC	0.26619767	0.21233443	2.04807236	

C6orf170	-0.26620853	0.21233443	-2.04816232	
OR10G2	0.26614643	0.21233443	2.04764807	
C19orf24	0.26614613	0.21233443	2.04764563	
HEPN1	0.26622671	0.21233443	2.04831281	
BPGM	-0.26622970	0.21233443	-2.04833758	
SLC15A5	0.26621900	0.21233443	2.04824901	
PAX8	0.26621324	0.21233443	2.04820126	
CMIP	-0.26617919	0.21233443	-2.04791930	
KIRREL3	0.26612859	0.21233443	2.04750037	
RAB14	-0.26611194	0.21233632	-2.04736246	
RNF151	0.26608833	0.21235117	2.04716699	
GRM3	0.26608266	0.21235117	2.04712003	
NEFM	0.26599878	0.21249646	2.04642556	
PCDH12	0.26602339	0.21249646	2.04662933	
C3orf10	-0.26599836	0.21249646	-2.04642212	
RAE1	-0.26599474	0.21249646	-2.04639210	
SLC6A16	-0.26595699	0.21259426	-2.04607961	
RIC8A	-0.26594440	0.21259426	-2.04597539	
WDR40C	0.26588053	0.21279559	2.04544658	
ACOT12	0.26586108	0.21282202	2.04528561	
PMS2L1	-0.26580675	0.21298588	-2.04483590	
CNGA3	-0.26576120	0.21306506	-2.04445880	
LRP1	0.26576355	0.21306506	2.04447830	
TMEM132A	0.26569509	0.21327556	2.04391158	
ATF7IP2	-0.26563165	0.21347566	-2.04338651	
PAK1	-0.26560572	0.21347754	-2.04317190	
TSSC1	-0.26561353	0.21347754	-2.04323659	
RIMS4	0.26555040	0.21349617	2.04271408	
C15orf55	0.26557359	0.21349617	2.04290597	
ZNF394	-0.26553595	0.21349617	-2.04259450	
SPHK1	0.26552469	0.21349617	2.04250132	yes
FBXO44	0.26552547	0.21349617	2.04250778	yes
GNG8	0.26552809	0.21349617	2.04252942	

TTC35	-0.26550142	0.21353784	-2.04230876	
VAX1	0.26545148	0.21368484	2.04189549	
B4GALNT4	0.26543497	0.21369986	2.04175886	
SLC2A1	-0.26541083	0.21374503	-2.04155908	
UROC1	0.26536917	0.21385942	2.04121438	
CBLN2	0.26530179	0.21407558	2.04065678	
ZNF821	0.26526641	0.21416527	2.04036406	
SNORD114-2	0.26525217	0.21417137	2.04024621	
TIMM17A	-0.26518554	0.21432092	-2.03969499	
PTP4A3	0.26517628	0.21432092	2.03961836	
CYP2C18	-0.26518980	0.21432092	-2.03973024	
PRM3	0.26515892	0.21433941	2.03947471	
NRGN	0.26514533	0.21434298	2.03936227	yes
CC2D2B	0.26511276	0.21442167	2.03909282	
C9orf131	0.26509876	0.21442416	2.03897704	
ZNF610	-0.26508529	0.21442416	-2.03886557	
ZDHHC4	-0.26506699	0.21442416	-2.03871419	
AXUD1	0.26506140	0.21442416	2.03866798	
EVI1	-0.26497635	0.21445843	-2.03796446	yes
PNMA3	0.26496406	0.21445843	2.03786277	
ANXA2P2	-0.26500895	0.21445843	-2.03823408	yes
KRT8	-0.26497874	0.21445843	-2.03798419	
LRRC26	0.26502335	0.21445843	2.03835321	
ASPDH	0.26499017	0.21445843	2.03807878	
PERP	-0.26500024	0.21445843	-2.03816203	
C4orf23	-0.26486747	0.21451013	-2.03706381	
MEIS3P1	-0.26493265	0.21451013	-2.03760296	
QRICH1	-0.26486243	0.21451013	-2.03702215	
TNRC6C	0.26492184	0.21451013	2.03751352	
SAP30L	-0.26490238	0.21451013	-2.03735260	
ABHD11	-0.26489596	0.21451013	-2.03729946	
HSPB3	0.26487973	0.21451013	2.03716525	
PLEKHF2	-0.26480391	0.21469172	-2.03653810	

C11orf45	0.26477338	0.21475716	2.03628561	
LOC100133410	0.26476210	0.21475716	2.03619233	
ZFR2	0.26473402	0.21481829	2.03596014	
RTP1	0.26467537	0.21485732	2.03547507	
C7orf66	0.26469616	0.21485732	2.03564701	
OR52E8	0.26469485	0.21485732	2.03563614	
BTN1A1	0.26467364	0.21485732	2.03546076	
FLNC	0.26459729	0.21486013	2.03482936	
KLHDC2	-0.26460996	0.21486013	-2.03493413	
C6orf167	-0.26459720	0.21486013	-2.03482867	
FOXB1	0.26460068	0.21486013	2.03485741	
FADS6	0.26461666	0.21486013	2.03498958	
C1orf189	-0.26460137	0.21486013	-2.03486308	
ASZ1	0.26456840	0.21492426	2.03459045	
TUSC3	-0.26453920	0.21498995	-2.03434902	
RNF13	0.26450552	0.21507343	2.03407054	
NAP1L3	0.26449227	0.21507595	2.03396103	
PDE6A	0.26447372	0.21509954	2.03380757	
C10orf82	0.26445734	0.21511448	2.03367217	
UNQ5840	0.26436860	0.21517175	2.03293844	
HIPK3	-0.26430814	0.21517175	-2.03243860	yes
GPA33	0.26434525	0.21517175	2.03274544	
GSG1L	0.26431995	0.21517175	2.03253622	
ZNF285B	0.26442635	0.21517175	2.03341597	
SNAPIN	-0.26430965	0.21517175	-2.03245110	
GPR31	0.26430440	0.21517175	2.03240775	
TRPM8	0.26438226	0.21517175	2.03305143	
HIATL1	-0.26433431	0.21517175	-2.03265501	
LRRC46	-0.26437426	0.21517175	-2.03298526	
STARD8	0.26435439	0.21517175	2.03282097	
IL2RA	0.26427408	0.21524206	2.03215707	yes
IFNA8	0.26425341	0.21527415	2.03198618	
C19orf26	0.26423410	0.21530085	2.03182655	

C11orf74	-0.26418489	0.21542139	-2.03141976	
ACTR6	-0.26417855	0.21542139	-2.03136735	
JMJD2C	-0.26414712	0.21549617	-2.03110757	
CACNA1F	0.26413141	0.21550865	2.03097768	
FMO5	-0.26406680	0.21566526	-2.03044364	
SLC24A2	0.26407030	0.21566526	2.03047255	
DUS4L	-0.26398728	0.21573172	-2.02978637	
C1orf87	-0.26403715	0.21573172	-2.03019858	
ZNF385C	0.26398885	0.21573172	2.02979936	
XPNPEP3	-0.26400283	0.21573172	-2.02991490	
ARHGAP28	0.26401692	0.21573172	2.03003135	
LOC100133413	-0.26394406	0.21585344	-2.02942914	
MOCS3	-0.26391159	0.21593250	-2.02916084	yes
ACR	0.26389174	0.21596150	2.02899680	
OR4C6	0.26384158	0.21601128	2.02858228	
ATP1A1	-0.26384245	0.21601128	-2.02858944	
PSMB1	-0.26385812	0.21601128	-2.02871893	
RPP40	-0.26382467	0.21602866	-2.02844250	yes
ADAM12	0.26378517	0.21613573	2.02811613	
USP44	0.26374579	0.21624241	2.02779066	
GK5	-0.26371779	0.21625406	-2.02755936	
MAML1	0.26372595	0.21625406	2.02762676	
PATE1	0.26368606	0.21633038	2.02729714	
WDR78	-0.26362250	0.21653329	-2.02677195	
AP3M2	-0.26359779	0.21656643	-2.02656778	
PLCH2	0.26358912	0.21656643	2.02649616	
KRT82	0.26354628	0.21658743	2.02614224	
MGC39545	0.26355120	0.21658743	2.02618287	
GPBP1	-0.26354804	0.21658743	-2.02615675	
HMGB2	-0.26349351	0.21659828	-2.02570625	
BCAT1	0.26352040	0.21659828	2.02592845	
SERAC1	-0.26350331	0.21659828	-2.02578724	
ONECUT2	0.26350391	0.21659828	2.02579220	

TACR1	0.26343124	0.21674650	2.02519181	
KLF11	0.26344051	0.21674650	2.02526844	
FAM154A	-0.26335387	0.21695489	-2.02455273	
LOC401097	0.26335808	0.21695489	2.02458749	yes
PARK7	-0.26330526	0.21709870	-2.02415120	
TMEM221	0.26328684	0.21710007	2.02399903	
HCCS	-0.26327993	0.21710007	-2.02394190	yes
PKD1L2	0.26325523	0.21714538	2.02373790	
FAM78B	0.26324356	0.21714538	2.02364156	
F2R	0.26319221	0.21721770	2.02321740	
SHC2	0.26319080	0.21721770	2.02320578	
PRKCG	0.26318794	0.21721770	2.02318218	
KRTAP10-2	0.26317340	0.21722591	2.02306205	
PDPK1	-0.26310675	0.21744181	-2.02251158	
CCL2	0.26305762	0.21758794	2.02210588	
SNORD115-32	0.26300398	0.21763022	2.02166283	
MAGEB6B	0.26301718	0.21763022	2.02177191	
BLID	0.26299165	0.21763022	2.02156106	
PTPN1	-0.26298465	0.21763022	-2.02150321	
MORN1	-0.26298498	0.21763022	-2.02150598	
IL1RAPL1	0.26282766	0.21790853	2.02020689	
C20orf85	-0.26283242	0.21790853	-2.02024626	
C14orf174	-0.26283250	0.21790853	-2.02024692	
CAPRIN1	-0.26286690	0.21790853	-2.02053092	
ATP8A2	0.26285400	0.21790853	2.02042438	
DPEP3	0.26282984	0.21790853	2.02022489	
COLEC11	0.26288793	0.21790853	2.02070456	
GPR160	-0.26279479	0.21799002	-2.01993550	
TMEM19	-0.26277969	0.21800056	-2.01981088	
TDRD5	0.26276583	0.21800620	2.01969642	
LIPH	-0.26272714	0.21811097	-2.01937702	
PEX3	-0.26267919	0.21825282	-2.01898112	
LCN1	0.26265271	0.21830889	2.01876252	

ESRRG	-0.26260084	0.21833282	-2.01833430
C15orf2	0.26260038	0.21833282	2.01833047
GRM4	0.26262364	0.21833282	2.01852249
GADL1	0.26259695	0.21833282	2.01830222
CLN8	-0.26256557	0.21835886	-2.01804311
LRRC49	-0.26256830	0.21835886	-2.01806568
OSBPL11	-0.26254041	0.21840970	-2.01783548
SPACA3	0.26247151	0.21849209	2.01726669
LOC253724	-0.26248312	0.21849209	-2.01736250
LOC389137	-0.26249330	0.21849209	-2.01744657
CCDC81	-0.26247009	0.21849209	-2.01725499
NARG1	-0.26245734	0.21849339	-2.01714976
C7orf61	0.26242614	0.21856849	2.01689219
C18orf51	0.26239421	0.21864652	2.01662866
RBMXL2	0.26236668	0.21868694	2.01640148
GLYATL1	0.26235927	0.21868694	2.01634027
RPS6KA6	-0.26227151	0.21888908	-2.01561601
LOC643332	0.26227732	0.21888908	2.01566396
KIAA0319L	-0.26228494	0.21888908	-2.01572681
CCNI2	-0.26224522	0.21894466	-2.01539900
HEXA	-0.26220310	0.21895410	-2.01505138
TPTE	0.26221384	0.21895410	2.01514003
ADCK4	-0.26222704	0.21895410	-2.01524897
NCOA3	-0.26219325	0.21895410	-2.01497010
SAMD11	0.26215964	0.21899420	2.01469279
MEP1A	0.26215844	0.21899420	2.01468284
UNC13D	0.26210708	0.21911632	2.01425909
PNPLA1	0.26210315	0.21911632	2.01422659
CTSB	-0.26207671	0.21917259	-2.01400842
RAI2	0.26201549	0.21917882	2.01350331
PRAP1	0.26204125	0.21917882	2.01371582
CATSPER3	-0.26204776	0.21917882	-2.01376955
OR6C75	0.26200085	0.21917882	2.01338252

POLR2D	-0.26200364	0.21917882	-2.01340549	
TSPAN10	0.26202836	0.21917882	2.01360947	
OXER1	0.26194064	0.21923624	2.01288570	
GDAP1	-0.26193404	0.21923624	-2.01283123	
SOD1	-0.26195702	0.21923624	-2.01302088	yes
TNFAIP8L2	0.26193066	0.21923624	2.01280342	
ROPN1L	-0.26192466	0.21923624	-2.01275389	
ABL2	-0.26186750	0.21936615	-2.01228226	
SORT1	-0.26187670	0.21936615	-2.01235820	
OR2A14	0.26183111	0.21941377	2.01198206	
CNTN6	0.26181384	0.21941377	2.01183956	
VENTX	0.26180276	0.21941377	2.01174817	
AMIGO3	0.26178851	0.21941377	2.01163063	
VASH2	0.26178147	0.21941377	2.01157259	
LPCAT1	0.26178168	0.21941377	2.01157431	
GLRA1	0.26175534	0.21946900	2.01135700	
CRY1	-0.26172822	0.21952818	-2.01113330	
LOC100132622	0.26166658	0.21957736	2.01062485	
CLGN	-0.26167449	0.21957736	-2.01069011	
FGF14	-0.26169448	0.21957736	-2.01085497	
RRAD	-0.26167275	0.21957736	-2.01067568	
ATP10A	0.26164301	0.21962240	2.01043037	
PRRG3	0.26157788	0.21983403	2.00989321	
MSLNL	0.26155524	0.21987535	2.00970649	
COL25A1	0.26152238	0.21995769	2.00943546	
LOC100128977	0.26148366	0.22006360	2.00911609	
KIAA1370	-0.26144171	0.22018248	-2.00877013	
CUL4A	-0.26141193	0.22025257	-2.00852450	
CEBPA	0.26138885	0.22028833	2.00833418	
CABP2	0.26137837	0.22028833	2.00824777	
CYBASC3	-0.26133042	0.22043144	-2.00785235	
HIPK4	0.26130510	0.22047880	2.00764355	
SOAT2	0.26129399	0.22047880	2.00755194	

PPP2R2A	-0.26127474	0.22050665	-2.00739321
EXOC1	-0.26118315	0.22082541	-2.00663796
VAX2	0.26112969	0.22084234	2.00619715
IL17D	0.26115786	0.22084234	2.00642945
CAMK2N2	0.26114154	0.22084234	2.00629491
NPEPPS	-0.26115289	0.22084234	-2.00638850
TTC36	0.26102748	0.22100601	2.00535453
AMZ1	0.26106250	0.22100601	2.00564323
SLC40A1	0.26102799	0.22100601	2.00535868
CASP7	-0.26106613	0.22100601	-2.00567315
SNCAIP	-0.26103220	0.22100601	-2.00539342
C15orf52	0.26093223	0.22132046	2.00456926
SCP2	-0.26092465	0.22132046	-2.00450673
C7orf25	-0.26091249	0.22132046	-2.00440656
CTNND2	0.26086316	0.22146970	2.00399988
KRT33B	0.26084212	0.22148245	2.00382645
TBC1D14	-0.26083541	0.22148245	-2.00377115
EMCN	0.26077478	0.22167733	2.00327142
C6orf208	0.26076004	0.22168723	2.00314989
BSX	0.26070510	0.22183915	2.00269708
CLEC1B	0.26067324	0.22183915	2.00243445
ANAPC7	-0.26067812	0.22183915	-2.00247467
PTTG1IP	-0.26067470	0.22183915	-2.00244648
C1orf61	0.26062934	0.22185601	2.00207270
KIR3DL2	0.26061995	0.22185601	2.00199527
DCDC2	-0.26064386	0.22185601	-2.00219234
EFHD1	0.26062015	0.22185601	2.00199691
ESPNL	0.26055290	0.22202755	2.00144268
SAR1B	-0.26055735	0.22202755	-2.00147936
LOC100129654	0.26042588	0.22224938	2.00039603
LYPLA2	-0.26047958	0.22224938	-2.00083848
ZFP92	0.26041211	0.22224938	2.00028255
ISM2	0.26043474	0.22224938	2.00046904

GBA	-0.26041826	0.22224938	-2.00033323	
APLP1	0.26046247	0.22224938	2.00069753	
DIABLO	-0.26045599	0.22224938	-2.00064410	
DNALI1	-0.26039355	0.22227486	-2.00012957	
CLDN4	-0.26037988	0.22228057	-2.00001695	
LY6G6F	0.26033742	0.22239247	1.99966708	
UBE2G1	-0.26032768	0.22239247	-1.99958681	
GDF7	0.26031457	0.22239593	1.99947883	
TSNAXIP1	-0.26029591	0.22242184	-1.99932511	
XKR6	0.26026316	0.22245460	1.99905525	yes
GRP	-0.26023884	0.22245460	-1.99885490	
OR10V1	0.26024208	0.22245460	1.99888162	
FLJ44606	-0.26026192	0.22245460	-1.99904504	
CNGB1	0.26021496	0.22250163	1.99865818	
CCL13	0.26019963	0.22251417	1.99853182	
GJD3	0.26017438	0.22252836	1.99832385	
FAM171B	0.26017165	0.22252836	1.99830137	
OR5K4	0.26010541	0.22272579	1.99775563	
ACOX3	-0.26009835	0.22272579	-1.99769749	
CACNA2D2	0.26003815	0.22291983	1.99720154	
EP400NL	0.26000533	0.22300313	1.99693125	
C7orf44	-0.25999094	0.22301190	-1.99681273	
DSP	-0.25994747	0.22304480	-1.99645459	
VKORC1	0.25994658	0.22304480	1.99644734	
MEX3B	0.25994616	0.22304480	1.99644381	
MTM1	-0.25990488	0.22312486	-1.99610385	
MEX3C	0.25990194	0.22312486	1.99607966	
WDR65	-0.25987347	0.22314414	-1.99584514	
LTBP2	0.25986068	0.22314414	1.99573980	
RAP2A	-0.25986055	0.22314414	-1.99573875	
CCDC108	-0.25984447	0.22315986	-1.99560624	
LOC100133367	0.25974498	0.22332649	1.99478688	
DNAJA2	-0.25976076	0.22332649	-1.99491687	

FNDC5	0.25978485	0.22332649	1.99511527	
ANXA6	0.25975059	0.22332649	1.99483313	
GTF3C3	-0.25974231	0.22332649	-1.99476489	
EYA1	-0.25971705	0.22333000	-1.99455693	
PIR	-0.25972889	0.22333000	-1.99465437	
SEMA3D	0.25969466	0.22337132	1.99437251	
NCR2	0.25966514	0.22344149	1.99412945	
CNIH3	0.25964758	0.22346329	1.99398478	
DAAM1	-0.25953810	0.22349637	-1.99308329	
BRWD3	-0.25954882	0.22349637	-1.99317154	
CASC2	-0.25958838	0.22349637	-1.99349729	
ITGB1BP3	0.25961250	0.22349637	1.99369595	
NHSL1	-0.25952983	0.22349637	-1.99301521	
NUFIP2	-0.25956911	0.22349637	-1.99333869	yes
PCBD2	-0.25953698	0.22349637	-1.99307408	
SCRT2	0.25956595	0.22349637	1.99331263	
LRRC16B	0.25957992	0.22349637	1.99342763	
AMDHD2	0.25945728	0.22374096	1.99241789	
VTA1	-0.25939670	0.22393723	-1.99191913	yes
LEAP2	0.25933469	0.22399145	1.99140856	
LRRC15	0.25934744	0.22399145	1.99151357	
FGF10	0.25935609	0.22399145	1.99158472	
IGFL1	0.25933659	0.22399145	1.99142425	
LPAR5	0.25931274	0.22403118	1.99122783	
C21orf128	-0.25922880	0.22427311	-1.99053687	
mei-01	0.25923641	0.22427311	1.99059952	
KRCC1	-0.25921595	0.22427594	-1.99043108	
FLJ40142	0.25918824	0.22428979	1.99020297	
RAB3IL1	0.25919742	0.22428979	1.99027855	
EXTL2	-0.25916401	0.22430020	-1.99000351	
PTPRE	0.25916138	0.22430020	1.98998190	
LRP6	0.25908341	0.22456752	1.98934007	
KCNA2	0.25905014	0.22465334	1.98906626	

IDI1	-0.25902336	0.22471283	-1.98884585	
ANKRD60	0.25894781	0.22487192	1.98822405	
GPR97	0.25895726	0.22487192	1.98830187	
C9orf123	-0.25896472	0.22487192	-1.98836324	
UNQ6126	0.25892442	0.22491767	1.98803159	
PLA2G2F	0.25890328	0.22495431	1.98785759	
SFRS14	-0.25882452	0.22517602	-1.98720946	
IGFBP1	0.25882716	0.22517602	1.98723121	
LOC100129608	0.25877776	0.22526760	1.98682470	
CCT5	-0.25878770	0.22526760	-1.98690646	
FURIN	0.25874251	0.22531421	1.98653459	
CPLX3	0.25874206	0.22531421	1.98653094	
GEN1	-0.25871139	0.22531604	-1.98627850	
SMAD3	-0.25872914	0.22531604	-1.98642460	
CBLB	-0.25870526	0.22531604	-1.98622806	yes
DHRS2	0.25864127	0.22532999	1.98570159	
FOXE3	0.25865683	0.22532999	1.98582959	
ACADL	0.25868724	0.22532999	1.98607982	
RHBDL2	-0.25866952	0.22532999	-1.98593406	
CPZ	0.25865102	0.22532999	1.98578181	
SNORA80	0.25859695	0.22541186	1.98533694	
CCDC135	-0.25860454	0.22541186	-1.98539934	
TRIM25	-0.25858213	0.22542291	-1.98521504	
SLC17A8	0.25855497	0.22548426	1.98499151	
EGR3	0.25852654	0.22555077	1.98475761	
MC4R	0.25848167	0.22563499	1.98438847	
PNOC	0.25848595	0.22563499	1.98442372	
AGBL5	-0.25846023	0.22567304	-1.98421215	
LPHN3	0.25843107	0.22574257	1.98397228	
LOC389936	0.25838844	0.22586707	1.98362153	
AK3L1	0.25834648	0.22598885	1.98327639	
LOC124220	0.25820931	0.22601547	1.98214814	yes
C15orf43	0.25822247	0.22601547	1.98225637	

B4GALNT1	0.25821605	0.22601547	1.98220358	
HNF4A	0.25820710	0.22601547	1.98212993	
C14orf39	-0.25826450	0.22601547	-1.98260205	
IL3	0.25828111	0.22601547	1.98273872	
ASIP	0.25825414	0.22601547	1.98251685	
KLK14	0.25826153	0.22601547	1.98257765	
C14orf100	-0.25825991	0.22601547	-1.98256430	
TSG101	-0.25831389	0.22601547	-1.98300829	
JRKL	-0.25820750	0.22601547	-1.98213320	
CHMP4C	-0.25818746	0.22604635	-1.98196840	
MAB21L2	0.25815929	0.22605862	1.98173670	
TSPYL4	-0.25814157	0.22605862	-1.98159102	
KIAA1045	0.25815693	0.22605862	1.98171728	yes
FUT1	0.25807885	0.22605862	1.98107518	
KLHL30	0.25807596	0.22605862	1.98105139	
MGST3	-0.25810902	0.22605862	-1.98132328	
TNAP	0.25811792	0.22605862	1.98139645	
MSX2	0.25808285	0.22605862	1.98110803	
NDUFA4	-0.25813423	0.22605862	-1.98153063	
PLXDC1	0.25804414	0.22609013	1.98078971	
LEFTY2	0.25805429	0.22609013	1.98087320	
TPRG1L	-0.25798210	0.22624488	-1.98027954	
FLJ41170	0.25798872	0.22624488	1.98033395	
TCEAL3	0.25795507	0.22630601	1.98005728	
HOXD9	0.25793242	0.22634933	1.97987096	
F2RL2	0.25788757	0.22648321	1.97950217	
MCART6	0.25783842	0.22656231	1.97909808	
NP	-0.25783948	0.22656231	-1.97910675	
LOC727726	-0.25783209	0.22656231	-1.97904601	
KIAA0746	-0.25773967	0.22669654	-1.97828611	
FUT5	0.25774556	0.22669654	1.97833458	
GNGT2	0.25778174	0.22669654	1.97863203	
HAO2	0.25773908	0.22669654	1.97828132	

FLJ33544	0.25776395	0.22669654	1.97848580	
HTR3C	0.25771082	0.22671380	1.97804895	
SLC35E4	0.25771477	0.22671380	1.97808142	
FRK	-0.25766866	0.22675684	-1.97770233	yes
LACE1	-0.25765406	0.22675684	-1.97758231	
C2orf55	-0.25765872	0.22675684	-1.97762058	
NHLRC3	-0.25765223	0.22675684	-1.97756727	
GPR114	0.25758256	0.22679096	1.97699454	
PIGA	-0.25758345	0.22679096	-1.97700185	
ZNF19	-0.25757598	0.22679096	-1.97694039	
ALS2CR8	-0.25757187	0.22679096	-1.97690660	
EFHC2	-0.25761786	0.22679096	-1.97728474	
FBN3	0.25759538	0.22679096	1.97709987	
KCTD11	-0.25753422	0.22679121	-1.97659711	
C11orf88	-0.25752384	0.22679121	-1.97651181	
C9orf46	-0.25754917	0.22679121	-1.97672001	
EFCAB7	-0.25754319	0.22679121	-1.97667091	
COX4I2	0.25743724	0.22709588	1.97579996	
FLJ38576	0.25739111	0.22723539	1.97542082	
OLFML2A	0.25729918	0.22736628	1.97466523	
GALNTL6	0.25730188	0.22736628	1.97468739	
NRD1	-0.25730867	0.22736628	-1.97474327	
IMPACT	-0.25734213	0.22736628	-1.97501823	
PRKCD	-0.25731077	0.22736628	-1.97476051	
DHRS7C	0.25720226	0.22760944	1.97386874	
SPATA19	0.25717986	0.22760944	1.97368460	
INPP5J	0.25718919	0.22760944	1.97376131	
TTY14	0.25721410	0.22760944	1.97396600	
DISP2	0.25721308	0.22760944	1.97395763	
C1QL1	0.25709286	0.22772654	1.97296965	
EPHB1	0.25709141	0.22772654	1.97295778	yes
NPTXR	0.25712145	0.22772654	1.97320461	
IRF6	-0.25711484	0.22772654	-1.97315032	

MSC	0.25712309	0.22772654	1.97321808
KLHDC8B	0.25703309	0.22791630	1.97247857
MYST3	-0.25700692	0.22797451	-1.97226351
BHLHA15	0.25698268	0.22797583	1.97206438
YIPF5	-0.25698789	0.22797583	-1.97210720
C5orf37	-0.25695293	0.22804872	-1.97181992
PRX	0.25693546	0.22807131	1.97167640
LOC100130233	-0.25682545	0.22808572	-1.97077252
BCAP31	-0.25671989	0.22808572	-1.96990538
CNPY3	-0.25682370	0.22808572	-1.97075816
GPR182	0.25669482	0.22808572	1.96969945
C7orf29	0.25673476	0.22808572	1.97002755
RP11-218C14.6	0.25670891	0.22808572	1.96981519
GALNT3	-0.25690749	0.22808572	-1.97144661
hCG_2045089	0.25671383	0.22808572	1.96985560
RSPH4A	-0.25688490	0.22808572	-1.97126095
C1QL3	0.25675970	0.22808572	1.97023240
MYO7A	0.25669333	0.22808572	1.96968720
DIRAS2	0.25673336	0.22808572	1.97001603
ATG16L1	-0.25673898	0.22808572	-1.97006215
LRP2BP	-0.25675011	0.22808572	-1.97015365
AZGP1	0.25678627	0.22808572	1.97045067
SLC6A9	-0.25683789	0.22808572	-1.97087473
LOC791120	0.25671070	0.22808572	1.96982989
HPS6	0.25687442	0.22808572	1.97117488
ZNF469	0.25688442	0.22808572	1.97125704
LARGE	0.25687211	0.22808572	1.97115592
SLC16A14	0.25668077	0.22808839	1.96958401
FTHL17	0.25666683	0.22809672	1.96946949
HMGCLL1	0.25665336	0.22810312	1.96935886
LOC100133091	0.25662029	0.22815613	1.96908724
MIOS	-0.25661185	0.22815613	-1.96901786
VPS35	-0.25659014	0.22815613	-1.96883956

CACNG6	-0.25659014	0.22815613	-1.96883959	
CASP4	-0.25658091	0.22815613	-1.96876376	
ZNF611	-0.25654335	0.22826119	-1.96845525	
FCAR	0.25651667	0.22827307	1.96823609	
OR51M1	0.25651715	0.22827307	1.96824008	
ATIC	-0.25646779	0.22842453	-1.96783465	
CD300LD	0.25639223	0.22854042	1.96721405	
ATF5	0.25642212	0.22854042	1.96745957	
IL13RA1	-0.25638008	0.22854042	-1.96711430	
MYH7	0.25639113	0.22854042	1.96720504	
TLL2	0.25641505	0.22854042	1.96740148	
POLR3C	-0.25634814	0.22861394	-1.96685198	yes
LCN9	0.25633838	0.22861394	1.96677187	
C20orf152	0.25629655	0.22868145	1.96642833	
GABRD	0.25628629	0.22868145	1.96634406	
SLC22A8	0.25630147	0.22868145	1.96646872	
FAM76A	-0.25627419	0.22868238	-1.96624473	
FAM46B	0.25622984	0.22876689	1.96588050	
RFPL1	0.25624149	0.22876689	1.96597620	
SRGAP1	-0.25620288	0.22882875	-1.96565916	
MFAP3L	0.25618654	0.22884711	1.96552497	
TCTEX1D4	-0.25616788	0.22887498	-1.96537175	
CIDEA	0.25615546	0.22887729	1.96526976	
LOH12CR1	0.25603034	0.22919597	1.96424248	
CPNE9	0.25604282	0.22919597	1.96434497	
FES	0.25603712	0.22919597	1.96429812	
UPK3A	0.25603971	0.22919597	1.96431943	
LOC388282	0.25598652	0.22922990	1.96388272	
HES5	0.25598702	0.22922990	1.96388679	
OR6C76	-0.25599404	0.22922990	-1.96394450	
SELENBP1	-0.25594370	0.22935703	-1.96353119	
ZNF532	0.25591632	0.22937220	1.96330637	
PCGF2	0.25592406	0.22937220	1.96336998	

LOC100129151	-0.25582803	0.22968620	-1.96258160
ATP2C1	-0.25581438	0.22969363	-1.96246956
FAM150B	0.25580048	0.22969638	1.96235545
KIAA1219	-0.25576636	0.22969638	-1.96207538
OVOL2	-0.25577382	0.22969638	-1.96213661
LRP5L	0.25577849	0.22969638	1.96217495
ZNF846	-0.25574699	0.22970473	-1.96191642
KCNJ11	0.25574066	0.22970473	1.96186448
hCG_2004198	0.25563496	0.22981788	1.96099688
OR10A7	0.25561981	0.22981788	1.96087255
GJD4	0.25566729	0.22981788	1.96126225
FGL1	0.25557131	0.22981788	1.96047448
SNX11	0.25563310	0.22981788	1.96098164
LOC391081	0.25558669	0.22981788	1.96060070
VPS33A	-0.25558097	0.22981788	-1.96055377
TTN	0.25560000	0.22981788	1.96070997
C1orf135	0.25564495	0.22981788	1.96107889
CALCB	0.25561058	0.22981788	1.96079677
STX10	-0.25564347	0.22981788	-1.96106678
AATK	0.25558955	0.22981788	1.96062417
L1CAM	0.25553028	0.22993795	1.96013779
CDA	0.25551349	0.22995845	1.95999997
CD40	0.25548093	0.23004377	1.95973278
KLF14	0.25546625	0.23005558	1.95961236
AP1G1	-0.25543717	0.23006360	-1.95937372
LHFPL4	0.25544103	0.23006360	1.95940537
HIST1H2BK	-0.25542891	0.23006360	-1.95930591
NDUFB1	-0.25535214	0.23033082	-1.95867595
ANKS1B	0.25533680	0.23034542	1.95855007
OR52B4	0.25531309	0.23039446	1.95835551
CLDN15	0.25528066	0.23042445	1.95808947
C3orf23	-0.25527043	0.23042445	-1.95800552
CCT3	-0.25527654	0.23042445	-1.95805560

LOC100128262	0.25519815	0.23043517	1.95741242	
TMEM148	0.25518687	0.23043517	1.95731993	
FKBP15	-0.25519734	0.23043517	-1.95740585	
OR9G4	0.25520445	0.23043517	1.95746412	
PSMG4	-0.25521348	0.23043517	-1.95753826	
PDE4C	0.25518537	0.23043517	1.95730763	
C11orf30	-0.25520661	0.23043517	-1.95748183	yes
PLK5P	0.25516280	0.23047960	1.95712246	yes
ZNF560	0.25511697	0.23061978	1.95674646	
LHX5	0.25509731	0.23065226	1.95658518	
CKAP4	0.25506399	0.23069257	1.95631180	
CCDC28B	0.25507393	0.23069257	1.95639335	
OSBPL6	-0.25505055	0.23069945	-1.95620159	
SEMA3C	-0.25503456	0.23071685	-1.95607041	
PTCH2	0.25501671	0.23074193	1.95592397	
ZNF384	0.25493808	0.23075556	1.95527893	
CHSY1	0.25499296	0.23075556	1.95572911	
OR5L2	0.25495850	0.23075556	1.95544642	
MYBPC3	0.25491302	0.23075556	1.95507337	
C14orf135	-0.25490765	0.23075556	-1.95502935	
UNKL	0.25493374	0.23075556	1.95524336	yes
PYROXD1	-0.25496367	0.23075556	-1.95548885	
RIOK3	-0.25497942	0.23075556	-1.95561807	
CPNE6	0.25491818	0.23075556	1.95511574	
AK7	-0.25483795	0.23093255	-1.95445766	
C19orf35	0.25485225	0.23093255	1.95457492	
STXBP5L	0.25482944	0.23093255	1.95438787	
METTL9	-0.25481618	0.23093883	-1.95427911	
COL20A1	0.25479968	0.23095847	1.95414374	
ARNTL2	-0.25478347	0.23097689	-1.95401082	
ANAPC13	-0.25475573	0.23104284	-1.95378329	
PIK3R1	0.25471906	0.23114557	1.95348257	
C19orf71	0.25469252	0.23120661	1.95326490	

VPS13A	-0.25467781	0.23121065	-1.95314421	
FBXO43	0.25466809	0.23121065	1.95306451	yes
PKHD1L1	0.25465038	0.23123531	1.95291931	yes
PHIP	-0.25460254	0.23138421	-1.95252694	
OR2A2	0.25456712	0.23148192	1.95223651	
C9orf93	-0.25451146	0.23152958	-1.95178008	
SLC30A10	0.25451599	0.23152958	1.95181726	
BEGAIN	0.25450063	0.23152958	1.95169133	
ABCG8	0.25451535	0.23152958	1.95181200	
P4HA2	-0.25449698	0.23152958	-1.95166140	
KERA	0.25448342	0.23153724	1.95155015	
LOC100133397	0.25446892	0.23154874	1.95143127	yes
ALDH1A1	-0.25444909	0.23158226	-1.95126864	
CRIP1	-0.25441613	0.23166993	-1.95099839	
MRPL47	-0.25433251	0.23187152	-1.95031282	
FMNL3	0.25433217	0.23187152	1.95031002	
RBX1	-0.25434710	0.23187152	-1.95043243	
MPN2	0.25430269	0.23194489	1.95006838	
NEDD8	-0.25424820	0.23202500	-1.94962164	
PVRL4	-0.25425435	0.23202500	-1.94967202	
UCN2	0.25426418	0.23202500	1.94975267	
CCL26	0.25420205	0.23202997	1.94924327	
MTX2	-0.25417325	0.23202997	-1.94900720	
ATF7	0.25419336	0.23202997	1.94917202	
GPHA2	0.25420137	0.23202997	1.94923775	
UEVLD	-0.25418315	0.23202997	-1.94908836	
SLC2A4RG	0.25419908	0.23202997	1.94921895	
RPL13AP3	0.25416519	0.23202997	1.94894110	
CUX2	0.25415036	0.23204297	1.94881956	
IER5L	0.25412569	0.23209661	1.94861731	
ACADM	-0.25404811	0.23224403	-1.94798141	
C19orf45	0.25403752	0.23224403	1.94789461	
FGFRL1	0.25403163	0.23224403	1.94784630	

PRNP	0.25404198	0.23224403	1.94793116	
RNF10	-0.25404077	0.23224403	-1.94792122	
CAP2	-0.25395517	0.23240849	-1.94721958	
SLC36A4	-0.25392725	0.23240849	-1.94699077	
PDIK1L	-0.25391408	0.23240849	-1.94688283	yes
NHLH1	0.25391299	0.23240849	1.94687387	
NONO	-0.25397269	0.23240849	-1.94736322	
REG3A	0.25391018	0.23240849	1.94685084	
DBNDD1	0.25395682	0.23240849	1.94723312	
WFDC10A	0.25389138	0.23241984	1.94669679	
KIAA1614	0.25386219	0.23241984	1.94645753	
RTN2	0.25386287	0.23241984	1.94646311	
ZNF157	-0.25386082	0.23241984	-1.94644631	
YJEFN3	0.25382666	0.23251284	1.94616638	
KLRG2	0.25372037	0.23290416	1.94529534	
TNFRSF13B	0.25369509	0.23293608	1.94508815	
SFRS7	-0.25368936	0.23293608	-1.94504122	
PIP5KL1	0.25361950	0.23299703	1.94446876	
MAGEB16	0.25358341	0.23299703	1.94417310	
ASB9	-0.25361952	0.23299703	-1.94446894	
KIR2DL4	0.25359351	0.23299703	1.94425582	
MTHFD2L	-0.25360831	0.23299703	-1.94437712	
LRRC3	0.25360869	0.23299703	1.94438022	
AP4M1	-0.25361505	0.23299703	-1.94443232	
PITPNM1	-0.25358152	0.23299703	-1.94415760	
TTF1	-0.25356690	0.23300940	-1.94403780	
LSM7	-0.25354251	0.23306219	-1.94383799	
NPY1R	0.25352568	0.23308373	1.94370007	
ELK1	0.25349897	0.23309807	1.94348121	
RAB8A	-0.25349961	0.23309807	-1.94348645	
LOC100128233	0.25344602	0.23316478	1.94304741	
C6orf108	-0.25343221	0.23316478	-1.94293424	
LMO1	0.25342445	0.23316478	1.94287070	

RNF114	-0.25340154	0.23316478	-1.94268297	
GUF1	-0.25345389	0.23316478	-1.94311190	
SLC2A5	0.25340956	0.23316478	1.94274873	
CALN1	0.25340650	0.23316478	1.94272360	
NRM	0.25336924	0.23320237	1.94241836	
TGFA	-0.25337272	0.23320237	-1.94244686	yes
ZBTB24	-0.25333945	0.23327761	-1.94217433	
CDKN2AIP	-0.25329387	0.23341828	-1.94180091	
CHMP4B	-0.25320330	0.23344136	-1.94105902	
ZNRF4	0.25324318	0.23344136	1.94138571	
SLC39A14	0.25322755	0.23344136	1.94125764	
ZBTB32	0.25326181	0.23344136	1.94153832	
HOXC4	0.25318393	0.23344136	1.94090041	
LCE3A	0.25322719	0.23344136	1.94125471	
UBAP1	-0.25327626	0.23344136	-1.94165666	
DUSP21	0.25318541	0.23344136	1.94091254	
C6orf25	0.25320855	0.23344136	1.94110207	
INO80C	-0.25316036	0.23349100	-1.94070729	
GGN	0.25313090	0.23351703	1.94046602	
QTRTD1	-0.25314049	0.23351703	-1.94054456	
MRPL51	-0.25310218	0.23358802	-1.94023076	
SFRS3	-0.25305974	0.23371582	-1.93988319	
KCNK13	0.25300037	0.23391385	1.93939697	
TFG	-0.25297822	0.23395768	-1.93921555	
TANK	-0.25285902	0.23409300	-1.93823942	
SYT2	0.25291075	0.23409300	1.93866299	
OR10Z1	0.25289191	0.23409300	1.93850869	
HSPA4	-0.25285098	0.23409300	-1.93817357	
OR52I1	0.25284145	0.23409300	1.93809551	
AGPAT3	-0.25290624	0.23409300	-1.93862607	
RDH14	-0.25288143	0.23409300	-1.93842286	
SLC1A6	0.25285719	0.23409300	1.93822444	
C6orf125	-0.25284161	0.23409300	-1.93809684	

RNF139	-0.25282918	0.23409594	-1.93799503	
RPLP1P3	0.25262159	0.23410079	1.93629531	
CRYBB1	0.25267579	0.23410079	1.93673906	
DBT	-0.25273795	0.23410079	-1.93724799	
CCDC83	0.25259718	0.23410079	1.93609546	
DENND5A	0.25264557	0.23410079	1.93649165	
TAC4	0.25262161	0.23410079	1.93629541	
CCDC69	-0.25259881	0.23410079	-1.93610879	
TIAM2	0.25268344	0.23410079	1.93680172	
ANKRD2	0.25276450	0.23410079	1.93746543	
GNB3	0.25265664	0.23410079	1.93658229	
GRID1	0.25262272	0.23410079	1.93630458	
DDX25	0.25266963	0.23410079	1.93668859	
SP5	0.25263919	0.23410079	1.93643937	
NEUROD2	0.25272863	0.23410079	1.93717166	
GALNT9	0.25266639	0.23410079	1.93666205	
PRMT6	-0.25270871	0.23410079	-1.93700855	
NXT2	-0.25274400	0.23410079	-1.93729756	yes
BAG1	-0.25268089	0.23410079	-1.93678084	
PARP8	-0.25261914	0.23410079	-1.93627522	
SUCLG2	-0.25277247	0.23410079	-1.93753070	
NCAN	0.25258419	0.23410690	1.93598905	
PRDM13	0.25256377	0.23414374	1.93582194	
LOC731797	0.25253556	0.23421291	1.93559099	
FAM69B	0.25251037	0.23426959	1.93538473	yes
C5orf43	-0.25247543	0.23436670	-1.93509869	
C10orf31	0.25245964	0.23438442	1.93496944	
TRIM42	0.25239131	0.23449649	1.93441012	
HOXA9	0.25238007	0.23449649	1.93431810	
CLEC4G	0.25237506	0.23449649	1.93427711	
LOC729173	0.25239866	0.23449649	1.93447026	
KIAA0408	0.25239000	0.23449649	1.93439939	
PSMD14	-0.25230143	0.23466779	-1.93367439	

SCLT1	-0.25228775	0.23466779	-1.93356245
ASPN	0.25228929	0.23466779	1.93357501
VPS53	-0.25231803	0.23466779	-1.93381029
CUL2	-0.25224377	0.23480258	-1.93320246
ZCRB1	-0.25216460	0.23508359	-1.93255445
IL1F8	0.25211583	0.23523843	1.93215537
GLYAT	0.25206664	0.23526355	1.93175276
ASTL	0.25209629	0.23526355	1.93199540
CACNG8	0.25207910	0.23526355	1.93185475
TMEM22	0.25206381	0.23526355	1.93172961
CP	-0.25203624	0.23533040	-1.93150396
RUNDC3A	0.25200635	0.23540690	1.93125935
TMPRSS5	0.25196959	0.23551196	1.93095859
XIRP2	0.25195101	0.23551923	1.93080653
FGF7	0.25189326	0.23551923	1.93033402
DHX30	-0.25188547	0.23551923	-1.93027023
STXBP4	-0.25190431	0.23551923	-1.93042437
DNM1P34	0.25193563	0.23551923	1.93068072
TRIM48	0.25187600	0.23551923	1.93019272
RNF122	0.25188940	0.23551923	1.93030241
B3GALT1	0.25190695	0.23551923	1.93044603
SESN2	0.25186404	0.23552122	1.93009494
SMARCA1	0.25184535	0.23555125	1.92994198
CIDEB	-0.25181900	0.23556545	-1.92972637
DPF3	0.25182362	0.23556545	1.92976415
SYCP2L	0.25178647	0.23565303	1.92946024
SLC17A2	0.25147136	0.23576102	1.92688239
DCD	0.25146928	0.23576102	1.92686534
CAPN12	0.25155339	0.23576102	1.92755343
RBMV2FP	0.25148103	0.23576102	1.92696146
S1PR1	0.25166589	0.23576102	1.92847372
SCUBE3	0.25159530	0.23576102	1.92789621
FOXC1	0.25148574	0.23576102	1.92699998

yes

GAS2L3	0.25155309	0.23576102	1.92755091
EPHA10	0.25146302	0.23576102	1.92681416
KCNA10	0.25153809	0.23576102	1.92742820
TMEM179	0.25162015	0.23576102	1.92809950
LAIR2	0.25164448	0.23576102	1.92829856
PAX1	0.25167871	0.23576102	1.92857858
ABI3	0.25172017	0.23576102	1.92891774
STARD9	0.25161066	0.23576102	1.92802185
IL21	0.25149010	0.23576102	1.92703566
SLC12A3	0.25150221	0.23576102	1.92713474
TRPC2	0.25151866	0.23576102	1.92726927
C6orf186	0.25162274	0.23576102	1.92812072
TXN	-0.25155477	0.23576102	-1.92756468
VRK1	-0.25156966	0.23576102	-1.92768647
SLC25A18	0.25156499	0.23576102	1.92764826
ZNF528	-0.25156579	0.23576102	-1.92765485
PLA2G12B	0.25156303	0.23576102	1.92763226
WDR34	-0.25146571	0.23576102	-1.92683614
SPTLC2	-0.25166121	0.23576102	-1.92843540
ADRB2	0.25143281	0.23579170	1.92656702
ABHD1	0.25144182	0.23579170	1.92664075
C6orf221	0.25135056	0.23594387	1.92589429
GPIHBP1	0.25135940	0.23594387	1.92596661
NFE2L2	-0.25137854	0.23594387	-1.92612319
XCL1	0.25136229	0.23594387	1.92599025
NKPD1	0.25130983	0.23606581	1.92556117
SLK	-0.25123823	0.23631627	-1.92497563
CRISP1	0.25118695	0.23648230	1.92455625
WNK3	0.25116323	0.23653356	1.92436232
SEMA4F	0.25111692	0.23658396	1.92398362
C8orf38	-0.25112641	0.23658396	-1.92406122
LOC375337	0.25112853	0.23658396	1.92407857
UNQ1870	0.25094646	0.23668143	1.92258981

ADAM29	0.25104311	0.23668143	1.92338000	
FAAH2	-0.25098488	0.23668143	-1.92290392	
MLC1	0.25101122	0.23668143	1.92311930	
PAN3	-0.25096120	0.23668143	-1.92271031	
CCDC9	0.25094546	0.23668143	1.92258157	yes
PTPN18	-0.25095103	0.23668143	-1.92262716	
RNASE13	0.25103282	0.23668143	1.92329586	
OTX2	0.25096398	0.23668143	1.92273301	
NDUFA4L2	0.25106990	0.23668143	1.92359908	
LXN	-0.25098502	0.23668143	-1.92290501	
MAN1C1	0.25105067	0.23668143	1.92344189	
SYS1	-0.25105106	0.23668143	-1.92344500	
FCF1	-0.25089940	0.23682591	-1.92220499	
ACOXL	0.25087338	0.23688694	1.92199224	
SHOC2	-0.25082324	0.23704854	-1.92158230	
KCNV1	0.25077697	0.23707272	1.92120408	
SNX24	-0.25077195	0.23707272	-1.92116300	yes
ATP5F1	-0.25080595	0.23707272	-1.92144098	
RNF112	0.25079193	0.23707272	1.92132637	
HELT	0.25070369	0.23731000	1.92060503	
CLEC4GP1	0.25066480	0.23742488	1.92028708	
ZNF366	0.25064791	0.23744792	1.92014904	
NKX2-5	0.25062696	0.23748793	1.91997778	
KCTD8	0.25055975	0.23758792	1.91942838	
KRTAP12-4	0.25056221	0.23758792	1.91944853	
LIG4	-0.25056039	0.23758792	-1.91943369	
ZNF226	-0.25055756	0.23758792	-1.91941051	
EXD1	0.25049146	0.23760140	1.91887028	
SGMS1	-0.25050236	0.23760140	-1.91895932	
C1orf141	-0.25048621	0.23760140	-1.91882732	
RPRD1A	-0.25051369	0.23760140	-1.91905198	
MRAP	0.25054215	0.23760140	1.91928453	
GGTLC1	0.25052647	0.23760140	1.91915639	yes

C3orf46	0.25046541	0.23764087	1.91865732	
GNRH2	0.25040520	0.23775767	1.91816522	
IPP	-0.25039435	0.23775767	-1.91807657	yes
YPEL2	-0.25039206	0.23775767	-1.91805786	
BAG5	-0.25040892	0.23775767	-1.91819567	
C9orf163	0.25034092	0.23778183	1.91763997	
RBL2	-0.25036850	0.23778183	-1.91786531	
WNT11	0.25034535	0.23778183	1.91767611	
CDC2L5	-0.25034836	0.23778183	-1.91770070	
UNQ5814	0.25027776	0.23795099	1.91712378	
PALMD	-0.25027830	0.23795099	-1.91712822	
HBXIP	-0.25025663	0.23795342	-1.91695113	
IQCJ	0.25025452	0.23795342	1.91693387	
COPS8	-0.25020008	0.23797523	-1.91648903	
SIX5	0.25016393	0.23797523	1.91619364	
EPHX1	-0.25019807	0.23797523	-1.91647259	
MAP4	0.25019035	0.23797523	1.91640952	
SFTPC	0.25016953	0.23797523	1.91623936	
CYBRD1	0.25021889	0.23797523	1.91664272	
COPS3	-0.25015873	0.23797523	-1.91615113	
DNAH17	0.25017239	0.23797523	1.91626278	
CCT2	-0.25014142	0.23800030	-1.91600965	
SNORD116-23	0.25002825	0.23811288	1.91508505	
GPR155	0.25004699	0.23811288	1.91523810	
ANXA2P1	-0.25006541	0.23811288	-1.91538861	
FLJ27243	0.25004158	0.23811288	1.91519395	
BCAM	0.25002402	0.23811288	1.91505046	
CHDH	0.25009901	0.23811288	1.91566318	
TRIM54	0.25008708	0.23811288	1.91556571	yes
TBPL1	-0.25006880	0.23811288	-1.91541633	
BCHE	0.25000435	0.23814787	1.91488973	
LOC645769	0.24998036	0.23820089	1.91469374	
LOC100130924	0.24992209	0.23822983	1.91421772	

CELSR3	0.24992982	0.23822983	1.91428083
NTF3	0.24995187	0.23822983	1.91446103
TBC1D22B	-0.24991697	0.23822983	-1.91417591
SLC48A1	0.24994396	0.23822983	1.91439637
TPMT	-0.24987940	0.23833966	-1.91386898
TRIM10	0.24984779	0.23834871	1.91361070
KLHL2	-0.24986481	0.23834871	-1.91374974
HAVCR1	0.24984338	0.23834871	1.91357474
LMAN1L	0.24982586	0.23837480	1.91343159
METTL13	-0.24980231	0.23842608	-1.91323923
TMC2	0.24975724	0.23848061	1.91287108
RNASEL	-0.24977249	0.23848061	-1.91299559
BUD31	-0.24975544	0.23848061	-1.91285633
MAPK4	0.24966080	0.23882926	1.91208331
LOC729085	0.24964096	0.23885964	1.91192125
DIRC2	-0.24963099	0.23885964	-1.91183987
NAALAD2	0.24953852	0.23886492	1.91108460
CMTM3	0.24952311	0.23886492	1.91095878
CDC2L6	-0.24949460	0.23886492	-1.91072593
OTOP3	0.24951200	0.23886492	1.91086805
ZC3HAV1	-0.24956634	0.23886492	-1.91131177
RPL21P93	0.24949700	0.23886492	1.91074548
SRD5A2	-0.24958376	0.23886492	-1.91145409
CPEB4	-0.24961358	0.23886492	-1.91169763
TNS4	0.24951289	0.23886492	1.91087529
TBX19	0.24956782	0.23886492	1.91132391
CEP57	-0.24952284	0.23886492	-1.91095656
HS3ST2	0.24952193	0.23886492	1.91094911
ASB12	0.24945387	0.23896195	1.91039327
ANTXR1	0.24944891	0.23896195	1.91035278
HES7	0.24943538	0.23897150	1.91024230
SYNGR4	0.24941429	0.23898753	1.91007002
C20orf103	0.24939782	0.23898753	1.90993557

ENPP7	0.24940044	0.23898753	1.90995697	
SORCS1	0.24934940	0.23911849	1.90954017	
RTL1	0.24934405	0.23911849	1.90949644	
BARX1	0.24933112	0.23912556	1.90939088	
ART5	0.24927618	0.23916743	1.90894230	
PCP2	0.24927777	0.23916743	1.90895523	yes
LRRC38	0.24930448	0.23916743	1.90917339	
CLCA4	-0.24928760	0.23916743	-1.90903556	
LEPR	0.24922835	0.23932065	1.90855174	
C9orf47	0.24920974	0.23935156	1.90839978	
SLURP1	0.24917019	0.23942316	1.90807686	
ZSCAN16	-0.24917945	0.23942316	-1.90815251	
KIFAP3	-0.24913916	0.23948999	-1.90782352	
MPPED2	0.24913178	0.23948999	1.90776332	
IL1F10	0.24909280	0.23960628	1.90744507	
SGTB	0.24907648	0.23962612	1.90731182	
C8orf73	0.24906563	0.23962612	1.90722322	
RPS18P12	0.24904529	0.23966433	1.90705720	
MTCP1	-0.24902937	0.23968408	-1.90692717	
RER1	-0.24889146	0.23976219	-1.90580144	
CIC	0.24888746	0.23976219	1.90576878	
BMP10	0.24890325	0.23976219	1.90589768	
C14orf178	0.24895868	0.23976219	1.90635015	
KIF2A	-0.24891793	0.23976219	-1.90601750	
TMEM89	0.24899101	0.23976219	1.90661403	
PTGER1	0.24891084	0.23976219	1.90595957	yes
XPO4	-0.24890940	0.23976219	-1.90594786	
TNFRSF4	0.24895502	0.23976219	1.90632023	
C6orf27	-0.24891321	0.23976219	-1.90597896	
CLDN12	-0.24890550	0.23976219	-1.90591597	
PTPLAD2	-0.24887157	0.23977581	-1.90563901	
PROZ	0.24886182	0.23977581	1.90555950	
ERH	-0.24879453	0.23991712	-1.90501021	

GCK	0.24880871	0.23991712	1.90512593	
NPAS1	0.24880475	0.23991712	1.90509364	
NAMPT	0.24876140	0.23996219	1.90473983	
C11orf70	-0.24876590	0.23996219	-1.90477649	
MYL1	0.24873115	0.24004211	1.90449294	
PLOD1	0.24871598	0.24005885	1.90436905	
PDZD8	-0.24867104	0.24006233	-1.90400234	
SMPX	0.24870222	0.24006233	1.90425682	
BARD1	-0.24868031	0.24006233	-1.90407799	
FUBP1	-0.24867043	0.24006233	-1.90399732	
MRGPRX4	0.24861949	0.24015959	1.90358159	
C9orf78	-0.24858020	0.24015959	-1.90326096	
UNQ6190	0.24860155	0.24015959	1.90343521	
VEGFB	0.24858608	0.24015959	1.90330894	
MFSD7	0.24862303	0.24015959	1.90361051	
CPA5	0.24858703	0.24015959	1.90331672	
GRM7	-0.24856622	0.24017141	-1.90314684	
OR10P1	0.24850680	0.24037376	1.90266197	
FAM115A	0.24847781	0.24044856	1.90242539	yes
CDH4	0.24846068	0.24047359	1.90228562	
MRPS21	-0.24842710	0.24056765	-1.90201165	yes
RGL3	0.24839841	0.24064125	1.90177754	
RPP14	-0.24833756	0.24084992	-1.90128105	
HIST1H2BA	0.24829481	0.24093577	1.90093223	
C12orf61	0.24829919	0.24093577	1.90096798	
SNORD115-3	0.24826411	0.24097104	1.90068171	
ZNF516	-0.24827155	0.24097104	-1.90074246	
ELF3	-0.24825095	0.24097947	-1.90057433	
C20orf177	-0.24823553	0.24099737	-1.90044858	
NLGN1	0.24821976	0.24101682	1.90031986	
ANO5	0.24817246	0.24116873	1.89993404	
ZNF780A	-0.24814676	0.24122994	-1.89972433	
KANK4	0.24809310	0.24140874	1.89928659	

OR52E4	0.24807757	0.24142716	1.89915994
KLK15	0.24806334	0.24144014	1.89904385
RAB25	-0.24801134	0.24161211	-1.89861962
C1D	-0.24797842	0.24161224	-1.89835110
RHBDL3	0.24797788	0.24161224	1.89834670
PRSS27	0.24797950	0.24161224	1.89835990
CCDC52	-0.24788792	0.24194417	-1.89761296
CCDC43	-0.24785161	0.24205024	-1.89731682
CEP250	-0.24779492	0.24219530	-1.89685448
KIAA0415	0.24780256	0.24219530	1.89691672
ATP11B	-0.24771593	0.24248157	-1.89621022
B3GNT2	-0.24769052	0.24254179	-1.89600303
RDH8	0.24762950	0.24273157	1.89550544
LZIC	-0.24762330	0.24273157	-1.89545486
ZNF689	0.24758125	0.24286218	1.89511194
RDM1	0.24751865	0.24305417	1.89460148
HTR3E	0.24750242	0.24305417	1.89446917
SHC1	0.24750953	0.24305417	1.89452713
FAM55A	0.24746783	0.24305993	1.89418716
TIPRL	-0.24746767	0.24305993	-1.89418583
RAB41	0.24748144	0.24305993	1.89429814
FAM102A	-0.24745226	0.24307806	-1.89406015
SNTG1	0.24740099	0.24320076	1.89364212
C15orf29	-0.24740985	0.24320076	-1.89371439
FAM177A1	-0.24738379	0.24322644	-1.89350193
FLJ46300	0.24735418	0.24330464	1.89326051
SLC4A1AP	-0.24734255	0.24330678	-1.89316572
MARCH6	-0.24731891	0.24335975	-1.89297300
LIX1	0.24729328	0.24340148	1.89276400
CACNB4	0.24727570	0.24340148	1.89262073
BPIL1	0.24727694	0.24340148	1.89263083
FXD1	0.24724830	0.24347039	1.89239734
SCOC	-0.24721119	0.24358042	-1.89209481

GDF1	0.24718826	0.24363044	1.89190790
ST6GAL1	-0.24716399	0.24368616	-1.89171005
GIMAP1	0.24713009	0.24378265	1.89143373
KBTBD5	0.24710568	0.24379087	1.89123474
ERN1	0.24709484	0.24379087	1.89114636
PIWIL1	0.24709772	0.24379087	1.89116984
C16orf78	0.24706922	0.24385237	1.89093750
UTS2R	0.24705532	0.24386420	1.89082425
OR13C4	0.24701770	0.24389877	1.89051757
SEMA3B	0.24703397	0.24389877	1.89065023
PDLIM4	-0.24701387	0.24389877	-1.89048637
DULLARD	0.24696798	0.24398291	1.89011236
GJB7	-0.24696104	0.24398291	-1.89005582
LMOD2	0.24694963	0.24398291	1.88996284
RCBTB1	-0.24695222	0.24398291	-1.88998389
KCNQ1DN	0.24691136	0.24405112	1.88965087
SPRR2G	0.24691930	0.24405112	1.88971560
KCNH2	0.24688985	0.24409529	1.88947556
DRD5	0.24686517	0.24413352	1.88927445
IL1RL1	0.24685866	0.24413352	1.88922138
BRD3	0.24683538	0.24418521	1.88903166
C20orf30	0.24680082	0.24428472	1.88875002
COMMD1	-0.24673329	0.24428932	-1.88819971
LOC220077	0.24678455	0.24428932	1.88861743
ACTL6B	0.24673880	0.24428932	1.88824459
TMPRSS3	-0.24674722	0.24428932	-1.88831323
KCNAB1	0.24674965	0.24428932	1.88833303
SLC16A5	-0.24674398	0.24428932	-1.88828682
FLJ11235	0.24667042	0.24450889	1.88768745
ADAM17	-0.24665920	0.24450954	-1.88759600
PCDHGA7	0.24663362	0.24457110	1.88738754
WFDC2	-0.24661325	0.24461057	-1.88722155
ATG3	-0.24655061	0.24482941	-1.88671116

CYB5A	-0.24652458	0.24484596	-1.88649910
RHBDD3	0.24652938	0.24484596	1.88653822
C3orf54	0.24643559	0.24517688	1.88577408
STK11IP	-0.24641788	0.24520201	-1.88562982
CYYR1	0.24635227	0.24520201	1.88509532
CCDC140	0.24635266	0.24520201	1.88509845
MAFF	0.24638008	0.24520201	1.88532185
SERINC5	-0.24637345	0.24520201	-1.88526786
IGFBPL1	0.24640093	0.24520201	1.88549170
GPRASP1	0.24637982	0.24520201	1.88531970
C8orf74	0.24632767	0.24525960	1.88489487
TBPL2	0.24625587	0.24551779	1.88431001
C14orf33	0.24620698	0.24552135	1.88391174
CTBS	-0.24615564	0.24552135	-1.88349362
METT5D1	-0.24616434	0.24552135	-1.88356446
NT5C2	-0.24619209	0.24552135	-1.88379052
GALR1	0.24615743	0.24552135	1.88350818
C10orf12	-0.24618631	0.24552135	-1.88374343
NCRNA00166	-0.24623906	0.24552135	-1.88417312
LOC440461	0.24616973	0.24552135	1.88360838
SPAG6	-0.24622267	0.24552135	-1.88403956
PLEKHA9	0.24608665	0.24553330	1.88293164
PPHLN1	-0.24612262	0.24553330	-1.88322462
SDHB	-0.24609023	0.24553330	-1.88296082
LEPRE1	0.24609957	0.24553330	1.88303688
TULP3	-0.24610616	0.24553330	-1.88309060
SERTAD2	-0.24610364	0.24553330	-1.88307004
TMEM210	0.24606331	0.24558561	1.88274161
POR	-0.24604573	0.24561351	-1.88259837
FLJ43093	0.24601198	0.24571013	1.88232349
ADCK2	-0.24597559	0.24581798	-1.88202719
LOC729245	0.24595610	0.24585402	1.88186843
TAGLN2	-0.24594478	0.24585529	-1.88177624

yes

NLRP4	0.24581907	0.24593367	1.88075254
AIFM3	0.24586125	0.24593367	1.88109602
ADAMTS16	0.24584799	0.24593367	1.88098801
APLF	0.24580525	0.24593367	1.88063997
FCN2	0.24587380	0.24593367	1.88119823
DNTTIP2	-0.24583638	0.24593367	-1.88089347
C2orf53	0.24583941	0.24593367	1.88091812
MAG	0.24586004	0.24593367	1.88108619
NFKBIA	0.24580945	0.24593367	1.88067422
BCL2	0.24590121	0.24593367	1.88142143
LOC84856	0.24585935	0.24593367	1.88108051
SUSD5	0.24574471	0.24595022	1.88014702
SUMF1	-0.24572655	0.24595022	-1.87999920
RSPO2	0.24573468	0.24595022	1.88006535
ASAP1	0.24576639	0.24595022	1.88032355
STAU1	-0.24575279	0.24595022	-1.88021287
VEZF1	-0.24572439	0.24595022	-1.87998160
ARPM1	0.24578139	0.24595022	1.88044568
STAB1	0.24565837	0.24596566	1.87944403
MPG	0.24564419	0.24596566	1.87932854
GIN1	-0.24567058	0.24596566	-1.87954341
FER1L6	-0.24566148	0.24596566	-1.87946937
ZIC1	0.24564342	0.24596566	1.87932233
C11orf80	-0.24570842	0.24596566	-1.87985154
IFITM1	0.24563290	0.24596566	1.87923666
CD4	-0.24568619	0.24596566	-1.87967051
GABARAP	-0.24558853	0.24606096	-1.87887544
C2orf81	-0.24559931	0.24606096	-1.87896318
SOCS2	0.24557508	0.24607153	1.87876588
ATP6AP2	-0.24551858	0.24613736	-1.87830594
C1orf43	-0.24553525	0.24613736	-1.87844167
ISYNA1	0.24551635	0.24613736	1.87828779
MLLT10	-0.24551572	0.24613736	-1.87828262

LOC284067	0.24550059	0.24615506	1.87815947
KRTAP8-1	0.24544309	0.24635299	1.87769138
HTATIP2	-0.24540056	0.24635858	-1.87734513
EGR4	0.24541629	0.24635858	1.87747323
C1orf192	-0.24535700	0.24635858	-1.87699058
FLJ45256	0.24535412	0.24635858	1.87696711
EXOSC1	-0.24537621	0.24635858	-1.87714694
CASZ1	-0.24542355	0.24635858	-1.87753233
SUSD4	-0.24538053	0.24635858	-1.87718208
MAP6D1	0.24536439	0.24635858	1.87705074
FAM120B	-0.24532021	0.24645625	-1.87669107
C18orf10	-0.24528750	0.24650226	-1.87642481
GDAP2	-0.24529076	0.24650226	-1.87645138
LOC100128653	0.24526496	0.24650500	1.87624138
SYAP1	-0.24526696	0.24650500	-1.87625767
AK1	-0.24523710	0.24654226	-1.87601465
UTP3	-0.24523432	0.24654226	-1.87599198
LOC100129648	0.24515121	0.24660598	1.87531555
KLF2	0.24512870	0.24660598	1.87513237
SRGAP2	-0.24514474	0.24660598	-1.87526288
ALPL	-0.24516777	0.24660598	-1.87545031
OR10A3	0.24513346	0.24660598	1.87517107
GLI4	0.24507809	0.24660598	1.87472044
SMAD2	-0.24512078	0.24660598	-1.87506792
TRIB3	0.24516922	0.24660598	1.87546211
MRPL1	-0.24517987	0.24660598	-1.87554879
SCARNA22	0.24506905	0.24660598	1.87464691
DNAJC7	-0.24516886	0.24660598	-1.87545917
WNT8A	0.24506632	0.24660598	1.87462472
ALDH1A2	0.24508334	0.24660598	1.87476316
CDC123	-0.24509274	0.24660598	-1.87483968
C1orf71	-0.24504673	0.24664289	-1.87446524
C11orf42	0.24502620	0.24667802	1.87429821

CAND2	0.24499650	0.24667802	1.87405646	
FTL	-0.24499139	0.24667802	-1.87401491	
SIGLEC7	0.24497300	0.24667802	1.87386522	
LPP	0.24499762	0.24667802	1.87406559	
RNASEK	-0.24498111	0.24667802	-1.87393122	
FLJ44881	0.24493183	0.24676345	1.87353026	
ZNF585B	-0.24493110	0.24676345	-1.87352430	
NKIRAS1	-0.24490847	0.24681336	-1.87334010	
CXorf55	0.24485292	0.24681782	1.87288812	
GAST	0.24487909	0.24681782	1.87310106	
C8orf79	-0.24489446	0.24681782	-1.87322611	
SYT7	0.24486651	0.24681782	1.87299874	
NDST3	0.24485376	0.24681782	1.87289499	
ZNRF3	0.24483822	0.24683399	1.87276853	
C1orf68	0.24476955	0.24686605	1.87220978	
TRIM50	0.24479942	0.24686605	1.87245282	
WSCD1	0.24478144	0.24686605	1.87230650	
EXD3	0.24476866	0.24686605	1.87220256	yes
SLC25A40	-0.24476820	0.24686605	-1.87219879	
GPR68	0.24476535	0.24686605	1.87217561	
SHD	0.24472874	0.24697547	1.87187778	
CLCA1	0.24471425	0.24699086	1.87175982	
ADH7	-0.24461257	0.24701541	-1.87093261	
ZNF579	0.24459973	0.24701541	1.87082816	
HKR1	-0.24466488	0.24701541	-1.87135816	
FAM55D	0.24460915	0.24701541	1.87090483	
CYSLTR2	0.24463916	0.24701541	1.87114895	
MFSD1	-0.24465062	0.24701541	-1.87124218	
KRTAP1-3	0.24461756	0.24701541	1.87097324	
MYOM1	0.24463349	0.24701541	1.87110281	
VNN1	-0.24468572	0.24701541	-1.87152773	
KIAA0141	0.24468997	0.24701541	1.87156230	
PRSS35	0.24457168	0.24708853	1.87059995	

LETM2	-0.24450637	0.24727400	-1.87006866	
TAAR6	0.24451487	0.24727400	1.87013781	
ZFP64	-0.24446034	0.24737748	-1.86969422	
LST1	0.24447063	0.24737748	1.86977795	
SUSD1	-0.24444604	0.24739212	-1.86957790	
LOC440419	0.24440469	0.24743030	1.86924160	
SERPINB6	-0.24442440	0.24743030	-1.86940193	
C3orf15	-0.24440450	0.24743030	-1.86924002	
DSCR9	0.24438929	0.24744883	1.86911633	
LYN	-0.24436938	0.24748740	-1.86895437	
FIP1L1	-0.24435733	0.24749252	-1.86885632	
PHF7	-0.24433740	0.24753116	-1.86869428	
OR10A5	0.24427270	0.24759201	1.86816802	
DRD4	0.24423486	0.24759201	1.86786029	
ECM2	0.24424318	0.24759201	1.86792792	
SLC6A18	0.24423353	0.24759201	1.86784942	
KCNG1	0.24422253	0.24759201	1.86775999	
LECT2	0.24421374	0.24759201	1.86768848	
LMX1B	0.24429490	0.24759201	1.86834862	
PON2	-0.24422413	0.24759201	-1.86777301	
RAB6C	0.24420386	0.24759201	1.86760816	
NPFF	0.24424971	0.24759201	1.86798102	
TNFRSF8	0.24420995	0.24759201	1.86765765	
RPS16P1	0.24416067	0.24768234	1.86725687	
BRUNOL5	0.24415106	0.24768234	1.86717874	
SOCS1	0.24415016	0.24768234	1.86717141	
RNF141	-0.24410974	0.24780835	-1.86684277	
CES4	-0.24408219	0.24787963	-1.86661868	
PIK3R5	0.24403700	0.24789214	1.86625125	
TMEM52	0.24406221	0.24789214	1.86645620	
GPR107	-0.24405360	0.24789214	-1.86638620	
SCN7A	0.24403596	0.24789214	1.86624274	
RP2	-0.24402019	0.24791320	-1.86611455	yes

ZPLD1	0.24389603	0.24839649	1.86510497
OR4D5	0.24385439	0.24848845	1.86476642
TRPC3	0.24385284	0.24848845	1.86475380
KIAA1239	0.24382634	0.24855538	1.86453837
USP43	-0.24372871	0.24878753	-1.86374464
TCF23	0.24373762	0.24878753	1.86381705
GLB1	-0.24374207	0.24878753	-1.86385320
PRR17	0.24374668	0.24878753	1.86389068
PDIA5	0.24371239	0.24881106	1.86361194
SLC2A2	0.24368913	0.24886427	1.86342279
XPO1	-0.24365314	0.24897183	-1.86313026
DFFB	0.24361666	0.24908154	1.86283373
LYG2	0.24354516	0.24931843	1.86225253
ACCN1	0.24353965	0.24931843	1.86220768
NAALADL1	0.24332395	0.24934699	1.86045456
KHDRBS1	-0.24344226	0.24934699	-1.86141609
MASP2	0.24333962	0.24934699	1.86058190
CHL1	-0.24343707	0.24934699	-1.86137389
OR10AD1	0.24331736	0.24934699	1.86040093
ZNF792	0.24331711	0.24934699	1.86039894
R3HDML	0.24349513	0.24934699	1.86184586
CDC42EP5	0.24337190	0.24934699	1.86084427
ALDOC	0.24338085	0.24934699	1.86091696
GCNT1	-0.24343422	0.24934699	-1.86135072
HSP90AA1	-0.24337676	0.24934699	-1.86088372
ATP2A2	-0.24344738	0.24934699	-1.86145772
OMD	0.24331863	0.24934699	1.86041129
SLC45A1	0.24345919	0.24934699	1.86155367
ZSCAN2	0.24348697	0.24934699	1.86177947
MRPS22	-0.24331813	0.24934699	-1.86040719
PTPRS	0.24333067	0.24934699	1.86050912
POLR3D	0.24335215	0.24934699	1.86068375
UXS1	-0.24348534	0.24934699	-1.86176621

yes

TKTL1	0.24350261	0.24934699	1.86190666	
AFAP1L1	0.24325997	0.24954526	1.85993454	
RESP18	0.24324545	0.24956124	1.85981660	
HIF1A	0.24320033	0.24966211	1.85944987	
KIAA0196	-0.24320565	0.24966211	-1.85949309	
ACER1	0.24307825	0.24969546	1.85845790	
DUSP15	0.24318115	0.24969546	1.85929401	
IGFL2	0.24310597	0.24969546	1.85868313	
UTS2D	0.24313389	0.24969546	1.85891001	
ARL10	0.24307667	0.24969546	1.85844500	yes
PCDH8	0.24313227	0.24969546	1.85889684	
C2orf42	-0.24310070	0.24969546	-1.85864030	
NPFFR1	0.24313614	0.24969546	1.85892829	yes
PRHOXNB	0.24316030	0.24969546	1.85912464	
TSPAN7	0.24312634	0.24969546	1.85884861	
KCNB2	0.24307412	0.24969546	1.85842429	
SCML2	0.24298020	0.24973553	1.85766114	
SIVA1	0.24297159	0.24973553	1.85759120	
C13orf30	-0.24295726	0.24973553	-1.85747482	
EPHB2	0.24298239	0.24973553	1.85767894	
GBP3	-0.24302889	0.24973553	-1.85805682	
GSR	-0.24304079	0.24973553	-1.85815345	
APOA1	0.24295766	0.24973553	1.85747808	
XKR5	0.24304183	0.24973553	1.85816192	
NTF4	0.24301730	0.24973553	1.85796260	
ZNF623	-0.24297500	0.24973553	-1.85761892	
SOX9	0.24290498	0.24991323	1.85705003	

genename	r-value	FDR	t-value	CMH-associated
PDZK1IP1	0.59071717	0.00202303	5.42941070	
ADORA2A	0.58926838	0.00202303	5.40899765	
GLYATL2	0.59225696	0.00202303	5.45119429	
PTGR1	-0.59743646	0.00202303	-5.52514978	yes
ARHGAP26	0.60049994	0.00202303	5.56939554	
FCRL6	0.61871352	0.00202303	5.84063747	
RHOH	0.59468044	0.00202303	5.48566627	
P2RX1	0.59641520	0.00202303	5.51048365	
MGC29506	0.60174200	0.00202303	5.58744330	
ATP10A	0.59476249	0.00202303	5.48683740	
PTPN13	-0.58910161	0.00202303	-5.40665305	
C2	0.62018551	0.00202303	5.86320154	
ACY3	0.59216793	0.00202303	5.44993233	
CD5	0.59410730	0.00202303	5.47749304	
ACAP1	0.58165595	0.00275080	5.30303760	
GPR114	0.58024811	0.00276616	5.28367516	
FAM101B	0.57271439	0.00291148	5.18125989	yes
FAM20A	0.57434469	0.00291148	5.20325386	
LPCAT1	0.57683621	0.00291148	5.23704511	
DERL3	0.57608437	0.00291148	5.22682545	
RASAL2	-0.57288175	0.00291148	-5.18351345	
SLC12A6	-0.57307147	0.00291148	-5.18606927	
GFI1	0.57116410	0.00300160	5.16043016	
mei-01	0.56901132	0.00314629	5.13164124	
SEP1	0.56844605	0.00314629	5.12410776	
CCDC80	-0.56628658	0.00329371	-5.09542688	
ZBP1	0.56586639	0.00329371	5.08986411	
IL21R	0.56469993	0.00335621	5.07445237	
TMC8	0.56312816	0.00348939	5.05375602	
MYO1E	-0.55959512	0.00397806	-5.00752664	
BNIP1	-0.55630684	0.00423737	-4.96485719	
FKBP11	0.55616297	0.00423737	4.96299811	

DAPL1	-0.55623218	0.00423737	-4.96389236	
SH3D19	-0.55387562	0.00443591	-4.93352670	
CST7	0.55426347	0.00443591	4.93851257	
ERN1	0.54867313	0.00491025	4.86709208	
GRHL1	-0.54957102	0.00491025	-4.87849949	
IL18	-0.54869889	0.00491025	-4.86741893	
NKG7	0.54952351	0.00491025	4.87789521	
ZAP70	0.54906170	0.00491025	4.87202577	
UBE2L6	0.54807573	0.00492036	4.85951559	
RCOR1	-0.54660538	0.00496139	-4.84091330	
PLCE1	-0.54687479	0.00496139	-4.84431695	
CD79A	0.54630637	0.00496139	4.83713821	
LMO7	-0.54372444	0.00520746	-4.80464940	
CFB	0.54470436	0.00520746	4.81695698	
FATE1	0.54404784	0.00520746	4.80870817	
AHNAK2	-0.54205121	0.00548848	-4.78369860	
MTSS1	-0.54094773	0.00564271	-4.76992575	
TMEM149	0.53975693	0.00582481	4.75510226	
ABI3	0.53830122	0.00608352	4.73703568	
FASLG	0.53735396	0.00609899	4.72531144	
JAK3	0.53767975	0.00609899	4.72934086	
TGM3	-0.53619548	0.00622171	-4.71100719	
AGPAT9	-0.53603334	0.00622171	-4.70900814	
CACNA1E	0.53364745	0.00676887	4.67967655	
CYTH4	0.53246948	0.00694575	4.66525263	
ANXA1	-0.53142066	0.00694575	-4.65244188	
NCF4	0.53217637	0.00694575	4.66166948	
CLDN11	0.53172369	0.00694575	4.65614014	yes
LY9	0.53038985	0.00713673	4.63988022	
SRGAP2	-0.52913475	0.00733658	-4.62462395	
CD74	0.52897039	0.00733658	4.62262925	
MTNR1A	0.52849633	0.00736738	4.61687998	
ZBTB44	-0.52779712	0.00747012	-4.60841099	

IRF4	0.52660560	0.00773314	4.59400898	
ARRDC4	-0.52493622	0.00816646	-4.57389392	
HLA-DMA	0.52215762	0.00902670	4.54057463	
C17orf60	0.52134376	0.00919879	4.53085309	
SNX20	0.52008743	0.00954678	4.51587963	
NLRC5	0.51853047	0.01003006	4.49737876	
KCTD14	0.51784680	0.01016972	4.48927434	
SH2D3C	0.51349331	0.01019783	4.43794045	
BATF2	0.51627847	0.01019783	4.47072716	
GAB3	0.51340975	0.01019783	4.43695975	
ESR2	0.51488446	0.01019783	4.45429301	
HMHA1	0.51603779	0.01019783	4.46788629	
GZMH	0.51502933	0.01019783	4.45599868	
HOXB2	0.51532299	0.01019783	4.45945764	
IGHA2	0.51410211	0.01019783	4.44509090	
KRT10	-0.51324158	0.01019783	-4.43498655	
LAIR1	0.51655882	0.01019783	4.47403812	
GPRC5B	0.51308709	0.01019783	4.43317451	
SLC26A4	0.51432265	0.01019783	4.44768340	
C11orf57	-0.51524919	0.01019783	-4.45858818	
PARVG	0.51694913	0.01019783	4.47865090	
CAST	-0.51345750	0.01019783	-4.43752013	yes
RASAL3	0.51235256	0.01038251	4.42456686	
ABCC5	-0.51127644	0.01071601	-4.41198002	
SEMA3A	-0.50931971	0.01076730	-4.38916493	yes
SLC2A6	0.50997340	0.01076730	4.39677651	yes
CTSW	0.50937353	0.01076730	4.38979121	
GBP6	-0.50872679	0.01076730	-4.38226983	
TMEM154	-0.50890325	0.01076730	-4.38432095	yes
MRAS	0.50883709	0.01076730	4.38355189	
PELI1	-0.50980194	0.01076730	-4.39477902	
SLC20A2	-0.51047419	0.01076730	-4.40261476	
MIA	0.50910692	0.01076730	4.38668945	

ELOVL6	-0.50828925	0.01084421	-4.37718701	
SLC5A8	0.50800439	0.01085703	4.37388024	
ZNF831	0.50591968	0.01087189	4.34973939	
CSF1	0.50703463	0.01087189	4.36263772	
DENND2C	-0.50577515	0.01087189	-4.34806955	
LASS6	-0.50643167	0.01087189	-4.35565864	yes
ACTBL2	0.50762503	0.01087189	4.36947959	
P2RX5	0.50699275	0.01087189	4.36215264	
PARD3	-0.50591869	0.01087189	-4.34972794	
FKSG24	0.50600954	0.01087189	4.35077779	
SLC13A2	0.50582033	0.01087189	4.34859151	
IDO1	0.50507620	0.01102599	4.34000110	
BRCA1	-0.50494987	0.01102599	-4.33854400	
RCSD1	0.50419464	0.01125410	4.32984093	
BTN2A2	0.50319095	0.01139672	4.31829535	
TRPV2	0.50352861	0.01139672	4.32217684	yes
LIMD2	0.50323682	0.01139672	4.31882244	
ZNF846	-0.50263080	0.01154664	-4.31186206	
PSD3	-0.50240530	0.01154840	-4.30927420	yes
IGHV3-9	0.50070666	0.01222700	4.28981849	
HLA-DOB	0.50044432	0.01224735	4.28681972	
MAP4K1	0.49899659	0.01262922	4.27029870	
MPP7	-0.49910250	0.01262922	-4.27150577	
RALGPS2	-0.49941329	0.01262922	-4.27504911	yes
BARD1	-0.49814576	0.01283676	-4.26061164	
FCGBP	0.49831695	0.01283676	4.26255936	
MUC5B	0.49778267	0.01291190	4.25648268	
PHACTR4	-0.49724211	0.01301665	-4.25034108	
CD8A	0.49715461	0.01301665	4.24934752	
ALDH1A1	-0.49687404	0.01305370	-4.24616294	
RAC2	0.49637747	0.01314925	4.24053108	
SLC9A2	-0.49587255	0.01314925	-4.23481010	
THR8	-0.49590973	0.01314925	-4.23523122	

SYVN1	0.49609560	0.01314925	4.23733670	
IGHG3	0.49561158	0.01318022	4.23185552	
UGT2A1	-0.49505247	0.01336193	-4.22553038	
ZNF675	-0.49347660	0.01342098	-4.20774039	
IL2RB	0.49429656	0.01342098	4.21699005	
ITGB8	-0.49324365	0.01342098	-4.20511530	
TMPRSS11F	-0.49391700	0.01342098	-4.21270657	
LCP2	0.49321348	0.01342098	4.20477547	
KIAA1305	-0.49359923	0.01342098	-4.20912284	
SAA1	0.49335129	0.01342098	4.20632820	
SLC5A1	0.49394308	0.01342098	4.21300079	
CLDN8	-0.49462829	0.01342098	-4.22073649	
PIGU	-0.49248959	0.01369548	-4.19662603	yes
PIM2	0.49200084	0.01373573	4.19113022	
SERPINA3	0.49207685	0.01373573	4.19198455	yes
EIF4G3	-0.49186179	0.01373573	-4.18956763	yes
SH2B3	0.49120835	0.01375443	4.18223018	
CSF3	0.49052927	0.01375443	4.17461475	
KIF21B	0.49046709	0.01375443	4.17391791	
PRF1	0.48999846	0.01375443	4.16866891	
SORT1	-0.49009241	0.01375443	-4.16972086	
LOC646057	0.49075076	0.01375443	4.17709743	
RASSF4	0.48989425	0.01375443	4.16750233	
CD3D	0.49001621	0.01375443	4.16886767	
CD3E	0.49093860	0.01375443	4.17920387	
SLK	-0.49096443	0.01375443	-4.17949360	
PHACTR2	-0.49037651	0.01375443	-4.17290301	
LOC100130100	0.48970806	0.01376302	4.16541869	
GZMB	0.48909005	0.01385669	4.15850774	
C1RL	0.48902313	0.01385669	4.15775991	
KIF21A	-0.48922281	0.01385669	-4.15999160	
TNFRSF6B	0.48793596	0.01433838	4.14562398	
TNFRSF10D	0.48761539	0.01442103	4.14205043	yes

PITPNC1	0.48658125	0.01480295	4.13053711	
SKP2	-0.48657948	0.01480295	-4.13051741	yes
ICAM1	0.48611547	0.01487896	4.12535888	
PLAC8	-0.48613662	0.01487896	-4.12559397	yes
IL12RB1	0.48593397	0.01489008	4.12334238	
UBD	0.48508624	0.01491989	4.11393297	
RARRES1	0.48532778	0.01491989	4.11661245	
ERMP1	-0.48524547	0.01491989	-4.11569922	
UXS1	-0.48516251	0.01491989	-4.11477891	
TTYH3	0.48518144	0.01491989	4.11498896	
SYTL2	-0.48467513	0.01497447	-4.10937531	
RUNX3	0.48478969	0.01497447	4.11064500	
TBC1D10C	0.48404675	0.01515091	4.10241586	
SFMBT2	0.48405377	0.01515091	4.10249362	
WDR47	-0.48375161	0.01517713	-4.09915001	yes
GATA3	0.48369392	0.01517713	4.09851182	
SNTG2	0.48289497	0.01548935	4.08968115	
ZNF823	-0.48283328	0.01548935	-4.08899985	yes
DAAM1	-0.48267318	0.01549485	-4.08723209	
TMTC3	-0.48160758	0.01586281	-4.07547974	
IL2RG	0.48143315	0.01586281	4.07355822	
FMNL1	0.48154257	0.01586281	4.07476351	
DGKD	0.48167123	0.01586281	4.07618111	
ADH7	-0.48110241	0.01593909	-4.06991653	
MAP3K4	-0.48100758	0.01593909	-4.06887282	
CD14	0.48072528	0.01601819	4.06576688	
ADD3	-0.48046472	0.01608534	-4.06290148	
EFCAB4B	0.48003621	0.01625145	4.05819234	
HSPA4L	-0.47980184	0.01626093	-4.05561824	yes
FLJ45422	0.47973319	0.01626093	4.05486450	
STAT1	0.47946440	0.01633524	4.05191409	
TRAF1	0.47882263	0.01636071	4.04487577	
JHDM1D	-0.47896454	0.01636071	-4.04643141	yes

EPSTI1	0.47871854	0.01636071	4.04373506	
CHST2	0.47912147	0.01636071	4.04815212	
SERTAD2	-0.47896585	0.01636071	-4.04644579	
MSC	0.47840150	0.01646604	4.04026189	
FGD2	0.47793557	0.01649779	4.03516131	
BCL3	0.47814661	0.01649779	4.03747095	
TTYH2	0.47806090	0.01649779	4.03653284	
PIK3R5	0.47744528	0.01654724	4.02979873	
FAM159A	0.47769190	0.01654724	4.03249559	
ADAM19	0.47751632	0.01654724	4.03057548	
LCN2	0.47703776	0.01662994	4.02534528	
VANGL1	-0.47706420	0.01662994	-4.02563416	
STAB1	0.47605510	0.01683559	4.01462024	
HLA-DMB	0.47603270	0.01683559	4.01437599	
HLA-F	0.47624085	0.01683559	4.01664614	
ZBTB8OS	-0.47624899	0.01683559	-4.01673492	
MYO1G	0.47606339	0.01683559	4.01471070	
FADS3	0.47588517	0.01684574	4.01276763	yes
IKZF3	0.47528762	0.01712876	4.00625729	
FICD	0.47505608	0.01719095	4.00373669	
ST6GALNAC2	-0.47397178	0.01770300	-3.99194655	
BTN3A1	0.47402856	0.01770300	3.99256344	
LAX1	0.47368042	0.01780551	3.98878249	
TIGIT	0.47289808	0.01796122	3.98029491	
EXPH5	-0.47286232	0.01796122	-3.97990721	yes
HECTD1	-0.47280919	0.01796122	-3.97933126	yes
HLA-G	0.47299352	0.01796122	3.98132964	
TF	0.47279941	0.01796122	3.97922525	
ARHGAP9	0.47259468	0.01801157	3.97700654	
RAET1E	-0.47244236	0.01802894	-3.97535630	
TFDP1	-0.47191910	0.01828426	-3.96969102	
GRAMD1A	0.47123392	0.01864896	3.96228064	
FOXP2	-0.47102277	0.01870625	-3.95999889	

SLC9A4	-0.47072792	0.01873810	-3.95681409	
PLAUR	0.47083880	0.01873810	3.95801151	
AFF3	0.47015487	0.01903664	3.95062920	
PML	0.47002867	0.01903932	3.94926799	
CSF2RB	0.46941372	0.01906621	3.94263957	
PHLPP	-0.46959711	0.01906621	-3.94461546	
IGKV4-1	0.46946045	0.01906621	3.94314294	
ITGAE	0.46962264	0.01906621	3.94489065	
PLEKHA5	-0.46938445	0.01906621	-3.94232417	
DLAT	-0.46886251	0.01910231	-3.93670435	yes
ITGAL	0.46885537	0.01910231	3.93662748	
PNOC	0.46913103	0.01910231	3.93959497	
CD6	0.46894984	0.01910231	3.93764424	
TNFSF13B	0.46794662	0.01944780	3.92685554	
CTRL	0.46787297	0.01944780	3.92606430	
IGLV6-57	0.46816610	0.01944780	3.92921416	
TNIP3	0.46803248	0.01944780	3.92777810	
PSMB9	0.46773237	0.01946441	3.92455398	
NSFL1C	-0.46739042	0.01961817	-3.92088251	
UBASH3A	0.46708457	0.01974845	3.91760047	
KCNA3	0.46656184	0.01996937	3.91199535	
LOC440786	0.46653434	0.01996937	3.91170066	
MUC15	-0.46616796	0.02014457	-3.90777536	yes
C1orf38	0.46559707	0.02046556	3.90166409	
SLAMF1	0.46536184	0.02047141	3.89914782	
SYT7	0.46542034	0.02047141	3.89977350	
ARHGAP4	0.46516333	0.02053204	3.89702509	
C18orf10	-0.46476775	0.02065348	-3.89279743	
SGPL1	-0.46477784	0.02065348	-3.89290523	
CLOCK	-0.46456418	0.02071893	-3.89062301	
LTF	0.46386613	0.02114153	3.88317266	
TNFRSF1B	0.46369752	0.02118327	3.88137450	
IKZF1	0.46236241	0.02118828	3.86715472	

LRG1	0.46298487	0.02118828	3.87378011	
RLTPR	0.46202699	0.02118828	3.86358752	
EYA1	-0.46200823	0.02118828	-3.86338808	
TRAK1	-0.46241445	0.02118828	-3.86770831	
SEP6	0.46227438	0.02118828	3.86621832	
ACAP2	-0.46330242	0.02118828	-3.87716293	
IGHA1	0.46310916	0.02118828	3.87510388	
MAOA	-0.46261478	0.02118828	-3.86984005	
NFATC2	0.46195677	0.02118828	3.86284098	
CHDH	0.46321203	0.02118828	3.87619981	
PRIM2	-0.46282042	0.02118828	-3.87202897	
WDFY4	0.46245084	0.02118828	3.86809552	
RGNEF	-0.46320564	0.02118828	-3.87613171	
SCARNA16	0.46211136	0.02118828	3.86448459	yes
OBFC1	-0.46185636	0.02118828	-3.86177364	
SERAC1	-0.46230667	0.02118828	-3.86656177	
FAM119B	0.46144907	0.02140836	3.85744634	
FCRL5	0.46099763	0.02166322	3.85265339	
C3orf57	-0.46083734	0.02170464	-3.85095254	
LILRB2	0.46058329	0.02172533	3.84825784	
DMBT1	0.46000659	0.02172533	3.84214505	
GPR132	0.46011244	0.02172533	3.84326661	
LOXL2	0.45998720	0.02172533	3.84193971	
CD244	0.46054668	0.02172533	3.84786963	
PRKCQ	0.46023283	0.02172533	3.84454240	
PPP4R4	-0.46003441	0.02172533	-3.84243977	
ORMDL3	0.46041809	0.02172533	3.84650613	
PIK3AP1	0.45922244	0.02210280	3.83384332	
HLA-H	0.45926496	0.02210280	3.83429321	
CRELD2	0.45917645	0.02210280	3.83335681	
GJA4	0.45859989	0.02231022	3.82726054	
USP30	-0.45865422	0.02231022	-3.82783476	
HERPUD1	0.45863707	0.02231022	3.82765352	

FES	0.45827938	0.02232251	3.82387437	
BEX5	0.45818666	0.02232251	3.82289509	
FLJ44606	-0.45827781	0.02232251	-3.82385778	
NAT5	-0.45821803	0.02232251	-3.82322638	
OTUD7B	-0.45805675	0.02234623	-3.82152328	
ALOX5	0.45771651	0.02252957	3.81793210	
CXorf65	0.45744561	0.02258681	3.81507422	
WIPF1	0.45745287	0.02258681	3.81515079	
IGKC	0.45715129	0.02273719	3.81197083	
RRM1	-0.45698854	0.02278745	-3.81025543	
ERLIN1	-0.45648964	0.02281666	-3.80499998	yes
LAYN	-0.45624717	0.02281666	-3.80244743	
METAP1	-0.45651024	0.02281666	-3.80521692	
APBA2	0.45635488	0.02281666	3.80358120	
HSPB1	-0.45618306	0.02281666	-3.80177266	
POU2AF1	0.45638444	0.02281666	3.80389235	
DNAJC7	-0.45653919	0.02281666	-3.80552174	
RAB11FIP1	-0.45662588	0.02281666	-3.80643468	
BIN1	0.45577807	0.02283839	3.79751209	
GPRIN3	0.45578563	0.02283839	3.79759164	
IGHM	0.45600364	0.02283839	3.79988481	
ZNF185	-0.45577761	0.02283839	-3.79750722	
LILRB4	0.45548844	0.02295479	3.79446693	
GARNL4	0.45516045	0.02295479	3.79102028	
TBXAS1	0.45541908	0.02295479	3.79373786	
RIN3	0.45517451	0.02295479	3.79116799	
CD27	0.45528619	0.02295479	3.79234135	
ATP7A	-0.45493908	0.02298320	-3.78869516	
TAP1	0.45502354	0.02298320	3.78958216	
C10orf10	0.45393888	0.02308660	3.77820071	
CDYL2	0.45461022	0.02308660	3.78524264	
ATF5	0.45368200	0.02308660	3.77550832	
RACGAP1	-0.45400615	0.02308660	-3.77890597	

C8orf80	0.45426656	0.02308660	3.78163686	
CIITA	0.45376218	0.02308660	3.77634854	
CHMP5	-0.45393703	0.02308660	-3.77818127	yes
C20orf111	-0.45363020	0.02308660	-3.77496560	
UBL3	-0.45429141	0.02308660	-3.78189747	yes
TRERF1	-0.45384599	0.02308660	-3.77722696	
ZFYVE28	0.45381073	0.02308660	3.77685742	
SLA2	0.45418626	0.02308660	3.78079458	
CD2	0.45400322	0.02308660	3.77887526	
CENPK	-0.45326847	0.02329753	-3.77117661	
SIRT5	-0.45286504	0.02347532	-3.76695358	
STRBP	-0.45286316	0.02347532	-3.76693397	yes
ADARB2	0.45258200	0.02347946	3.76399255	
CLPX	-0.45242682	0.02347946	-3.76236970	
CD109	-0.45268478	0.02347946	-3.76506763	
MYO7A	0.45233285	0.02347946	3.76138722	
RFC5	-0.45246903	0.02347946	-3.76281116	
USP46	-0.45239566	0.02347946	-3.76204389	yes
LOC441108	0.45222980	0.02349221	3.76030996	
KRT80	-0.45211756	0.02351229	-3.75913684	
COPG2	-0.45158072	0.02379805	-3.75352909	
SLAMF8	0.45164809	0.02379805	3.75423259	
EVL	0.45149209	0.02380019	3.75260372	
C20orf11	-0.45139800	0.02380681	-3.75162160	
AGAP2	0.45092230	0.02398057	3.74665822	
SIPA1L1	-0.45099583	0.02398057	-3.74742513	
MRPS9	-0.45097520	0.02398057	-3.74721002	
HAPLN3	0.45079636	0.02401313	3.74534485	
BPIL3	0.45026401	0.02430641	3.73979640	
CCL28	0.45025944	0.02430641	3.73974880	
S100A10	-0.45007649	0.02438557	-3.73784319	
SAA2	0.44998605	0.02439063	3.73690129	
SAA4	0.44990145	0.02439115	3.73602050	

ST3GAL1	0.44965503	0.02452219	3.73345540	
C10orf125	0.44940457	0.02458969	3.73084939	
TJP1	-0.44947244	0.02458969	-3.73155546	
WEE1	-0.44924802	0.02464911	-3.72922106	
DENND1C	0.44892567	0.02484378	3.72586956	
LRRFIP1	-0.44855699	0.02507801	-3.72203855	
KRT4	-0.44838848	0.02514870	-3.72028826	
GZMA	0.44804269	0.02527493	3.71669838	
PRDX1	-0.44794851	0.02527493	-3.71572096	
C3	0.44790674	0.02527493	3.71528752	
IRX1	0.44795847	0.02527493	3.71582433	
MBOAT2	-0.44734949	0.02565886	-3.70950784	
GNG7	0.44728254	0.02565886	3.70881384	
HLA-DQA2	0.44706507	0.02577312	3.70656002	
ZDHC13	-0.44652668	0.02616045	-3.70098381	yes
TSC22D1	-0.44635477	0.02623408	-3.69920440	
GFPT2	0.44627816	0.02623408	3.69841160	
FGD3	0.44599687	0.02640589	3.69550141	
LOC100130291	-0.44590776	0.02641309	-3.69457980	
PERP	-0.44564640	0.02656894	-3.69187744	
MBOAT1	-0.44528948	0.02666956	-3.68818893	
SERPIN2	-0.44544642	0.02666956	-3.68981045	
TAP2	0.44535816	0.02666956	3.68889853	
BHLHA15	0.44507975	0.02678229	3.68602249	
AADAC	-0.44484446	0.02679255	-3.68359301	
TRPM2	0.44482940	0.02679255	3.68343761	
PRRG4	-0.44483003	0.02679255	-3.68344412	
ALDH1L2	0.44409214	0.02728943	3.67583126	
TIPARP	-0.44406193	0.02728943	-3.67551984	
SLC28A3	0.44402525	0.02728943	3.67514169	
CHRM4	0.44376214	0.02740333	3.67242973	
IGKV1D-8	0.44373920	0.02740333	3.67219332	
FAM78A	0.44361303	0.02742791	3.67089334	

SLAMF7	0.44347679	0.02742791	3.66948988	
C10orf11	0.44348327	0.02742791	3.66955661	
DKFZP564O0823	0.44322070	0.02758622	3.66685266	
IRF6	-0.44305741	0.02766249	-3.66517177	
IGKV5-2	0.44283373	0.02779316	3.66286984	
ABHD2	-0.44219578	0.02815908	-3.65630932	
JAKMIP1	0.44222234	0.02815908	3.65658236	
FAM20C	0.44224626	0.02815908	3.65682819	
ADA	0.44209394	0.02818158	3.65526267	
GPR55	0.44163563	0.02852931	3.65055454	
NEK6	0.44121927	0.02853354	3.64628048	
EYA4	-0.44117298	0.02853354	-3.64580546	
SDF2L1	0.44140357	0.02853354	3.64817207	
GCLC	-0.44133962	0.02853354	-3.64751563	yes
NDFIP2	-0.44132452	0.02853354	-3.64736067	
CD40	0.44143976	0.02853354	3.64854357	
EOMES	0.44033314	0.02924068	3.63719385	
GRHL2	-0.44020762	0.02928727	-3.63590771	
SPINK5	-0.43993094	0.02947616	-3.63307385	
PTGES	0.43955634	0.02975911	3.62923907	
LOC653052	0.43911838	0.03010532	3.62475865	
CDH12	0.43878020	0.03021306	3.62130124	
ZNF683	0.43887483	0.03021306	3.62226844	
GPX4	-0.43880570	0.03021306	-3.62156179	
MUC21	-0.43870593	0.03021306	-3.62054217	
DSP	-0.43860511	0.03023821	-3.61951188	
SCARNA6	0.43844872	0.03031707	3.61791409	
C11orf24	0.43833662	0.03035345	3.61676908	
EPHA4	-0.43787656	0.03065897	-3.61207199	
CD163L1	0.43783614	0.03065897	3.61165941	
ABHD6	-0.43779914	0.03065897	-3.61128186	yes
MOBK2A	0.43762547	0.03075628	3.60950988	
SYNPO	0.43736514	0.03093890	3.60685460	

WDHD1	-0.43712083	0.03108782	-3.60436382	
SIN3A	-0.43699052	0.03108782	-3.60303560	
ASAH1	-0.43692009	0.03108782	-3.60231792	
RBP5	0.43695676	0.03108782	3.60269154	
CTTNBP2NL	-0.43684276	0.03109207	-3.60152998	
ZNF607	-0.43666206	0.03112666	-3.59968905	yes
SMG7	-0.43671529	0.03112666	-3.60023131	yes
CDR2	0.43647831	0.03119391	3.59781776	
DOCK2	0.43644883	0.03119391	3.59751758	
LRBA	-0.43629468	0.03127476	-3.59594810	yes
KIAA1949	0.43616032	0.03133629	3.59458055	
CMTM3	0.43565778	0.03133777	3.58946799	
EPHX1	-0.43568415	0.03133777	-3.58973610	
GMPPB	0.43601876	0.03133777	3.59313995	
EXOC1	-0.43593586	0.03133777	-3.59229653	
LOC642131	0.43567549	0.03133777	3.58964803	
XPO1	-0.43574566	0.03133777	-3.59036176	
MLLT10	-0.43585623	0.03133777	-3.59148644	
DBT	-0.43526140	0.03154207	-3.58543832	
GSTA1	-0.43516844	0.03154207	-3.58449365	
FERMT3	0.43523483	0.03154207	3.58516839	
FADS2	0.43530227	0.03154207	3.58585376	
TMEM176B	0.43493774	0.03163147	3.58214991	
FLYWCH1	0.43497474	0.03163147	3.58252581	
ANKRD6	-0.43472530	0.03177335	-3.57999238	
CCT4	-0.43412011	0.03203691	-3.57385028	
RPP40	-0.43412884	0.03203691	-3.57393883	yes
IL34	0.43416624	0.03203691	3.57431828	yes
IGHV3-13	0.43411321	0.03203691	3.57378029	
IRF1	0.43437414	0.03203691	3.57642774	
GDPD5	0.43403600	0.03204470	3.57299716	
MRPS16	-0.43352147	0.03249530	-3.56778050	
CSTB	-0.43324076	0.03265603	-3.56493631	yes

SKAP1	0.43322551	0.03265603	3.56478184	
DNMBP	-0.43292652	0.03289189	-3.56175391	
FRRS1	-0.43283692	0.03291312	-3.56084680	
CAMSAP1	-0.43238073	0.03295959	-3.55623032	
GLDC	0.43248163	0.03295959	3.55725103	
ICAM3	0.43247780	0.03295959	3.55721234	
ITGB2	0.43255453	0.03295959	3.55798864	
ADM2	0.43246146	0.03295959	3.55704703	
SOCS6	-0.43241483	0.03295959	-3.55657523	
FKBP3	-0.43219033	0.03308575	-3.55430447	
TOMM34	-0.43202768	0.03316727	-3.55265986	yes
NFAM1	0.43173873	0.03316727	3.54973916	
FRG1B	-0.43170564	0.03316727	-3.54940474	
GSTM4	-0.43188495	0.03316727	-3.55121694	
SRI	-0.43174112	0.03316727	-3.54976331	yes
C1QA	0.43192845	0.03316727	3.55165667	
HLA-B	0.43147678	0.03333476	3.54709248	
HLA-A	0.43132910	0.03341851	3.54560087	
TMPRSS11B	-0.43075901	0.03361060	-3.53984614	
AOF2	-0.43067839	0.03361060	-3.53903274	
HPGD	-0.43072128	0.03361060	-3.53946544	
LCK	0.43074292	0.03361060	3.53968377	
PDCD1	0.43105896	0.03361060	3.54287331	
LGR4	-0.43092960	0.03361060	-3.54156764	
LARGE	0.43088599	0.03361060	3.54112745	
CD248	0.43032760	0.03390900	3.53549477	
NFKB2	0.43013101	0.03404658	3.53351282	
TNFAIP2	0.43003571	0.03407753	3.53255235	
PREX1	0.42989079	0.03416114	3.53109192	
PLS3	-0.42967776	0.03431737	-3.52894580	
IGHV3-35	0.42949164	0.03437573	3.52707130	
ALS2CR4	-0.42950658	0.03437573	-3.52722173	
PPP2CB	-0.42912371	0.03467358	-3.52336750	

TTC23	-0.42908197	0.03467358	-3.52294745	
MAP4K4	-0.42892820	0.03476857	-3.52140017	
ZNF117	-0.42881722	0.03481782	-3.52028371	
SLAMF6	0.42828798	0.03515482	3.51496237	
NAB1	-0.42836285	0.03515482	-3.51571490	
TMEM63C	-0.42824267	0.03515482	-3.51450695	
RMND5A	-0.42838515	0.03515482	-3.51593901	yes
GPR68	0.42808578	0.03515482	3.51293048	
B3GNT5	-0.42805190	0.03515482	-3.51259007	yes
VPS4B	-0.42810835	0.03515482	-3.51315727	
SH3BP2	0.42797161	0.03517214	3.51178348	yes
SDC4	-0.42788296	0.03519864	-3.51089301	
TMEM14A	-0.42781151	0.03520663	-3.51017537	
ZNF239	0.42746067	0.03551891	3.50665282	
PDCD6IP	-0.42703894	0.03557187	-3.50242111	yes
DSE	-0.42720468	0.03557187	-3.50408385	
ZSCAN2	0.42719423	0.03557187	3.50397897	
C11orf30	-0.42719762	0.03557187	-3.50401294	yes
EZR	-0.42703036	0.03557187	-3.50233501	yes
PLEKHO2	0.42707379	0.03557187	3.50277069	
ETFDH	-0.42690748	0.03563709	-3.50110258	
C22orf37	0.42646376	0.03591661	3.49665406	
HCK	0.42654074	0.03591661	3.49742564	
MTMR3	-0.42652359	0.03591661	-3.49725376	
APOBEC3H	0.42588789	0.03620668	3.49088537	
DAPK2	0.42599314	0.03620668	3.49193931	
IGJ	0.42596406	0.03620668	3.49164815	
PODXL2	0.42594078	0.03620668	3.49141500	
PAWR	-0.42611738	0.03620668	-3.49318364	
GRID1	0.42551804	0.03649732	3.48718321	
CDC42BPA	-0.42550193	0.03649732	-3.48702204	
LDLRAD3	0.42515548	0.03671999	3.48355606	
NAP1L4	-0.42515269	0.03671999	-3.48352814	

THRAP3	-0.42511656	0.03671999	-3.48316680	yes
GPR115	-0.42501111	0.03676882	-3.48211233	
ZMAT2	-0.42376713	0.03735305	-3.46968552	
CCNDBP1	-0.42431370	0.03735305	-3.47514258	
LY96	0.42384707	0.03735305	3.47048334	
FYN	0.42427984	0.03735305	3.47480434	
USP49	-0.42375810	0.03735305	-3.46959540	
CYP4F3	-0.42433444	0.03735305	-3.47534973	
CD180	0.42379897	0.03735305	3.47000335	
POU2F2	0.42395246	0.03735305	3.47153536	
C1QB	0.42402980	0.03735305	3.47230748	
GSTCD	-0.42377786	0.03735305	-3.46979266	
APOL6	0.42416378	0.03735305	3.47364524	
CBFA2T3	0.42388945	0.03735305	3.47090636	
CRTAM	0.42358921	0.03747615	3.46791018	
RAB7L1	0.42343007	0.03758855	3.46632262	
CASP9	-0.42336852	0.03758970	-3.46570872	
POLE3	-0.42325260	0.03765311	-3.46455265	
SH2D2A	0.42311394	0.03774277	3.46317003	
HCP5	0.42286024	0.03789571	3.46064125	
ERC1	-0.42290368	0.03789571	-3.46107416	
ARNT2	0.42279948	0.03789649	3.46003569	
ZNF580	0.42267184	0.03797430	3.45876396	
CORO1A	0.42190330	0.03813818	3.45111146	
MLKL	0.42203972	0.03813818	3.45246923	
IL15	0.42233359	0.03813818	3.45539480	
LCAT	0.42222689	0.03813818	3.45433239	
PDE4B	0.42213189	0.03813818	3.45338666	
FLVCR2	0.42208351	0.03813818	3.45290505	
RNASE1	0.42240215	0.03813818	3.45607759	yes
SNORA44	0.42187583	0.03813818	3.45083819	
THOC7	-0.42191545	0.03813818	-3.45123244	
SCEL	-0.42194400	0.03813818	-3.45151650	

CCNB1	-0.42228037	0.03813818	-3.45486491	
MRPL48	-0.42181229	0.03814356	-3.45020593	
CADM3	0.42173700	0.03816261	3.44945678	
TDRD5	0.42117840	0.03824523	3.44390192	
MRPS27	-0.42113281	0.03824523	-3.44344879	
TCP11L2	-0.42085258	0.03824523	-3.44066398	
SHC2	0.42103019	0.03824523	3.44242881	
INPP5J	0.42121059	0.03824523	3.44422187	
IGHV1-18	0.42092875	0.03824523	3.44142078	
GTPBP8	-0.42111303	0.03824523	-3.44325210	
EML6	-0.42099780	0.03824523	-3.44210699	
TMEM140	0.42137287	0.03824523	3.44583522	
SLC2A5	0.42108544	0.03824523	3.44297790	
TGFA	-0.42136951	0.03824523	-3.44580188	yes
UQCRC2	-0.42085196	0.03824523	-3.44065785	
TTPAL	-0.42156068	0.03824523	-3.44770291	
FZD6	-0.42137006	0.03824523	-3.44580728	
SPRR1A	-0.42078971	0.03825079	-3.44003942	
HSPA4	-0.42038786	0.03851684	-3.43604864	
BCL11B	0.42049956	0.03851684	3.43715770	
FAM160A1	-0.42041568	0.03851684	-3.43632484	
CCDC99	-0.42028760	0.03856691	-3.43505328	
FHL3	0.42019323	0.03861028	3.43411656	
ALOX5AP	0.42001568	0.03875061	3.43235467	
TNFSF15	0.41986498	0.03886009	3.43085953	
DNAJB1	-0.41957038	0.03913875	-3.42793771	
COL4A3BP	-0.41931084	0.03919334	-3.42536464	
CDK7	-0.41943286	0.03919334	-3.42657418	
CTNND1	-0.41933029	0.03919334	-3.42555747	
SUSD4	-0.41929740	0.03919334	-3.42523149	
LRRC26	0.41912392	0.03926844	3.42351224	
ADAP2	0.41900836	0.03926844	3.42236729	
C1QC	0.41901961	0.03926844	3.42247873	

WASL	-0.41901118	0.03926844	-3.42239516	
GAPVD1	-0.41856043	0.03967008	-3.41793109	
KPNA3	-0.41855661	0.03967008	-3.41789327	
IL15RA	0.41793919	0.04007348	3.41178342	
TMEM69	-0.41800456	0.04007348	-3.41243004	
MCCC1	-0.41808727	0.04007348	-3.41324832	
IL32	0.41797976	0.04007348	3.41218473	
PPP4R1	-0.41796427	0.04007348	-3.41203151	yes
ARID5A	0.41776424	0.04008343	3.41005327	
PCSK5	-0.41781315	0.04008343	-3.41053688	yes
CCL2	0.41776643	0.04008343	3.41007493	
C6orf167	-0.41755028	0.04014520	-3.40793788	
MMP19	0.41764905	0.04014520	3.40891427	
NDUFA12	-0.41754677	0.04014520	-3.40790313	
CNPY2	0.41736631	0.04016350	3.40611953	
IFI30	0.41740574	0.04016350	3.40650920	
HAVCR2	0.41747436	0.04016350	3.40718747	
UNQ1887	-0.41696957	0.04037671	-3.40219995	
GPR37	0.41702524	0.04037671	3.40274975	
TNFRSF17	0.41698678	0.04037671	3.40236996	
SFRP1	0.41706143	0.04037671	3.40310724	
ARPC1A	-0.41675568	0.04040633	-3.40008785	
NLRC3	0.41656432	0.04040633	3.39819870	
TMOD3	-0.41671333	0.04040633	-3.39966964	yes
CASS4	0.41659512	0.04040633	3.39850277	
THY1	0.41659222	0.04040633	3.39847407	yes
ACBD6	-0.41658554	0.04040633	-3.39840820	
SEC16B	0.41682070	0.04040633	3.40072983	
KIAA0753	-0.41648896	0.04043194	-3.39745492	
SPAG4	0.41640961	0.04046245	3.39667187	
KCNN4	0.41631572	0.04051059	3.39574540	
TFDP2	-0.41618507	0.04060322	-3.39445640	
RND1	0.41598688	0.04064797	3.39250164	

KIF11	-0.41599431	0.04064797	-3.39257489	
MID1	-0.41606237	0.04064797	-3.39324616	
ERI2	-0.41592678	0.04065588	-3.39190897	
DYNLT3	-0.41585394	0.04067926	-3.39119072	
TRIM31	0.41563560	0.04074978	3.38903827	
DPEP2	0.41569666	0.04074978	3.38964013	
DEM1	-0.41564009	0.04074978	-3.38908253	
C1orf116	-0.41557708	0.04075622	-3.38846150	
SLC2A12	-0.41545702	0.04077304	-3.38727826	
AKR1C3	-0.41549372	0.04077304	-3.38763991	
SEZ6L2	0.41500554	0.04106413	3.38283088	
RGS16	0.41500951	0.04106413	3.38287002	
CRADD	-0.41509548	0.04106413	-3.38371665	
CD163	0.41514458	0.04106413	3.38420024	
SLC25A42	0.41474238	0.04119228	3.38024002	yes
PEX19	-0.41483974	0.04119228	-3.38119850	
RNF7	-0.41479206	0.04119228	-3.38072909	
TMEM210	0.41468044	0.04120377	3.37963039	
CATSPER3	-0.41454007	0.04131111	-3.37824896	
VEZF1	-0.41443712	0.04137295	-3.37723594	
LOC100132728	-0.41415668	0.04138308	-3.37447732	
BTN3A3	0.41413603	0.04138308	3.37427422	
CCDC58	-0.41431049	0.04138308	-3.37599014	
DNAJC16	-0.41411605	0.04138308	-3.37407775	yes
GIMAP5	0.41419968	0.04138308	3.37490023	
SLC12A8	0.41434364	0.04138308	3.37631625	
VASH1	0.41398416	0.04141756	3.37278078	
IGHG1	0.41403158	0.04141756	3.37324710	
IGSF11	-0.41383576	0.04153591	-3.37132188	
TMEM106A	0.41368015	0.04166348	3.36979238	
RASSF1	0.41322167	0.04178139	3.36528813	
NUDT16	0.41313248	0.04178139	3.36441224	
GIMAP1	0.41345620	0.04178139	3.36759191	

DSTYK	-0.41325795	0.04178139	-3.36564447	
LOC401296	0.41332489	0.04178139	3.36630195	
FAM26F	0.41334883	0.04178139	3.36653711	
PMS2	-0.41313319	0.04178139	-3.36441929	
SYT13	0.41329478	0.04178139	3.36600623	
CD9	-0.41312204	0.04178139	-3.36430973	
COQ7	-0.41306297	0.04179128	-3.36372977	
LYZ	0.41295461	0.04181738	3.36266590	
SPINK7	-0.41293993	0.04181738	-3.36252173	
CYTIP	0.41284983	0.04186575	3.36163731	
NFE2L2	-0.41269172	0.04193558	-3.36008558	
PDZD11	-0.41272465	0.04193558	-3.36040877	
VDAC3	-0.41254234	0.04205753	-3.35861985	yes
LGALS3	-0.41246778	0.04208719	-3.35788835	yes
ASB11	0.41220492	0.04216291	3.35531023	
NPNT	-0.41229191	0.04216291	-3.35616334	
GP2	0.41220621	0.04216291	3.35532294	
TRBV27	0.41231311	0.04216291	3.35637121	
IRF8	0.41210729	0.04222160	3.35435293	
CENPF	-0.41190447	0.04237847	-3.35236469	
FAM162A	-0.41178921	0.04237847	-3.35123498	
HLA-DRB6	0.41175078	0.04237847	3.35085840	
SHC4	0.41173099	0.04237847	3.35066448	
C9orf78	-0.41173053	0.04237847	-3.35066000	
MRPL30	-0.41122477	0.04288570	-3.34570577	
VEZT	-0.41122834	0.04288570	-3.34574076	
FRMPD3	0.41112451	0.04294907	3.34472412	
HLA-DOA	0.41098589	0.04299879	3.34336718	
MGST1	-0.41096380	0.04299879	-3.34315093	
LYRM1	-0.41093587	0.04299879	-3.34287756	
SMURF1	-0.41063694	0.04328959	-3.33995239	
BPHL	-0.41060626	0.04328959	-3.33965223	
COTL1	0.41040410	0.04335782	3.33767482	

RAB38	-0.41049619	0.04335782	-3.33857554	
CAMK1D	-0.41040787	0.04335782	-3.33771176	
SCGB1D4	0.41024988	0.04349085	3.33616680	
CHI3L2	0.40967574	0.04350161	3.33055546	
ERV3	-0.40984162	0.04350161	-3.33217610	
CNOT1	-0.41004026	0.04350161	-3.33411753	yes
CDC2L6	-0.40961102	0.04350161	-3.32992318	
GPR15	0.40957375	0.04350161	3.32955912	
LDHB	-0.40965878	0.04350161	-3.33038975	
NGFR	0.40999890	0.04350161	3.33371323	
NSDHL	-0.40962444	0.04350161	-3.33005429	
ATP6V1D	-0.40977261	0.04350161	-3.33150181	
PIGF	-0.41005849	0.04350161	-3.33429572	yes
BATF3	0.40999962	0.04350161	3.33372030	
PYCR1	0.40955758	0.04350161	3.32940119	
SLC39A8	0.40979444	0.04350161	3.33171516	
ZNF323	-0.40970319	0.04350161	-3.33082356	
CD96	0.40947699	0.04352211	3.32861405	
KPNA6	-0.40933761	0.04352211	-3.32725293	
GGT1	0.40930011	0.04352211	3.32688675	
SRGAP2P2	-0.40935626	0.04352211	-3.32743506	
C5orf42	-0.40936682	0.04352211	-3.32753814	
DENND3	0.40910212	0.04366967	3.32495383	
IPMK	-0.40905277	0.04366967	-3.32447222	yes
SDC3	0.40903970	0.04366967	3.32434465	
CLEC4G	0.40893135	0.04374650	3.32328715	
UQCC	-0.40887913	0.04375204	-3.32277759	
KLF8	-0.40825090	0.04435597	-3.31665024	
KIAA0831	-0.40821479	0.04435597	-3.31629820	
FLT3LG	0.40815239	0.04435597	3.31568991	
C17orf66	0.40811086	0.04435597	3.31528514	
B3GAT1	0.40805331	0.04435597	3.31472423	
HOOK1	-0.40810497	0.04435597	-3.31522772	

APBB1IP	0.40802591	0.04435597	3.31445722	
TEAD2	0.40822271	0.04435597	3.31637540	
ACAD8	0.40761240	0.04463640	3.31042849	
NPAS2	-0.40765917	0.04463640	-3.31088407	
BIN2	0.40769013	0.04463640	3.31118557	
MRPL45	-0.40764834	0.04463640	-3.31077858	
SP140L	0.40757190	0.04463640	3.31003407	
SOX10	0.40737610	0.04482890	3.30812739	
GMFG	0.40732595	0.04483284	3.30763913	
ACP5	0.40724718	0.04487400	3.30687232	
IGHD	0.40708933	0.04501809	3.30533584	
CD52	0.40674712	0.04514051	3.30200620	
CCNY	-0.40666778	0.04514051	-3.30123446	yes
AOAH	0.40691875	0.04514051	3.30367598	
MYCN	0.40679549	0.04514051	3.30247679	
SPRR3	-0.40670806	0.04514051	-3.30162627	
SYPL1	-0.40686118	0.04514051	-3.30311579	
TNFAIP8L2	0.40675627	0.04514051	3.30209519	
UGDH	-0.40638286	0.04545212	-3.29846386	
PLD6	0.40610513	0.04575438	3.29576420	
AIM1	-0.40605995	0.04575438	-3.29532514	
AMIGO3	0.40595907	0.04582617	3.29434495	
SAE1	-0.40576181	0.04590297	-3.29242857	
TMC6	0.40585289	0.04590297	3.29331331	
C9orf45	-0.40577992	0.04590297	-3.29260453	
NNMT	0.40567947	0.04595066	3.29162887	
TMEM176A	0.40546167	0.04617813	3.28951388	
IL10RA	0.40538944	0.04621274	3.28881254	
TDP1	-0.40530399	0.04626501	-3.28798307	yes
AKR1B1	-0.40523966	0.04628929	-3.28735864	
ZNF273	-0.40497980	0.04640645	-3.28483693	
CMTM1	0.40477266	0.04640645	3.28282742	
DACH2	0.40471396	0.04640645	3.28225809	

SBNO2	0.40485359	0.04640645	3.28361243	
GPD1L	-0.40489718	0.04640645	-3.28403538	
HADHA	-0.40470408	0.04640645	-3.28216229	
PRKAR2A	-0.40492051	0.04640645	-3.28426170	yes
LOC55908	0.40464815	0.04640645	3.28161986	
JPH1	-0.40465349	0.04640645	-3.28167165	
MTA3	-0.40472902	0.04640645	-3.28240422	
PLEKHF1	0.40475790	0.04640645	3.28268432	
RAB11A	-0.40458618	0.04642843	-3.28101899	yes
CMA1	0.40392435	0.04664772	3.27460431	
WDFY3	-0.40428135	0.04664772	-3.27806373	
KCNMB4	0.40409291	0.04664772	3.27623745	
TRAV12-2	0.40434416	0.04664772	3.27867251	
CD209	0.40398286	0.04664772	3.27517116	
NFIA	-0.40391783	0.04664772	-3.27454118	
ASCC1	-0.40379065	0.04664772	-3.27330930	yes
PRKX	-0.40379960	0.04664772	-3.27339596	
CD177	0.40386603	0.04664772	3.27403941	
ZNF608	-0.40429781	0.04664772	-3.27822325	
CXCL5	0.40411155	0.04664772	3.27641809	
POF1B	-0.40412258	0.04664772	-3.27652497	
CBS	0.40413693	0.04664772	3.27666401	
DCLRE1A	-0.40398966	0.04664772	-3.27523706	
SAMD8	-0.40299822	0.04751714	-3.26563843	
DTX4	0.40296606	0.04751714	3.26532727	
WNK1	-0.40302948	0.04751714	-3.26594084	
HSH2D	0.40309890	0.04751714	3.26661258	
RNF169	-0.40266097	0.04787171	-3.26237650	
GLRX3	-0.40250666	0.04802131	-3.26088445	
SNX31	-0.40246245	0.04802131	-3.26045708	
RASSF9	-0.40236521	0.04809357	-3.25951717	
ENOX2	-0.40229316	0.04813142	-3.25882077	
LILRB1	0.40224353	0.04813859	3.25834113	

SLCO2A1	0.40218233	0.04816171	3.25774972	
OSBPL11	-0.40197622	0.04838413	-3.25575826	
RASGRF1	0.40190406	0.04842255	3.25506121	
UGT1A10	-0.40184658	0.04844082	-3.25450602	
KIAA0564	-0.40149554	0.04880408	-3.25111639	
KLHL13	-0.40153909	0.04880408	-3.25153681	
KIF23	-0.40144586	0.04881180	-3.25063682	
DMRTA1	0.40139548	0.04882057	3.25015046	
CXCR6	0.40131336	0.04887344	3.24935789	
PREB	0.40124030	0.04891384	3.24865280	
OSBPL10	0.40110154	0.04892599	3.24731392	
PAQR7	-0.40096922	0.04892599	-3.24603732	
RABGEF1	-0.40096870	0.04892599	-3.24603237	
KCNA2	0.40098718	0.04892599	3.24621060	
RHOJ	0.40101331	0.04892599	3.24646264	
TMPRSS13	-0.40105742	0.04892599	-3.24688825	
DMRT3	-0.40083539	0.04905062	-3.24474654	
APOL3	0.40075055	0.04910803	3.24392829	
MRPS31	-0.40069434	0.04912565	-3.24338628	yes
CXCR3	0.40055932	0.04925131	3.24208450	
TMEM133	-0.40051723	0.04925131	-3.24167871	
SASH3	0.40046156	0.04926840	3.24114205	
LIX1L	0.40027598	0.04934600	3.23935341	yes
TJP2	-0.40028049	0.04934600	-3.23939686	
ARMCX2	0.40035780	0.04934600	3.24014196	
LOC57228	-0.40014016	0.04947306	-3.23804463	
IFITM1	0.40009868	0.04947306	3.23764506	
NOD2	0.39973196	0.04992794	3.23411279	
GPR177	-0.39962482	0.05001832	-3.23308118	
METAP2	-0.39952720	0.05009538	-3.23214147	
TTC7B	0.39926376	0.05018757	3.22960589	
ZNF431	-0.39933246	0.05018757	-3.23026698	
EPHB3	0.39913621	0.05018757	3.22837861	

FBXO8	-0.39907596	0.05018757	-3.22779898	
IMPA2	-0.39923867	0.05018757	-3.22936446	
ZDHHHC7	-0.39933033	0.05018757	-3.23024647	
SNORD95	0.39910878	0.05018757	3.22811470	
ZNF674	-0.39930846	0.05018757	-3.23003605	
E2F8	-0.39915644	0.05018757	-3.22857319	
EPHA7	-0.39891342	0.05029702	-3.22623543	
VAMP8	-0.39891914	0.05029702	-3.22629047	
ADSS	-0.39884398	0.05033511	-3.22556755	
HLA-DRA	0.39877269	0.05037590	3.22488206	
PCBP3	0.39863341	0.05045304	3.22354285	
DHX40	-0.39863577	0.05045304	-3.22356548	
LOC100132224	0.39857107	0.05048137	3.22294344	
APOL2	0.39839726	0.05054791	3.22127282	
GBP1	0.39843589	0.05054791	3.22164409	
KLF3	-0.39840171	0.05054791	-3.22131557	
FAM150B	0.39826752	0.05067255	3.22002598	
NOX1	0.39819631	0.05071391	3.21934167	
WAS	0.39809293	0.05080130	3.21834846	
RAMP3	0.39794351	0.05080474	3.21691315	
ARFGEF1	-0.39799700	0.05080474	-3.21742696	
C2orf15	-0.39800870	0.05080474	-3.21753932	
GLOD4	-0.39788023	0.05080474	-3.21630544	
FEZ1	0.39789870	0.05080474	3.21648280	yes
PLUNC	0.39782636	0.05082181	3.21578808	
CTSL2	-0.39753201	0.05088972	-3.21296195	
CCDC88B	0.39764832	0.05088972	3.21407855	
PLXNA2	-0.39752818	0.05088972	-3.21292516	
DPM3	0.39764301	0.05088972	3.21402757	
CHPF	0.39756469	0.05088972	3.21327565	
MTMR2	-0.39768266	0.05088972	-3.21440816	
FBXO21	-0.39729307	0.05092888	-3.21066864	
MYO1F	0.39745201	0.05092888	3.21219403	

S100A1	0.39740292	0.05092888	3.21172290	
EEA1	-0.39736309	0.05092888	-3.21134062	
USP6NL	-0.39730841	0.05092888	-3.21081585	yes
ANXA2P1	-0.39721548	0.05098061	-3.20992411	
CAP2	-0.39695586	0.05101427	-3.20743356	
COL4A1	0.39694432	0.05101427	3.20732285	yes
MRPL22	-0.39697227	0.05101427	-3.20759100	
SNORA24	0.39701141	0.05101427	3.20796635	
TPO	0.39704697	0.05101427	3.20830748	yes
EXOC3L2	0.39697512	0.05101427	3.20761833	
C10orf12	-0.39685387	0.05108483	-3.20645545	
ADK	-0.39652385	0.05125060	-3.20329126	
FCGR3A	0.39657844	0.05125060	3.20381452	
C21orf86	0.39649227	0.05125060	3.20298852	
AQP4	-0.39655131	0.05125060	-3.20355449	
C1orf149	-0.39649973	0.05125060	-3.20306007	
LCOR	-0.39649536	0.05125060	-3.20301819	yes
CD1D	0.39642512	0.05128834	3.20234489	
MARCKSL1	0.39629829	0.05141192	3.20112949	
NAT8L	0.39610583	0.05145447	3.19928546	
SPI1	0.39620628	0.05145447	3.20024781	
CLIP4	-0.39611435	0.05145447	-3.19936711	
RPS6KA5	-0.39612311	0.05145447	-3.19945098	
STK38	-0.39597961	0.05157774	-3.19807638	
LOC100131664	0.39593257	0.05158703	3.19762586	
ST3GAL2	0.39584933	0.05164551	3.19682864	yes
SCARNA5	0.39581096	0.05164551	3.19646119	
CCL5	0.39554525	0.05179577	3.19391720	
PIR	-0.39557822	0.05179577	-3.19423290	
JMJD2A	-0.39555976	0.05179577	-3.19405610	
NUP153	-0.39557154	0.05179577	-3.19416887	yes
TMEM131	-0.39537718	0.05192233	-3.19230856	yes
GAN	-0.39541620	0.05192233	-3.19268208	

APOOL	-0.39516873	0.05206172	-3.19031399	
TNFRSF13B	0.39513021	0.05206172	3.18994551	
NBEAL1	-0.39521203	0.05206172	-3.19072827	yes
CD79B	0.39512024	0.05206172	3.18985010	
ABTB2	0.39502836	0.05213690	3.18897119	
LOC100133333	-0.39480992	0.05227991	-3.18688206	yes
FLJ32810	-0.39483458	0.05227991	-3.18711784	
SCIN	-0.39485811	0.05227991	-3.18734282	
RAET1L	-0.39427476	0.05276892	-3.18176647	
IDS	-0.39431588	0.05276892	-3.18215937	
LCN1	0.39428819	0.05276892	3.18189481	
PRPH	0.39423601	0.05276892	3.18139622	
CALM1	-0.39440981	0.05276892	-3.18305707	
COL21A1	-0.39426600	0.05276892	-3.18168280	
PPP1R1B	0.39414440	0.05284502	3.18052093	
LRTM2	0.39397968	0.05302885	3.17894743	
C9orf126	-0.39392837	0.05304593	-3.17845740	
TSPAN33	0.39374407	0.05325213	3.17669749	
SH3RF1	-0.39370931	0.05325213	-3.17636560	
RPL21P28	-0.39366042	0.05326584	-3.17589880	
DCLRE1C	-0.39359639	0.05330200	-3.17528749	
GDF3	0.39352925	0.05334282	3.17464665	
INADL	-0.39340436	0.05346929	-3.17345461	yes
SLC25A13	-0.39327905	0.05359668	-3.17225875	
MFNG	0.39323415	0.05360478	3.17183032	
SLC17A9	0.39314661	0.05367632	3.17099512	
LAT2	0.39308836	0.05370438	3.17043947	
C16orf54	0.39300859	0.05376455	3.16967852	
EPB41L1	-0.39291175	0.05377045	-3.16875490	
IP6K2	-0.39294167	0.05377045	-3.16904020	
SLA	0.39288681	0.05377045	3.16851703	
ENG	0.39276928	0.05377608	3.16739624	
GSTA4	-0.39276554	0.05377608	-3.16736064	

TXNDC5	0.39278277	0.05377608	3.16752486	
EBF2	0.39271649	0.05379092	3.16689289	
TRIM29	-0.39265153	0.05382949	-3.16627359	
C2CD3	-0.39245938	0.05397143	-3.16444193	
IARS2	-0.39243937	0.05397143	-3.16425123	
PTPN7	0.39248375	0.05397143	3.16467424	
C9orf25	0.39240017	0.05397186	3.16387766	
CROT	-0.39236012	0.05397362	-3.16349592	
RIOK3	-0.39230028	0.05400495	-3.16292571	
COL4A2	0.39223400	0.05404597	3.16229413	yes
LOC124220	0.39213822	0.05413115	3.16138161	yes
ABI1	-0.39200109	0.05422045	-3.16007526	yes
SNRNP70	0.39202855	0.05422045	3.16033684	
HMGB2	-0.39191984	0.05428421	-3.15930143	
TPRG1L	-0.39177316	0.05444630	-3.15790461	
MATR3	-0.39163862	0.05459056	-3.15662359	
MMACHC	0.39131889	0.05472418	3.15358035	
SIGLEC7	0.39138759	0.05472418	3.15423419	
SIRPG	0.39148829	0.05472418	3.15519262	
C1orf25	-0.39145681	0.05472418	-3.15489293	yes
SCGB3A1	0.39133294	0.05472418	3.15371407	
KIAA0528	-0.39138293	0.05472418	-3.15418981	
CES1	-0.39098385	0.05476897	-3.15039285	
POLQ	-0.39103067	0.05476897	-3.15083823	
PLK4	-0.39108376	0.05476897	-3.15134326	
UNC13D	0.39113044	0.05476897	3.15178727	
CDH26	-0.39105362	0.05476897	-3.15105648	
KLRC4	0.39124103	0.05476897	3.15283953	
SEMA7A	0.39115400	0.05476897	3.15201149	
CLCA2	-0.39098308	0.05476897	-3.15038550	
A2ML1	-0.39085081	0.05491107	-3.14912757	
ADAMDEC1	0.39063459	0.05518077	3.14707166	
HOXD10	0.39057979	0.05520618	3.14655063	

NUDCD2	-0.39050498	0.05526202	-3.14583949	
CCR1	0.39033068	0.05546936	3.14418292	
UBE2H	-0.39016614	0.05566249	-3.14261946	
TAGAP	0.38989978	0.05596813	3.14008935	
SHB	0.38989071	0.05596813	3.14000313	
TSG101	-0.38984420	0.05598132	-3.13956146	
ZNF57	-0.38978873	0.05600833	-3.13903472	
IHH	0.38961171	0.05616817	3.13735399	
CD19	0.38960912	0.05616817	3.13732935	
FAM169A	-0.38937831	0.05646602	-3.13513844	
U2AF1L4	0.38922190	0.05664974	3.13365419	
ETV6	0.38900534	0.05692762	3.13159970	
SLC31A2	0.38892494	0.05699409	3.13083706	
IDUA	0.38882753	0.05708676	3.12991326	
MAP3K10	0.38879014	0.05708676	3.12955863	
hCG_2018279	0.38863165	0.05713102	3.12805590	
IGLV7-46	0.38866887	0.05713102	3.12840874	
LST1	0.38872110	0.05713102	3.12890405	
ITM2C	0.38861138	0.05713102	3.12786371	
GATA2	0.38851645	0.05715538	3.12696378	
GNAI1	-0.38852386	0.05715538	-3.12703405	
BTBD8	-0.38840853	0.05715538	-3.12594089	
RNF6	-0.38841781	0.05715538	-3.12602884	yes
SPN	0.38844517	0.05715538	3.12628813	
RFTN1	0.38836372	0.05716703	3.12551615	
DUSP23	0.38826613	0.05726117	3.12459134	
C1orf58	-0.38802815	0.05757560	-3.12233660	yes
GTF2I	-0.38781030	0.05762553	-3.12027324	
FAM70B	0.38783900	0.05762553	3.12054497	yes
BDKRB1	-0.38787005	0.05762553	-3.12083905	
HS6ST2	-0.38783485	0.05762553	-3.12050575	
CLSTN3	0.38781661	0.05762553	3.12033300	
ENSA	-0.38769750	0.05774452	-3.11920506	

KIAA1737	-0.38761288	0.05776100	-3.11840382	
ROD1	-0.38763061	0.05776100	-3.11857176	yes
PLCG2	0.38750167	0.05787782	3.11735110	
LYST	-0.38735478	0.05790919	-3.11596068	
CCDC89	-0.38733626	0.05790919	-3.11578544	
TREML3	0.38735610	0.05790919	3.11597323	
SELS	0.38733397	0.05790919	3.11576373	
NLRP3	0.38715376	0.05803069	3.11405848	
AADA1	-0.38714642	0.05803069	-3.11398905	
NRIP2	0.38719860	0.05803069	3.11448270	
QPRT	0.38701250	0.05818421	3.11272204	
ANXA2P2	-0.38690118	0.05818602	-3.11166901	yes
ZC4H2	0.38694239	0.05818602	3.11205882	
PGAP1	-0.38692774	0.05818602	-3.11192025	
CAMK4	0.38681272	0.05826798	3.11083244	
NEK7	-0.38662152	0.05837917	-3.10902439	
GPR4	0.38662698	0.05837917	3.10907607	
GPR35	0.38652439	0.05837917	3.10810616	
IL19	0.38652320	0.05837917	3.10809487	
PCYT1A	-0.38655694	0.05837917	-3.10841386	
PAPSS2	0.38654594	0.05837917	3.10830985	
GCLM	-0.38637661	0.05843835	-3.10670927	
MUC13	0.38642552	0.05843835	3.10717148	
TULP3	-0.38641038	0.05843835	-3.10702838	
CHST10	0.38628718	0.05852257	3.10586405	yes
PRDM4	-0.38615145	0.05863224	-3.10458147	yes
ALDOB	0.38612730	0.05863224	3.10435330	
CFI	0.38610925	0.05863224	3.10418269	
IL17REL	0.38606355	0.05864728	3.10375090	
NDUFB5	-0.38594666	0.05875190	-3.10264668	
UBE2E1	-0.38588924	0.05875190	-3.10210429	
FBXL20	-0.38590801	0.05875190	-3.10228165	
BTK	0.38579363	0.05884666	3.10120129	

FAM55B	0.38571588	0.05887868	3.10046703	
C9orf91	0.38570137	0.05887868	3.10033001	
ZDHHC3	-0.38564438	0.05891209	-3.09979191	
CCDC141	0.38552837	0.05898232	3.09869660	yes
UBE3B	-0.38556331	0.05898232	-3.09902650	
ATF4	0.38524999	0.05914034	3.09606902	
WHSC1L1	-0.38525434	0.05914034	-3.09611001	
MRPS10	-0.38533368	0.05914034	-3.09685884	yes
TLCD2	0.38530330	0.05914034	3.09657213	
CD37	0.38534710	0.05914034	3.09698549	
CCDC43	-0.38514878	0.05924502	-3.09511390	
PSME2	0.38510370	0.05925990	3.09468857	
AOF1	-0.38504908	0.05929012	-3.09417323	
ANKRD18B	-0.38497919	0.05932726	-3.09351388	
NDUFB4	-0.38495448	0.05932726	-3.09328076	
TLR7	0.38487691	0.05939445	3.09254909	
WDR41	-0.38480029	0.05942931	-3.09182639	
FAM161A	-0.38478392	0.05942931	-3.09167202	
GRAP	0.38456312	0.05956193	3.08958991	
SNORD33	0.38458468	0.05956193	3.08979320	
MUT	-0.38454842	0.05956193	-3.08945136	
PSTPIP1	0.38452369	0.05956193	3.08921821	
MRRF	-0.38462595	0.05956193	-3.09018231	
LOC729992	-0.38447447	0.05958409	-3.08875410	
PRSS23	-0.38442954	0.05959937	-3.08833058	
ADAM8	0.38432651	0.05965831	3.08735946	
PRIM1	-0.38432215	0.05965831	-3.08731831	
TACC2	-0.38417433	0.05971056	-3.08592526	
PFN2	-0.38420027	0.05971056	-3.08616965	
BMPR1B	-0.38416807	0.05971056	-3.08586620	
SGK493	0.38414852	0.05971056	3.08568200	yes
CPA4	-0.38409224	0.05974446	-3.08515167	
ANXA4	-0.38399336	0.05979197	-3.08422006	yes

MFSD6	-0.38399239	0.05979197	-3.08421091	
P2RY1	-0.38382392	0.05984939	-3.08262394	
UBE2A	-0.38381638	0.05984939	-3.08255292	
NUP93	-0.38384133	0.05984939	-3.08278795	
ELMO1	0.38391410	0.05984939	3.08347342	
NEURL3	0.38356917	0.06019218	3.08022490	
KLHDC10	-0.38353126	0.06019687	-3.07986795	yes
PSME3	-0.38345472	0.06020427	-3.07914730	
FNDC3B	0.38346882	0.06020427	3.07928004	
LCMT2	-0.38342182	0.06020427	-3.07883765	
ATP5F1	-0.38335657	0.06025343	-3.07822339	
RALBP1	-0.38323331	0.06034022	-3.07706321	
MTMR12	-0.38326540	0.06034022	-3.07736527	
MAP3K14	0.38314569	0.06042589	3.07623868	
TMEM150	0.38304973	0.06046877	3.07533565	yes
KLRC3	0.38307582	0.06046877	3.07558118	
FAM10A4	-0.38291897	0.06062489	-3.07410550	
ARID3A	0.38285809	0.06066749	3.07353271	
KIAA1609	-0.38272816	0.06082276	-3.07231065	
LOC100133404	0.38256052	0.06104012	3.07073414	yes
JARID1B	-0.38247302	0.06112666	-3.06991149	
FAM107A	0.38233216	0.06119998	3.06858724	
EIF4G2	-0.38231061	0.06119998	-3.06838469	yes
LRRC37A3	-0.38236714	0.06119998	-3.06891601	
KREMEN1	-0.38228990	0.06119998	-3.06819001	
LOC646813	-0.38219521	0.06129871	-3.06730005	
MYST2	-0.38213592	0.06133941	-3.06674286	
SH3TC2	0.38204454	0.06143296	3.06588408	
LMCD1	0.38197821	0.06148541	3.06526084	yes
SUSD3	0.38188483	0.06158249	3.06438357	
RPL41	-0.38184284	0.06159497	-3.06398913	
DLEU1	-0.38176131	0.06163500	-3.06322330	
GGT5	0.38174752	0.06163500	3.06309374	yes

LAG3	0.38171547	0.06163500	3.06279275	
RNASEL	-0.38155535	0.06184275	-3.06128900	
LOC100129278	0.38138360	0.06205089	3.05967640	
NEIL2	0.38136109	0.06205089	3.05946510	
WDFY2	-0.38127353	0.06211257	-3.05864309	
C1orf162	0.38125543	0.06211257	3.05847319	
GPN1	-0.38113636	0.06218438	-3.05735565	
FAM117B	-0.38098898	0.06218438	-3.05597264	
RNF11	-0.38100009	0.06218438	-3.05607692	
IGBP1	-0.38096169	0.06218438	-3.05571657	
SHC3	0.38105829	0.06218438	3.05662300	
SPIB	0.38093931	0.06218438	3.05550657	
PAR6B	-0.38098856	0.06218438	-3.05596868	yes
CD7	0.38103129	0.06218438	3.05636967	
ARL2BP	-0.38090199	0.06218991	-3.05515647	
RPRD2	-0.38076057	0.06236847	-3.05382975	
MRPL18	-0.38068335	0.06244049	-3.05310549	
ZNF648	0.38056215	0.06257780	3.05196878	
BLZF1	-0.38053315	0.06257780	-3.05169684	
GTF2E2	-0.38041628	0.06271637	-3.05060100	yes
IMPDH1	0.38031524	0.06282873	3.04965367	
SNW1	-0.38017045	0.06293882	-3.04829645	
IFFO1	0.38013038	0.06293882	3.04792090	
MUC3A	0.38011431	0.06293882	3.04777023	
GALNT10	0.38016481	0.06293882	3.04824360	
SSTR3	0.38005970	0.06297380	3.04725845	
DNAJA2	-0.37977939	0.06321822	-3.04463205	
MGC39372	0.37979514	0.06321822	3.04477959	
ADAMTSL4	0.37980738	0.06321822	3.04489425	
THBS1	0.37978626	0.06321822	3.04469636	
ALDH3A2	-0.37970332	0.06323312	-3.04391941	
RPL37A	-0.37971957	0.06323312	-3.04407171	
CYP4B1	-0.37962735	0.06330444	-3.04320785	

CKAP5	-0.37958993	0.06331096	-3.04285739	
ANKRD28	-0.37944819	0.06343680	-3.04153000	
KLF5	-0.37947488	0.06343680	-3.04177998	
TMEM106C	-0.37930706	0.06361845	-3.04020865	
GPD1	0.37921479	0.06371787	3.03934485	yes
KIAA1009	-0.37907531	0.06389747	-3.03803929	
BUD13	-0.37895458	0.06404565	-3.03690943	
AGL	-0.37879673	0.06420051	-3.03543246	
RELB	0.37880792	0.06420051	3.03553713	
ZNF681	-0.37866192	0.06424193	-3.03417130	
KCTD1	-0.37867904	0.06424193	-3.03433145	
TFB1M	-0.37872045	0.06424193	-3.03471883	
SLC17A7	0.37863910	0.06424193	3.03395785	yes
TESC	0.37848874	0.06444155	3.03255153	yes
FOLH1	0.37837758	0.06452128	3.03151205	
ADAMTS4	0.37837558	0.06452128	3.03149338	
C1orf130	0.37803068	0.06505574	3.02826908	
SBNO1	-0.37793864	0.06515704	-3.02740893	
RNF166	0.37787353	0.06520424	3.02680054	
CAPNS1	-0.37784490	0.06520424	-3.02653296	
APOE	0.37771648	0.06536865	3.02533314	
MRAP2	-0.37762522	0.06546915	-3.02448057	
GPR171	0.37747801	0.06566677	3.02310556	
CHRNA1	0.37732548	0.06581667	3.02168120	
UBXN7	-0.37735339	0.06581667	-3.02194175	
ACVRL1	0.37727848	0.06584092	3.02124229	yes
MAPK10	-0.37717406	0.06596507	-3.02026743	
ACE	0.37713415	0.06597635	3.01989482	
DUOX1	-0.37710159	0.06597635	-3.01959092	
CREB3L2	0.37704631	0.06601522	3.01907488	
NAMPT	0.37696168	0.06606667	3.01828494	
NUDT22	0.37695092	0.06606667	3.01818459	
UAP1L1	0.37690740	0.06608520	3.01777840	yes

FYB	0.37686880	0.06609521	3.01741816	
FLT4	0.37663896	0.06643917	3.01527366	yes
GSTP1	-0.37621679	0.06712353	-3.01133626	
MVK	-0.37614261	0.06717834	-3.01064459	
CRYZL1	-0.37612009	0.06717834	-3.01043472	
MSL3L2	-0.37602467	0.06728905	-3.00954514	
FBXW12	0.37593127	0.06733835	3.00867458	
CDC2	-0.37594504	0.06733835	-3.00880288	
LOC100133412	0.37586237	0.06740238	3.00803245	
MPP2	0.37578635	0.06747912	3.00732400	yes
RAB10	-0.37568792	0.06759574	-3.00640677	
PIP	0.37559705	0.06769911	3.00556018	
TOPORS	-0.37549906	0.06770833	-3.00464735	
ICOSLG	0.37555554	0.06770833	3.00517350	
SMPDL3B	0.37549398	0.06770833	3.00459996	
KIAA1012	-0.37535869	0.06789105	-3.00333989	yes
ZDHC21	-0.37514828	0.06805231	-3.00138050	
UGT1A9	-0.37516223	0.06805231	-3.00151039	
C17orf75	-0.37514770	0.06805231	-3.00137507	yes
ACTG1	-0.37513810	0.06805231	-3.00128573	
NPPA	0.37502299	0.06819987	3.00021405	
NCOA3	-0.37496445	0.06824651	-2.99966903	
CD300A	0.37488711	0.06827422	2.99894913	
ZYG11B	-0.37488410	0.06827422	-2.99892112	
LTA4H	-0.37480839	0.06835173	-2.99821651	
NPEPPS	-0.37475689	0.06838598	-2.99773724	
TAF7	-0.37465038	0.06847281	-2.99674614	
CCNG2	-0.37464375	0.06847281	-2.99668441	
MYCBP	-0.37457344	0.06854096	-2.99603018	
PPP1R7	-0.37452566	0.06856875	-2.99558567	
TRIM65	0.37438351	0.06859251	2.99426331	
EFEMP1	-0.37439114	0.06859251	-2.99433430	
EGFL6	-0.37445797	0.06859251	-2.99495601	

PRRG3	0.37442965	0.06859251	2.99469258	
PTPRZ1	-0.37431168	0.06866369	-2.99359524	
H2AFZ	-0.37417593	0.06879213	-2.99233276	
MRAP	0.37420164	0.06879213	2.99257188	
LAT	0.37412969	0.06881754	2.99190277	
C4orf7	0.37401318	0.06896952	2.99081954	
KANK4	0.37395061	0.06897915	2.99023784	
UBQLN2	-0.37378138	0.06897915	-2.98866483	
GJC3	0.37375193	0.06897915	2.98839108	
NDUFS1	-0.37376539	0.06897915	-2.98851615	
GULP1	-0.37392458	0.06897915	-2.98999589	
KIF16B	-0.37377074	0.06897915	-2.98856588	
C15orf17	-0.37389387	0.06897915	-2.98971037	
GPR137B	-0.37380424	0.06897915	-2.98887729	
C1R	0.37368703	0.06898124	2.98778793	
CAT	-0.37369490	0.06898124	-2.98786110	
CHRM1	0.37361614	0.06905158	2.98712914	
FOLR1	0.37345440	0.06926793	2.98562637	
COPS7A	-0.37343261	0.06926793	-2.98542393	
PDE10A	0.37305241	0.06947185	2.98189277	
NRG4	-0.37313016	0.06947185	-2.98261472	
ARID2	-0.37309254	0.06947185	-2.98226534	yes
NDUFB6	-0.37305666	0.06947185	-2.98193225	
CXorf57	-0.37327538	0.06947185	-2.98396346	
RAB22A	-0.37314772	0.06947185	-2.98277776	
POLR3D	0.37311668	0.06947185	2.98248951	
TFF1	0.37309255	0.06947185	2.98226551	
WDR26	-0.37303458	0.06947185	-2.98172717	yes
MSH2	-0.37299412	0.06948790	-2.98135156	
TSPAN32	0.37285596	0.06959226	2.98006886	
FCHO2	-0.37280711	0.06959226	-2.97961537	
CHSY1	0.37286567	0.06959226	2.98015897	
OSBPL3	-0.37278957	0.06959226	-2.97945259	yes

PCBD1	-0.37277889	0.06959226	-2.97935343	
CCNA2	-0.37264852	0.06977160	-2.97814346	
TTYH1	0.37257886	0.06984102	2.97749693	yes
CPNE3	-0.37247191	0.06997834	-2.97650452	
PHOX2B	0.37242534	0.07000592	2.97607252	
UNQ5814	0.37237540	0.07000795	2.97560911	
BHLHE22	0.37234220	0.07000795	2.97530119	
CHAC1	0.37233014	0.07000795	2.97518925	
PRKRIP1	0.37214657	0.07028544	2.97348657	
AMICA1	0.37204137	0.07036081	2.97251094	
DHX35	-0.37204793	0.07036081	-2.97257177	
TTC5	-0.37201144	0.07036081	-2.97223336	
CPNE5	0.37195654	0.07040403	2.97172432	
UST	-0.37182890	0.07047731	-2.97054089	
DHRS9	-0.37169831	0.07047731	-2.96933036	yes
KLRK1	0.37172745	0.07047731	2.96960046	
NPTN	-0.37173955	0.07047731	-2.96971263	
APLP2	-0.37170907	0.07047731	-2.96943003	
PSD	0.37172621	0.07047731	2.96958894	
SOD2	0.37183396	0.07047731	2.97058784	
PADI2	0.37161731	0.07051093	2.96857959	
MEOX1	0.37158677	0.07051093	2.96829649	
LIPG	0.37159337	0.07051093	2.96835773	
GNA12	0.37142309	0.07054243	2.96677971	
SEMA3G	0.37143752	0.07054243	2.96691342	yes
SRD5A1	-0.37142264	0.07054243	-2.96677561	
MPZL1	0.37149008	0.07054243	2.96740050	
RG9MTD2	-0.37141469	0.07054243	-2.96670192	
FOXC2	0.37138280	0.07054424	2.96640642	
RP6-213H19.1	-0.37130710	0.07062620	-2.96570510	
ELP4	-0.37113695	0.07088147	-2.96412890	
C16orf38	0.37105451	0.07097620	2.96336537	
C13orf3	-0.37100194	0.07101615	-2.96287845	

NEU3	0.37087087	0.07120063	2.96166478	
PUM2	-0.37072327	0.07141607	-2.96029823	
RGS19	0.37038685	0.07152710	2.95718449	
CYP2C18	-0.37048746	0.07152710	-2.95811553	
IKZF2	-0.37058248	0.07152710	-2.95899498	yes
PDE9A	0.37047512	0.07152710	2.95800129	yes
MANBAL	-0.37042419	0.07152710	-2.95752999	
WBSCR17	0.37038675	0.07152710	2.95718359	
ASRGL1	0.37047365	0.07152710	2.95798769	
HSDL2	-0.37044648	0.07152710	-2.95773630	
SNORD46	0.37045057	0.07152710	2.95777417	
BATF	0.37033254	0.07157072	2.95668197	
LOC100128979	0.37025929	0.07161423	2.95600421	
YWHAQ	-0.37024785	0.07161423	-2.95589836	
CD300LB	0.37015298	0.07162031	2.95502066	
GLO1	-0.37018203	0.07162031	-2.95528944	
SERPINB11	-0.37015681	0.07162031	-2.95505614	
GSK3B	-0.36993863	0.07176295	-2.95303805	yes
LOC344887	-0.36996244	0.07176295	-2.95325831	
USP40	-0.36993698	0.07176295	-2.95302277	
MOSPD1	-0.37002088	0.07176295	-2.95379873	
C4orf14	-0.36992364	0.07176295	-2.95289946	
GDPD1	-0.36980284	0.07193051	-2.95178233	
LOC100127905	0.36950692	0.07236789	2.94904666	
ZNF24	-0.36951744	0.07236789	-2.94914391	
SLC19A1	0.36945348	0.07241094	2.94855272	
ATP2A3	0.36919256	0.07284217	2.94614164	
HLA-C	0.36897555	0.07305199	2.94413684	
CNOT6	-0.36899532	0.07305199	-2.94431949	yes
PRPH2	0.36895954	0.07305199	2.94398894	
SEBOX	0.36901212	0.07305199	2.94447465	
C17orf85	-0.36891327	0.07308206	-2.94356161	
C1orf83	-0.36886370	0.07311839	-2.94310376	

GRINL1B	-0.36874671	0.07323050	-2.94202340	
MTF1	-0.36874367	0.07323050	-2.94199535	yes
SUGT1	-0.36863487	0.07332096	-2.94099077	
EPS8	-0.36861362	0.07332096	-2.94079460	yes
CCDC129	0.36860511	0.07332096	2.94071603	
PRRX2	0.36847446	0.07351053	2.93950993	
STAG3OS	-0.36842115	0.07351067	-2.93901784	
UGT1A6	-0.36841416	0.07351067	-2.93895330	
LEPREL2	0.36833276	0.07360760	2.93820199	
C3orf67	-0.36817891	0.07367127	-2.93678230	
PIGN	-0.36826235	0.07367127	-2.93755225	
IFT52	-0.36820699	0.07367127	-2.93704140	yes
KIAA0391	-0.36818425	0.07367127	-2.93683150	
C6orf105	0.36813570	0.07369629	2.93638351	
GHITM	-0.36779847	0.07423321	-2.93327266	
AKR1B10	-0.36779268	0.07423321	-2.93321928	
UBE4B	-0.36772415	0.07430664	-2.93258722	
TMEM99	-0.36767045	0.07435189	-2.93209202	
C10orf57	-0.36756976	0.07442975	-2.93116364	yes
N4BP1	-0.36759655	0.07442975	-2.93141064	yes
SIX3	0.36743272	0.07463427	2.92990016	
TMEM198	0.36688785	0.07513380	2.92487907	
CCDC138	-0.36697537	0.07513380	-2.92568533	yes
HIGD1A	-0.36699239	0.07513380	-2.92584213	
SGEF	-0.36708351	0.07513380	-2.92668169	
FAM33A	-0.36699027	0.07513380	-2.92582261	
RLIM	-0.36690737	0.07513380	-2.92505886	
SLC6A20	0.36687398	0.07513380	2.92475126	
SMYD3	-0.36699485	0.07513380	-2.92586484	
NR2C1	-0.36712034	0.07513380	-2.92702106	
ADAM12	0.36689196	0.07513380	2.92491693	
CBARA1	-0.36677186	0.07516966	-2.92381058	
IRF9	0.36674270	0.07516966	2.92354204	

KLHDC7B	0.36674264	0.07516966	2.92354148	
TRIM2	-0.36673663	0.07516966	-2.92348608	yes
TRAC	0.36657833	0.07539345	2.92202823	
VWA1	0.36656100	0.07539345	2.92186865	yes
KIF13A	-0.36650076	0.07545246	-2.92131398	
CCT5	-0.36638624	0.07561623	-2.92025956	
TNFRSF4	0.36627688	0.07577034	2.91925285	
KYNU	0.36618147	0.07589773	2.91837463	
TMEM74	0.36606627	0.07589979	2.91731443	
HMGN1	-0.36603736	0.07589979	-2.91704844	
IL17RB	0.36606572	0.07589979	2.91730937	
MAPK1	-0.36613323	0.07589979	-2.91793073	
CBR3	0.36603290	0.07589979	2.91700739	
TTC39B	-0.36600065	0.07590523	-2.91671064	yes
SLC35D2	-0.36589141	0.07605979	-2.91570545	
ETV5	0.36585189	0.07607937	2.91534193	
CNTFR	0.36575379	0.07610566	2.91443939	
SLCO4A1	0.36575373	0.07610566	2.91443889	yes
PSMD10	-0.36575022	0.07610566	-2.91440654	
PRKCG	0.36568135	0.07618232	2.91377306	
PMEPA1	0.36560022	0.07622819	2.91302687	
LOC729756	0.36559909	0.07622819	2.91301646	
ABC7	-0.36549315	0.07631824	-2.91204217	
LAMA1	0.36546491	0.07631824	2.91178248	
PON3	-0.36550631	0.07631824	-2.91216323	
COIL	-0.36535794	0.07646933	-2.91079892	
CD320	0.36530707	0.07651145	2.91033126	
RCN3	0.36521099	0.07658483	2.90944801	
MLF1IP	-0.36523479	0.07658483	-2.90966679	
SLC25A24	-0.36504670	0.07678521	-2.90793786	
IPO5	-0.36507011	0.07678521	-2.90815301	
ARL8B	-0.36502074	0.07678521	-2.90769931	
SDS	0.36476079	0.07706576	2.90531061	

NLGN2	0.36481612	0.07706576	2.90581901	
UBE3A	-0.36478698	0.07706576	-2.90555128	
TNFSF14	0.36481585	0.07706576	2.90581655	
CKAP4	0.36465578	0.07721449	2.90434599	
GSR	-0.36458993	0.07722974	-2.90374109	
ICAM2	0.36460414	0.07722974	2.90387156	
CHI3L1	0.36448434	0.07735408	2.90277122	
ZNF785	0.36445409	0.07735408	2.90249344	
RICS	-0.36443956	0.07735408	-2.90235998	yes
ALCAM	-0.36426398	0.07752839	-2.90074768	
PEX1	-0.36427782	0.07752839	-2.90087476	
EXD2	-0.36431709	0.07752839	-2.90123540	
ADCY7	0.36413597	0.07772337	2.89957251	
CXCL3	0.36393070	0.07791929	2.89768830	
GTF2H5	-0.36392110	0.07791929	-2.89760020	
PLD1	-0.36392633	0.07791929	-2.89764817	
C17orf62	0.36398470	0.07791929	2.89818395	
PIGR	0.36384309	0.07801638	2.89688428	
MRPL53	-0.36381326	0.07801838	-2.89661054	
SPOCK1	-0.36374714	0.07802250	-2.89600380	
MTRF1	-0.36373417	0.07802250	-2.89588485	
CD53	0.36372483	0.07802250	2.89579909	
FTHL11	-0.36368467	0.07804503	-2.89543065	
KLK14	0.36362881	0.07809862	2.89491820	
PPIE	-0.36349619	0.07817772	-2.89370154	
KPNA4	-0.36338818	0.07817772	-2.89271089	
LPO	0.36342651	0.07817772	2.89306241	
KLF9	0.36341203	0.07817772	2.89292966	
NARG1	-0.36343656	0.07817772	-2.89315458	
TAF1B	-0.36339954	0.07817772	-2.89281505	
RAB28	-0.36352881	0.07817772	-2.89400079	yes
LOC100133091	0.36332674	0.07824268	2.89214738	
C16orf82	0.36318563	0.07840892	2.89085340	

CATSPER4	0.36320755	0.07840892	2.89105444	
DSC3	-0.36297061	0.07846237	-2.88888212	
SAMM50	-0.36297565	0.07846237	-2.88892833	
SLITRK5	0.36301481	0.07846237	2.88928732	
H2AFY2	-0.36309166	0.07846237	-2.88999185	
LIN37	0.36295921	0.07846237	2.88877761	
DMKN	-0.36299812	0.07846237	-2.88913434	
ZFYVE9	-0.36303075	0.07846237	-2.88943346	
PBRM1	-0.36289617	0.07853098	-2.88819978	yes
DHX9	-0.36273159	0.07880132	-2.88669149	
LEPREL1	-0.36254407	0.07903827	-2.88497323	
MBNL3	-0.36255797	0.07903827	-2.88510062	
RARB	-0.36252741	0.07903827	-2.88482056	
LARP5	-0.36237546	0.07928491	-2.88342865	yes
C13orf33	0.36218476	0.07960990	2.88168207	
MAL2	-0.36203757	0.07963560	-2.88033429	yes
LCN15	0.36214170	0.07963560	2.88128774	
C1orf151	-0.36208541	0.07963560	-2.88077229	
SSB	-0.36203039	0.07963560	-2.88026851	
TMBIM6	-0.36207603	0.07963560	-2.88068641	
BLOC1S3	0.36197529	0.07968942	2.87976405	yes
MARK1	-0.36190737	0.07976904	-2.87914226	
C8orf40	-0.36179330	0.07987195	-2.87809806	
DUOXA2	0.36177149	0.07987195	2.87789847	
RASA1	-0.36180548	0.07987195	-2.87820959	
SGMS2	-0.36160050	0.08015935	-2.87633352	yes
DNAJB4	-0.36149038	0.08026627	-2.87532594	
ADORA1	0.36143486	0.08026627	2.87481793	
LOC25845	0.36145165	0.08026627	2.87497153	
NCKAP1L	0.36144404	0.08026627	2.87490194	
DRG1	-0.36129980	0.08028937	-2.87358234	
RASD1	0.36136384	0.08028937	2.87416822	
AGPAT5	-0.36122699	0.08028937	-2.87291633	

PAG1	0.36125443	0.08028937	2.87316739	
RENBP	0.36133856	0.08028937	2.87393696	
BTBD10	-0.36125812	0.08028937	-2.87320112	
TNFRSF11A	0.36128860	0.08028937	2.87347987	
GHRHR	0.36112018	0.08039194	2.87193943	
NUP133	-0.36113572	0.08039194	-2.87208163	
NUP50	-0.36076832	0.08063080	-2.86872225	
HCST	0.36075343	0.08063080	2.86858609	
EFHA1	-0.36079373	0.08063080	-2.86895454	
C1orf110	-0.36072019	0.08063080	-2.86828227	yes
ETV7	0.36069525	0.08063080	2.86805427	
PDGFB	0.36091322	0.08063080	2.87004697	yes
TRMT5	-0.36074906	0.08063080	-2.86854619	
PLBD1	-0.36077516	0.08063080	-2.86878475	
C17orf68	0.36090675	0.08063080	2.86998779	
CHST9	-0.36087210	0.08063080	-2.86967098	
TMEM191A	0.36084007	0.08063080	2.86937820	
CYP26A1	-0.36064520	0.08067582	-2.86759682	
ZNF680	-0.36058658	0.08068209	-2.86706104	
CDC37L1	-0.36058750	0.08068209	-2.86706941	
HYI	0.36054967	0.08070064	2.86672372	
LOC100129395	0.36026784	0.08105238	2.86414854	
HEBP2	-0.36020375	0.08105238	-2.86356300	yes
NKIRAS1	-0.36028152	0.08105238	-2.86427350	
MNAT1	-0.36024743	0.08105238	-2.86396207	
RAPGEFL1	-0.36020804	0.08105238	-2.86360224	
ANKMY2	-0.36018232	0.08105238	-2.86336724	
CYP4F11	-0.36029892	0.08105238	-2.86443247	
DNTTIP2	-0.36011621	0.08113051	-2.86276340	
SLC22A17	0.36005908	0.08119049	2.86224156	yes
SLC27A2	-0.35999315	0.08121237	-2.86163940	
FAM173A	0.36001763	0.08121237	2.86186303	
PDIA5	0.35994573	0.08125273	2.86120639	

GRAP2	0.35983820	0.08141545	2.86022443	
RNF133	0.35981065	0.08141548	2.85997292	
CGREF1	0.35976245	0.08145761	2.85953280	
GPR3	0.35971437	0.08149408	2.85909387	
NDUFA8	-0.35968956	0.08149408	-2.85886731	
GPD2	-0.35961137	0.08159745	-2.85815355	
RALB	-0.35955542	0.08165166	-2.85764282	
KIAA0494	-0.35952989	0.08165166	-2.85740985	
JMJD1B	-0.35938739	0.08188669	-2.85610927	
RASGRP2	0.35934364	0.08191332	2.85571000	yes
SLCO2B1	0.35931954	0.08191332	2.85549014	
SNX7	-0.35925112	0.08194128	-2.85486578	
TNKS	-0.35927644	0.08194128	-2.85509680	
SENP8	-0.35917477	0.08202138	-2.85416923	
SP110	0.35915727	0.08202138	2.85400955	
HUS1B	0.35907576	0.08213234	2.85326597	
LOC389137	-0.35867131	0.08245142	-2.84957732	
ROBO4	0.35885801	0.08245142	2.85127981	yes
PACS1	0.35860114	0.08245142	2.84893759	
AZGP1	0.35878259	0.08245142	2.85059203	
TRIB3	0.35874326	0.08245142	2.85023338	
RP2	-0.35868207	0.08245142	-2.84967546	yes
UPK1B	-0.35859345	0.08245142	-2.84886746	
VRK1	-0.35871455	0.08245142	-2.84997158	
SPAG16	-0.35866408	0.08245142	-2.84951139	
ZNF750	-0.35879317	0.08245142	-2.85068852	
C1orf115	0.35864053	0.08245142	2.84929668	
TAS1R1	0.35862563	0.08245142	2.84916081	
ATP5J2	-0.35851792	0.08255087	-2.84817888	
PRSS12	-0.35845308	0.08262844	-2.84758787	
SMC2	-0.35834808	0.08278883	-2.84663077	
PTPN22	0.35831256	0.08280461	2.84630709	
CSNK1G1	-0.35828624	0.08280461	-2.84606721	

RNF170	-0.35824769	0.08282828	-2.84571583	
BTNL8	0.35817884	0.08291446	2.84508847	
EIF2C4	-0.35809709	0.08297157	-2.84434362	
GPBP1L1	-0.35811173	0.08297157	-2.84447694	
C7orf38	-0.35802308	0.08306862	-2.84366926	
RPL17	-0.35799084	0.08307944	-2.84337555	
SLC36A3	0.35794448	0.08311948	2.84295319	
POP4	-0.35782315	0.08314747	-2.84184802	
BTBD9	-0.35789625	0.08314747	-2.84251390	yes
C20orf177	-0.35784658	0.08314747	-2.84206146	
PRPF38A	-0.35783338	0.08314747	-2.84194122	
LOC339483	0.35775024	0.08318696	2.84118397	
HSD17B13	-0.35777079	0.08318696	-2.84137114	
PLD4	0.35770655	0.08322170	2.84078612	
ABI2	-0.35765270	0.08326510	-2.84029570	
PSEN1	-0.35763186	0.08326510	-2.84010589	
RTKN2	-0.35756430	0.08328691	-2.83949073	
IGHV1-69	0.35759302	0.08328691	2.83975227	
CCDC56	-0.35751657	0.08328691	-2.83905619	
HMGCR	-0.35750957	0.08328691	-2.83899242	
ZC3H12A	0.35748729	0.08328691	2.83878959	
C9orf131	0.35741310	0.08338503	2.83811416	
IGKV1D-12	0.35735563	0.08339006	2.83759095	
PPME1	-0.35733048	0.08339006	-2.83736207	
VTA1	-0.35737819	0.08339006	-2.83779634	yes
ADPRH	0.35729169	0.08341509	2.83700895	
TNPO3	-0.35721842	0.08351155	-2.83634205	
C11orf92	-0.35715390	0.08358997	-2.83575486	
NKX2-3	0.35700436	0.08384502	2.83439411	
DPY30	-0.35693774	0.08392812	-2.83378794	yes
TRIM69	0.35689031	0.08397137	2.83335638	
CHD4	-0.35684368	0.08398901	-2.83293215	
C12orf51	-0.35682859	0.08398901	-2.83279487	

YWHAE	-0.35678252	0.08402953	-2.83237579	yes
FLJ36031	0.35675388	0.08403380	2.83211531	
ZNF776	-0.35667240	0.08409521	-2.83137416	
RSPO4	0.35667126	0.08409521	2.83136376	
DYNLL1	-0.35662180	0.08414295	-2.83091389	
HLA-E	0.35654745	0.08419117	2.83023777	
THEM2	-0.35654561	0.08419117	-2.83022103	
BTBD7	-0.35646029	0.08431381	-2.82944522	
RRBP1	0.35639351	0.08439791	2.82883798	
SLCO1B3	0.35627579	0.08445868	2.82776767	
LIMS1	-0.35625859	0.08445868	-2.82761134	
MRPL47	-0.35633270	0.08445868	-2.82828510	
GRRP1	0.35629358	0.08445868	2.82792945	
C8orf37	-0.35621926	0.08447671	-2.82725379	
CCDC109A	-0.35619713	0.08447671	-2.82705266	yes
PLXDC1	0.35613922	0.08454257	2.82652624	
TAPBPL	0.35590157	0.08497999	2.82436645	
TEAD1	-0.35587764	0.08497999	-2.82414899	
LRRC25	0.35582487	0.08498739	2.82366953	
CLCA4	-0.35582140	0.08498739	-2.82363797	
ZNF410	-0.35577656	0.08499690	-2.82323057	yes
GARNL3	0.35576421	0.08499690	2.82311837	
DACT2	0.35569935	0.08502610	2.82252917	
TBX21	0.35569089	0.08502610	2.82245229	
NEK4	-0.35567142	0.08502610	-2.82227545	yes
WARS	0.35550124	0.08529462	2.82072963	
GTF3C3	-0.35549114	0.08529462	-2.82063791	
C1QTNF1	0.35545642	0.08531246	2.82032258	yes
KISS1R	0.35526956	0.08565109	2.81862578	
SNORA48	0.35521886	0.08570279	2.81816540	
NOL7	-0.35517336	0.08574354	-2.81775232	
USP54	-0.35510531	0.08583147	-2.81713457	
DAP	0.35507938	0.08583147	2.81689913	

TTC8	-0.35501590	0.08586214	-2.81632291	
DCTD	-0.35493847	0.08586214	-2.81562010	
SLC25A45	0.35493415	0.08586214	2.81558089	
SERPINB13	-0.35498226	0.08586214	-2.81601755	
FAM135A	-0.35496449	0.08586214	-2.81585630	
DGKH	-0.35461893	0.08631882	-2.81272053	
GRK4	0.35454212	0.08631882	2.81202370	
H1FNT	0.35455135	0.08631882	2.81210741	
GNB1L	0.35451015	0.08631882	2.81173365	
TCF4	-0.35458267	0.08631882	-2.81239158	
ANGPTL6	0.35465348	0.08631882	2.81303398	
ZNF541	0.35452669	0.08631882	2.81188368	
TMEM116	-0.35453721	0.08631882	-2.81197909	
TRIM35	0.35445732	0.08632059	2.81125446	
CLIC6	-0.35446166	0.08632059	-2.81129375	
GDF11	0.35442272	0.08632476	2.81094059	yes
HOXD4	0.35440343	0.08632476	2.81076557	yes
GFRA2	0.35430543	0.08634808	2.80987680	
IDH1	-0.35428875	0.08634808	-2.80972547	
MXRA8	0.35434662	0.08634808	2.81025037	
NUP37	-0.35429602	0.08634808	-2.80979147	
CCT2	-0.35411269	0.08656278	-2.80812904	
CETN3	-0.35409989	0.08656278	-2.80801298	
CPLX1	0.35408420	0.08656278	2.80787069	
LEPRE1	0.35415670	0.08656278	2.80852806	yes
BAI1	0.35396375	0.08670913	2.80677871	
ROBO3	0.35396441	0.08670913	2.80678466	
PPP2R5B	0.35387171	0.08683393	2.80594436	
SOD1	-0.35385355	0.08683393	-2.80577972	yes
HLA-DPA1	0.35375488	0.08694248	2.80488541	
MED22	0.35361889	0.08694248	2.80365303	
TSHR	0.35364971	0.08694248	2.80393234	
C11orf49	-0.35362035	0.08694248	-2.80366625	

CDADC1	-0.35368922	0.08694248	-2.80429037	
DYSF	0.35359668	0.08694248	2.80345176	yes
SOCS1	0.35365342	0.08694248	2.80396600	
UNC5A	0.35367568	0.08694248	2.80416771	
NEDD1	-0.35346761	0.08695513	-2.80228231	
HSD17B14	0.35346247	0.08695513	2.80223577	yes
TAF9B	-0.35352806	0.08695513	-2.80283005	
CHD8	-0.35349791	0.08695513	-2.80255683	
SNTB1	-0.35349643	0.08695513	-2.80254343	
EMR2	0.35336341	0.08711183	2.80133834	
GLI1	0.35332013	0.08714957	2.80094631	yes
OPA3	0.35328797	0.08716359	2.80065504	
KRAS	-0.35315420	0.08728554	-2.79944346	yes
NDUFA10	-0.35318940	0.08728554	-2.79976225	
FAM164A	-0.35316386	0.08728554	-2.79953090	
SRM	0.35312613	0.08729095	2.79918923	
SMARCE1	-0.35308386	0.08732675	-2.79880644	
DOK1	0.35305791	0.08732769	2.79857138	yes
INSRR	0.35301686	0.08736093	2.79819974	
NLRP7	0.35294070	0.08746938	2.79751007	
SEMA4F	0.35272775	0.08753653	2.79558229	
ITGAM	0.35277661	0.08753653	2.79602452	
NDUFB8	-0.35275127	0.08753653	-2.79579520	
TRNAU1AP	-0.35270588	0.08753653	-2.79538433	
PTPRA	-0.35284768	0.08753653	-2.79666794	
CCL20	0.35282433	0.08753653	2.79645659	
FLJ13197	-0.35274386	0.08753653	-2.79572810	
DPF3	0.35272886	0.08753653	2.79559231	yes
MYB	-0.35267314	0.08755231	-2.79508798	yes
FOXC1	0.35259762	0.08760546	2.79440449	
MDH1	-0.35261613	0.08760546	-2.79457202	
NAPSA	0.35251606	0.08772597	2.79366637	yes
TRMT12	-0.35241802	0.08788203	-2.79277917	

IFITM3	0.35230222	0.08800727	2.79173143
TPSG1	0.35216844	0.08800727	2.79052121
ACADSB	-0.35224322	0.08800727	-2.79119768
NTS	-0.35218256	0.08800727	-2.79064898
ATP6V1H	-0.35220786	0.08800727	-2.79087785
RCBTB1	-0.35225205	0.08800727	-2.79127761
BCORL1	0.35229863	0.08800727	2.79169902
TSSK3	0.35215757	0.08800727	2.79042289
IGHV2-5	0.35205558	0.08800990	2.78950041
C13orf36	0.35210450	0.08800990	2.78994291
PRKDC	-0.35206174	0.08800990	-2.78955613
CCT6A	-0.35208635	0.08800990	-2.78977873
RBM27	-0.35190723	0.08827490	-2.78815877
KLHL7	-0.35186294	0.08831612	-2.78775827
LANCL1	-0.35177991	0.08837745	-2.78700756
CFDP1	-0.35165877	0.08837745	-2.78591228
RAB14	-0.35174455	0.08837745	-2.78668780
TRMT6	-0.35169366	0.08837745	-2.78622773
ATP6V1A	-0.35166173	0.08837745	-2.78593907
ACOXL	0.35177924	0.08837745	2.78700148
C16orf62	-0.35171577	0.08837745	-2.78642765
MICB	0.35149757	0.08861710	2.78445522
PIWIL2	0.35149776	0.08861710	2.78445691
CREB3L4	0.35137376	0.08872243	2.78333622
HRC	0.35137492	0.08872243	2.78334675
NCAPD2	-0.35139232	0.08872243	-2.78350397
NME2	0.35133957	0.08874231	2.78302722
MTHFD1L	0.35122816	0.08880316	2.78202059
SNORD50A	0.35125625	0.08880316	2.78227439
MRPL35	-0.35119952	0.08880316	-2.78176178
XAF1	0.35121442	0.08880316	2.78189643
VLDLR	-0.35118663	0.08880316	-2.78164530
FASTKD1	-0.35113134	0.08886884	-2.78114576

LCE1F	0.35108503	0.08891513	2.78072745	
CACNA2D3	-0.35103504	0.08891582	-2.78027582	
TERT	0.35103494	0.08891582	2.78027488	
SYF2	-0.35096071	0.08892735	-2.77960440	
GNAL	-0.35089443	0.08892735	-2.77900574	
RHOG	0.35090562	0.08892735	2.77910678	
LCMT1	-0.35095435	0.08892735	-2.77954699	
RBM22	-0.35094516	0.08892735	-2.77946395	
CDC2L5	-0.35088058	0.08892735	-2.77888064	
GLIPR2	-0.35082383	0.08899648	-2.77836816	yes
C20orf118	0.35067654	0.08900754	2.77703810	
CDC42EP5	0.35070043	0.08900754	2.77725379	
APBA1	0.35073848	0.08900754	2.77759739	
PPP2R1B	-0.35067023	0.08900754	-2.77698104	
LOC653924	0.35075552	0.08900754	2.77775123	
MCM8	-0.35069820	0.08900754	-2.77723368	
EMR1	0.35057427	0.08910831	2.77611464	
PSMB10	0.35057465	0.08910831	2.77611814	
SIGLEC10	0.35054042	0.08910886	2.77580907	
ZFYVE16	-0.35052466	0.08910886	-2.77566683	
MORC3	-0.35049863	0.08911184	-2.77543182	
YBX2	0.35044891	0.08916614	2.77498296	
PCSK6	0.35036694	0.08929039	2.77424303	
OMA1	-0.35017103	0.08960885	-2.77247497	yes
ZNF254	-0.35018361	0.08960885	-2.77258852	
IL18BP	0.35009470	0.08966783	2.77178622	
COL4A3	0.35009656	0.08966783	2.77180301	
HBCBP	0.34985741	0.08996417	2.76964541	
MAL	-0.34977705	0.08996417	-2.76892047	
KCTD3	-0.34983328	0.08996417	-2.76942767	
GPR87	-0.34981643	0.08996417	-2.76927569	
SERPINB3	-0.34985036	0.08996417	-2.76958182	
TXNRD1	-0.34989471	0.08996417	-2.76998187	

C15orf41	-0.34976227	0.08996417	-2.76878721	
FAM71F1	0.34979369	0.08996417	2.76907063	
UNQ2963	0.34961117	0.09003451	2.76742445	
C6orf190	0.34968577	0.09003451	2.76809721	
OMG	0.34960767	0.09003451	2.76739287	
KAZALD1	0.34961150	0.09003451	2.76742741	
HDHD2	-0.34965893	0.09003451	-2.76785516	
XPA	-0.34957888	0.09004400	-2.76713328	
FCHO1	0.34949143	0.09018155	2.76634474	
MYL12B	-0.34926457	0.09046448	-2.76429950	
FAF2	-0.34933201	0.09046448	-2.76490743	
SATB1	-0.34926444	0.09046448	-2.76429830	
CCT3	-0.34927252	0.09046448	-2.76437115	
HYOU1	0.34923430	0.09047710	2.76402664	
FAM124A	0.34917077	0.09056287	2.76345402	
NSBP1	-0.34913863	0.09057995	-2.76316428	
GNRHR2	0.34898020	0.09066069	2.76173657	
GTF2A2	-0.34904117	0.09066069	-2.76228598	
BBS7	-0.34904511	0.09066069	-2.76232145	
TRAF3IP3	0.34901495	0.09066069	2.76204964	
PLVAP	0.34900378	0.09066069	2.76194904	yes
CNOT10	-0.34886743	0.09085483	-2.76072043	
KCNH8	0.34868705	0.09103797	2.75909541	
MARVELD2	-0.34868796	0.09103797	-2.75910361	yes
HTRA4	0.34874258	0.09103797	2.75959557	
SCARF1	0.34871785	0.09103797	2.75937282	
TNFRSF10A	0.34862266	0.09112633	2.75851536	
TMEM86B	0.34854211	0.09125036	2.75778982	
XKR6	0.34850622	0.09127608	2.75746664	yes
HBXIP	-0.34833977	0.09134275	-2.75596771	
TXNIP	-0.34844403	0.09134275	-2.75690659	
ZFP64	-0.34839048	0.09134275	-2.75642429	
TXN	-0.34837180	0.09134275	-2.75625608	

ZIC2	0.34841123	0.09134275	2.75661116	
KIAA0427	0.34833093	0.09134275	2.75588809	yes
SEMA6B	0.34825517	0.09141707	2.75520599	yes
CSNK2A2	-0.34822486	0.09141707	-2.75493308	
JPH3	0.34824554	0.09141707	2.75511928	
LOC284297	0.34816559	0.09148640	2.75439946	
HIST1H4F	-0.34814524	0.09148640	-2.75421628	
VPS25	-0.34808426	0.09156785	-2.75366736	
KTN1	-0.34803657	0.09162001	-2.75323809	
FARS2	-0.34800003	0.09164758	-2.75290924	
PHPT1	0.34786831	0.09186437	2.75172376	
ACVR2A	-0.34785391	0.09186437	-2.75159412	
UBA2	-0.34758506	0.09238017	-2.74917515	
DUOXA1	-0.34757335	0.09238017	-2.74906980	
B4GALT4	-0.34751450	0.09245766	-2.74854034	
SPTLC1	-0.34741858	0.09256429	-2.74767761	
C2orf64	-0.34742635	0.09256429	-2.74774742	
CLIP1	-0.34737278	0.09261287	-2.74726565	yes
STAM2	-0.34724989	0.09272651	-2.74616043	yes
CRTC1	0.34726522	0.09272651	2.74629829	yes
SCRN3	-0.34725678	0.09272651	-2.74622243	
FLJ32065	-0.34708500	0.09282747	-2.74467777	
EPHB1	0.34716092	0.09282747	2.74536042	yes
ESPNL	0.34710607	0.09282747	2.74486722	
IER5L	0.34708588	0.09282747	2.74468566	
ANKDD1B	-0.34710560	0.09282747	-2.74486295	
RNASEN	-0.34704779	0.09285719	-2.74434322	
ZBTB33	-0.34686457	0.09298629	-2.74269614	
USP39	-0.34684684	0.09298629	-2.74253682	
UTS2R	0.34688808	0.09298629	2.74290747	
MDM2	-0.34689340	0.09298629	-2.74295529	
CRTC3	0.34688598	0.09298629	2.74288860	
RQCD1	-0.34695277	0.09298629	-2.74348901	yes

SHQ1	-0.34675690	0.09303840	-2.74172841	
BBS4	-0.34675211	0.09303840	-2.74168535	
TNFRSF14	0.34675506	0.09303840	2.74171187	
ING2	-0.34669670	0.09310907	-2.74118743	
ALS2CR8	-0.34665615	0.09314658	-2.74082301	
LONP2	-0.34662662	0.09315949	-2.74055761	
KATNA1	-0.34653993	0.09330029	-2.73977872	yes
PTCH2	0.34651347	0.09330639	2.73954092	
KLRC1	0.34648618	0.09331435	2.73929575	
TRIM13	-0.34639112	0.09335069	-2.73844171	
RHOA	-0.34632781	0.09335069	-2.73787301	
C19orf10	0.34633518	0.09335069	2.73793924	
PRUNE	-0.34636701	0.09335069	-2.73822515	
LOC643751	-0.34640981	0.09335069	-2.73860965	
SLIT3	0.34634519	0.09335069	2.73802911	
GRSF1	-0.34622426	0.09352968	-2.73694288	
TMSB15A	0.34612021	0.09370247	2.73600835	
IL18RAP	0.34609997	0.09370247	2.73582658	
MTX2	-0.34602730	0.09370657	-2.73517399	
SH3BP4	0.34602823	0.09370657	2.73518242	
ACBD5	-0.34604327	0.09370657	-2.73531743	
RPS3AP5	-0.34597199	0.09372484	-2.73467737	
FCF1	-0.34597714	0.09372484	-2.73472364	
CACNB1	0.34591960	0.09378956	2.73420695	
GSTM3	-0.34588571	0.09381276	-2.73390268	
CHRN1	0.34579595	0.09388376	2.73309690	
C2orf57	0.34575998	0.09388376	2.73277395	
ERAS	0.34577489	0.09388376	2.73290785	
SPRR2F	0.34582687	0.09388376	2.73337449	
KIAA1429	-0.34571793	0.09389899	-2.73239646	
GMIP	0.34565925	0.09389899	2.73186980	
TRIM54	0.34569063	0.09389899	2.73215147	yes
RB1CC1	-0.34568174	0.09389899	-2.73207167	

C17orf28	0.34562275	0.09392831	2.73154214	
GPR61	0.34558372	0.09396331	2.73119190	
GNG12	-0.34548694	0.09412829	-2.73032334	
ERBB2IP	-0.34543677	0.09418851	-2.72987307	
PARVB	0.34533159	0.09423916	2.72892932	yes
PGM2	-0.34534348	0.09423916	-2.72903601	
RPAP3	-0.34534295	0.09423916	-2.72903127	
BPIL1	0.34532065	0.09423916	2.72883122	
PGPEP1	0.34526073	0.09426884	2.72829357	
DISP1	-0.34528286	0.09426884	-2.72849215	
MGC24975	0.34519862	0.09429325	2.72773637	
ATP2B4	-0.34521519	0.09429325	-2.72788500	
HOMER1	-0.34517986	0.09429325	-2.72756807	
OR2AK2	0.34513839	0.09433413	2.72719606	
FBXO28	-0.34508953	0.09437428	-2.72675777	yes
UNC84A	-0.34507396	0.09437428	-2.72661813	
SEPHS2	0.34494857	0.09439468	2.72549349	
SELV	0.34500377	0.09439468	2.72598862	
LOC387745	0.34495069	0.09439468	2.72551257	
ACHE	0.34494855	0.09439468	2.72549339	yes
AHNAK	-0.34500173	0.09439468	-2.72597028	
AADAT	-0.34490315	0.09444465	-2.72508619	
NONO	-0.34486815	0.09447118	-2.72477235	
WARS2	-0.34478937	0.09449185	-2.72406588	
ZFP92	0.34479574	0.09449185	2.72412304	
FAM63B	-0.34479211	0.09449185	-2.72409048	
BAG1	-0.34472980	0.09457391	-2.72353183	
CD300E	0.34462392	0.09465604	2.72258252	
ASAM	0.34463117	0.09465604	2.72264754	
ZC3H8	-0.34465605	0.09465604	-2.72287054	
PDK1	0.34459946	0.09465899	2.72236329	
SESN1	-0.34441261	0.09471576	-2.72068835	
GUCA2B	0.34442760	0.09471576	2.72082271	

ISY1	-0.34444469	0.09471576	-2.72097590	
SLC46A2	0.34446837	0.09471576	2.72118821	
TRGV2	0.34442381	0.09471576	2.72078882	
SMC6	-0.34454647	0.09471576	-2.72188821	
RPAIN	-0.34446458	0.09471576	-2.72115419	
PLA2G5	0.34438733	0.09472076	2.72046183	
SAC3D1	0.34430470	0.09485535	2.71972127	
NMU	-0.34425843	0.09485580	-2.71930664	
STK35	-0.34428048	0.09485580	-2.71950426	
NCRNA00085	0.34415845	0.09494639	2.71841076	
TECPRI	0.34414933	0.09494639	2.71832904	
PDF	0.34419223	0.09494639	2.71871345	
FGF20	0.34407418	0.09506437	2.71765581	
RP11-278E11.2	-0.34398123	0.09511878	-2.71682309	
ABCD3	-0.34399355	0.09511878	-2.71693342	
CHD6	-0.34402073	0.09511878	-2.71717694	
EV1	-0.34387047	0.09526767	-2.71583092	yes
F11R	-0.34386962	0.09526767	-2.71582333	
PFKM	-0.34378973	0.09539685	-2.71510776	
AKAP9	-0.34374563	0.09543363	-2.71471283	
ST8SIA4	-0.34372768	0.09543363	-2.71455206	
KCMF1	-0.34369591	0.09545374	-2.71426759	
MAGI3	-0.34354143	0.09564870	-2.71288431	
GTF2A1	-0.34354441	0.09564870	-2.71291100	
SCARNA8	0.34354611	0.09564870	2.71292617	
OSBPL9	-0.34326394	0.09591633	-2.71040022	
C9orf93	-0.34326889	0.09591633	-2.71044453	
C11orf21	0.34332112	0.09591633	2.71091201	
MYBPHL	0.34331592	0.09591633	2.71086541	
C3orf18	0.34336254	0.09591633	2.71128278	
CCL11	0.34330193	0.09591633	2.71074024	
H2AFY	-0.34330297	0.09591633	-2.71074956	yes
ZNF774	0.34323509	0.09593012	2.71014194	

FLJ44477	0.34321197	0.09593085	2.70993505	
TDRD10	0.34297867	0.09616964	2.70784723	
EHHADH	-0.34303339	0.09616964	-2.70833685	
FECH	-0.34303861	0.09616964	-2.70838357	
LMBRD1	-0.34296488	0.09616964	-2.70772392	
PTGIR	0.34294796	0.09616964	2.70757245	
CEP97	-0.34300914	0.09616964	-2.70811995	
DENND2D	0.34296080	0.09616964	2.70768740	
EMR4P	0.34290035	0.09622646	2.70714648	
ESR1	0.34273857	0.09633335	2.70569921	
ODZ4	-0.34279722	0.09633335	-2.70622392	
NBR1	-0.34273664	0.09633335	-2.70568193	
UNC93A	0.34281673	0.09633335	2.70639840	
TBC1D19	-0.34271745	0.09633335	-2.70551028	
PCGF6	0.34275677	0.09633335	2.70586203	
TRAM2	0.34262486	0.09649320	2.70468216	
LOC100133401	0.34260158	0.09649466	2.70447393	
TAPBP	0.34229763	0.09708782	2.70175596	
SGPP1	0.34231879	0.09708782	2.70194519	
HMCN2	0.34225435	0.09713529	2.70136909	
NCAPG2	-0.34222507	0.09715062	-2.70110726	
NUDT5	-0.34219301	0.09717236	-2.70082065	
SELM	0.34213399	0.09725616	2.70029308	yes
MYO16	0.34203228	0.09735574	2.69938402	
TIPRL	-0.34197908	0.09735574	-2.69890854	
CCDC48	0.34199703	0.09735574	2.69906896	
CD247	0.34197788	0.09735574	2.69889777	
OXSR1	-0.34198455	0.09735574	-2.69895736	
NET1	-0.34184811	0.09744712	-2.69773804	
FRK	-0.34190633	0.09744712	-2.69825834	yes
AK5	0.34185112	0.09744712	2.69776498	
SLMO2	-0.34187306	0.09744712	-2.69796106	yes
MED6	-0.34172077	0.09753328	-2.69660026	yes

RSPO1	0.34173340	0.09753328	2.69671308	
PCK2	0.34173342	0.09753328	2.69671325	
PDPR	-0.34176880	0.09753328	-2.69702938	
EXOC6B	-0.34164326	0.09760308	-2.69590775	
KLK12	0.34165097	0.09760308	2.69597665	
EAPP	-0.34162313	0.09760308	-2.69572796	
HAMP	0.34148322	0.09782542	2.69447812	
TRIP12	-0.34148195	0.09782542	-2.69446680	
C6orf122	0.34140418	0.09795336	2.69377220	
AHSA1	-0.34127257	0.09804461	-2.69259682	
TDRKH	0.34126522	0.09804461	2.69253117	
FBXO41	0.34130295	0.09804461	2.69286816	
IGLL1	0.34125276	0.09804461	2.69241995	
TWIST1	0.34134068	0.09804461	2.69320505	
IFT80	-0.34121680	0.09807606	-2.69209887	
COPS4	-0.34099588	0.09853654	-2.69012640	
CCDC144NL	0.34084482	0.09859560	2.68877802	
NDUFC1	-0.34084077	0.09859560	-2.68874191	
SLC35E3	-0.34092160	0.09859560	-2.68946337	
KIAA1219	-0.34084046	0.09859560	-2.68873910	
PCBD2	-0.34084093	0.09859560	-2.68874326	
CD72	0.34083645	0.09859560	2.68870332	
CSF1R	0.34080146	0.09862509	2.68839102	
STAT4	0.34065353	0.09891747	2.68707088	
LOC552889	-0.34061914	0.09894567	-2.68676399	yes
CSTA	-0.34058897	0.09895219	-2.68649478	
CPLX3	0.34057179	0.09895219	2.68634149	
APTX	-0.34053398	0.09898844	-2.68600409	yes
ZNF561	-0.34049678	0.09902329	-2.68567218	yes
SHFM1	-0.34042997	0.09912724	-2.68507614	
HIPK3	-0.34035718	0.09918642	-2.68442682	yes
WBP11	-0.34029935	0.09918642	-2.68391092	
BRWD2	-0.34035045	0.09918642	-2.68436683	

KIAA1468	-0.34030830	0.09918642	-2.68399083	yes
TBXA2R	0.34029353	0.09918642	2.68385902	
RAD54B	-0.34023908	0.09920437	-2.68337337	
TRBV28	0.34023088	0.09920437	2.68330024	
IRF7	0.34021930	0.09920437	2.68319698	
MAP3K7IP3	-0.34012815	0.09936549	-2.68238406	yes
INTS2	-0.34008651	0.09941103	-2.68201272	
RAD23B	-0.33998423	0.09952046	-2.68110067	
HIVEP3	0.33998880	0.09952046	2.68114138	
ARHGAP25	0.33997331	0.09952046	2.68100331	
ACADM	-0.33989101	0.09955786	-2.68026944	
PAFAH1B1	-0.33990926	0.09955786	-2.68043216	
C16orf58	0.33992630	0.09955786	2.68058412	
PRR4	0.33975668	0.09973374	2.67907195	
SERINC5	-0.33977470	0.09973374	-2.67923257	
HLA-DQA1	0.33974964	0.09973374	2.67900917	
SEC31B	0.33971273	0.09976852	2.67868017	
LOC404266	0.33964110	0.09981718	2.67804174	
CDCA7L	-0.33962583	0.09981718	-2.67790561	
NUCKS1	-0.33965053	0.09981718	-2.67812571	
C11orf20	0.33954984	0.09990174	2.67722833	yes
CDKN2AIP	-0.33954572	0.09990174	-2.67719159	
C21orf81	-0.33951996	0.09991054	-2.67696199	
PTCHD2	0.33943541	0.10000568	2.67620857	
MASTL	-0.33944786	0.10000568	-2.67631954	
IRAK2	0.33941320	0.10000622	2.67601065	
PRMT5	-0.33930659	0.10001678	-2.67506076	
DIS3L	-0.33934927	0.10001678	-2.67544098	
CYP2F1	-0.33927487	0.10001678	-2.67477815	
GMPPA	0.33929480	0.10001678	2.67495572	
MDS1	-0.33921880	0.10001678	-2.67427857	
ETNK2	-0.33924082	0.10001678	-2.67447480	
SCN1B	0.33921281	0.10001678	2.67422526	

MCCC2	-0.33921129	0.10001678	-2.67421171
ARMC5	0.33936917	0.10001678	2.67561837
CTNNA1	-0.33912718	0.10003500	-2.67346246
SULT2B1	-0.33914892	0.10003500	-2.67365612
LAPTM5	0.33911603	0.10003500	2.67336315
SLC43A1	0.33916866	0.10003500	2.67383194
C6orf58	0.33905190	0.10008295	2.67279192
MID1IP1	-0.33905689	0.10008295	-2.67283635
EVI2B	0.33892327	0.10023592	2.67164624
LOC220077	0.33892127	0.10023592	2.67162842
HSP90AB1	-0.33893097	0.10023592	-2.67171486
ARL6IP1	-0.33885438	0.10034184	-2.67103274
C10orf99	-0.33882922	0.10034974	-2.67080870
ARID3C	0.33866508	0.10039460	2.66934726
LCN1L1	0.33865781	0.10039460	2.66928249
GTF2H3	-0.33873212	0.10039460	-2.66994406
TESSP5	0.33874459	0.10039460	2.67005518
OR6C1	0.33867244	0.10039460	2.66941277
SLC2A4RG	0.33877054	0.10039460	2.67028620
NDRG3	-0.33871076	0.10039460	-2.66975388
WDR88	0.33859606	0.10044962	2.66873276
PDE1B	0.33859097	0.10044962	2.66868740
MAGEB6	0.33854239	0.10048632	2.66825495
HNF4A	0.33852997	0.10048632	2.66814438
FASTKD5	-0.33850774	0.10048632	-2.66794656
C14orf143	-0.33848859	0.10048632	-2.66777608
MYBPC2	0.33843740	0.10051691	2.66732044
CGNL1	0.33843225	0.10051691	2.66727460
ZBTB46	0.33837495	0.10054986	2.66676457
SRPR	0.33839099	0.10054986	2.66690735
AGTPBP1	-0.33834776	0.10056293	-2.66652258
FBXO3	-0.33832327	0.10056968	-2.66630461
PPP2R2A	-0.33823805	0.10071936	-2.66554622

SERPINA1	0.33808602	0.10087400	2.66419354	
RPL30	-0.33811389	0.10087400	-2.66444151	
CA7	0.33811613	0.10087400	2.66446142	
KATNAL2	-0.33809445	0.10087400	-2.66426849	
LIAS	-0.33790452	0.10118173	-2.66257882	yes
TTLL5	-0.33785572	0.10118173	-2.66214470	yes
ATXN10	-0.33787437	0.10118173	-2.66231061	
AMZ2	-0.33786363	0.10118173	-2.66221507	
ST13	-0.33784782	0.10118173	-2.66207450	
NIPBL	-0.33774441	0.10135350	-2.66115472	
FBN3	0.33773210	0.10135350	2.66104524	
HEXDC	0.33764736	0.10150313	2.66029168	yes
RAB11FIP5	0.33761205	0.10153581	2.65997764	
C16orf63	-0.33750052	0.10174927	-2.65898593	
RYR1	0.33740488	0.10192533	2.65813562	
B3GALT6	0.33718175	0.10236442	2.65615220	
AMACR	-0.33717746	0.10236442	-2.65611404	
CLEC14A	0.33704910	0.10259528	2.65497330	yes
GPR37L1	0.33703777	0.10259528	2.65487262	
SNORD116-24	0.33693436	0.10263425	2.65395367	
CTCF	-0.33696499	0.10263425	-2.65422583	
LYPD5	0.33692464	0.10263425	2.65386730	
IPP	-0.33691413	0.10263425	-2.65377395	yes
KCNT1	0.33691745	0.10263425	2.65380344	
TNP2	0.33681543	0.10276774	2.65289699	
C12orf29	-0.33681727	0.10276774	-2.65291333	
LOC100133422	-0.33668808	0.10302135	-2.65176568	yes
FRMD4B	-0.33660219	0.10302580	-2.65100274	
SETD2	-0.33664407	0.10302580	-2.65137473	
LCP1	0.33655783	0.10302580	2.65060877	
DYNC2H1	-0.33663127	0.10302580	-2.65126106	
CD80	0.33656466	0.10302580	2.65066944	
DEPDC5	-0.33656767	0.10302580	-2.65069618	

ARL4C	0.33645098	0.10323077	2.64965986	
LRRTM1	0.33640382	0.10325582	2.64924104	
SSBP1	-0.33639783	0.10325582	-2.64918782	
PMPCB	-0.33637219	0.10326611	-2.64896018	
APCDD1L	0.33631125	0.10336121	2.64841905	
CCDC9	0.33627316	0.10340148	2.64808080	yes
COL4A4	0.33620067	0.10347322	2.64743719	
SLC26A5	-0.33620846	0.10347322	-2.64750635	
C1orf71	-0.33614860	0.10349643	-2.64697497	
KIAA1328	-0.33614841	0.10349643	-2.64697324	
UBE2V2	-0.33607780	0.10361504	-2.64634647	
COX6C	-0.33602830	0.10368294	-2.64590708	
ELMOD2	-0.33596138	0.10375176	-2.64531313	
CXCL12	0.33595718	0.10375176	2.64527577	
BLOC1S2	-0.33580855	0.10405888	-2.64395674	
INPP5D	0.33577990	0.10407673	2.64370246	
MRPS28	-0.33568575	0.10418326	-2.64286711	
GUSBL1	-0.33567207	0.10418326	-2.64274566	
DNAJA4	-0.33568979	0.10418326	-2.64290293	yes
PLK2	0.33561683	0.10421417	2.64225557	
SNRNP40	-0.33562923	0.10421417	-2.64236558	
APITD1	-0.33550809	0.10442586	-2.64129085	
TALDO1	-0.33548685	0.10442593	-2.64110250	
CACNB4	0.33545093	0.10446157	2.64078385	
KIAA1274	0.33538803	0.10454875	2.64022586	
RHCG	-0.33537257	0.10454875	-2.64008872	
DLD	-0.33525809	0.10462175	-2.63907338	
NDUFAF1	-0.33521305	0.10462175	-2.63867398	
CENPQ	-0.33526538	0.10462175	-2.63913810	
RPS6	-0.33527263	0.10462175	-2.63920238	
SNORA51	0.33519440	0.10462175	2.63850862	
STK10	0.33521265	0.10462175	2.63867041	
HIATL1	-0.33522449	0.10462175	-2.63877541	

MMP21	0.33508768	0.10471589	2.63756231	
KCNV2	0.33508654	0.10471589	2.63755214	
EP400NL	0.33508320	0.10471589	2.63752254	
FAM46C	0.33507115	0.10471589	2.63741574	
LDLRAD2	0.33498993	0.10486176	2.63669557	
XCR1	0.33485749	0.10513229	2.63552150	
FOLR2	0.33464235	0.10548119	2.63361454	
MKRN1	-0.33452228	0.10548119	-2.63255055	
TMEM52	0.33451362	0.10548119	2.63247381	
PNPLA7	0.33451579	0.10548119	2.63249300	
PCOLCE	0.33463368	0.10548119	2.63353773	
KIF26B	0.33460097	0.10548119	2.63324788	
SLAIN2	-0.33457687	0.10548119	-2.63303431	
LRRC4C	0.33462868	0.10548119	2.63349343	
SPRR1B	-0.33448720	0.10548119	-2.63223969	
TNFAIP6	0.33448282	0.10548119	2.63220085	
WDR67	-0.33464666	0.10548119	-2.63365282	
GPR107	-0.33444640	0.10548795	-2.63187823	
LY86	0.33443808	0.10548795	2.63180449	
POLR3F	-0.33421921	0.10556221	-2.62986541	
FOXN3	-0.33429956	0.10556221	-2.63057720	
TRAJ41	0.33436543	0.10556221	2.63116080	
IRGC	0.33425719	0.10556221	2.63020185	
PTS	-0.33431485	0.10556221	-2.63071267	
RPL13	0.33428437	0.10556221	2.63044262	
TSPYL2	0.33422984	0.10556221	2.62995960	
YEATS4	-0.33421993	0.10556221	-2.62987186	
ARHGAP19	-0.33422675	0.10556221	-2.62993227	
BCAS2	-0.33410672	0.10559765	-2.62886909	
MGEA5	-0.33411331	0.10559765	-2.62892739	
TDRD7	-0.33404858	0.10559765	-2.62835416	yes
HK3	0.33403777	0.10559765	2.62825840	
OR7A10	0.33407863	0.10559765	2.62862025	

PRMT6	-0.33412115	0.10559765	-2.62899687	
RALA	-0.33412411	0.10559765	-2.62902305	
TRIM47	0.33405555	0.10559765	2.62841588	
PTK2B	0.33388630	0.10587130	2.62691704	
HIST1H2BF	-0.33388393	0.10587130	-2.62689606	
EP300	-0.33382990	0.10595243	-2.62641761	
STXBP4	-0.33370711	0.10607064	-2.62533045	
AMDHD2	0.33371674	0.10607064	2.62541576	
AVPR2	0.33370129	0.10607064	2.62527897	
ATXN2	-0.33369835	0.10607064	-2.62525294	yes
DTNB	0.33366848	0.10608283	2.62498848	
NAPEPLD	-0.33358957	0.10608283	-2.62428999	
C22orf34	0.33362702	0.10608283	2.62462144	
TMEM200B	0.33364992	0.10608283	2.62482422	
FZD8	0.33360954	0.10608283	2.62446678	
UNKL	0.33354320	0.10614550	2.62387956	yes
ZFAND5	-0.33347056	0.10627252	-2.62323657	
A1BG	0.33340062	0.10639305	2.62261756	yes
ITGA2	-0.33336785	0.10642258	-2.62232756	
C3orf10	-0.33331724	0.10649585	-2.62187974	
FAM71B	0.33325541	0.10655424	2.62133257	
UCHL5IP	0.33323135	0.10655424	2.62111971	
PUM1	-0.33324427	0.10655424	-2.62123399	
COX7C	-0.33317897	0.10661779	-2.62065622	
INSL3	0.33316409	0.10661779	2.62052461	
MTHFD2	0.33305533	0.10682659	2.61956233	
PLXND1	0.33289336	0.10682659	2.61812959	yes
HCLS1	0.33291971	0.10682659	2.61836269	
MLLT4	-0.33289640	0.10682659	-2.61815646	yes
LRRC52	0.33302145	0.10682659	2.61926267	
SEP11	-0.33301395	0.10682659	-2.61919631	
ALS2	-0.33294615	0.10682659	-2.61859654	
SSTR2	0.33296444	0.10682659	2.61875831	

CCS	0.33297265	0.10682659	2.61883094	
CXCL10	0.33279291	0.10688037	2.61724117	
SPAST	-0.33279352	0.10688037	-2.61724661	
PRR14	0.33278914	0.10688037	2.61720789	
TMEM14B	-0.33283009	0.10688037	-2.61757006	yes
FAM82B	-0.33275200	0.10692112	-2.61687936	
ETV1	0.33264133	0.10714271	2.61590077	
RNF183	0.33260058	0.10719243	2.61554046	
SLC6A7	0.33257916	0.10719461	2.61535099	
RPP38	-0.33254891	0.10720289	-2.61508357	
PTGER3	0.33253473	0.10720289	2.61495822	
EGF	0.33250233	0.10723216	2.61467173	
EXOC4	-0.33245217	0.10725303	-2.61422828	
SNORA20	0.33243235	0.10725303	2.61405305	yes
KCNK5	0.33245248	0.10725303	2.61423100	
SP6	0.33237204	0.10735111	2.61351991	
NKAIN3	0.33230528	0.10741471	2.61292980	
PLEKHG2	0.33230646	0.10741471	2.61294019	
CDKN2C	-0.33228186	0.10742199	-2.61272280	
C1orf157	0.33216717	0.10765448	2.61170910	
METTL6	-0.33207427	0.10774722	-2.61088810	
PYHIN1	0.33207883	0.10774722	2.61092847	
AZIN1	-0.33206828	0.10774722	-2.61083520	yes
HEY2	-0.33197989	0.10790572	-2.61005416	
SRP14	-0.33196330	0.10790572	-2.60990760	
SMEK2	-0.33191479	0.10792473	-2.60947893	
SNORA55	0.33193394	0.10792473	2.60964812	
STIP1	-0.33189241	0.10792960	-2.60928127	
SAPS3	-0.33186897	0.10793715	-2.60907411	yes
LBH	0.33180540	0.10804400	2.60851251	
CRYBA2	0.33170638	0.10823880	2.60763782	
IFI44L	0.33161125	0.10837366	2.60679759	
ITPRIPL1	0.33162855	0.10837366	2.60695035	

LOC255374	0.33149695	0.10855634	2.60578814	
PRB3	0.33150940	0.10855634	2.60589803	
DDI2	-0.33146992	0.10857294	-2.60554942	
GCKR	0.33144113	0.10859393	2.60529516	
WDR40A	-0.33140455	0.10859540	-2.60497214	
TMEM40	-0.33139987	0.10859540	-2.60493081	
LOC100128003	0.33135728	0.10865074	2.60455474	
EMP3	0.33133306	0.10866044	2.60434089	
POLD3	-0.33128710	0.10866970	-2.60393513	
F10	0.33120761	0.10866970	2.60323330	
MOCS3	-0.33125221	0.10866970	-2.60362707	yes
CALHM2	0.33121772	0.10866970	2.60332259	
ZNF426	-0.33123213	0.10866970	-2.60344979	
ARHGEF1	0.33126878	0.10866970	2.60377341	
CENPV	0.33113416	0.10870123	2.60258493	
C19orf66	0.33113599	0.10870123	2.60260107	
TRABD	0.33114497	0.10870123	2.60268037	
SC5DL	-0.33104709	0.10886744	-2.60181630	
TMEM48	-0.33101840	0.10888848	-2.60156310	
ADAM10	-0.33092889	0.10906102	-2.60077307	
FERMT1	-0.33088833	0.10909333	-2.60041515	
CNTNAP1	0.33087549	0.10909333	2.60030179	yes
ZMYND8	-0.33083578	0.10914194	-2.59995135	
LOC728361	0.33081346	0.10914723	2.59975439	
REXO2	-0.33071639	0.10928861	-2.59889793	
CTSF	0.33072876	0.10928861	2.59900701	
LYPD3	-0.33066663	0.10931209	-2.59845888	
GPR174	0.33067723	0.10931209	2.59855234	
MRPL51	-0.33063610	0.10933797	-2.59818949	
APC2	0.33050325	0.10936800	2.59701747	
WDR31	-0.33053547	0.10936800	-2.59730169	
MMP9	0.33051127	0.10936800	2.59708824	
PHIP	-0.33053775	0.10936800	-2.59732184	

FAM62B	-0.33052138	0.10936800	-2.59717738	
RUFY1	-0.33059209	0.10936800	-2.59780119	
CCR5	0.33043823	0.10948013	2.59644391	
HSP90AA1	-0.33035842	0.10952887	-2.59574000	
PPT2	-0.33037354	0.10952887	-2.59587335	
MORF4L2	-0.33039192	0.10952887	-2.59603543	yes
CDKN1C	0.33009669	0.10953210	2.59343189	
RTF1	-0.33013253	0.10953210	-2.59374788	
UCRC	-0.33017726	0.10953210	-2.59414236	
NHLRC2	-0.33029224	0.10953210	-2.59515628	
SMAD9	0.33012601	0.10953210	2.59369041	
TMEM214	0.33027707	0.10953210	2.59502256	
JMJD1A	-0.33017295	0.10953210	-2.59410433	
RAF1	-0.33025316	0.10953210	-2.59481167	
EPS8L3	0.33011706	0.10953210	2.59361151	
WDR76	-0.33009689	0.10953210	-2.59343361	
CALM2	-0.33019092	0.10953210	-2.59426279	
ASH2L	-0.33026008	0.10953210	-2.59487270	
AIM2	0.33026759	0.10953210	2.59493889	
ZNF787	0.33005259	0.10959232	2.59304302	
NDUFS4	-0.33003235	0.10959298	-2.59286462	
LOC100131017	0.32986781	0.10960556	2.59141405	
CENPE	-0.32998326	0.10960556	-2.59243182	
RNF157	0.32987765	0.10960556	2.59150075	
CST4	0.33000486	0.10960556	2.59262222	
TOX3	0.32990295	0.10960556	2.59172379	
UEVLD	-0.32996620	0.10960556	-2.59228139	
ATP13A4	-0.32987504	0.10960556	-2.59147778	
NEK9	-0.32987128	0.10960556	-2.59144458	
DSTN	-0.32978691	0.10963722	-2.59070088	
SLC16A9	-0.32975569	0.10963722	-2.59042573	
PAX5	0.32975986	0.10963722	2.59046251	
ZCCHC17	-0.32978344	0.10963722	-2.59067034	

DENR	-0.32980706	0.10963722	-2.59087857	
GSTA2	-0.32965778	0.10978251	-2.58956277	
C2orf49	-0.32967197	0.10978251	-2.58968786	
SLC25A36	-0.32962446	0.10981615	-2.58926917	
MAPK11	0.32957856	0.10983646	2.58886464	yes
MGC16121	0.32957039	0.10983646	2.58879265	
TAX1BP1	-0.32955682	0.10983646	-2.58867308	yes
PLEKHA7	-0.32932429	0.10988306	-2.58662424	
DRD4	0.32932207	0.10988306	2.58660476	
SLC26A11	0.32932367	0.10988306	2.58661883	
C5orf51	-0.32944343	0.10988306	-2.58767394	
HOXB3	0.32950854	0.10988306	2.58824763	
FAM60A	-0.32932052	0.10988306	-2.58659108	yes
SNORD32B	0.32936120	0.10988306	2.58694948	
CLEC3B	0.32942203	0.10988306	2.58748538	yes
TTF1	-0.32947736	0.10988306	-2.58797295	
GAL3ST4	0.32947256	0.10988306	2.58793064	yes
IFI27L2	0.32935661	0.10988306	2.58690904	
TMEM194A	-0.32923341	0.11000036	-2.58582365	
GBX2	0.32920103	0.11000036	2.58553843	
HSD17B12	-0.32921237	0.11000036	-2.58563834	
SCN5A	0.32919466	0.11000036	2.58548235	
TEX101	0.32915927	0.11003955	2.58517063	
ARIH1	-0.32907654	0.11019722	-2.58444191	
SNORA62	0.32905586	0.11019964	2.58425986	
SLC30A9	-0.32898916	0.11026802	-2.58367242	
S100B	0.32896949	0.11026802	2.58349916	
EEPD1	-0.32898718	0.11026802	-2.58365500	
COL5A1	0.32894228	0.11028688	2.58325959	yes
FMNL2	0.32881559	0.11045651	2.58214404	
PCMTD2	-0.32885276	0.11045651	-2.58247126	
FAM65A	0.32882274	0.11045651	2.58220694	yes
ASPHD1	0.32874171	0.11058810	2.58149355	

ANXA11	-0.32872384	0.11058810	-2.58133615	
EIF5	-0.32868129	0.11064560	-2.58096158	yes
LOC100130503	0.32860532	0.11065321	2.58029281	
RABAC1	0.32859576	0.11065321	2.58020864	
EGFLAM	0.32858018	0.11065321	2.58007152	
PLA2G2A	0.32864201	0.11065321	2.58061576	
ECOP	0.32861537	0.11065321	2.58038127	
FAM117A	0.32854301	0.11069732	2.57974436	
SQLI	-0.32850520	0.11074308	-2.57941150	
CRYGA	0.32843607	0.11086755	2.57880309	
C9orf5	-0.32839068	0.11093244	-2.57840361	
PKP1	-0.32832851	0.11099038	-2.57785645	
SOX2	-0.32834292	0.11099038	-2.57798332	
ADNP	-0.32821111	0.11105208	-2.57682343	
VAX2	0.32827882	0.11105208	2.57741920	
GPR25	0.32820627	0.11105208	2.57678080	
KCNJ16	-0.32822935	0.11105208	-2.57698388	
KRT9	0.32821643	0.11105208	2.57687027	
CXCL2	0.32810884	0.11110085	2.57592361	
IPO11	-0.32811145	0.11110085	-2.57594661	
RTN4	-0.32816204	0.11110085	-2.57639166	
RAN	-0.32813541	0.11110085	-2.57615736	
ADAMTS7	0.32804771	0.11120565	2.57538579	
ITK	0.32800215	0.11127131	2.57498497	
ARHGEF10	0.32795256	0.11134716	2.57454877	
LOC93432	0.32792515	0.11136717	2.57430763	
LRRC28	-0.32770794	0.11142531	-2.57239727	
CORT	0.32780896	0.11142531	2.57328572	
AWAT1	0.32777079	0.11142531	2.57295000	
PHACTR1	0.32776773	0.11142531	2.57292307	
PKN3	0.32775298	0.11142531	2.57279340	yes
MOGAT3	0.32782650	0.11142531	2.57344002	
NDUFAB1	-0.32786973	0.11142531	-2.57382020	

ATP1A1	-0.32768831	0.11142531	-2.57222469	
NPDC1	0.32780439	0.11142531	2.57324548	yes
ANP32E	-0.32769044	0.11142531	-2.57224340	
TTF2	-0.32773732	0.11142531	-2.57265563	
SSBP2	-0.32763594	0.11150845	-2.57176411	
LILRA1	0.32748265	0.11165541	2.57041635	
TOM1L2	-0.32754949	0.11165541	-2.57100400	
GALK1	0.32733619	0.11165541	2.56912870	
DKFZp564N2472	0.32732621	0.11165541	2.56904103	
GSN	-0.32737522	0.11165541	-2.56947183	
IK	-0.32745129	0.11165541	-2.57014061	
SMAD5	-0.32738722	0.11165541	-2.56957736	
OCLN	-0.32737622	0.11165541	-2.56948063	
FEV	0.32744525	0.11165541	2.57008752	
CHTF18	0.32735450	0.11165541	2.56928971	
ADAMTS10	0.32748478	0.11165541	2.57043499	yes
TSPAN10	0.32742538	0.11165541	2.56991278	
MED14	-0.32733987	0.11165541	-2.56916112	
RC3H1	-0.32726693	0.11167627	-2.56851994	yes
AKR1C1	-0.32727130	0.11167627	-2.56855836	
CPSF3	-0.32726008	0.11167627	-2.56845974	
NCKAP1	-0.32716217	0.11179865	-2.56759914	
ATHL1	0.32715378	0.11179865	2.56752542	
FYTTD1	-0.32719124	0.11179865	-2.56785463	yes
ATP11B	-0.32697587	0.11185942	-2.56596199	
FUT4	0.32699860	0.11185942	2.56616175	
MATN3	0.32705760	0.11185942	2.56668018	
MED31	-0.32703906	0.11185942	-2.56651729	
GOLPH3L	-0.32703085	0.11185942	-2.56644512	yes
REST	-0.32697710	0.11185942	-2.56597280	
MADCAM1	0.32701437	0.11185942	2.56630028	
CD84	0.32701065	0.11185942	2.56626757	
HSPA1A	-0.32693381	0.11186868	-2.56559241	

NHSL1	-0.32695286	0.11186868	-2.56575982	
CYP27B1	0.32686155	0.11200271	2.56495751	
MYST3	-0.32682263	0.11205260	-2.56461554	
METTL10	-0.32679194	0.11208170	-2.56434592	
HTRA1	0.32673538	0.11217624	2.56384906	yes
ADAMTS8	0.32668829	0.11222522	2.56343545	
GNAI3	-0.32667219	0.11222522	-2.56329397	
PCSK1	0.32665855	0.11222522	2.56317414	
RBX1	-0.32663187	0.11224429	-2.56293980	
C7orf31	0.32660888	0.11225402	2.56273794	
FAM173B	-0.32654825	0.11226229	-2.56220536	
RAD51L1	-0.32656088	0.11226229	-2.56231627	
RPS24	-0.32658560	0.11226229	-2.56253337	
GNAO1	0.32650942	0.11231218	2.56186436	yes
ASNS	0.32647630	0.11234768	2.56157343	
C20orf166	0.32637175	0.11256411	2.56065538	
RANBP9	-0.32631919	0.11262942	-2.56019383	
MRGPRD	0.32614511	0.11262942	2.55866541	
DNM1	0.32609629	0.11262942	2.55823680	
ABCA3	0.32611339	0.11262942	2.55838691	
FGR	0.32621077	0.11262942	2.55924190	
IGSF10	-0.32608709	0.11262942	-2.55815611	
VGLL1	0.32623128	0.11262942	2.55942194	
PLS1	-0.32612861	0.11262942	-2.55852055	
FKBP10	0.32615271	0.11262942	2.55873213	yes
ZFP37	-0.32607931	0.11262942	-2.55808775	
C19orf48	0.32628516	0.11262942	2.55989498	
MAPKSP1	-0.32620470	0.11262942	-2.55918857	
FADD	0.32610575	0.11262942	2.55831985	
KIAA0232	-0.32622940	0.11262942	-2.55940545	yes
CCRN4L	0.32590486	0.11290792	2.55655652	
MEG3	0.32589356	0.11290792	2.55645733	
TNRC6C	0.32592561	0.11290792	2.55673869	

GTF2IRD1	-0.32590917	0.11290792	-2.55659439	
CHIT1	0.32581255	0.11295300	2.55574641	
TOP2B	-0.32582048	0.11295300	-2.55581599	
ZBTB25	-0.32584940	0.11295300	-2.55606982	
FZD3	-0.32579994	0.11295300	-2.55563574	
LOC152118	0.32575231	0.11302584	2.55521776	
BPTF	-0.32563002	0.11314414	-2.55414473	
PMS2L4	-0.32568102	0.11314414	-2.55459218	
PRKAB2	-0.32563017	0.11314414	-2.55414607	
CPXM1	0.32563467	0.11314414	2.55418554	
SMC4	-0.32545064	0.11328670	-2.55257101	
FAM109A	0.32552509	0.11328670	2.55322411	
DHRS13	0.32548815	0.11328670	2.55290004	
KIAA0146	-0.32554531	0.11328670	-2.55340150	
TMEM105	0.32542465	0.11328670	2.55234297	
TM4SF1	-0.32543953	0.11328670	-2.55247354	
CCL4	0.32551068	0.11328670	2.55309769	
LOC651503	0.32542279	0.11328670	2.55232668	
GPR101	0.32539427	0.11331126	2.55207647	
GRM2	0.32535042	0.11337483	2.55169188	
STAG2	-0.32526826	0.11353605	-2.55097122	
MGST3	-0.32523785	0.11356550	-2.55070452	
GSTA3	-0.32515907	0.11361774	-2.55001364	
MNX1	0.32514201	0.11361774	2.54986401	
RB1	-0.32514719	0.11361774	-2.54990943	
KIAA0226	0.32514768	0.11361774	2.54991379	
CDS1	-0.32503717	0.11371989	-2.54894467	yes
C6orf195	0.32498305	0.11371989	2.54847021	
MIER3	-0.32506312	0.11371989	-2.54917221	
FOXL1	0.32495680	0.11371989	2.54823998	
XCL2	0.32493279	0.11371989	2.54802950	
TKT	-0.32495877	0.11371989	-2.54825726	
ZBTB17	0.32502105	0.11371989	2.54880338	

LRRFIP2	-0.32493712	0.11371989	-2.54806747	
TBCKL	-0.32502396	0.11371989	-2.54882891	
GPR176	0.32489146	0.11373024	2.54766720	
NOTCH4	0.32489121	0.11373024	2.54766497	
FAM76A	-0.32486546	0.11374810	-2.54743920	
BARHL2	0.32482815	0.11379545	2.54711213	
RBM16	-0.32480488	0.11380699	-2.54690819	
AEBP2	-0.32446326	0.11387870	-2.54391398	
JSRP1	0.32445926	0.11387870	2.54387895	
DECR1	-0.32469253	0.11387870	-2.54592329	
ZNF366	0.32453462	0.11387870	2.54453937	
ZNF585A	-0.32453491	0.11387870	-2.54454189	
ANKRD26	-0.32467898	0.11387870	-2.54580457	
LRRC32	0.32462958	0.11387870	2.54537160	
IL28A	0.32466746	0.11387870	2.54570360	
KIR2DL4	0.32450958	0.11387870	2.54431989	
LBR	-0.32469845	0.11387870	-2.54597523	
POLR1D	-0.32466076	0.11387870	-2.54564490	
IL20RA	-0.32449017	0.11387870	-2.54414984	
EXOSC10	-0.32447577	0.11387870	-2.54402361	
PANK3	-0.32466595	0.11387870	-2.54569040	
HSD3B7	0.32449183	0.11387870	2.54416433	
TIGD5	0.32454564	0.11387870	2.54463593	
CYP7B1	0.32448960	0.11387870	2.54414483	
CRISPLD2	0.32441248	0.11390306	2.54346901	
C9orf3	-0.32442896	0.11390306	-2.54361345	
MCOLN2	0.32439216	0.11390742	2.54329100	
CDK2AP2	0.32434407	0.11391839	2.54286959	
ANXA2	-0.32435393	0.11391839	-2.54295605	yes
KHK	0.32433208	0.11391839	2.54276459	
ST3GAL4	0.32428675	0.11398661	2.54236739	
ARNT	-0.32421145	0.11413133	-2.54170777	
RELT	0.32418241	0.11415808	2.54145331	

MATK	0.32415125	0.11419023	2.54118038	
CACNG2	0.32405813	0.11438077	2.54036471	
SOX9	0.32401677	0.11443909	2.54000244	
CEBPA	0.32346086	0.11459418	2.53513487	
CDC42EP1	0.32338405	0.11459418	2.53446256	
ZNF618	0.32347326	0.11459418	2.53524339	
CCDC5	-0.32339138	0.11459418	-2.53452666	
CCR7	0.32365630	0.11459418	2.53684582	
CLDND2	0.32348110	0.11459418	2.53531202	
CSE1L	-0.32391295	0.11459418	-2.53909311	
FAM53A	0.32377644	0.11459418	2.53789774	
TMEM92	0.32340311	0.11459418	2.53462938	
FAM162B	0.32356850	0.11459418	2.53607711	
WAPAL	-0.32371471	0.11459418	-2.53735724	
NTSR2	0.32351575	0.11459418	2.53561533	
ABL1	0.32360638	0.11459418	2.53640876	
RPS6KA6	-0.32351370	0.11459418	-2.53559737	
HIST1H2BD	-0.32359118	0.11459418	-2.53627568	
IL2RA	0.32350717	0.11459418	2.53554028	yes
LOC100133415	0.32340810	0.11459418	2.53467300	
PHOX2A	0.32374791	0.11459418	2.53764792	
NKX3-1	0.32341244	0.11459418	2.53471101	
WAC	-0.32372225	0.11459418	-2.53742323	
PHF1	0.32364262	0.11459418	2.53672607	
PIK3CG	0.32367815	0.11459418	2.53703713	
RMND1	-0.32350399	0.11459418	-2.53551237	
RAD21	-0.32381812	0.11459418	-2.53826267	
CCDC21	-0.32359388	0.11459418	-2.53629932	
FAM18A	0.32385530	0.11459418	2.53858828	
DCTN5	-0.32366895	0.11459418	-2.53695657	
CBX2	0.32355004	0.11459418	2.53591553	
PEX3	-0.32345127	0.11459418	-2.53505095	
OR6W1P	0.32374535	0.11459418	2.53762548	

USP10	-0.32352002	0.11459418	-2.53565272	yes
SLITRK6	-0.32333654	0.11466875	-2.53404670	
CWC15	-0.32325242	0.11483709	-2.53331050	
HHIP	0.32321125	0.11489556	2.53295019	
NCOA2	-0.32318503	0.11491574	-2.53272078	
SPACA3	0.32307654	0.11514692	2.53177143	
PRPSAP2	-0.32301647	0.11515998	-2.53124588	
RPL28	-0.32302534	0.11515998	-2.53132347	
TLE4	-0.32303254	0.11515998	-2.53138645	yes
SSR4	0.32297922	0.11520857	2.53092002	
MAPK14	-0.32289279	0.11526038	-2.53016389	
RCOR2	0.32291570	0.11526038	2.53036426	yes
ADCY10	0.32288585	0.11526038	2.53010312	
WNT5A	-0.32290174	0.11526038	-2.53024215	
FAM171A1	0.32285613	0.11528973	2.52984318	
RAMP1	0.32268336	0.11552684	2.52833196	yes
MESP2	0.32265427	0.11552684	2.52807755	
CHMP2B	-0.32269040	0.11552684	-2.52839357	yes
GUCY1A2	0.32268037	0.11552684	2.52830584	
C18orf22	-0.32266760	0.11552684	-2.52819415	
TOMM70A	-0.32272531	0.11552684	-2.52869886	
MMP7	0.32260659	0.11555563	2.52766056	
NFS1	-0.32260680	0.11555563	-2.52766240	
RASIP1	0.32256272	0.11562157	2.52727694	yes
RAB12	-0.32252118	0.11568155	-2.52691371	
YTHDF3	-0.32243054	0.11583471	-2.52612113	
TAS1R3	0.32242526	0.11583471	2.52607497	
FBXO45	-0.32231506	0.11604613	-2.52511147	
ADAMTS2	0.32230684	0.11604613	2.52503957	
HAPLN4	0.32227952	0.11606964	2.52480073	
LOC100129346	0.32219788	0.11609254	2.52408708	
C5orf47	0.32224504	0.11609254	2.52449937	
HADHB	-0.32223067	0.11609254	-2.52437372	

RSAD1	0.32220052	0.11609254	2.52411019
PHKG1	0.32215349	0.11616020	2.52369902
PYDC2	0.32207524	0.11626061	2.52301506
LOC348926	0.32205922	0.11626061	2.52287510
LIME1	0.32202380	0.11626061	2.52256552
NPAL2	-0.32207323	0.11626061	-2.52299749
LENG9	0.32203902	0.11626061	2.52269851
SLU7	-0.32190766	0.11632939	-2.52155056
CD160	0.32197048	0.11632939	2.52209949
RUFY4	0.32192920	0.11632939	2.52173874
C2orf27	-0.32190652	0.11632939	-2.52154060
ZBED3	0.32193932	0.11632939	2.52182720
RHO	0.32180375	0.11654824	2.52064259
KCNK4	0.32177782	0.11656848	2.52041599
RASAL1	0.32171008	0.11669697	2.51982410
TEX13B	0.32162495	0.11687064	2.51908041
PPP2R2D	-0.32156127	0.11698887	-2.51852413
SCAMP1	-0.32153735	0.11700399	-2.51831517
C17orf81	0.32149341	0.11707110	2.51793131
FGF4	0.32143134	0.11713836	2.51738917
HBP1	-0.32144392	0.11713836	-2.51749904
ZDHHC14	0.32136189	0.11727185	2.51678263
ARL4A	-0.32115422	0.11728013	-2.51496911
C1orf64	0.32134059	0.11728013	2.51659664
PPM1L	-0.32118113	0.11728013	-2.51520414
C21orf87	0.32117788	0.11728013	2.51517572
APOC4	0.32127279	0.11728013	2.51600453
ORC4L	-0.32118541	0.11728013	-2.51524145
PTPLAD1	-0.32114565	0.11728013	-2.51489430
ENPP3	0.32125995	0.11728013	2.51589240
CCDC146	-0.32121650	0.11728013	-2.51551294
RSC1A1	-0.32126125	0.11728013	-2.51590371
FLJ44054	0.32112427	0.11728013	2.51470760

TEAD4	0.32113257	0.11728013	2.51478007	
UCHL1	-0.32116465	0.11728013	-2.51506024	
HTR3D	0.32110334	0.11728776	2.51452487	
KIF24	-0.32105747	0.11731350	-2.51412437	
CUL3	-0.32105989	0.11731350	-2.51414549	
SOX18	0.32098611	0.11745225	2.51350142	
ADAMTS17	0.32091735	0.11758439	2.51290116	
GRIN2D	0.32088023	0.11759498	2.51257712	
RAB3B	-0.32087736	0.11759498	-2.51255203	
C6orf191	0.32082403	0.11768708	2.51208652	
KLRC2	0.32080107	0.11770011	2.51188617	
SDCCAG10	-0.32072655	0.11784753	-2.51123577	
MYRIP	0.32070735	0.11785083	2.51106813	
CCDC104	-0.32068614	0.11785934	-2.51088309	
KBTBD11	0.32063877	0.11793613	2.51046963	
TTK	-0.32060761	0.11797064	-2.51019777	
RUFY2	-0.32056708	0.11801132	-2.50984409	
KIAA1618	0.32055619	0.11801132	2.50974901	
TLE3	0.32052505	0.11804584	2.50947729	
NXNL1	0.32045975	0.11810735	2.50890759	
TMEM130	0.32047601	0.11810735	2.50904944	
ZC3H12D	0.32044779	0.11810735	2.50880319	
TRIM27	0.32040556	0.11817091	2.50843473	
HIBADH	-0.32033859	0.11819209	-2.50785047	
C4orf36	-0.32037578	0.11819209	-2.50817490	
ZNF575	0.32027240	0.11819209	2.50727306	
SOX17	0.32030770	0.11819209	2.50758099	
SYN1	0.32032584	0.11819209	2.50773926	
ZNF20	-0.32027906	0.11819209	-2.50733113	
CHRD	0.32029514	0.11819209	2.50747141	yes
OLIG2	0.32015454	0.11824029	2.50624496	
ZNF271	-0.32009708	0.11824029	-2.50574380	
DCTN3	-0.32014867	0.11824029	-2.50619375	

CYGB	0.31994782	0.11824029	2.50444214
ADH6	-0.31993001	0.11824029	-2.50428681
CRYBA1	0.31991599	0.11824029	2.50416452
SLC38A9	-0.32020465	0.11824029	-2.50668209
NBEA	-0.31993026	0.11824029	-2.50428900
MED4	-0.31995907	0.11824029	-2.50454020
SOX8	0.31998337	0.11824029	2.50475213
PLP2	-0.31997630	0.11824029	-2.50469049
NLE1	0.32021377	0.11824029	2.50676160
PTH1R	0.31999861	0.11824029	2.50488506
RNF213	0.31997048	0.11824029	2.50463975
TAF2	-0.32012094	0.11824029	-2.50595194
C3AR1	0.32003400	0.11824029	2.50519368
TRPC4	0.32002750	0.11824029	2.50513695
TSEN34	0.32018776	0.11824029	2.50653478
HPS4	-0.32007249	0.11824029	-2.50552934
CMC1	-0.31987315	0.11824383	-2.50379102
IFI27	0.31986146	0.11824383	2.50368910
CA9	0.31987804	0.11824383	2.50383368
NCAPD3	-0.31982472	0.11829350	-2.50336869
ZNF843	0.31974452	0.11833579	2.50266946
SMAD6	0.31977003	0.11833579	2.50289192
SKI	0.31974747	0.11833579	2.50269519
ZNF764	0.31973772	0.11833579	2.50261022
FSIP1	-0.31964566	0.11839558	-2.50180757
UBE2K	-0.31964412	0.11839558	-2.50179417
CACNG7	0.31967960	0.11839558	2.50210347
TCEAL3	0.31965787	0.11839558	2.50191402
FRMD6	-0.31957202	0.11849452	-2.50116571
VPS13A	-0.31956800	0.11849452	-2.50113063
GPX2	-0.31955326	0.11849452	-2.50100214
AFMID	0.31949550	0.11859932	2.50049868
WFDC10A	0.31944637	0.11860555	2.50007047

ZNF517	0.31946847	0.11860555	2.50026311	
MGAT5	-0.31943578	0.11860555	-2.49997819	
F2RL3	0.31942259	0.11860555	2.49986320	yes
RPL6	-0.31926324	0.11897636	-2.49847455	
C14orf156	-0.31919391	0.11911191	-2.49787039	
STMN4	0.31909786	0.11931772	2.49703353	
RTTN	-0.31906586	0.11935383	-2.49675476	
RPL26	-0.31904888	0.11935383	-2.49660684	
DDX52	-0.31901332	0.11935881	-2.49629702	
SLC38A6	-0.31899419	0.11935881	-2.49613038	
C13orf18	0.31899734	0.11935881	2.49615784	
HOXC9	0.31895508	0.11941533	2.49578972	
FLJ41170	0.31893288	0.11942100	2.49559635	
QRSL1	-0.31891776	0.11942100	-2.49546463	yes
SH3GLB1	-0.31885980	0.11952715	-2.49495971	
FAM109B	0.31880822	0.11961657	2.49451046	
RHOF	0.31872622	0.11978613	2.49379633	
IGLL3	0.31866159	0.11991012	2.49323351	
YARS2	-0.31861291	0.11998838	-2.49280957	
VAPA	-0.31859679	0.11998838	-2.49266922	yes
ANKRD22	-0.31852636	0.12003779	-2.49205591	
FRMD3	0.31852886	0.12003779	2.49207771	
BCMO1	0.31852543	0.12003779	2.49204779	
C2orf63	-0.31847183	0.12004048	-2.49158111	
GMNN	-0.31848880	0.12004048	-2.49172888	
RBM18	-0.31848220	0.12004048	-2.49167146	
TIMM23	-0.31827770	0.12004517	-2.48989112	
CSNK1A1	-0.31837227	0.12004517	-2.49071435	yes
NOTUM	0.31843203	0.12004517	2.49123462	
OR1B1	0.31828038	0.12004517	2.48991447	
PDX1	0.31842633	0.12004517	2.49118500	
PDYN	0.31831250	0.12004517	2.49019406	
DIP2B	-0.31838591	0.12004517	-2.49083309	

LOC100133431	0.31832010	0.12004517	2.49026017	
ZNF215	0.31841328	0.12004517	2.49107138	
EVI5	-0.31829508	0.12004517	-2.49004239	
CEP70	-0.31830026	0.12004517	-2.49008748	
PCSK1N	0.31817743	0.12026358	2.48901828	
DCTN4	-0.31811651	0.12033226	-2.48848808	
METT10D	-0.31812680	0.12033226	-2.48857765	
SGOL2	-0.31807759	0.12034295	-2.48814934	
FBXL2	-0.31808789	0.12034295	-2.48823904	
SLC43A3	0.31805247	0.12036324	2.48793077	
CYP26C1	0.31802958	0.12037769	2.48773150	
ALDH1A2	0.31791992	0.12057536	2.48677731	
ZNF585B	-0.31793215	0.12057536	-2.48688369	
SNAI3	0.31786719	0.12062663	2.48631850	
ELL	0.31786571	0.12062663	2.48630562	
SDK1	-0.31772974	0.12080229	-2.48512262	
GLIS2	0.31775658	0.12080229	2.48535606	
CACNA1I	0.31777619	0.12080229	2.48552672	
NRXN2	0.31772995	0.12080229	2.48512442	
CISH	0.31770950	0.12080987	2.48494650	
QPCTL	0.31766345	0.12088577	2.48454594	
ACBD4	0.31761577	0.12096605	2.48413118	
MAFA	0.31755245	0.12105442	2.48358038	
LOC439951	0.31754770	0.12105442	2.48353906	
SAMD9L	0.31750571	0.12111972	2.48317386	
SIT1	0.31743043	0.12127343	2.48251911	
SLC25A3	-0.31737728	0.12127638	-2.48205685	
BCO2	-0.31739521	0.12127638	-2.48221280	
TBPL1	-0.31739200	0.12127638	-2.48218486	
WDR51B	-0.31728424	0.12146268	-2.48124776	yes
GALNT9	0.31727247	0.12146268	2.48114542	
TINAGL1	0.31721058	0.12156504	2.48060728	
MICAL2	0.31719932	0.12156504	2.48050933	

CDKL2	-0.31714253	0.12167003	-2.48001560	
UHMK1	-0.31710071	0.12173524	-2.47965203	
KCNIP1	0.31707729	0.12175151	2.47944840	
GRIK3	0.31705760	0.12175785	2.47927724	
CXorf21	0.31699444	0.12188001	2.47872813	
NODAL	0.31690266	0.12194028	2.47793032	
NPHS1	0.31693019	0.12194028	2.47816966	
SRGN	0.31691987	0.12194028	2.47807996	
PKN2	-0.31695170	0.12194028	-2.47835659	
FAM103A1	-0.31684775	0.12203535	-2.47745306	
DIRC2	-0.31683244	0.12203535	-2.47732005	
TRA2A	-0.31675046	0.12220803	-2.47660748	
MTMR9	-0.31670870	0.12222733	-2.47624459	
FAM38A	0.31671460	0.12222733	2.47629583	
VWA5B1	0.31667455	0.12226303	2.47594779	
RFNG	0.31664358	0.12226303	2.47567870	
SETDB1	-0.31665222	0.12226303	-2.47575379	
ZKSCAN1	-0.31660871	0.12231012	-2.47537566	
LARP7	-0.31655884	0.12239729	-2.47494235	
UBE2E3	0.31636037	0.12240817	2.47321803	
DCC	0.31632719	0.12240817	2.47292979	
GNGT2	0.31631404	0.12240817	2.47281558	
C6orf173	-0.31641478	0.12240817	-2.47369070	
C2orf86	-0.31633027	0.12240817	-2.47295653	yes
OCIAD1	-0.31647275	0.12240817	-2.47419439	
FLJ45825	0.31634226	0.12240817	2.47306073	
SMARCD3	0.31632422	0.12240817	2.47290399	yes
ZNF204	-0.31632937	0.12240817	-2.47294873	
FZD9	0.31641585	0.12240817	2.47370003	
LZIC	-0.31648956	0.12240817	-2.47434038	
MAP4K3	-0.31649383	0.12240817	-2.47437751	
ZNF697	0.31642269	0.12240817	2.47375944	
SETD1A	0.31644917	0.12240817	2.47398949	

BRWD1	-0.31628184	0.12244835	-2.47253588
SNORD32A	0.31619291	0.12260103	2.47176342
PGD	-0.31616213	0.12260103	-2.47149606
PRPF40A	-0.31612188	0.12260103	-2.47114645
BRAF	-0.31617252	0.12260103	-2.47158629
T	0.31614149	0.12260103	2.47131677
CCDC123	-0.31612639	0.12260103	-2.47118562
CRYM	0.31609070	0.12261232	2.47087571
SNORD8	0.31608294	0.12261232	2.47080830
RFX4	0.31606631	0.12261232	2.47066388
C10orf139	0.31598072	0.12279547	2.46992059
CD300C	0.31592740	0.12289241	2.46945761
DPYSL4	0.31583004	0.12310746	2.46861227
LMAN1L	0.31580842	0.12311960	2.46842451
CD8B	0.31578184	0.12314504	2.46819376
LOC100129196	0.31574773	0.12317565	2.46789766
C7orf51	0.31570371	0.12317565	2.46751553
PCBP2	-0.31570211	0.12317565	-2.46750157
CCL7	0.31572491	0.12317565	2.46769956
XPO7	-0.31561769	0.12335638	-2.46676874
LRRC33	0.31555870	0.12337736	2.46625670
HSPB11	-0.31557772	0.12337736	-2.46642183
TDRD12	0.31556148	0.12337736	2.46628086
GEMIN5	-0.31551229	0.12339857	-2.46585393
C16orf80	-0.31546679	0.12339857	-2.46545903
SMARCAL1	-0.31546765	0.12339857	-2.46546643
TNF	0.31551235	0.12339857	2.46585443
GALNT14	0.31546561	0.12339857	2.46544876
TGFB2	-0.31544347	0.12341232	-2.46525658
DCTN2	-0.31530372	0.12347289	-2.46404385
SLC25A5	-0.31537446	0.12347289	-2.46465775
IFNG	0.31534632	0.12347289	2.46441352
C2orf71	0.31529324	0.12347289	2.46395294

PDE4A	0.31531928	0.12347289	2.46417889	
TRIT1	-0.31527544	0.12347289	-2.46379841	
C19orf61	0.31532572	0.12347289	2.46423475	
SNRPB2	-0.31526794	0.12347289	-2.46373338	
FYCO1	-0.31536833	0.12347289	-2.46460449	
GABBR2	0.31522174	0.12355138	2.46333251	
TBKBP1	0.31518514	0.12360412	2.46301494	
FBXL16	0.31511374	0.12361376	2.46239545	
CENPI	-0.31515658	0.12361376	-2.46276716	
SPOCK2	0.31511927	0.12361376	2.46244347	
MAGEC1	0.31512324	0.12361376	2.46247784	
FAM177A1	-0.31508916	0.12363427	-2.46218222	
CACNA1D	-0.31506656	0.12364951	-2.46198610	
OBP2A	0.31495000	0.12377197	2.46097497	
FLJ43752	0.31496361	0.12377197	2.46109310	
RIT1	-0.31500352	0.12377197	-2.46143929	
XPNPEP3	-0.31493638	0.12377197	-2.46085688	
TRPC5	0.31495149	0.12377197	2.46098791	
LIPH	-0.31489955	0.12382555	-2.46053737	
LOC400696	0.31482291	0.12387887	2.45987269	
ATF1	-0.31483218	0.12387887	-2.45995305	
RORB	0.31479526	0.12387887	2.45963283	
NAE1	-0.31480227	0.12387887	-2.45969361	
SLAMF9	0.31482017	0.12387887	2.45984886	
PEAR1	0.31466598	0.12409054	2.45851170	yes
SPATA7	-0.31468461	0.12409054	-2.45867327	
TESK1	0.31467027	0.12409054	2.45854892	
HACL1	-0.31463613	0.12412551	-2.45825284	
MARCH3	-0.31455345	0.12413681	-2.45753594	
GSPT1	-0.31454768	0.12413681	-2.45748592	
C14orf101	-0.31460762	0.12413681	-2.45800561	
SIPA1	0.31456427	0.12413681	2.45762977	
PPFIA3	0.31455917	0.12413681	2.45758549	

CD3G	0.31452004	0.12416590	2.45724628	
ZNF500	0.31446929	0.12419752	2.45680626	
RMI1	-0.31445783	0.12419752	-2.45670686	
BMF	0.31448487	0.12419752	2.45694135	
SPNS3	0.31436336	0.12424994	2.45588786	
ACSL6	0.31435434	0.12424994	2.45580970	
AGFG2	0.31437531	0.12424994	2.45599150	
ZFP112	-0.31437135	0.12424994	-2.45595715	
SUCLA2	-0.31441512	0.12424994	-2.45633662	
TBR1	0.31432122	0.12428226	2.45552258	
HSDL1	-0.31430877	0.12428226	-2.45541464	
NUP155	-0.31425010	0.12439512	-2.45490613	
RAB5B	-0.31421073	0.12445605	-2.45456484	
GBP5	0.31402178	0.12449679	2.45292724	
TTC39C	-0.31408225	0.12449679	-2.45345130	yes
GALNT2	0.31384446	0.12449679	2.45139076	
GLE1	-0.31384844	0.12449679	-2.45142529	
IL1RN	-0.31387197	0.12449679	-2.45162914	
ASTL	0.31390486	0.12449679	2.45191410	
OPA1	-0.31387301	0.12449679	-2.45163816	
ATP5B	-0.31384533	0.12449679	-2.45139828	
ETAA1	-0.31390125	0.12449679	-2.45188283	
POU3F2	0.31390774	0.12449679	2.45193911	
RPRD1A	-0.31397515	0.12449679	-2.45252322	
TFCP2	-0.31386775	0.12449679	-2.45159257	
TMPO	-0.31410069	0.12449679	-2.45361109	
SLC30A3	0.31401500	0.12449679	2.45286855	
JRKL	-0.31393401	0.12449679	-2.45216671	
SERPINH1	0.31389241	0.12449679	2.45180620	
ZSWIM1	-0.31391407	0.12449679	-2.45199389	
PPIG	-0.31409611	0.12449679	-2.45357138	
GREB1	0.31394844	0.12449679	2.45229176	
SNPH	0.31401720	0.12449679	2.45288759	

KIAA0415	0.31411032	0.12449679	2.45369455	
ZBTB43	-0.31371792	0.12459637	-2.45029443	
VPS41	-0.31370759	0.12459637	-2.45020496	
TRAV19	0.31372333	0.12459637	2.45034138	
ANAPC4	-0.31375844	0.12459637	-2.45064552	
ATG3	-0.31373102	0.12459637	-2.45040797	
FBXO38	-0.31375859	0.12459637	-2.45064678	
HSD3B2	0.31365874	0.12468322	2.44978178	
CDKL1	-0.31363383	0.12470553	-2.44956604	
FKBP2	0.31361101	0.12472225	2.44936831	
GPR44	0.31355322	0.12483330	2.44886781	
TXNDC11	0.31350355	0.12492253	2.44843759	
SNORD116-15	0.31341315	0.12498724	2.44765468	
NXPH4	0.31344475	0.12498724	2.44792835	
RIN2	-0.31341800	0.12498724	-2.44769661	
CDC23	-0.31344916	0.12498724	-2.44796651	
LOC100129492	-0.31335885	0.12500897	-2.44718443	
STXBP5	-0.31333570	0.12500897	-2.44698389	
RNU2-2	0.31336546	0.12500897	2.44724159	
MIPEP	-0.31330279	0.12500897	-2.44669896	
PAK1	-0.31326398	0.12500897	-2.44636290	
MRPL39	-0.31328308	0.12500897	-2.44652829	yes
SNORA3	0.31326806	0.12500897	2.44639822	
XBP1	0.31325590	0.12500897	2.44629290	
CD164	-0.31328356	0.12500897	-2.44653239	
EMP2	-0.31320206	0.12510970	-2.44582671	
PRDM10	-0.31316663	0.12516072	-2.44551995	
GJB1	0.31312291	0.12523418	2.44514144	
JMJD4	0.31303712	0.12542154	2.44439875	
GJB6	-0.31297829	0.12552964	-2.44388942	
LOC389257	0.31294718	0.12552964	2.44362011	
LTB	0.31295951	0.12552964	2.44372687	
MEGF11	0.31293107	0.12552964	2.44348067	

SH2D5	0.31289185	0.12558039	2.44314117	
NAGLU	0.31283349	0.12558039	2.44263612	
SPATA6	-0.31283468	0.12558039	-2.44264639	
PKNOX2	0.31285210	0.12558039	2.44279718	
SLC18A1	0.31282976	0.12558039	2.44260384	
KHDRBS1	-0.31275342	0.12574261	-2.44194306	
COX15	-0.31271958	0.12577949	-2.44165026	
TRIP13	-0.31270683	0.12577949	-2.44153988	yes
PTPN21	-0.31262611	0.12595381	-2.44084136	
AP2M1	-0.31254505	0.12597223	-2.44013997	
ARHGEF12	-0.31257093	0.12597223	-2.44036388	
GPSM2	-0.31256973	0.12597223	-2.44035348	
FAM151A	0.31258876	0.12597223	2.44051817	
CENPT	0.31253694	0.12597223	2.44006978	
RPL10A	-0.31250046	0.12598188	-2.43975420	
IL23A	0.31251161	0.12598188	2.43985059	
RBM34	-0.31244880	0.12605085	-2.43930717	
SLC2A3	0.31242539	0.12605085	2.43910471	
IRS2	0.31242439	0.12605085	2.43909601	
WFDC8	0.31240928	0.12605085	2.43896532	
LOC100133439	-0.31231988	0.12624914	-2.43819189	
RHBDD3	0.31228995	0.12624923	2.43793298	
NUBPL	-0.31228698	0.12624923	-2.43790733	
VENTX	0.31219945	0.12633355	2.43715018	
LOC390940	-0.31223730	0.12633355	-2.43747756	
MEST	0.31219031	0.12633355	2.43707115	
DERA	-0.31220096	0.12633355	-2.43716321	
FAM175B	-0.31214358	0.12641604	-2.43666697	
TTC38	0.31208295	0.12653645	2.43614258	
KRCC1	-0.31200034	0.12671687	-2.43542814	
TSHZ2	-0.31193869	0.12672369	-2.43489506	
AKR1C2	-0.31192366	0.12672369	-2.43476513	
CCDC107	0.31190707	0.12672369	2.43462168	

ZCCHC24	0.31188627	0.12672369	2.43444181	
LINGO4	0.31190370	0.12672369	2.43459251	
ZRANB1	-0.31197824	0.12672369	-2.43523706	
SIGLEC1	0.31188316	0.12672369	2.43441489	
SPAG5	-0.31173232	0.12673388	-2.43311080	
GBE1	-0.31173764	0.12673388	-2.43315676	
MSI1	0.31177327	0.12673388	2.43346482	
NRTN	0.31174256	0.12673388	2.43319932	yes
TMEM75	0.31186303	0.12673388	2.43424088	
IGSF21	0.31180946	0.12673388	2.43377771	
EIF3D	-0.31179561	0.12673388	-2.43365790	
FAM104B	-0.31180572	0.12673388	-2.43374530	
PLXNA4	0.31180165	0.12673388	2.43371016	
RAB32	0.31166577	0.12676191	2.43253545	
KCNH4	0.31165679	0.12676191	2.43245777	
AMPD1	0.31169830	0.12676191	2.43281661	
PAX7	0.31166615	0.12676191	2.43253876	
FMO6P	-0.31163605	0.12677400	-2.43227851	
FIG4	-0.31161589	0.12678452	-2.43210427	
LCLAT1	-0.31153059	0.12692823	-2.43136691	
LINGO1	0.31154139	0.12692823	2.43146026	
CDC42EP2	0.31148834	0.12695056	2.43100171	
TACSTD2	-0.31145846	0.12695056	-2.43074348	
PCNA	-0.31145729	0.12695056	-2.43073341	
DDX47	-0.31148048	0.12695056	-2.43093386	
SAMD3	0.31134860	0.12696218	2.42979404	
AMPD3	-0.31133497	0.12696218	-2.42967623	yes
C20orf199	-0.31134041	0.12696218	-2.42972327	
NARS	-0.31133899	0.12696218	-2.42971105	
HEATR5B	-0.31134783	0.12696218	-2.42978743	
DEK	-0.31134015	0.12696218	-2.42972100	
CEP78	-0.31140906	0.12696218	-2.43031658	
LACRT	0.31132304	0.12696218	2.42957319	

TAF8	0.31125662	0.12701432	2.42899921	
LGI3	-0.31127900	0.12701432	-2.42919258	
IGSF2	0.31125525	0.12701432	2.42898738	
C17orf71	-0.31120545	0.12710592	-2.42855705	
FLJ44653	0.31116817	0.12716339	2.42823497	
PSMD14	-0.31107042	0.12728143	-2.42739043	
OR2F1	0.31096341	0.12728143	2.42646594	
LOC284422	0.31094791	0.12728143	2.42633209	
HPN	0.31094690	0.12728143	2.42632335	
SPRED3	0.31095916	0.12728143	2.42642927	
ACCN1	0.31100481	0.12728143	2.42682360	
MRPS23	-0.31097219	0.12728143	-2.42654182	
SELPLG	0.31102752	0.12728143	2.42701979	
SEMA3B	0.31098499	0.12728143	2.42665239	
RGS11	0.31101780	0.12728143	2.42693585	yes
EBAG9	-0.31095475	0.12728143	-2.42639115	
SNORD83B	0.31089289	0.12738476	2.42585685	
NIPSNAP3A	-0.31082927	0.12751446	-2.42530729	
MAST3	0.31080358	0.12754053	2.42508543	
C20orf135	0.31076970	0.12758901	2.42479280	
SEPHS1	-0.31068942	0.12774766	-2.42409951	
ALDH8A1	0.31067943	0.12774766	2.42401317	
GPR39	-0.31057855	0.12797977	-2.42314205	
MAP3K2	-0.31013896	0.12819019	-2.41934710	
C20orf112	0.31038822	0.12819019	2.42149877	
CLEC4C	0.31010099	0.12819019	2.41901936	
NQO1	-0.31026479	0.12819019	-2.42043325	yes
DCP1B	-0.31047746	0.12819019	-2.42226918	
RNF215	0.31024830	0.12819019	2.42029087	
ZBTB12	0.31008951	0.12819019	2.41892034	
HSD11B1	0.31007531	0.12819019	2.41879775	
IDH3A	-0.31046638	0.12819019	-2.42217354	yes
IFI35	0.31007498	0.12819019	2.41879492	

IGF1R	-0.31014932	0.12819019	-2.41943652	
IGFBP4	0.31018651	0.12819019	2.41975751	
OR2A25	0.31018815	0.12819019	2.41977168	
LOC440461	0.31006771	0.12819019	2.41873215	
DHH	0.31015670	0.12819019	2.41950025	yes
GDAP2	-0.31044651	0.12819019	-2.42200204	
WDR70	-0.31018645	0.12819019	-2.41975702	
PPP2CA	-0.31031120	0.12819019	-2.42083386	
RADIL	0.31023846	0.12819019	2.42020591	
SNORD68	0.31040970	0.12819019	2.42168418	
SNTA1	0.31016563	0.12819019	2.41957732	yes
SCARNA15	-0.31027228	0.12819019	-2.42049786	
PPP1R14C	-0.31007143	0.12819019	-2.41876429	
SDCCAG1	-0.31008418	0.12819019	-2.41887429	
CEP57	-0.31011386	0.12819019	-2.41913045	
XYLB	0.31007601	0.12819019	2.41880384	
WDR1	-0.31038711	0.12819019	-2.42148916	
DGUOK	-0.31001033	0.12822493	-2.41823698	
KLHDC8A	0.31001590	0.12822493	2.41828505	
MAP2K4	-0.31000007	0.12822493	-2.41814839	
PVRIG	0.30999101	0.12822493	2.41807021	
KLF14	0.30995867	0.12824684	2.41779116	
HOXB4	0.30995103	0.12824684	2.41772522	
PALM2	0.30984478	0.12845059	2.41680840	
AP1S3	-0.30985230	0.12845059	-2.41687326	
LRP11	-0.30979451	0.12854472	-2.41637469	
SEP4	0.30974331	0.12864149	2.41593292	yes
RINL	0.30969876	0.12864869	2.41554860	
KIF2A	-0.30966426	0.12864869	-2.41525099	
SLC2A1	-0.30966086	0.12864869	-2.41522161	
NPFF	0.30968597	0.12864869	2.41543824	
CCNA1	0.30969532	0.12864869	2.41551893	
LRPPRC	-0.30942054	0.12879921	-2.41314872	

OLIG1	0.30947242	0.12879921	2.41359615	
VPS13B	-0.30943409	0.12879921	-2.41326558	
C11orf65	-0.30939769	0.12879921	-2.41295158	
LILRA4	0.30949123	0.12879921	2.41375841	
SPDEF	0.30941944	0.12879921	2.41313918	
IL11RA	0.30944627	0.12879921	2.41337061	
INHA	0.30936316	0.12879921	2.41265384	
KIF7	0.30935354	0.12879921	2.41257086	
KRT81	0.30949477	0.12879921	2.41378890	
MYBPC3	0.30938208	0.12879921	2.41281703	
SERPIN5	-0.30935137	0.12879921	-2.41255215	
ZWILCH	-0.30955897	0.12879921	-2.41434266	
ZNF71	0.30950357	0.12879921	2.41386484	
ARMET	0.30945437	0.12879921	2.41344048	
RASL10B	0.30940007	0.12879921	2.41297214	yes
FAM179B	-0.30928951	0.12888196	-2.41201864	
RTN4IP1	-0.30930129	0.12888196	-2.41212025	
PARK2	0.30925039	0.12894587	2.41168128	
DAZAP2	-0.30922953	0.12895957	-2.41150148	yes
STMN1	-0.30917356	0.12904746	-2.41101880	
PDE3B	0.30916586	0.12904746	2.41095241	
FAM132B	0.30912234	0.12906387	2.41057723	
KLK13	-0.30908064	0.12906387	-2.41021769	
ZBTB32	0.30908972	0.12906387	2.41029595	
TSKS	0.30909144	0.12906387	2.41031075	
FXR1	-0.30913048	0.12906387	-2.41064736	
FLJ46365	0.30901010	0.12921445	2.40960950	
MYO3A	-0.30898901	0.12922892	-2.40942770	
EPB41L4B	-0.30890333	0.12933913	-2.40868907	
CUL2	-0.30891276	0.12933913	-2.40877038	
LMBRD2	-0.30890152	0.12933913	-2.40867350	
VPS45	-0.30887563	0.12936688	-2.40845032	
HDAC2	-0.30884288	0.12941355	-2.40816806	

FXVD8	0.30882041	0.12943191	2.40797436	
HN1	-0.30878953	0.12944989	-2.40770821	
IKBKAP	-0.30878228	0.12944989	-2.40764570	
FAM149B1	-0.30873318	0.12947357	-2.40722252	yes
WDR86	0.30872631	0.12947357	2.40716330	
SEP2	-0.30875442	0.12947357	-2.40740559	
NAT11	-0.30870466	0.12948974	-2.40697671	
NME7	-0.30868059	0.12951191	-2.40676929	
ATP13A5	-0.30865029	0.12951191	-2.40650818	
PNMT	0.30864929	0.12951191	2.40649950	
ZMPSTE24	-0.30853319	0.12961237	-2.40549904	
KIAA0556	-0.30854815	0.12961237	-2.40562800	
OR5D16	0.30851831	0.12961237	2.40537084	
PCM1	-0.30858641	0.12961237	-2.40595767	
CAPZA2	-0.30854326	0.12961237	-2.40558581	
GNPAT	-0.30856949	0.12961237	-2.40581188	
NOD1	0.30846167	0.12970536	2.40488280	
CHRNA4	0.30844018	0.12970536	2.40469764	
TYROBP	0.30843738	0.12970536	2.40467356	
CD226	0.30841144	0.12973353	2.40445004	
LOC100129572	0.30823835	0.12978080	2.40295890	
DUSP10	-0.30821604	0.12978080	-2.40276669	
C4orf32	0.30823052	0.12978080	2.40289138	
CRTC2	0.30822850	0.12978080	2.40287400	
TMEM224	0.30820588	0.12978080	2.40267914	
MAGEB4	0.30834625	0.12978080	2.40388838	
GIN1	-0.30825050	0.12978080	-2.40306350	
SLC35A5	-0.30824298	0.12978080	-2.40299879	
PTCD3	-0.30828295	0.12978080	-2.40334307	
FANCI	-0.30822725	0.12978080	-2.40286327	
ISLR2	0.30829149	0.12978080	2.40341668	
NAT1	-0.30825497	0.12978080	-2.40310200	
YIPF2	0.30818967	0.12978227	2.40253953	

EMX2	0.30810256	0.12996940	2.40178922	
POU3F1	0.30809053	0.12996940	2.40168563	
RCL1	-0.30806029	0.13000967	-2.40142512	
SNORD114-3	0.30799625	0.13014335	2.40087362	yes
CBX3	-0.30791256	0.13029808	-2.40015291	
PDZD2	-0.30790899	0.13029808	-2.40012217	
RAB3GAP1	-0.30789097	0.13030464	-2.39996695	
ENAH	-0.30784286	0.13039446	-2.39955274	
MRC2	0.30781728	0.13042197	2.39933247	yes
BCL2L14	0.30773122	0.13061707	2.39859144	
ARAP2	-0.30766466	0.13071491	-2.39801839	
PPA2	-0.30767698	0.13071491	-2.39812448	
TNFSF8	0.30762240	0.13078877	2.39765458	
TMEM221	0.30751554	0.13104210	2.39673474	
ASB10	0.30740326	0.13105159	2.39576825	
AARS	0.30733192	0.13105159	2.39515431	
ZNF709	-0.30744908	0.13105159	-2.39616267	
DMXL1	-0.30745804	0.13105159	-2.39623980	
CD93	0.30731365	0.13105159	2.39499704	
C20orf194	-0.30733030	0.13105159	-2.39514031	
FGF22	0.30736623	0.13105159	2.39544956	
GNMT	0.30723144	0.13105159	2.39428958	
FLVCR1	-0.30747182	0.13105159	-2.39635840	
PRSSL1	0.30724412	0.13105159	2.39439871	
NPTX1	0.30747658	0.13105159	2.39639937	
ADAMTS9	0.30730379	0.13105159	2.39491218	
RPL15	-0.30723494	0.13105159	-2.39431973	
SNORA9	0.30725111	0.13105159	2.39445881	
LOC729245	0.30729335	0.13105159	2.39482236	
SLC9A7	0.30723183	0.13105159	2.39429295	
SOCS3	0.30728176	0.13105159	2.39472257	
EDEM1	0.30727229	0.13105159	2.39464109	
ZNF717	-0.30714825	0.13118191	-2.39357374	

NES	0.30715555	0.13118191	2.39363651	yes
TESSP2	0.30713788	0.13118191	2.39348450	
STAMBP	-0.30709629	0.13118644	-2.39312662	
C15orf53	0.30708964	0.13118644	2.39306939	
SRY	0.30711352	0.13118644	2.39327487	yes
IL6	0.30707409	0.13118650	2.39293562	
TSPYL4	-0.30704356	0.13119399	-2.39267293	
SCRT1	0.30704035	0.13119399	2.39264530	
EBNA1BP2	-0.30699999	0.13122267	-2.39229812	
JMY	-0.30699900	0.13122267	-2.39228955	
PATL2	0.30695268	0.13127863	2.39189110	
METTL2A	-0.30694785	0.13127863	-2.39184950	
C17orf64	0.30681840	0.13139911	2.39073594	
ITPKA	0.30679609	0.13139911	2.39054403	
PDE6G	0.30688850	0.13139911	2.39133891	
ACD	0.30682156	0.13139911	2.39076310	
LOC731797	0.30682150	0.13139911	2.39076259	
CES2	-0.30679634	0.13139911	-2.39054621	
TMPRSS11D	-0.30686244	0.13139911	-2.39111482	
GJD3	0.30669672	0.13143354	2.38968932	
NAPSB	0.30666643	0.13143354	2.38942883	
ZC3H6	-0.30670958	0.13143354	-2.38979996	
MUC7	0.30669476	0.13143354	2.38967245	
PPL	-0.30666005	0.13143354	-2.38937393	
PSMD1	-0.30668150	0.13143354	-2.38955848	
GRHL3	-0.30667618	0.13143354	-2.38951270	
H2AFV	-0.30671178	0.13143354	-2.38981890	
MTBP	-0.30663417	0.13146257	-2.38915136	
SYDE1	0.30661672	0.13146816	2.38900132	yes
CADM1	0.30658951	0.13150092	2.38876731	
FBXL13	-0.30654587	0.13154988	-2.38839201	
RP5-1077B9.4	0.30654105	0.13154988	2.38835062	
PLK5P	0.30649693	0.13157638	2.38797115	yes

PLCG1	0.30647473	0.13157638	2.38778028	
C19orf12	0.30647195	0.13157638	2.38775635	
C21orf70	0.30646987	0.13157638	2.38773853	
OTUD1	-0.30644906	0.13159142	-2.38755960	
CHMP1B	-0.30633164	0.13187544	-2.38654999	
RAB23	-0.30631494	0.13187905	-2.38640643	
ZNF746	0.30629045	0.13190439	2.38619589	
LILRA5	0.30625153	0.13196997	2.38586129	
CDH8	-0.30611981	0.13220866	-2.38472895	
FAR1	-0.30614270	0.13220866	-2.38492576	
CAV3	0.30612538	0.13220866	2.38477687	
C20orf160	0.30610083	0.13221870	2.38456584	yes
CTDSPL	-0.30605383	0.13226407	-2.38416187	
ONECUT1	0.30605502	0.13226407	2.38417206	
SCG2	-0.30600117	0.13234730	-2.38370923	
C12orf30	-0.30599330	0.13234730	-2.38364156	
PURG	0.30589219	0.13258024	2.38277265	
C6orf174	0.30586388	0.13258024	2.38252939	
RUSC2	0.30586787	0.13258024	2.38256363	yes
MGC52282	0.30578510	0.13262213	2.38185241	
PPP1CB	-0.30580680	0.13262213	-2.38203884	
SHH	0.30577218	0.13262213	2.38174140	
TSPAN6	-0.30577744	0.13262213	-2.38178655	
TMEM209	-0.30578201	0.13262213	-2.38182585	
C4orf33	-0.30569517	0.13279476	-2.38107965	
RPL4P4	-0.30560362	0.13300830	-2.38029312	
LYPLAL1	-0.30558110	0.13302847	-2.38009962	
VASN	0.30553644	0.13311073	2.37971597	yes
ZNF782	-0.30541924	0.13311559	-2.37870924	
PADI4	0.30540475	0.13311559	2.37858473	
GART	-0.30547103	0.13311559	-2.37915408	
MTM1	-0.30546585	0.13311559	-2.37910957	
TIFAB	0.30545371	0.13311559	2.37900531	

ACTR10	-0.30549577	0.13311559	-2.37936665	
FEM1C	-0.30539694	0.13311559	-2.37851766	
TRAPPC2	-0.30544478	0.13311559	-2.37892859	
CDC123	-0.30540519	0.13311559	-2.37858855	
CLIC1	-0.30531576	0.13317182	-2.37782045	
ITGAX	0.30535879	0.13317182	2.37819004	
ZNF829	-0.30533948	0.13317182	-2.37802417	
ATP1B1	-0.30532237	0.13317182	-2.37787722	
HIC1	0.30519813	0.13344255	2.37681023	
ACSS3	-0.30518877	0.13344255	-2.37672980	
CPSF2	-0.30514185	0.13353149	-2.37632688	
MTCH2	-0.30503016	0.13358815	-2.37536784	
KLF15	0.30504892	0.13358815	2.37552889	
NANOS2	0.30505667	0.13358815	2.37559552	
BTBD1	-0.30504274	0.13358815	-2.37547584	yes
SNRPF	-0.30504060	0.13358815	-2.37545748	
CUL4B	-0.30505151	0.13358815	-2.37555117	
CCNI	-0.30496581	0.13369802	-2.37481535	
MAGEB6B	0.30494863	0.13369802	2.37466788	
PAIP2	-0.30494537	0.13369802	-2.37463984	
PRIMA1	0.30491593	0.13372426	2.37438711	
AGMAT	0.30490558	0.13372426	2.37429828	
NEUROG3	0.30486977	0.13376484	2.37399081	
HES7	0.30486071	0.13376484	2.37391306	
EFTUD1	-0.30484355	0.13377032	-2.37376574	
TRAT1	0.30478910	0.13388073	2.37329832	
SLC22A9	0.30473114	0.13395828	2.37280079	
PIK3R4	-0.30474003	0.13395828	-2.37287706	
ULK2	-0.30470844	0.13397938	-2.37260598	
ARPC2	-0.30445683	0.13410332	-2.37044652	
ATP6AP2	-0.30451370	0.13410332	-2.37093456	
WDR21C	0.30458072	0.13410332	2.37150975	
CST11	0.30457707	0.13410332	2.37147845	

SASH1	-0.30439423	0.13410332	-2.36990935	
DPY19L1	-0.30440705	0.13410332	-2.37001938	
TARDBP	-0.30452602	0.13410332	-2.37104030	
NAT9	0.30439568	0.13410332	2.36992181	
HADH	-0.30463573	0.13410332	-2.37198188	
HNRNPU	-0.30444992	0.13410332	-2.37038729	
SLCO4C1	-0.30450657	0.13410332	-2.37087340	
ITGAD	0.30446282	0.13410332	2.37049790	
FURIN	0.30453828	0.13410332	2.37114552	
GPATCH2	-0.30455870	0.13410332	-2.37132079	
FBRSL1	0.30460026	0.13410332	2.37167743	yes
BLVRA	-0.30460951	0.13410332	-2.37175678	
BTRC	-0.30440211	0.13410332	-2.36997702	
NLRP12	0.30439147	0.13410332	2.36988572	
CAPZB	-0.30435986	0.13414974	-2.36961447	
LOC390956	0.30433110	0.13418816	2.36936767	
IGFALS	0.30428878	0.13422221	2.36900455	
PSMB1	-0.30429748	0.13422221	-2.36907921	
KLRAQ1	-0.30424488	0.13430331	-2.36862798	
NSMCE2	-0.30418639	0.13434182	-2.36812618	
CAPRIN1	-0.30418591	0.13434182	-2.36812199	
NRL	0.30418754	0.13434182	2.36813601	
PAXIP1	-0.30409021	0.13444141	-2.36730107	
C3orf38	-0.30412592	0.13444141	-2.36760740	
CBLL1	-0.30409884	0.13444141	-2.36737509	yes
ZNF670	-0.30411015	0.13444141	-2.36747207	
CD48	0.30406382	0.13447330	2.36707468	
STOX1	-0.30399785	0.13457433	-2.36650887	
RARRES2	0.30400484	0.13457433	2.36656876	
MIPOL1	-0.30396040	0.13463749	-2.36618763	
LOC100128064	0.30385080	0.13464932	2.36524762	
GPR78	0.30387171	0.13464932	2.36542696	
HLA-DPB1	0.30386728	0.13464932	2.36538894	

EEF1A19	-0.30389722	0.13464932	-2.36564576	
GOLM1	0.30392643	0.13464932	2.36589622	
FAIM3	0.30387580	0.13464932	2.36546206	
HTRA3	0.30386181	0.13464932	2.36534205	
LASS1	0.30378335	0.13479730	2.36466917	
EVX1	0.30375178	0.13480150	2.36439847	
ZNF530	0.30376073	0.13480150	2.36447521	
CLTC	-0.30363868	0.13482802	-2.36342869	
ECH1	-0.30363856	0.13482802	-2.36342763	
C1orf167	0.30362519	0.13482802	2.36331301	
C19orf29OS	0.30370799	0.13482802	2.36402294	
MAP2	-0.30364318	0.13482802	-2.36346730	
C7orf43	0.30369347	0.13482802	2.36389846	
PBLD	-0.30371214	0.13482802	-2.36405858	
TMEM63A	0.30362223	0.13482802	2.36328765	
IRX2	0.30356149	0.13483015	2.36276689	
SARDH	0.30357282	0.13483015	2.36286398	
FZD2	0.30359306	0.13483015	2.36303757	
C6orf35	-0.30356690	0.13483015	-2.36281328	
NPL	-0.30352127	0.13490143	-2.36242201	
SP140	0.30345379	0.13495576	2.36184354	
SYNE2	-0.30345348	0.13495576	-2.36184086	
ASPM	-0.30344212	0.13495576	-2.36174351	
RAD51C	-0.30347967	0.13495576	-2.36206543	
C1orf127	0.30339104	0.13498639	2.36130559	
WBP2NL	-0.30341593	0.13498639	-2.36151902	
BMP7	-0.30338639	0.13498639	-2.36126573	
FAM175A	-0.30335428	0.13503485	-2.36099050	
C20orf94	-0.30327675	0.13515840	-2.36032597	
C18orf25	-0.30329198	0.13515840	-2.36045649	
MYO6	-0.30325077	0.13515840	-2.36010334	yes
PRSS3	-0.30326441	0.13515840	-2.36022022	
CRTAC1	0.30320590	0.13524305	2.35971875	

ETF1	-0.30314312	0.13537844	-2.35918072
C6orf10	0.30306646	0.13548535	2.35852379
C1orf95	0.30303626	0.13548535	2.35826496
C10orf118	-0.30304934	0.13548535	-2.35837708
hCG_2004593	-0.30306314	0.13548535	-2.35849531
OFD1	-0.30303072	0.13548535	-2.35821754
LOC389842	-0.30300311	0.13552131	-2.35798093
PRH2	0.30298744	0.13552345	2.35784664
ITPR2	0.30294927	0.13555296	2.35751960
RAB7A	-0.30294720	0.13555296	-2.35750189
FCER1G	0.30292687	0.13556167	2.35732767
C11orf60	-0.30291433	0.13556167	-2.35722019
C6orf130	-0.30280119	0.13584020	-2.35625091
CMTM4	-0.30277082	0.13585788	-2.35599074
BRSK1	0.30275029	0.13585788	2.35581479
CCNB2	-0.30276266	0.13585788	-2.35592079
HMGB1	-0.30270150	0.13586964	-2.35539685
SSTR4	0.30272871	0.13586964	2.35563001
hCG_1994895	0.30271571	0.13586964	2.35551860
AEBP1	0.30264134	0.13599818	2.35488153
FGFR1OP	-0.30261638	0.13602680	-2.35466780
TTC1	-0.30259120	0.13605610	-2.35445210
FMO4	-0.30255726	0.13606807	-2.35416138
ATCAY	0.30256587	0.13606807	2.35423515
BBS5	-0.30252573	0.13611542	-2.35389136
EXOC3L	0.30250897	0.13612083	2.35374782
SPG21	-0.30247909	0.13616355	-2.35349187
KCNQ1DN	0.30245793	0.13617185	2.35331070
ADAMTS12	0.30244647	0.13617185	2.35321258
ITCH	-0.30240462	0.13624861	-2.35285418
ADFP	0.30234799	0.13632356	2.35236922
PPM1M	0.30235407	0.13632356	2.35242128
RBMX2	-0.30233376	0.13632356	-2.35224736

CLC	0.30228745	0.13638531	2.35185082
TMEM151A	0.30228240	0.13638531	2.35180753
SYT2	0.30225708	0.13641516	2.35159079
MIOS	-0.30213657	0.13671609	-2.35055901
RP1-19N1.1	0.30210041	0.13677694	2.35024938
EXOSC6	0.30204160	0.13686016	2.34974591
PBX1	-0.30204490	0.13686016	-2.34977420
INTS12	-0.30199912	0.13693909	-2.34938226
LOC100133033	0.30187222	0.13711200	2.34829608
PTGES3	-0.30188123	0.13711200	-2.34837318
DBI	-0.30177064	0.13711200	-2.34742670
FAM151B	-0.30186234	0.13711200	-2.34821152
MPZL3	-0.30182899	0.13711200	-2.34792607
FLNB	-0.30180727	0.13711200	-2.34774018
FBXL3	-0.30176109	0.13711200	-2.34734501
IQCF2	0.30178585	0.13711200	2.34755689
LOXL1	0.30178352	0.13711200	2.34753696
MGAT1	0.30176285	0.13711200	2.34735999
SNRPD3	-0.30181466	0.13711200	-2.34780346
TOX4	-0.30176110	0.13711200	-2.34734506
SLC25A18	0.30171814	0.13719250	2.34697739
AGPS	-0.30170091	0.13719955	-2.34682994
CYP2B7P1	-0.30151840	0.13742486	-2.34526826
SNORD57	0.30155059	0.13742486	2.34554366
CCDC18	-0.30158395	0.13742486	-2.34582914
HELT	0.30154905	0.13742486	2.34553046
NPPC	0.30150409	0.13742486	2.34514585
FAIM	-0.30153421	0.13742486	-2.34540355
ZSCAN16	-0.30153262	0.13742486	-2.34538994
STXBP5L	0.30152972	0.13742486	2.34536509
C1QL1	0.30146215	0.13746056	2.34478700
ADRA1B	0.30147024	0.13746056	2.34485616
TRIM71	0.30137021	0.13762189	2.34400039

TBL1XR1	-0.30136159	0.13762189	-2.34392668	
VAPB	-0.30136333	0.13762189	-2.34394156	
C19orf2	-0.30131769	0.13770542	-2.34355115	
HOXC13	0.30124268	0.13785295	2.34290952	
NXT2	-0.30123676	0.13785295	-2.34285886	yes
CCDC110	0.30121354	0.13787736	2.34266021	
OR2H2	0.30113714	0.13805422	2.34200680	
FKTN	-0.30104928	0.13813892	-2.34125538	
SCCPDH	-0.30106069	0.13813892	-2.34135294	
SH2D4A	-0.30104883	0.13813892	-2.34125152	
ADIPOR2	-0.30105360	0.13813892	-2.34129228	
SERPINA12	0.30102034	0.13817853	2.34100787	
LMO1	0.30099712	0.13820304	2.34080926	
ADM	0.30096911	0.13821595	2.34056976	
CDC5L	-0.30096326	0.13821595	-2.34051971	
SPATA13	-0.30084369	0.13845077	-2.33949735	
ARC	0.30081017	0.13845077	2.33921072	
PALMD	-0.30080815	0.13845077	-2.33919346	
IFT74	-0.30080985	0.13845077	-2.33920797	
CD28	0.30085352	0.13845077	2.33958140	
DHRS1	-0.30073886	0.13845312	-2.33860104	
FGF3	0.30076005	0.13845312	2.33878220	
KLK3	0.30069016	0.13845312	2.33818467	
MAN1A1	0.30069595	0.13845312	2.33823420	
NDUFA4	-0.30071689	0.13845312	-2.33841324	
SCN4A	0.30074027	0.13845312	2.33861307	
ZNF12	-0.30071210	0.13845312	-2.33837229	
C3orf36	0.30077880	0.13845312	2.33894248	
ETS1	0.30061021	0.13848689	2.33750119	
MGST2	-0.30060529	0.13848689	-2.33745919	
MAPK8	-0.30063657	0.13848689	-2.33772657	
TGM2	0.30065293	0.13848689	2.33786641	
SLC41A2	0.30062298	0.13848689	2.33761041	

AGTR2	0.30045262	0.13859640	2.33615420	
KIAA2018	-0.30045038	0.13859640	-2.33613507	yes
TNFRSF9	0.30048069	0.13859640	2.33639415	
TET2	-0.30046355	0.13859640	-2.33624764	yes
DNAJC28	-0.30051379	0.13859640	-2.33667705	
SLC6A1	0.30048405	0.13859640	2.33642285	
NSUN7	-0.30052448	0.13859640	-2.33676837	
C1orf170	0.30053225	0.13859640	2.33683479	
MTPN	-0.30035487	0.13861956	-2.33531879	
INTU	-0.30040742	0.13861956	-2.33576788	
KCNQ1	0.30035641	0.13861956	2.33533195	
NEK1	-0.30039520	0.13861956	-2.33566345	
ZNF654	-0.30040138	0.13861956	-2.33571629	
TUFT1	-0.30037864	0.13861956	-2.33552194	
LOC100133321	-0.29974541	0.13868622	-2.33011182	
NEBL	-0.29971441	0.13868622	-2.32984707	yes
USP20	0.29976388	0.13868622	2.33026955	
IRAK3	0.30011336	0.13868622	2.33325502	
CST3	0.29990159	0.13868622	2.33144582	
ANKRD35	-0.30007191	0.13868622	-2.33290089	
DENND5B	0.29990919	0.13868622	2.33151076	
UHRF1BP1L	-0.29985893	0.13868622	-2.33108141	
FNTA	-0.30023118	0.13868622	-2.33426172	
IFI6	0.30012064	0.13868622	2.33331723	
GABRD	0.29968508	0.13868622	2.32959657	
GLIPR1L1	0.29979761	0.13868622	2.33055761	
GHRH	0.29995117	0.13868622	2.33186934	
CHORDC1	-0.30022527	0.13868622	-2.33421123	
RBMX	0.30019484	0.13868622	2.33395126	
GOLGA1	-0.29971106	0.13868622	-2.32981839	
BZW2	-0.30014817	0.13868622	-2.33355247	
FOXA2	0.29991822	0.13868622	2.33158787	
ZBTB41	-0.29998895	0.13868622	-2.33219211	

KRT8	-0.29969136	0.13868622	-2.32965014	
OR51B6	0.29978480	0.13868622	2.33044827	
FLJ42177	-0.29995685	0.13868622	-2.33191789	
ETV3L	0.29978544	0.13868622	2.33045367	
NUP88	-0.30021802	0.13868622	-2.33414931	
ANO7	0.29986000	0.13868622	2.33109053	
GDE1	-0.29968000	0.13868622	-2.32955314	
SAMD9	-0.30009772	0.13868622	-2.33312136	
KIAA1370	-0.29989766	0.13868622	-2.33141222	
SMYD2	-0.29972124	0.13868622	-2.32990533	
PSMG2	-0.30002680	0.13868622	-2.33251547	
LRFN1	0.30003806	0.13868622	2.33261170	
PZP	-0.29979122	0.13868622	-2.33050305	
RPA1	-0.29970235	0.13868622	-2.32974403	
C10orf84	-0.29990290	0.13868622	-2.33145701	
SET	-0.30022106	0.13868622	-2.33417532	
SLC22A3	0.29978631	0.13868622	2.33046117	
SLMAP	-0.30004323	0.13868622	-2.33265586	
OR4A5	0.29971148	0.13868622	2.32982202	
FIP1L1	-0.29998455	0.13868622	-2.33215452	
SPRY4	0.29986815	0.13868622	2.33116017	
SOX7	0.30021732	0.13868622	2.33414334	
DNAH17	0.29996744	0.13868622	2.33200833	
OPN4	0.30029051	0.13868622	2.33476875	
STX8	-0.29972180	0.13868622	-2.32991018	
CDC25B	0.29987622	0.13868622	2.33122910	
KRT36	0.29962467	0.13880366	2.32908059	
GUCA1A	0.29960834	0.13880920	2.32894115	yes
ZNF524	0.29958584	0.13883248	2.32874897	
LRRC4	-0.29956605	0.13884798	-2.32857998	
BBS9	-0.29954796	0.13885860	-2.32842554	
MYOF	-0.29952553	0.13888170	-2.32823400	
C10orf32	-0.29933588	0.13901795	-2.32661473	

LRP12	0.29932009	0.13901795	2.32647991	
LOC401097	0.29937122	0.13901795	2.32691644	yes
VILL	-0.29941654	0.13901795	-2.32730335	
ZNF593	0.29945850	0.13901795	2.32766165	
ARMCX6	0.29935823	0.13901795	2.32680548	
C11orf1	-0.29942672	0.13901795	-2.32739029	
SERPINA6	-0.29932822	0.13901795	-2.32654930	
CCDC34	-0.29935321	0.13901795	-2.32676268	
SYNGR3	0.29932413	0.13901795	2.32651438	
KIF20B	-0.29944551	0.13901795	-2.32755069	
FAM129C	0.29929833	0.13903925	2.32629412	
C9orf163	0.29922386	0.13921203	2.32565836	
RUNX2	0.29918487	0.13928292	2.32532550	
TMEM77	-0.29911602	0.13933600	-2.32473785	
TMED3	0.29910909	0.13933600	2.32467866	
ANKRD56	-0.29912166	0.13933600	-2.32478597	
CCL13	0.29911742	0.13933600	2.32474980	
HPSE	-0.29902727	0.13948902	-2.32398031	
NAF1	-0.29903458	0.13948902	-2.32404269	
PSMB7	-0.29892577	0.13969889	-2.32311406	
BEND5	-0.29893331	0.13969889	-2.32317838	
PIK3CA	-0.29888915	0.13976318	-2.32280158	
BRWD3	-0.29884694	0.13984364	-2.32244136	
VPS26A	-0.29881119	0.13990550	-2.32213625	
SERPINA11	0.29877175	0.13995747	2.32179974	
ACP2	0.29876457	0.13995747	2.32173843	
STOML1	0.29874839	0.13996289	2.32160040	
CIDEA	0.29867996	0.13999539	2.32101656	
CXXC1	0.29868456	0.13999539	2.32105581	
C6orf126	0.29869919	0.13999539	2.32118060	
SPSB4	0.29870584	0.13999539	2.32123733	yes
COPS3	-0.29865810	0.14001725	-2.32083007	
LOC100133319	0.29847896	0.14034964	2.31930173	

VPS8	-0.29847439	0.14034964	-2.31926276	
SIGLEC8	0.29846590	0.14034964	2.31919032	
C4orf16	-0.29849452	0.14034964	-2.31943453	
SNRPB	-0.29851715	0.14034964	-2.31962756	
TPBG	0.29845739	0.14034964	2.31911780	
MEX3D	0.29842250	0.14036806	2.31882015	
C5orf22	-0.29842970	0.14036806	-2.31888161	
ZMYM2	-0.29835986	0.14046677	-2.31828582	
BXDC5	-0.29836201	0.14046677	-2.31830423	
LOC347549	0.29829346	0.14053520	2.31771949	
COMMD2	-0.29830192	0.14053520	-2.31779166	yes
VPS33A	-0.29832008	0.14053520	-2.31794659	
C8orf34	-0.29826377	0.14053869	-2.31746630	
SPTBN5	0.29827123	0.14053869	2.31752993	
SNX14	-0.29824499	0.14055184	-2.31730614	
GPT	0.29821789	0.14058907	2.31707502	
EME2	0.29815904	0.14059608	2.31657319	
LACE1	-0.29818715	0.14059608	-2.31681288	
ZDHHC24	0.29815118	0.14059608	2.31650616	
WNK2	0.29816532	0.14059608	2.31662667	
LRRCC1	-0.29814436	0.14059608	-2.31644796	
AIF1	0.29809411	0.14070037	2.31601949	
MAP6D1	0.29807632	0.14071074	2.31586776	
CRNKL1	-0.29805688	0.14072588	-2.31570203	
KIAA1430	-0.29803347	0.14075255	-2.31550238	
ZCRB1	-0.29800966	0.14078036	-2.31529940	
SNX13	-0.29799180	0.14079098	-2.31514709	
CCDC148	-0.29796291	0.14079245	-2.31490078	
LZTFL1	-0.29796981	0.14079245	-2.31495958	yes
SRXN1	-0.29791981	0.14083510	-2.31453332	
C4orf44	0.29792116	0.14083510	2.31454485	
WDR42B	0.29784265	0.14089757	2.31387548	
SLC2A8	0.29784415	0.14089757	2.31388831	

LCE1D	0.29783819	0.14089757	2.31383749	
STRN	-0.29782737	0.14089757	-2.31374525	
ZNF300	-0.29784494	0.14089757	-2.31389500	
NR2F2	0.29780742	0.14091433	2.31357520	
TBC1D14	-0.29778271	0.14094491	-2.31336449	
RAC3	0.29772361	0.14107515	2.31286070	
TRPM5	0.29770151	0.14109817	2.31267235	
MOBK11B	-0.29765993	0.14115000	-2.31231796	
FCHSD1	0.29765533	0.14115000	2.31227876	
RPGRIP1L	-0.29763388	0.14117120	-2.31209587	
TNNI2	0.29756909	0.14127709	2.31154371	
VRK2	-0.29757650	0.14127709	-2.31160687	yes
STRADA	-0.29753879	0.14132400	-2.31128544	
C12orf42	0.29752213	0.14133132	2.31114348	
HDAC1	-0.29750211	0.14134841	-2.31097287	
CLINT1	-0.29748721	0.14135063	-2.31084592	
C20orf201	0.29746592	0.14137067	2.31066448	
NACA	-0.29744600	0.14137067	-2.31049468	
ZNF598	0.29743794	0.14137067	2.31042604	
TAPT1	-0.29736823	0.14145013	-2.30983201	
IGFBPL1	0.29738010	0.14145013	2.30993310	
ERO1LB	0.29737889	0.14145013	2.30992285	
C1D	-0.29733211	0.14147309	-2.30952425	
FAM176B	0.29733376	0.14147309	2.30953831	
SNORD116-14	0.29727515	0.14151569	2.30903890	
PMS2L1	-0.29728007	0.14151569	-2.30908077	
POU5F1P1	0.29728680	0.14151569	2.30913811	
STC1	0.29725611	0.14153006	2.30887668	
FAM174A	-0.29711327	0.14161285	-2.30765973	
MAGEB2	0.29711447	0.14161285	2.30766992	
NRD1	-0.29713605	0.14161285	-2.30785381	
SLC22A15	-0.29719464	0.14161285	-2.30835298	
C1orf112	-0.29710094	0.14161285	-2.30755465	

CCDC47	-0.29716693	0.14161285	-2.30811684	
PP8961	0.29712837	0.14161285	2.30778839	
SHANK3	0.29711653	0.14161285	2.30768751	yes
APOL1	0.29719972	0.14161285	2.30839620	
C10orf104	-0.29689221	0.14162650	-2.30577675	
XIRP1	0.29682439	0.14162650	2.30519914	
ANTXRL	0.29704619	0.14162650	2.30708833	
ELF1	-0.29692070	0.14162650	-2.30601943	yes
WDR27	-0.29694219	0.14162650	-2.30620243	
GLCE	-0.29678774	0.14162650	-2.30488703	
METTL5	-0.29679072	0.14162650	-2.30491236	yes
CNOT7	-0.29705613	0.14162650	-2.30717296	yes
OR2T8	0.29702603	0.14162650	2.30691653	
KCNQ3	0.29699278	0.14162650	2.30663336	
RPL10P13	0.29687622	0.14162650	2.30564051	
MEFV	0.29694284	0.14162650	2.30620795	
TRIM37	-0.29700542	0.14162650	-2.30674104	yes
POU3F3	0.29686295	0.14162650	2.30552749	
NUP62CL	-0.29684174	0.14162650	-2.30534692	
C17orf80	-0.29684111	0.14162650	-2.30534149	
TMEM111	-0.29695930	0.14162650	-2.30634815	
ZNF471	-0.29692246	0.14162650	-2.30603439	
PTPN4	-0.29679048	0.14162650	-2.30491031	
ZNF354A	-0.29687266	0.14162650	-2.30561019	
RP11-556K13.1	-0.29690626	0.14162650	-2.30589644	
PTPN5	0.29692684	0.14162650	2.30607172	
CPN2	0.29672579	0.14176284	2.30435939	
MYLPF	0.29670635	0.14176284	2.30419391	
PPP1R3B	0.29669883	0.14176284	2.30412982	
AHCYL1	-0.29666589	0.14181792	-2.30384932	
MICAL1	0.29662763	0.14188845	2.30352359	
SNORD37	0.29659443	0.14190375	2.30324087	
IFRD2	0.29659531	0.14190375	2.30324833	

CEP290	-0.29657655	0.14191511	-2.30308867	
CILP2	0.29655862	0.14192286	2.30293593	
SRR	-0.29654597	0.14192286	-2.30282826	
CCDC155	0.29650894	0.14198991	2.30251298	
EMILIN1	0.29642080	0.14211146	2.30176260	
ANKRD24	0.29640445	0.14211146	2.30162342	
C3orf58	-0.29639740	0.14211146	-2.30156339	
C2orf78	0.29644589	0.14211146	2.30197620	
THOC2	-0.29640413	0.14211146	-2.30162065	
HSD17B2	0.29637941	0.14212324	2.30141024	
EBF1	0.29635418	0.14215610	2.30119543	yes
EPHA8	0.29629145	0.14227714	2.30066145	
SH3GL3	-0.29627079	0.14227714	-2.30048560	
HRCT1	0.29627292	0.14227714	2.30050377	
TMEM68	-0.29620132	0.14231727	-2.29989432	
TENC1	0.29621704	0.14231727	2.30002813	
KIR3DL2	0.29621042	0.14231727	2.29997173	
CABP1	0.29621188	0.14231727	2.29998424	
SLC6A19	0.29609540	0.14254472	2.29899282	
LPXN	0.29609898	0.14254472	2.29902335	
BRAP	-0.29604904	0.14263929	-2.29859831	
SENP1	-0.29599579	0.14272918	-2.29814513	
PECAM1	0.29599041	0.14272918	2.29809935	
C20orf106	0.29596909	0.14275083	2.29791791	
CXCL9	0.29589690	0.14277119	2.29730367	
CHD7	-0.29593137	0.14277119	-2.29759700	yes
SDHB	-0.29589464	0.14277119	-2.29728448	
NCRNA00087	0.29590720	0.14277119	2.29739132	
TRIM45	-0.29589265	0.14277119	-2.29726751	
EPOR	0.29586911	0.14279938	2.29706718	
CD22	0.29584687	0.14282377	2.29687795	yes
STATH	0.29583260	0.14282492	2.29675655	
TSPAN4	0.29581669	0.14283085	2.29662120	

C4orf34	-0.29573882	0.14287416	-2.29595868	
C6orf199	-0.29572974	0.14287416	-2.29588145	
KIF26A	0.29571868	0.14287416	2.29578736	
EFCAB4A	0.29578199	0.14287416	2.29632597	
RAX	0.29572625	0.14287416	2.29585178	
HSBP1	-0.29575965	0.14287416	-2.29613594	yes
C17orf50	0.29558504	0.14303001	2.29465050	
RASGEF1A	0.29558635	0.14303001	2.29466161	
HOXB6	0.29556839	0.14303001	2.29450884	yes
SCP2	-0.29558326	0.14303001	-2.29463537	
PTP4A2	0.29563380	0.14303001	2.29506526	
LAGE3	0.29557815	0.14303001	2.29459187	
HS3ST2	0.29564884	0.14303001	2.29519320	
MPEG1	0.29550925	0.14304121	2.29400586	
FOXA3	0.29552346	0.14304121	2.29412670	
KRTAP7-1	0.29551937	0.14304121	2.29409193	
CYB5R4	-0.29553587	0.14304121	-2.29423224	
RND3	-0.29549306	0.14304815	-2.29386811	
VCAM1	0.29545603	0.14311590	2.29355320	
COL1A1	0.29536306	0.14312257	2.29276252	
LPAR3	-0.29530201	0.14312257	-2.29224331	
TUSC1	0.29531316	0.14312257	2.29233816	
HES4	0.29532795	0.14312257	2.29246391	
MYOZ1	0.29540237	0.14312257	2.29309681	
SFRP5	0.29538521	0.14312257	2.29295083	
TCF7	0.29534094	0.14312257	2.29257438	
IFT88	-0.29537362	0.14312257	-2.29285232	
ITFG1	-0.29535084	0.14312257	-2.29265851	
QTRT1	0.29533537	0.14312257	2.29252701	
TMEM67	-0.29538201	0.14312257	-2.29292368	
RSBN1L	-0.29526730	0.14312576	-2.29194811	
FLJ43879	0.29527312	0.14312576	2.29199761	
ADIPOR1	-0.29525960	0.14312576	-2.29188268	yes

AP1G1	-0.29517240	0.14321127	-2.29114121	
HOXC12	0.29518475	0.14321127	2.29124622	yes
IFIT3	0.29518109	0.14321127	2.29121506	
GALNTL6	0.29517383	0.14321127	2.29115332	
PAK2	-0.29516151	0.14321127	-2.29104854	
NFE2	0.29513454	0.14324986	2.29081924	yes
DHX57	-0.29511972	0.14325297	-2.29069329	
GIMAP8	0.29506235	0.14331745	2.29020546	
FASTKD2	-0.29505674	0.14331745	-2.29015779	
ARHGAP15	0.29505641	0.14331745	2.29015501	
WDR35	-0.29497255	0.14346958	-2.28944205	
C5	-0.29496313	0.14346958	-2.28936196	
NOL9	-0.29496644	0.14346958	-2.28939013	
SOST	0.29493475	0.14351241	2.28912068	
WASF3	0.29478461	0.14365752	2.28784449	
LRRN4CL	0.29487136	0.14365752	2.28858188	
ACAT2	-0.29480987	0.14365752	-2.28805917	
SPANXN2	0.29485429	0.14365752	2.28843672	
EIF3L	-0.29477130	0.14365752	-2.28773135	
MRPS33	-0.29478982	0.14365752	-2.28788879	
MRPS35	-0.29476168	0.14365752	-2.28764959	
SNORA52	0.29479487	0.14365752	2.28793169	
CDK5RAP3	0.29481720	0.14365752	2.28812150	
MDC1	0.29472201	0.14373349	2.28731238	
CLEC11A	0.29467393	0.14383409	2.28690374	yes
SLC35F1	0.29458186	0.14390325	2.28612128	
KLHL35	0.29458498	0.14390325	2.28614784	
RGS7BP	0.29460734	0.14390325	2.28633783	
TDRD3	-0.29459088	0.14390325	-2.28619797	
ZNF845	-0.29459984	0.14390325	-2.28627414	
CELSR3	0.29454998	0.14395650	2.28585044	
INSR	0.29446536	0.14413531	2.28513133	
SOX4	0.29446159	0.14413531	2.28509934	

FBXO24	0.29444628	0.14414012	2.28496922	
DOPEY1	-0.29434848	0.14414646	-2.28413831	yes
C3orf27	0.29436273	0.14414646	2.28425934	
HCRTR1	0.29438940	0.14414646	2.28448597	
NPFFR1	0.29435278	0.14414646	2.28417486	yes
DYNLRB1	-0.29439018	0.14414646	-2.28449257	
RAB33A	0.29435457	0.14414646	2.28419001	
SLC22A13	0.29441344	0.14414646	2.28469024	
DRD2	0.29428814	0.14424552	2.28362562	
PLOD1	0.29428739	0.14424552	2.28361923	
NXF4	0.29413580	0.14452335	2.28233151	
C1orf128	-0.29415611	0.14452335	-2.28250400	
PVR	0.29416539	0.14452335	2.28258286	
EPS15L1	-0.29412448	0.14452335	-2.28223536	
LOC645339	0.29414847	0.14452335	2.28243912	
PSORS1C1	0.29404080	0.14470793	2.28152456	
NDUFS3	-0.29403437	0.14470793	-2.28146998	
UBXN2B	-0.29398529	0.14478149	-2.28105309	
TRUB1	-0.29396846	0.14478149	-2.28091019	
FLJ22184	0.29397118	0.14478149	2.28093329	
SHOC2	-0.29392819	0.14485983	-2.28056821	
IGHE	0.29389680	0.14487205	2.28030163	
PIGA	-0.29390762	0.14487205	-2.28039349	
CCDC42	0.29385720	0.14489605	2.27996536	
RBM9	-0.29386905	0.14489605	-2.28006590	
NGRN	-0.29384781	0.14489605	-2.27988561	
KLHL17	0.29382682	0.14491779	2.27970730	
MCART6	0.29376059	0.14503483	2.27914490	
RPL4	-0.29375983	0.14503483	-2.27913849	
COL22A1	0.29371776	0.14511865	2.27878123	
MAD2L2	0.29368956	0.14511943	2.27854179	
C7orf61	0.29367672	0.14511943	2.27843278	
FAM110B	0.29367803	0.14511943	2.27844390	

FLJ41649	0.29366267	0.14512079	2.27831351
SSTR5	0.29363229	0.14517024	2.27805558
TSPAN16	0.29345903	0.14530694	2.27658464
DIMT1L	-0.29353649	0.14530694	-2.27724223
OR10H5	0.29354484	0.14530694	2.27731312
ATP5C1	-0.29343666	0.14530694	-2.27639478
RBM23	-0.29349645	0.14530694	-2.27690237
HIF1AN	-0.29347773	0.14530694	-2.27674345
PRR11	-0.29352415	0.14530694	-2.27713748
LPPR2	0.29344412	0.14530694	2.27645813
SNAP25	0.29357134	0.14530694	2.27753810
LOC90826	-0.29346791	0.14530694	-2.27666005
ZNF276	0.29346295	0.14530694	2.27661795
SNORD83A	0.29337899	0.14532350	2.27590529
CSTF3	-0.29330923	0.14532350	-2.27531313
FAM78B	0.29335853	0.14532350	2.27573158
F2RL1	-0.29340766	0.14532350	-2.27614866
IGHV1-24	0.29338995	0.14532350	2.27599832
DNAJB9	0.29335041	0.14532350	2.27566266
RXFP3	0.29331516	0.14532350	2.27536347
PHAX	-0.29334217	0.14532350	-2.27559276
CBR4	-0.29332282	0.14532350	-2.27542847
SLC2A4	0.29328488	0.14535538	2.27510649
MAST1	0.29325443	0.14537943	2.27484808
GTF2F2	-0.29324968	0.14537943	-2.27480776
RAD50	-0.29320214	0.14540011	-2.27440424
MYADM1	0.29321607	0.14540011	2.27452245
MXD1	-0.29321314	0.14540011	-2.27449765
IL4I1	0.29309343	0.14544354	2.27348171
CTSL3	0.29311438	0.14544354	2.27365950
LRP3	0.29309294	0.14544354	2.27347757
RFWD3	-0.29317238	0.14544354	-2.27415171
CAPN2	-0.29313924	0.14544354	-2.27387044

HIST1H3E	-0.29313713	0.14544354	-2.27385256	
RTBDN	0.29311135	0.14544354	2.27363380	
LOC100133388	0.29306342	0.14549077	2.27322709	yes
RCAN3	-0.29295392	0.14555673	-2.27229795	
FAM185A	-0.29301110	0.14555673	-2.27278312	
HEYL	0.29298200	0.14555673	2.27253616	
SMAD2	-0.29296773	0.14555673	-2.27241515	
AFTPH	-0.29294568	0.14555673	-2.27222805	yes
SCARNA4	0.29295449	0.14555673	2.27230275	yes
DPM1	-0.29293026	0.14555673	-2.27209723	
PROZ	0.29299590	0.14555673	2.27265410	
TRIP4	-0.29291983	0.14555673	-2.27200873	yes
MRPL46	-0.29289357	0.14559445	-2.27178595	
FLJ40606	0.29286529	0.14563815	2.27154597	
TBC1D30	0.29279210	0.14575168	2.27092505	
FAM58B	0.29279750	0.14575168	2.27097089	
KCNJ10	0.29277300	0.14575168	2.27076299	
SECTM1	0.29278496	0.14575168	2.27086448	
KRTAP12-2	0.29275041	0.14577866	2.27057137	
ZNF440	-0.29270729	0.14579054	-2.27020564	
IGFBP5	-0.29270608	0.14579054	-2.27019539	
RTL1	0.29272855	0.14579054	2.27038598	
ARFGAP1	0.29268496	0.14581325	2.27001619	
HRH2	0.29266886	0.14582116	2.26987959	
DOM3Z	0.29262876	0.14586025	2.26953950	
USP1	-0.29264128	0.14586025	-2.26964569	
CXCR7	-0.29253107	0.14610889	-2.26871095	
SH3BGRL2	-0.29241437	0.14641411	-2.26772119	
ZFP3	-0.29239188	0.14644095	-2.26753048	
TP53BP1	-0.29236684	0.14647533	-2.26731817	
C16orf67	0.29232360	0.14648924	2.26695148	
HNRNPA1L2	-0.29230885	0.14648924	-2.26682646	
SLC39A12	0.29228417	0.14648924	2.26661717	

MGC57346	-0.29228837	0.14648924	-2.26665274	
PFKFB2	-0.29228173	0.14648924	-2.26659644	
PAPD5	-0.29228920	0.14648924	-2.26665984	
PAPOLA	-0.29218070	0.14652520	-2.26573986	yes
ETFA	-0.29224200	0.14652520	-2.26625960	
TMEM196	0.29219729	0.14652520	2.26588052	
CYP2S1	-0.29218705	0.14652520	-2.26579372	
INSM1	0.29220174	0.14652520	2.26591828	
KLRD1	0.29217589	0.14652520	2.26569908	
CDC14A	-0.29218886	0.14652520	-2.26580906	
KRT85	0.29212639	0.14663207	2.26527942	
PRKCD	-0.29207930	0.14669230	-2.26488023	
COX5A	-0.29208389	0.14669230	-2.26491907	
SSX1	0.29205530	0.14672378	2.26467677	
ADAM23	-0.29199232	0.14683116	-2.26414284	
MTMR1	-0.29199986	0.14683116	-2.26420680	
ACN9	-0.29196824	0.14686293	-2.26393868	
GRK5	0.29193849	0.14691150	2.26368653	
PRMT3	-0.29190319	0.14691870	-2.26338732	
RAPGEF3	0.29191564	0.14691870	2.26349284	yes
FLI1	0.29188266	0.14691870	2.26321336	
SMR3A	0.29189177	0.14691870	2.26329054	
HIPK1	-0.29183779	0.14693883	-2.26283300	
C14orf180	0.29183586	0.14693883	2.26281663	
MARCH7	-0.29183710	0.14693883	-2.26282713	
CECR6	0.29180105	0.14696298	2.26252159	
FLJ11235	0.29180650	0.14696298	2.26256785	
ANKRD42	-0.29176239	0.14703805	-2.26219394	
GATA4	0.29174370	0.14705394	2.26203558	
KIAA0776	-0.29168980	0.14717425	-2.26157879	
CA2	0.29164348	0.14723261	2.26118631	
EMILIN2	0.29165107	0.14723261	2.26125056	
ZNF480	-0.29158641	0.14725192	-2.26070269	

GJD4	0.29161418	0.14725192	2.26093796	
C1orf43	-0.29158373	0.14725192	-2.26068001	
LOC729173	0.29158588	0.14725192	2.26069818	
GPR113	0.29153163	0.14732759	2.26023847	
ATG2B	-0.29154084	0.14732759	-2.26031652	
SLC22A1	0.29148430	0.14742857	2.25983752	
FBXO6	0.29145080	0.14745976	2.25955361	
ZNF33B	-0.29144721	0.14745976	-2.25952323	yes
ANXA10	-0.29139319	0.14750177	-2.25906561	
PRTN3	0.29140296	0.14750177	2.25914837	
FLJ11506	-0.29140563	0.14750177	-2.25917095	yes
SNX3	-0.29137785	0.14750788	-2.25893563	
BTBD3	-0.29134005	0.14758072	-2.25861537	
ABHD3	-0.29129165	0.14764561	-2.25820540	
AGXT	0.29130325	0.14764561	2.25830367	
LOC100129285	-0.29127709	0.14764946	-2.25808198	
PRR16	0.29124889	0.14769382	2.25784312	
PIK3CB	-0.29122580	0.14772299	-2.25764759	
LRFN3	0.29120828	0.14773564	2.25749917	
SMAD3	-0.29113072	0.14781360	-2.25684216	
ACCN2	-0.29112219	0.14781360	-2.25676991	
CENPJ	-0.29111577	0.14781360	-2.25671559	
CNTN2	0.29111821	0.14781360	2.25673621	
SFXN5	0.29112287	0.14781360	2.25677568	
NUDT21	-0.29104934	0.14781509	-2.25615292	
DYSFIP1	0.29101625	0.14781509	2.25587271	
FOXO3	0.29105888	0.14781509	2.25623372	
LRP5	0.29106503	0.14781509	2.25628587	
MMP12	0.29102418	0.14781509	2.25593986	
DCUN1D1	-0.29104395	0.14781509	-2.25610727	
KIAA1377	-0.29100936	0.14781509	-2.25581438	
MATN4	0.29101557	0.14781509	2.25586695	
COL6A3	0.29078664	0.14810331	2.25392839	

PACRGL	-0.29089618	0.14810331	-2.25485587
ACOT12	0.29073627	0.14810331	2.25350190
CTSZ	0.29076919	0.14810331	2.25378063
AMZ1	0.29071876	0.14810331	2.25335363
CCDC28A	-0.29070500	0.14810331	-2.25323715
SLCO3A1	-0.29073384	0.14810331	-2.25348135
FLJ46361	0.29070115	0.14810331	2.25320453
PON2	-0.29070922	0.14810331	-2.25327286
CTPS2	-0.29081195	0.14810331	-2.25414271
PTGFR	-0.29082024	0.14810331	-2.25421286
RPS6KA2	0.29083905	0.14810331	2.25437211
BGLAP	0.29082742	0.14810331	2.25427367
ACTR6	-0.29073994	0.14810331	-2.25353294
SNORA75	0.29072626	0.14810331	2.25341715
COPS2	-0.29074991	0.14810331	-2.25361734
CRELD1	0.29067666	0.14813693	2.25299724
CDH4	0.29061804	0.14815453	2.25250097
SGMS1	-0.29063270	0.14815453	-2.25262501
RPL37P23	0.29062002	0.14815453	2.25251766
PRDX6	-0.29063278	0.14815453	-2.25262573
FAM148B	0.29057074	0.14825613	2.25210047
ENO3	0.29048369	0.14831934	2.25136367
TRAV5	0.29050598	0.14831934	2.25155231
C11orf75	0.29049765	0.14831934	2.25148183
ALG8	-0.29049386	0.14831934	-2.25144976
FAM176A	0.29053189	0.14831934	2.25177164
C19orf46	0.29038151	0.14836480	2.25049879
PAOX	0.29040661	0.14836480	2.25071122
UNC13C	0.29040833	0.14836480	2.25072579
LOC729040	0.29043138	0.14836480	2.25092089
LOC100133430	0.29036660	0.14836480	2.25037257
ZNF28	-0.29044723	0.14836480	-2.25105501
TMEM88	0.29037529	0.14836480	2.25044612

HNRPLL	-0.29036327	0.14836480	-2.25034439	
MOBKL2C	0.29034970	0.14836613	2.25022949	
SLC2A14	0.29031093	0.14844247	2.24990138	
VMO1	0.29029193	0.14845995	2.24974061	
MAML2	-0.29027746	0.14846395	-2.24961817	
FEZF1	0.29022075	0.14852426	2.24913819	
COL5A3	0.29021786	0.14852426	2.24911376	
GCS1	0.29022314	0.14852426	2.24915844	
MSN	0.29017099	0.14862484	2.24871712	
MAP7D1	0.29012649	0.14871840	2.24834057	
ADCY6	0.29007974	0.14879480	2.24794500	
TMEM106B	-0.29007466	0.14879480	-2.24790197	
PDLIM5	-0.29003191	0.14883837	-2.24754030	
CLDN12	-0.29002074	0.14883837	-2.24744579	
ACTR8	-0.29003563	0.14883837	-2.24757173	
RBM24	-0.28995713	0.14887869	-2.24690761	
SCML4	0.28995897	0.14887869	2.24692319	
C2orf42	-0.28995999	0.14887869	-2.24693182	
CASC5	-0.28995485	0.14887869	-2.24688830	
SLC9A6	-0.28990436	0.14895124	-2.24646118	
DPP10	-0.28991517	0.14895124	-2.24655259	
CEPT1	-0.28978933	0.14916267	-2.24548802	
TMEM45B	-0.28966368	0.14916267	-2.24442524	
FAM65C	0.28982025	0.14916267	2.24574963	
HK1	-0.28967248	0.14916267	-2.24449967	
C9orf139	0.28972311	0.14916267	2.24492788	
INTS8	-0.28972604	0.14916267	-2.24495267	
PROP1	0.28973064	0.14916267	2.24499164	
MAK10	-0.28971928	0.14916267	-2.24489549	yes
NCAPG	-0.28971452	0.14916267	-2.24485528	
C14orf135	-0.28974575	0.14916267	-2.24511939	
STAT5A	0.28968007	0.14916267	2.24456384	
PRRT1	0.28967396	0.14916267	2.24451221	

C21orf67	0.28976598	0.14916267	2.24529057	
CABP2	0.28963339	0.14917568	2.24416905	
STYX	-0.28963323	0.14917568	-2.24416770	
SH3PXD2B	0.28959827	0.14920218	2.24387204	
TIMP1	0.28960958	0.14920218	2.24396771	
GABRP	-0.28953311	0.14929915	-2.24332090	
FAM98B	-0.28952671	0.14929915	-2.24326677	
PDCL3	-0.28955045	0.14929915	-2.24346761	
MMP11	0.28943693	0.14947735	2.24250760	
KLHL25	0.28942800	0.14947735	2.24243204	
OTOP2	0.28943307	0.14947735	2.24247493	
TRIP11	-0.28939573	0.14953491	-2.24215916	
CHRNA2	0.28936497	0.14955698	2.24189912	
MCM4	-0.28936231	0.14955698	-2.24187657	
SENP2	-0.28933465	0.14957147	-2.24164269	
ENGASE	0.28933143	0.14957147	2.24161552	
FMR1	-0.28931756	0.14957406	-2.24149819	
NFX1	-0.28930073	0.14958548	-2.24135594	yes
SFXN1	-0.28928055	0.14960693	-2.24118533	
ATP1B2	0.28920442	0.14979588	2.24054160	
PADI1	-0.28918252	0.14982251	-2.24035648	
C1QL3	0.28915432	0.14982910	2.24011808	
C9orf80	-0.28915891	0.14982910	-2.24015685	
TMEM9B	-0.28912882	0.14986655	-2.23990252	
EPO	0.28910205	0.14990782	2.23967622	
KLHL33	0.28903380	0.14999558	2.23909923	
ZNF423	0.28903770	0.14999558	2.23913219	
OR7C2	0.28905789	0.14999558	2.23930292	
PDZD8	-0.28897684	0.15008846	-2.23861782	
C14orf94	-0.28898221	0.15008846	-2.23866321	
SAMD4A	0.28895316	0.15010865	2.23841767	
PTGDR	0.28894416	0.15010865	2.23834153	
ADCY8	0.28884891	0.15026050	2.23753648	

HAVCR1	0.28885702	0.15026050	2.23760508	
LOC392364	0.28887331	0.15026050	2.23774275	
NBPF3	-0.28884164	0.15026050	-2.23747509	
NME4	0.28876204	0.15044032	2.23680237	yes
C21orf66	-0.28875580	0.15044032	-2.23674966	
DNAJB6	-0.28868861	0.15045244	-2.23618187	
AP4B1	0.28868699	0.15045244	2.23616815	
SSX2IP	-0.28872089	0.15045244	-2.23645466	
C16orf14	0.28870285	0.15045244	2.23630221	
FBXO44	0.28873044	0.15045244	2.23653529	yes
CIC	0.28862914	0.15050954	2.23567931	
PAN3	-0.28863822	0.15050954	-2.23575603	
ATP6VOA1	-0.28864315	0.15050954	-2.23579773	
C6orf168	-0.28860563	0.15052361	-2.23548069	
CP110	-0.28859857	0.15052361	-2.23542106	
XPNPEP2	0.28856969	0.15057152	2.23517699	
C15orf55	0.28852439	0.15062992	2.23479421	
TEP1	0.28852594	0.15062992	2.23480738	
NTNG1	0.28845579	0.15075836	2.23421469	
PSMD6	-0.28846295	0.15075836	-2.23427520	
LHFPL3	0.28842150	0.15081327	2.23392500	
PRKAG1	-0.28841169	0.15081327	-2.23384207	
ST8SIA6	0.28839609	0.15082132	2.23371029	
HPCA	0.28835579	0.15090366	2.23336991	
GPER	0.28833883	0.15091583	2.23322663	
TPRG1	-0.28830555	0.15097712	-2.23294547	
ZNF692	0.28825426	0.15109265	2.23251219	
LILRB5	0.28822305	0.15110887	2.23224864	
ARL6IP6	-0.28823199	0.15110887	-2.23232412	
NAGA	-0.28820798	0.15111280	-2.23212131	
EIF4EBP3	0.28819595	0.15111280	2.23201968	
LOC727726	-0.28817836	0.15111634	-2.23187117	
AATK	0.28816898	0.15111634	2.23179189	

COL23A1	0.28814229	0.15115787	2.23156649	
MAMDC4	0.28810053	0.15124482	2.23121379	
ASPDH	0.28804138	0.15135038	2.23071427	
SCT	0.28803972	0.15135038	2.23070023	
FNDC4	0.28801312	0.15135289	2.23047559	
SLCO5A1	0.28802111	0.15135289	2.23054310	
HSPA8	-0.28796372	0.15146299	-2.23005841	
TFG	-0.28794184	0.15148288	-2.22987370	
OTOS	0.28793137	0.15148288	2.22978524	
DNAJB8	0.28784889	0.15169288	2.22908881	
PHTF2	-0.28781303	0.15176229	-2.22878602	
NR2E3	0.28778883	0.15179265	2.22858173	
LOC100133142	0.28776437	0.15179265	2.22837521	yes
DNAJB12	0.28776614	0.15179265	2.22839013	
C14orf104	-0.28772159	0.15188303	-2.22801399	
FARP2	-0.28770449	0.15189583	-2.22786963	
SNX27	-0.28759622	0.15214541	-2.22695562	
USP8	-0.28760151	0.15214541	-2.22700030	
XKR5	0.28754479	0.15226213	2.22652151	
C14orf153	-0.28752377	0.15228685	-2.22634408	
DUSP21	0.28750125	0.15231612	2.22615396	
OR52W1	0.28741270	0.15254547	2.22540653	
CASK	-0.28739704	0.15255398	-2.22527436	
FAF1	-0.28735292	0.15260519	-2.22490201	
VN1R2	0.28730309	0.15260519	2.22448147	
SNORA37	0.28733656	0.15260519	2.22476397	
TSNAX	-0.28735508	0.15260519	-2.22492023	
PSTPIP2	0.28730790	0.15260519	2.22452211	
UBE4A	-0.28730940	0.15260519	-2.22453474	
AKAP10	-0.28724224	0.15275082	-2.22396795	
FCN1	0.28719723	0.15280949	2.22358820	
NCR2	0.28720608	0.15280949	2.22366287	
DSG3	-0.28717514	0.15283591	-2.22340175	

P2RX7	0.28716287	0.15283591	2.22329827
CYP46A1	0.28710559	0.15293118	2.22281492
CRABP1	0.28708035	0.15293118	2.22260191
USP47	-0.28710671	0.15293118	-2.22282433
NXF3	0.28708021	0.15293118	2.22260075
B2M	0.28701463	0.15309144	2.22204743
IMP5	0.28698142	0.15315343	2.22176722
C1orf111	0.28695858	0.15318391	2.22157453
COX4I2	0.28673758	0.15381781	2.21971027
MAGEC3	0.28662524	0.15401147	2.21876280
PRDM1	0.28665133	0.15401147	2.21898281
TIE1	0.28662685	0.15401147	2.21877637
KIAA0196	-0.28662286	0.15401147	-2.21874272
CMTM6	-0.28660349	0.15403152	-2.21857933
IL1F7	0.28657210	0.15404919	2.21831458
PPIL3	-0.28658316	0.15404919	-2.21840790
EN1	0.28653162	0.15406428	2.21797323
HINT1	-0.28651597	0.15406428	-2.21784129
SERPINB9	0.28652681	0.15406428	2.21793267
TPST1	-0.28653582	0.15406428	-2.21800870
LOC100128663	0.28646384	0.15413229	2.21740166
FCGR2B	0.28645534	0.15413229	2.21732997
ATP6V1E1	-0.28646303	0.15413229	-2.21739482
SMARCAD1	-0.28639647	0.15427306	-2.21683358
ZNF586	-0.28636423	0.15429474	-2.21656170
C14orf115	0.28636382	0.15429474	2.21655826
DOK2	0.28634303	0.15431924	2.21638294
AK3	-0.28630883	0.15438471	-2.21609464
DPY19L2	-0.28622663	0.15455801	-2.21540155
CISD1	-0.28623034	0.15455801	-2.21543283
EFNA2	0.28617963	0.15462369	2.21500533
SUCLG1	-0.28618804	0.15462369	-2.21507622
ANUBL1	-0.28616562	0.15462750	-2.21488724

HOXC6	0.28608203	0.15483494	2.21418260
TCF15	0.28607235	0.15483494	2.21410099
CEP76	-0.28605440	0.15485084	-2.21394969
C8orf74	0.28598724	0.15489232	2.21338361
STAU2	-0.28600538	0.15489232	-2.21353646
PPP2R5A	-0.28596782	0.15489232	-2.21321991
SLC25A40	-0.28600148	0.15489232	-2.21350361
FAM172A	-0.28596436	0.15489232	-2.21319077
ZMYM5	-0.28602093	0.15489232	-2.21366754
C5orf36	-0.28591252	0.15501214	-2.21275384
SIGLEC12	0.28589755	0.15501899	2.21262763
LOC100128364	0.28580863	0.15509554	2.21187824
OR2Y1	0.28576805	0.15509554	2.21153625
GUCA2A	0.28575923	0.15509554	2.21146193
DKFZp686O24166	-0.28578024	0.15509554	-2.21163901
SP5	0.28580178	0.15509554	2.21182049
OPCML	0.28575804	0.15509554	2.21145190
PTPN9	-0.28578742	0.15509554	-2.21169951
FAM120B	-0.28581425	0.15509554	-2.21192564
PAGE1	0.28578758	0.15509554	2.21170081
NT5C2	-0.28573540	0.15512597	-2.21126111
XRCC5	-0.28571329	0.15515478	-2.21107481
C20orf7	-0.28563406	0.15535350	-2.21040714
HMGN3	-0.28562310	0.15535350	-2.21031481
PLIN	0.28559742	0.15539331	2.21009846
USP7	-0.28558352	0.15539698	-2.20998134
HBQ1	0.28556486	0.15541528	2.20982410
HMGCL	-0.28554812	0.15542766	-2.20968311
TTC26	-0.28553355	0.15543342	-2.20956034
DFFB	0.28548415	0.15544931	2.20914414
C9orf43	-0.28547761	0.15544931	-2.20908905
SNORA45	0.28547970	0.15544931	2.20910666
STON2	-0.28551174	0.15544931	-2.20937660

VPS35	-0.28545380	0.15548349	-2.20888840	
C2orf77	-0.28535356	0.15571825	-2.20804397	
DEXI	0.28532666	0.15571825	2.20781735	
INPP1	-0.28534071	0.15571825	-2.20793576	
CEP350	-0.28533162	0.15571825	-2.20785919	
CCDC41	-0.28529673	0.15575335	-2.20756531	
FLJ38576	0.28527722	0.15575335	2.20740093	
PDZD7	0.28527738	0.15575335	2.20740230	
CCL3	0.28524753	0.15580566	2.20715088	
NUDT7	-0.28521510	0.15580812	-2.20687771	
NDUFV3	0.28520875	0.15580812	2.20682420	
PPIL4	-0.28523082	0.15580812	-2.20701009	
C1QTNF5	0.28518529	0.15584134	2.20662658	yes
COL15A1	0.28512774	0.15597179	2.20614192	
ALG6	-0.28511541	0.15597179	-2.20603810	
CTRB2	0.28510491	0.15597179	2.20594963	
ZNF564	-0.28508844	0.15598353	-2.20581095	
ITGA5	0.28507580	0.15598353	2.20570444	
PDCD5	0.28506256	0.15598536	2.20559297	
ZNF207	-0.28503203	0.15601620	-2.20533585	
TSGA10	-0.28502725	0.15601620	-2.20529563	
KLHDC2	-0.28500507	0.15602399	-2.20510886	
MSH3	-0.28499945	0.15602399	-2.20506150	
PM20D1	0.28492831	0.15605875	2.20446245	
ITGA4	0.28491921	0.15605875	2.20438581	
KRT34	0.28494077	0.15605875	2.20456739	
UGT1A1	-0.28491240	0.15605875	-2.20432849	
LRRC37A4	-0.28495132	0.15605875	-2.20465619	
SFRS2IP	-0.28492092	0.15605875	-2.20440025	
SIGLEC9	0.28482144	0.15610584	2.20356256	
SMAD4	-0.28484008	0.15610584	-2.20371954	
FER1L6	-0.28483748	0.15610584	-2.20369764	
WDR73	-0.28486599	0.15610584	-2.20393770	

LIN7A	0.28482272	0.15610584	2.20357337	
KCNK6	0.28482409	0.15610584	2.20358490	
RGS14	0.28478025	0.15619000	2.20321581	
EMID1	0.28475669	0.15619000	2.20301740	
PLA2G4D	0.28474369	0.15619000	2.20290800	
GBA3	0.28475529	0.15619000	2.20300562	
FAIM2	-0.28471939	0.15622602	-2.20270344	
EDN3	0.28469796	0.15625324	2.20252298	
LOC100133197	0.28447962	0.15645510	2.20068508	
AFF2	0.28452511	0.15645510	2.20106794	
PART1	0.28450442	0.15645510	2.20089381	
GTF2B	-0.28449307	0.15645510	-2.20079821	
OR2J3	0.28449486	0.15645510	2.20081333	
CEP192	-0.28460284	0.15645510	-2.20172224	
MUDENG	-0.28444695	0.15645510	-2.20041009	yes
KIDINS220	-0.28444383	0.15645510	-2.20038381	
PTPRK	-0.28450793	0.15645510	-2.20092330	
RXRB	0.28452409	0.15645510	2.20105937	
C1orf200	0.28450476	0.15645510	2.20089666	
LRFN4	0.28445144	0.15645510	2.20044787	
MOGAT2	0.28457154	0.15645510	2.20145880	
AP3B2	0.28457881	0.15645510	2.20151993	
C21orf56	0.28447861	0.15645510	2.20067656	
STX1B	0.28430383	0.15663222	2.19920550	
DR1	-0.28434132	0.15663222	-2.19952103	
FSHB	0.28431081	0.15663222	2.19926429	
MPZ	0.28429852	0.15663222	2.19916084	
AIG1	-0.28437324	0.15663222	-2.19978970	yes
BTN2A3	0.28431230	0.15663222	2.19927683	yes
HIST1H2BK	-0.28434183	0.15663222	-2.19952531	
CCL19	0.28425890	0.15671567	2.19882744	
NOSTRIN	0.28420767	0.15676757	2.19839631	
ZDHHC20	-0.28422939	0.15676757	-2.19857911	

CSDC2	0.28418511	0.15676757	2.19820647	
KCNC3	0.28416088	0.15676757	2.19800259	
FLJ41327	0.28419417	0.15676757	2.19828270	
NKX6-1	0.28417479	0.15676757	2.19811965	
BRE	-0.28415438	0.15676757	-2.19794791	
C22orf28	-0.28411991	0.15683523	-2.19765790	
FMNL3	0.28409670	0.15686824	2.19746255	
ZNF662	0.28408353	0.15687027	2.19735173	
ITGB7	0.28403126	0.15699289	2.19691198	
SAP18	-0.28396289	0.15702126	-2.19633675	
ODF3	0.28395810	0.15702126	2.19629647	
SERPIND1	0.28392206	0.15702126	2.19599330	
ANXA7	-0.28394527	0.15702126	-2.19618851	
SH2D1A	0.28392437	0.15702126	2.19601271	
SUV420H1	-0.28397974	0.15702126	-2.19647854	
UFC1	-0.28399029	0.15702126	-2.19656730	
RPL7A	0.28394302	0.15702126	2.19616959	
GFM2	-0.28388291	0.15710353	-2.19566393	yes
NOVA2	0.28386750	0.15711256	2.19553426	
PDS5B	-0.28376559	0.15723547	-2.19467706	
KIF27	-0.28374098	0.15723547	-2.19447007	
ANKRD50	-0.28375999	0.15723547	-2.19462994	
SLC24A3	0.28379917	0.15723547	2.19495953	
CDH22	0.28374033	0.15723547	2.19446455	
MPPED2	-0.28379664	0.15723547	-2.19493824	
UBAP2L	-0.28374463	0.15723547	-2.19450070	
GLI4	0.28369199	0.15734624	2.19405799	
C6orf203	-0.28365022	0.15735975	-2.19370667	
BXDC2	-0.28365105	0.15735975	-2.19371366	
MREG	-0.28366616	0.15735975	-2.19384073	
COPS8	-0.28358534	0.15741160	-2.19316103	
PRSS33	0.28357249	0.15741160	2.19305291	
KCND3	0.28359561	0.15741160	2.19324735	

CNOT2	-0.28354626	0.15741160	-2.19283236	
RDH5	0.28355347	0.15741160	2.19289295	
WRB	-0.28356162	0.15741160	-2.19296152	
ANKRD13C	-0.28357916	0.15741160	-2.19310901	
RBKS	-0.28352837	0.15742842	-2.19268191	
POU5F2	0.28348091	0.15753662	2.19228281	
DPY19L4	-0.28345793	0.15754330	-2.19208950	
PTPRC	0.28345387	0.15754330	2.19205543	
ZNF512B	0.28343399	0.15756631	2.19188827	
CREB3	0.28336231	0.15759581	2.19128550	
ANKS1A	-0.28337310	0.15759581	-2.19137627	
EIF3E	-0.28336278	0.15759581	-2.19128950	
MDM1	-0.28337581	0.15759581	-2.19139902	
WISP1	0.28337449	0.15759581	2.19138795	
ARL5B	-0.28333444	0.15762432	-2.19105117	
ZNF451	-0.28331464	0.15762432	-2.19088471	
FLJ34503	0.28329494	0.15762432	2.19071910	
TUBA3C	0.28331081	0.15762432	2.19085247	
GRIP2	0.28329100	0.15762432	2.19068596	
LRRC49	-0.28324049	0.15774210	-2.19026130	
KDR	0.28320620	0.15780979	2.18997298	
VAX1	0.28316396	0.15781670	2.18961789	
INSC	0.28314196	0.15781670	2.18943293	
SERPINA4	0.28314354	0.15781670	2.18944622	
C9orf6	-0.28317657	0.15781670	-2.18972388	yes
THUMPD1	-0.28319006	0.15781670	-2.18983728	
HOMER3	0.28310009	0.15790788	2.18908096	
SNAPIN	-0.28307790	0.15793821	-2.18889440	
HIPK2	0.28301128	0.15799103	2.18833444	
LOC442461	0.28301307	0.15799103	2.18834946	
SLC39A9	-0.28301875	0.15799103	-2.18839720	
SNAPC1	-0.28304525	0.15799103	-2.18861995	
SSPO	0.28298388	0.15803753	2.18810410	

AIF1L	0.28294051	0.15813346	2.18773961	
SLC5A2	0.28292310	0.15814905	2.18759328	
METTL7A	-0.28284806	0.15818990	-2.18696255	
C12orf61	0.28289567	0.15818990	2.18736267	
FLJ42418	0.28285001	0.15818990	2.18697895	
UNC119B	-0.28285331	0.15818990	-2.18700666	
CLDN1	-0.28285045	0.15818990	-2.18698263	
LOC100129648	0.28280701	0.15827876	2.18661758	
TXNDC9	-0.28277196	0.15830497	-2.18632298	
SEP14	0.28275331	0.15830497	2.18616628	
KIAA1841	-0.28274912	0.15830497	-2.18613106	
SCARF2	0.28275335	0.15830497	2.18616665	
NOL11	-0.28267302	0.15846427	-2.18549156	
NUF2	-0.28268025	0.15846427	-2.18555234	
C11orf79	-0.28264504	0.15851273	-2.18525647	
RP3-377H14.5	0.28260004	0.15857369	2.18487836	
PIGC	-0.28258835	0.15857369	-2.18478012	
THNSL1	-0.28260005	0.15857369	-2.18487848	
SESN3	-0.28257272	0.15858389	-2.18464880	
SYT3	0.28255627	0.15859663	2.18451062	
PSAPL1	0.28252182	0.15866524	2.18422116	
GMCL1	-0.28248837	0.15869248	-2.18394016	
TFF2	0.28249504	0.15869248	2.18399619	
LOC100133383	0.28241966	0.15872679	2.18336285	
ADORA3	0.28244806	0.15872679	2.18360145	
KLHL30	0.28243221	0.15872679	2.18346828	
NUP54	-0.28241569	0.15872679	-2.18332952	
DENND4C	-0.28245250	0.15872679	-2.18363875	
BAZ1A	-0.28236518	0.15872947	-2.18290520	yes
MRGPRE	0.28234195	0.15872947	2.18271006	
CYB5A	-0.28240246	0.15872947	-2.18321834	
OXGR1	0.28229973	0.15872947	2.18235540	
OTUD4	-0.28235795	0.15872947	-2.18284448	yes

KIAA1257	-0.28233568	0.15872947	-2.18265738	
CCL25	0.28231433	0.15872947	2.18247808	
APOO	-0.28229175	0.15872947	-2.18228839	
C14orf142	-0.28237249	0.15872947	-2.18296662	
CCDC149	0.28231482	0.15872947	2.18248215	
SP1	-0.28227788	0.15873436	-2.18217190	
MTFR1	-0.28226214	0.15874506	-2.18203968	
LOC100128225	0.28221131	0.15875923	2.18161273	
C17orf44	0.28218388	0.15875923	2.18138228	
RGS9BP	0.28219914	0.15875923	2.18151044	
MAGEA11	0.28218702	0.15875923	2.18140864	
LRRC1	-0.28218559	0.15875923	-2.18139667	
TROVE2	-0.28220068	0.15875923	-2.18152340	
CLUL1	0.28217000	0.15876420	2.18126573	
WDR92	-0.28211668	0.15885346	-2.18081790	
BCL2L12	0.28211962	0.15885346	2.18084259	
COL18A1	0.28210166	0.15886199	2.18069179	
CHD1	-0.28182876	0.15887700	-2.17840006	
TMIGD2	0.28203133	0.15887700	2.18010106	
C1orf216	0.28193724	0.15887700	2.17931101	
GDF7	0.28187615	0.15887700	2.17879804	
GPR125	-0.28178041	0.15887700	-2.17799416	
FAM181B	0.28184915	0.15887700	2.17857126	
FILIP1	-0.28188826	0.15887700	-2.17889967	
HELLS	-0.28177869	0.15887700	-2.17797971	
OGDH	-0.28201681	0.15887700	-2.17997916	
SIX4	-0.28180546	0.15887700	-2.17820442	
PPID	-0.28190125	0.15887700	-2.17900876	
FAM55D	0.28179662	0.15887700	2.17813020	
YLPM1	-0.28184752	0.15887700	-2.17855760	
WDR45L	-0.28195753	0.15887700	-2.17948138	yes
PTGER1	0.28192692	0.15887700	2.17922432	yes
RBAK	-0.28206892	0.15887700	-2.18041675	

RAP1GDS1	-0.28190705	0.15887700	-2.17905747	
RNASE6	0.28178400	0.15887700	2.17802428	
SUPV3L1	-0.28202761	0.15887700	-2.18006983	
TNXB	0.28179567	0.15887700	2.17812224	
ZNF175	-0.28204735	0.15887700	-2.18023560	
ZCCHC6	-0.28199728	0.15887700	-2.17981515	
CHST1	0.28203369	0.15887700	2.18012096	
ZBTB47	0.28190359	0.15887700	2.17902840	
SYAP1	-0.28192932	0.15887700	-2.17924449	
IKBKE	0.28200633	0.15887700	2.17989117	
AKAP11	-0.28172452	0.15900713	-2.17752489	
KCTD18	-0.28165953	0.15905297	-2.17697922	
COCH	0.28165815	0.15905297	2.17696766	
FH	-0.28162437	0.15905297	-2.17668412	
UBN2	-0.28163348	0.15905297	-2.17676055	
POLB	-0.28164118	0.15905297	-2.17682518	
S100A11	-0.28166681	0.15905297	-2.17704037	yes
KIAA1712	-0.28167475	0.15905297	-2.17710705	
DLG1	-0.28155908	0.15907255	-2.17613603	
SFMBT1	-0.28157450	0.15907255	-2.17626547	yes
AGPAT4	0.28155715	0.15907255	2.17611983	
SCNN1B	-0.28157949	0.15907255	-2.17630733	
LYRM7	-0.28159740	0.15907255	-2.17645772	
HMX3	0.28152783	0.15909446	2.17587369	
MGC4294	0.28152574	0.15909446	2.17585616	
KCNV1	0.28148807	0.15917356	2.17553994	
THADA	-0.28147389	0.15917978	-2.17542097	
ROCK1	-0.28141952	0.15931079	-2.17496453	
DPH5	-0.28139820	0.15933920	-2.17478560	
PTCD2	-0.28138468	0.15934339	-2.17467218	
TPR	-0.28137058	0.15934943	-2.17455379	
ST6GALNAC3	0.28130373	0.15951929	2.17399276	
LOC100133400	-0.28124182	0.15956725	-2.17347324	

LOC375295	0.28125029	0.15956725	2.17354427	yes
GPR152	0.28123967	0.15956725	2.17345521	
FLJ44313	0.28126217	0.15956725	2.17364399	
TRAV8-3	0.28118147	0.15971042	2.17296675	
FAM71E2	0.28111576	0.15987703	2.17241541	
SLC35F3	0.28108899	0.15992255	2.17219075	
TSPAN9	0.28105775	0.15998199	2.17192865	
ZCCHC14	-0.28103223	0.16002362	-2.17171456	
CTSH	-0.28101928	0.16002615	-2.17160586	
PLXNC1	0.28093774	0.16003647	2.17092178	
ZNF793	-0.28091890	0.16003647	-2.17076372	
ASTN1	0.28095421	0.16003647	2.17105997	
SETD4	-0.28092932	0.16003647	-2.17085108	
ANLN	-0.28097289	0.16003647	-2.17121664	
EDA2R	0.28093647	0.16003647	2.17091108	
SLC15A2	-0.28092389	0.16003647	-2.17080556	yes
SULT1C2	0.28097058	0.16003647	2.17119724	
MED1	-0.28090261	0.16004946	-2.17062702	
CLDN4	-0.28085370	0.16005965	-2.17021675	
ZNF570	-0.28083735	0.16005965	-2.17007955	
CBX5	-0.28086779	0.16005965	-2.17033488	
C3orf23	-0.28084606	0.16005965	-2.17015266	
MALL	-0.28081469	0.16005965	-2.16988948	
SOCS2	0.28081455	0.16005965	2.16988827	
RALGPS1	-0.28088111	0.16005965	-2.17044670	
TNFRSF13C	0.28075316	0.16017141	2.16937335	
DECR2	0.28074234	0.16017141	2.16928260	
FBXO10	0.28075857	0.16017141	2.16941869	yes
COL6A2	0.28071674	0.16021346	2.16906787	yes
CEBPG	-0.28066459	0.16027804	-2.16863039	
ADAD2	0.28065973	0.16027804	2.16858968	yes
RPS4X	-0.28068198	0.16027804	-2.16877632	
CCT7	-0.28063171	0.16029001	-2.16835465	

CORIN	0.28063751	0.16029001	2.16840331
DIRAS1	0.28060245	0.16034351	2.16810929
GABARAPL2	-0.28058752	0.16035240	-2.16798401
C14orf100	-0.28056582	0.16038236	-2.16780205
CAPS2	-0.28052772	0.16046349	-2.16748247
RNASE11	0.28051509	0.16046519	2.16737660
SNORD56	0.28049753	0.16048228	2.16722936
IGSF6	0.28045125	0.16049439	2.16684124
C1orf175	0.28045333	0.16049439	2.16685865
RDH8	0.28045843	0.16049439	2.16690141
TCL1B	0.28044537	0.16049439	2.16679192
UNQ3104	0.28041323	0.16051950	2.16652242
IRAK1	0.28041319	0.16051950	2.16652205
ORC3L	-0.28036628	0.16058803	-2.16612872
ATP2A2	-0.28035884	0.16058803	-2.16606635
ODC1	-0.28034078	0.16058803	-2.16591489
RBM41	-0.28034431	0.16058803	-2.16594452
CA10	0.28033093	0.16058803	2.16583230
LSP1	0.28031274	0.16060718	2.16567976
PTGR2	-0.28025972	0.16073496	-2.16523526
CLEC9A	0.28022515	0.16077214	2.16494537
MAN2A2	0.28022372	0.16077214	2.16493338
PAAF1	-0.28018972	0.16084067	-2.16464833
GLA	-0.28009012	0.16100132	-2.16381333
GPR120	0.28010994	0.16100132	2.16397953
MIB1	-0.28009505	0.16100132	-2.16385468
ZNF138	-0.28012109	0.16100132	-2.16407299
CACNA2D4	0.28003993	0.16112053	2.16339262
CEP110	-0.28001618	0.16115715	-2.16319354
FAM108B1	-0.27999691	0.16117978	-2.16303201
GPR142	0.27995102	0.16121045	2.16264736
PNLIPRP2	0.27995531	0.16121045	2.16268331
RNGTT	-0.27997499	0.16121045	-2.16284821

MTIF2	-0.27989821	0.16133802	-2.16220467	
C5orf50	0.27987625	0.16136911	2.16202062	
TTC12	-0.27982698	0.16141348	-2.16160769	
LOC646799	0.27984712	0.16141348	2.16177651	
DNAL1	-0.27982602	0.16141348	-2.16159960	
FAM187B	0.27978961	0.16145222	2.16129448	
MSH5	-0.27979484	0.16145222	-2.16133833	
WTIP	0.27972970	0.16157148	2.16079239	yes
C4orf41	-0.27972749	0.16157148	-2.16077390	
ANAPC10	-0.27963997	0.16170671	-2.16004048	
ADAMTS15	0.27967171	0.16170671	2.16030642	
ARHGEF15	0.27964549	0.16170671	2.16008672	yes
PCDHGC5	0.27963630	0.16170671	2.16000973	
HSPH1	-0.27961009	0.16175124	-2.15979008	
LSM10	0.27958081	0.16180540	2.15954472	
TMEM132E	0.27950376	0.16192709	2.15889918	
CC2D1B	0.27944755	0.16192709	2.15842821	
PILRA	0.27951466	0.16192709	2.15899051	
NDUFB9	-0.27946046	0.16192709	-2.15853635	
C11orf73	-0.27948105	0.16192709	-2.15870890	
ZNF701	-0.27947969	0.16192709	-2.15869753	
CHST7	0.27947799	0.16192709	2.15868327	
P11	0.27944608	0.16192709	2.15841593	
C20orf71	0.27942612	0.16195213	2.15824868	
MASP1	0.27939295	0.16196064	2.15797081	
TGIF2	0.27939791	0.16196064	2.15801235	
LIN7B	0.27938749	0.16196064	2.15792500	
CYP3A5	-0.27929716	0.16213812	-2.15716830	
TMEM158	0.27928303	0.16213812	2.15704990	
IL29	0.27929183	0.16213812	2.15712363	
SMURF2	-0.27930576	0.16213812	-2.15724037	
HNRNPUL1	-0.27925596	0.16214799	-2.15682317	
TMEM125	0.27926503	0.16214799	2.15689915	

LCN8	0.27919759	0.16228806	2.15633425	
GBAS	-0.27918741	0.16228806	-2.15624898	
C1QTNF6	0.27914518	0.16234559	2.15589523	
ZNF345	-0.27915361	0.16234559	-2.15596589	
NMUR1	0.27910165	0.16240724	2.15553062	
TLR9	0.27911338	0.16240724	2.15562891	
MOS	0.27908005	0.16243754	2.15534976	
NOXO1	0.27897601	0.16265189	2.15447841	
OBP2B	0.27899069	0.16265189	2.15460131	
SERPING1	0.27897837	0.16265189	2.15449815	
FBXW8	0.27895752	0.16266429	2.15432353	
REV1	-0.27894575	0.16266429	-2.15422498	
KRTAP17-1	0.27893625	0.16266429	2.15414544	
C7orf46	-0.27891711	0.16268696	-2.15398513	
CYP3A43	0.27890173	0.16269778	2.15385637	
PLAC9	0.27887241	0.16271497	2.15361080	yes
ZNF148	-0.27887666	0.16271497	-2.15364641	
A4GNT	0.27884916	0.16273376	2.15341613	
WDR19	-0.27884258	0.16273376	-2.15336105	
KLHL34	0.27882854	0.16274042	2.15324351	yes
POLH	-0.27879809	0.16279870	-2.15298852	
RTN2	0.27877476	0.16283459	2.15279319	
CLK2P	0.27874713	0.16284655	2.15256183	
CPZ	0.27874950	0.16284655	2.15258170	
FAM19A5	0.27872004	0.16285683	2.15233500	
LRRC3	0.27872962	0.16285683	2.15241525	
COL9A2	0.27869475	0.16289892	2.15212329	
ATXN7L1	-0.27867401	0.16292671	-2.15194965	
LGALS1	0.27864814	0.16297065	2.15173308	
EIF2AK1	-0.27863414	0.16297725	-2.15161588	
MNS1	-0.27861244	0.16300812	-2.15143414	
CR1	0.27854938	0.16316919	2.15090625	
LIPA	-0.27853463	0.16317722	-2.15078279	

SLC6A12	0.27852304	0.16317722	2.15068574
CLSTN1	-0.27851111	0.16317731	-2.15058593
MGRN1	0.27847873	0.16320441	2.15031484
FAM113B	0.27848433	0.16320441	2.15036175
ACPT	0.27843271	0.16331195	2.14992960
SPOPL	-0.27837444	0.16336889	-2.14944189
GRAMD1C	-0.27836711	0.16336889	-2.14938055
IPO9	-0.27839576	0.16336889	-2.14962031
PCDHA4	-0.27837769	0.16336889	-2.14946907
ZFP36L1	-0.27835018	0.16338481	-2.14923886
KIAA1704	-0.27829022	0.16350415	-2.14873702
DPEP3	0.27828764	0.16350415	2.14871541
FKRP	0.27827132	0.16350415	2.14857885
CACNA1H	0.27825297	0.16350415	2.14842521
ATPBD4	-0.27825575	0.16350415	-2.14844852
DOCK10	0.27821166	0.16359702	2.14807948
SOS2	-0.27818882	0.16363164	-2.14788835
RBBP4	-0.27816397	0.16367261	-2.14768041
EHD1	0.27814677	0.16368945	2.14753648
IPO8	-0.27813336	0.16369435	-2.14742425
KCNE1L	0.27808684	0.16373073	2.14703500
BEST2	0.27808626	0.16373073	2.14703017
TCTN2	-0.27810568	0.16373073	-2.14719266
C9orf41	-0.27806839	0.16374804	-2.14688064
MYST4	-0.27800412	0.16374804	-2.14634284
SLC9A11	-0.27800042	0.16374804	-2.14631184
RBPMS2	0.27801655	0.16374804	2.14644679
ATP6V1C1	-0.27799787	0.16374804	-2.14629056
FTSJD1	-0.27799874	0.16374804	-2.14629784
KIAA1524	-0.27800038	0.16374804	-2.14631150
APPBP2	-0.27792669	0.16378985	-2.14569494
GNLY	0.27792261	0.16378985	2.14566082
CST2	0.27796761	0.16378985	2.14603737

CST5	0.27790183	0.16378985	2.14548694	
TMEM119	0.27794396	0.16378985	2.14583942	
RNF141	-0.27791272	0.16378985	-2.14557811	
THEG	0.27791004	0.16378985	2.14555570	
CCT8	-0.27784261	0.16384102	-2.14499156	
BTN3A2	0.27783834	0.16384102	2.14495581	
KIAA1279	-0.27786407	0.16384102	-2.14517106	yes
CSSLCA-T	0.27784065	0.16384102	2.14497510	
C15orf33	-0.27779909	0.16392086	-2.14462743	
ALKBH3	-0.27778942	0.16392086	-2.14454654	
RSPH3	-0.27776885	0.16394852	-2.14437446	
SNORA68	0.27774924	0.16396298	2.14421044	
LOC389458	0.27772886	0.16396298	2.14403991	
ASCL5	0.27773499	0.16396298	2.14409126	
C4BPB	0.27768568	0.16406205	2.14367871	
UBR7	-0.27767127	0.16407027	-2.14355823	
CNKSR3	-0.27757219	0.16409745	-2.14272947	
MCF2L2	0.27758908	0.16409745	2.14287076	
KCNE4	0.27763505	0.16409745	2.14325528	
C14orf181	0.27758093	0.16409745	2.14280261	
FGFRL1	0.27762257	0.16409745	2.14315089	
RPS13	-0.27755658	0.16409745	-2.14259887	
SPTB	0.27756430	0.16409745	2.14266346	yes
RNF122	0.27756614	0.16409745	2.14267887	
TRIM56	0.27762376	0.16409745	2.14316079	
TOR1AIP2	-0.27748407	0.16425206	-2.14199246	
ADAM17	-0.27748935	0.16425206	-2.14203666	
WSCD1	0.27743471	0.16436145	2.14157970	
TBC1D29	0.27742591	0.16436145	2.14150605	
RBM35A	-0.27736247	0.16452481	-2.14097558	
MYO1D	-0.27733224	0.16458323	-2.14072273	
SMCR7	0.27724940	0.16480822	2.14003005	
FTL	-0.27722527	0.16480996	-2.13982832	

ZNF589	-0.27717826	0.16480996	-2.13943526	
APPL2	-0.27720831	0.16480996	-2.13968654	
CAND1	-0.27723360	0.16480996	-2.13989795	
PCDHGB3	0.27718404	0.16480996	2.13948356	
CACNA1G	0.27718730	0.16480996	2.13951084	
CDX1	0.27713791	0.16486893	2.13909787	yes
LOC388931	0.27713613	0.16486893	2.13908301	
SLC28A1	0.27708007	0.16500934	2.13861429	
EYA3	-0.27706780	0.16501097	-2.13851172	
POGK	-0.27705223	0.16502307	-2.13838159	
HLA-DPB2	0.27702737	0.16506462	2.13817378	
MGC34800	0.27699922	0.16508397	2.13793840	
CDC16	-0.27699778	0.16508397	-2.13792639	
UACA	-0.27698409	0.16509015	-2.13781191	
SLCO1B1	0.27690312	0.16512368	2.13713508	
C8orf31	0.27693781	0.16512368	2.13742509	
ASIP	0.27690310	0.16512368	2.13713491	
OPRK1	0.27692619	0.16512368	2.13732796	yes
SURF6	0.27692952	0.16512368	2.13735579	
CDC42BPB	-0.27692622	0.16512368	-2.13732817	
C1S	0.27688539	0.16514264	2.13698689	
ATAD5	-0.27686694	0.16516396	-2.13683266	
MOG	0.27681652	0.16528669	2.13641120	
LOC100132622	0.27672400	0.16537586	2.13563798	
SGK3	-0.27671943	0.16537586	-2.13559976	
FLJ45717	0.27675880	0.16537586	2.13592878	
FAM83E	0.27673333	0.16537586	2.13571595	
UBE2V1	-0.27671810	0.16537586	-2.13558867	
RSPRY1	-0.27676208	0.16537586	-2.13595622	
MCOLN1	0.27668891	0.16543133	2.13534470	
NANOS3	0.27667256	0.16544604	2.13520810	
KLHL8	-0.27661378	0.16559549	-2.13471687	
CETN2	-0.27655686	0.16565878	-2.13424120	

DLEU7	0.27653967	0.16565878	2.13409755	
MYO5B	-0.27654409	0.16565878	-2.13413444	
FRMD4A	0.27653534	0.16565878	2.13406138	
CARD9	0.27655669	0.16565878	2.13423977	
TCFL5	-0.27648043	0.16575892	-2.13360254	
OSBPL8	-0.27649102	0.16575892	-2.13369103	
MFSD3	0.27644671	0.16575980	2.13332080	
FLJ32682	0.27645261	0.16575980	2.13337012	
FLJ20464	0.27644508	0.16575980	2.13330713	
KCNK12	0.27637413	0.16588107	2.13271433	
RNF2	-0.27637186	0.16588107	-2.13269542	yes
AKT1S1	0.27638161	0.16588107	2.13277690	
ZNF238	-0.27630514	0.16601894	-2.13213797	
INS-IGF2	0.27631239	0.16601894	2.13219859	
DIO1	-0.27628163	0.16601943	-2.13194156	
BXDC1P	-0.27629261	0.16601943	-2.13203332	
ARV1	-0.27626065	0.16604904	-2.13176626	
CTLA4	0.27624142	0.16607306	2.13160564	
SNORD48	0.27621009	0.16610602	2.13134392	
TBC1D3B	0.27620772	0.16610602	2.13132411	
BCAS3	-0.27619429	0.16611161	-2.13121197	
TRIM16	-0.27615711	0.16619280	-2.13090137	
ALOX12	-0.27608066	0.16635241	-2.13026274	
GCM1	0.27607199	0.16635241	2.13019036	
NCR1	0.27607835	0.16635241	2.13024344	
LRP4	-0.27605146	0.16636600	-2.13001889	
EPX	0.27604440	0.16636600	2.12995993	
TCP1	-0.27602526	0.16636852	-2.12980006	
MAPKAPK2	0.27602030	0.16636852	2.12975863	
AP3S2	-0.27589076	0.16646064	-2.12867670	
FDX1L	0.27595758	0.16646064	2.12923480	
PTF1A	0.27587221	0.16646064	2.12852184	
UPF2	-0.27595005	0.16646064	-2.12917185	

C16orf81	0.27595703	0.16646064	2.12923016	
KCNF1	0.27586417	0.16646064	2.12845466	
KRT13	-0.27593342	0.16646064	-2.12903299	
MYOD1	0.27586332	0.16646064	2.12844753	
DNM1P33	0.27587227	0.16646064	2.12852234	
BOLL	0.27587477	0.16646064	2.12854321	
CTDP1	0.27587073	0.16646064	2.12850941	
ZSCAN10	0.27584501	0.16648191	2.12829466	
CCDC85A	0.27582245	0.16650376	2.12810623	
SPATA3	0.27581158	0.16650376	2.12801550	
SHD	0.27580327	0.16650376	2.12794611	
C15orf44	-0.27574514	0.16665193	-2.12746071	
PCDH8	0.27571289	0.16671771	2.12719138	
GJB4	-0.27566341	0.16678521	-2.12677826	
HNRNPK	-0.27565687	0.16678521	-2.12672359	
GPBP1	-0.27566498	0.16678521	-2.12679132	
SERPINB1	-0.27561181	0.16689187	-2.12634740	
KIAA1614	0.27552676	0.16712630	2.12563730	
KBTBD4	-0.27550108	0.16717121	-2.12542297	
FLJ10357	0.27547789	0.16720819	2.12522938	
MGC33407	0.27545265	0.16725177	2.12501860	
PGRMC1	-0.27542929	0.16728931	-2.12482361	
HSPB8	-0.27533687	0.16747371	-2.12405215	
ADAM11	0.27533680	0.16747371	2.12405155	
TMEM184C	-0.27534953	0.16747371	-2.12415782	
SLC19A2	-0.27528838	0.16755436	-2.12364743	
DSCAM	0.27528918	0.16755436	2.12365408	
KANK3	0.27525577	0.16758449	2.12337521	
HAS1	0.27525703	0.16758449	2.12338577	yes
ZNF341	0.27522778	0.16763694	2.12314161	
HMP19	0.27514291	0.16787159	2.12243329	
POGZ	-0.27511747	0.16791595	-2.12222098	
ZCCHC3	0.27509846	0.16793973	2.12206228	

TUSC4	0.27507653	0.16794066	2.12187931	
FPR3	0.27507499	0.16794066	2.12186641	
TRPM8	0.27506072	0.16794924	2.12174738	
SLC39A14	0.27500636	0.16797498	2.12129373	
C6orf59	0.27500681	0.16797498	2.12129746	
HM13	0.27501466	0.16797498	2.12136298	
FCRLA	0.27503044	0.16797498	2.12149466	
LIN7C	-0.27499425	0.16797669	-2.12119266	
ACTL6A	-0.27490969	0.16821070	-2.12048707	
TMEM79	-0.27488883	0.16824048	-2.12031303	
hCG_1983896	0.27484152	0.16835516	2.11991831	
SMEK1	-0.27479263	0.16847499	-2.11951037	
C4BPA	0.27477623	0.16849050	2.11937353	
KIF5B	-0.27472353	0.16862264	-2.11893389	
SETBP1	0.27469902	0.16866423	2.11872942	
PCP2	0.27468125	0.16868417	2.11858115	yes
NPBWR2	0.27466377	0.16868902	2.11843538	
MACC1	-0.27465661	0.16868902	-2.11837560	
LOC643015	-0.27461078	0.16879918	-2.11799333	
SIRPB2	0.27458651	0.16884006	2.11779087	
SLC38A4	-0.27454464	0.16893759	-2.11744157	
PAICS	-0.27451486	0.16895904	-2.11719317	
MAGOH	-0.27451508	0.16895904	-2.11719506	
C12orf67	0.27449270	0.16899317	2.11700833	
ERCC4	-0.27443483	0.16910507	-2.11652568	
SRPK2	-0.27444036	0.16910507	-2.11657181	
UBXN2A	-0.27432704	0.16937679	-2.11562675	
PTTG1IP	-0.27431585	0.16937679	-2.11553337	
FAM49A	0.27432201	0.16937679	2.11558478	
ENOSF1	-0.27430332	0.16937993	-2.11542894	
PKD1L2	0.27425245	0.16946951	2.11500470	
CCDC6	-0.27426270	0.16946951	-2.11509017	
NAGS	0.27422358	0.16952540	2.11476396	

MAN2B1	0.27415322	0.16967796	2.11417725	
C22orf26	0.27415873	0.16967796	2.11422321	
SNORD116-11	0.27396422	0.16973351	2.11260142	
KIF3A	-0.27386462	0.16973351	-2.11177111	
CLDN19	0.27398903	0.16973351	2.11280825	
DUSP18	-0.27403240	0.16973351	-2.11316980	
CYP17A1	0.27398970	0.16973351	2.11281382	
DBH	0.27397471	0.16973351	2.11268884	
DDIT3	0.27393225	0.16973351	2.11233490	
FTHL2	-0.27394312	0.16973351	-2.11242549	
KSR2	0.27399176	0.16973351	2.11283104	
HSPA6	0.27386007	0.16973351	2.11173318	
GPIHBP1	0.27411214	0.16973351	2.11383469	
IFNE	-0.27385965	0.16973351	-2.11172962	
TUBB2B	0.27407449	0.16973351	2.11352078	yes
LAMC2	-0.27387136	0.16973351	-2.11182728	
GMPR2	-0.27409885	0.16973351	-2.11372389	
GIMAP4	0.27387066	0.16973351	2.11182142	
C7orf36	-0.27404423	0.16973351	-2.11326843	
ANAPC1	-0.27389978	0.16973351	-2.11206418	
SLC6A11	0.27407852	0.16973351	2.11355438	
SNAPC2	0.27390415	0.16973351	2.11210065	yes
TAF15	-0.27386644	0.16973351	-2.11178622	
TPST2	0.27391236	0.16973351	2.11216907	
C12orf65	0.27410273	0.16973351	2.11375621	
MELK	-0.27394895	0.16973351	-2.11247412	
IPO7	-0.27382510	0.16977084	-2.11144162	
FOXF2	0.27382715	0.16977084	2.11145873	
HSPC159	-0.27379385	0.16983461	-2.11118112	
OPRD1	0.27377270	0.16986580	2.11100483	
CTR9	-0.27375499	0.16988590	-2.11085721	
OR111	0.27369785	0.16995917	2.11038096	
RASSF6	-0.27369987	0.16995917	-2.11039777	

ALPPL2	0.27370849	0.16995917	2.11046962	
HNRNPM	-0.27364151	0.17009779	-2.10991133	
ZNF624	-0.27361911	0.17009779	-2.10972471	
PRKRA	-0.27360903	0.17009779	-2.10964070	
KLF4	-0.27362945	0.17009779	-2.10981087	
RP11-544M22.4	-0.27359650	0.17010124	-2.10953620	
C10orf46	-0.27353704	0.17025631	-2.10904067	yes
C9orf96	0.27351846	0.17027928	2.10888589	
NGF	0.27348433	0.17035257	2.10860144	
CXorf39	-0.27341432	0.17052844	-2.10801806	yes
HEATR2	-0.27340704	0.17052844	-2.10795736	
BST2	0.27338447	0.17056439	2.10776927	
LCA5	-0.27333624	0.17068344	-2.10736738	
GAL	0.27329311	0.17078600	2.10700807	
PTPRO	0.27325307	0.17087863	2.10667443	
ASAP3	0.27321518	0.17096431	2.10635877	
TRDC	0.27316917	0.17107637	2.10597544	
MMADHC	-0.27315141	0.17109681	-2.10582751	
OR4D2	0.27312050	0.17115996	2.10556995	
MDK	0.27306127	0.17131503	2.10507657	
SCAF1	0.27304094	0.17134387	2.10490721	
BAZ2B	-0.27299232	0.17146463	-2.10450218	
LOC100133407	0.27297810	0.17147363	2.10438371	
PSIP1	-0.27293400	0.17157973	-2.10401645	
TSPAN15	-0.27291839	0.17158820	-2.10388638	
ENTPD8	0.27290851	0.17158820	2.10380408	
DBC1	0.27288162	0.17163840	2.10358016	
PCMT1	-0.27286210	0.17166469	-2.10341751	
TMEM87A	-0.27283982	0.17167758	-2.10323202	
HLA-DQB2	0.27282382	0.17167758	2.10309871	
C19orf24	0.27282415	0.17167758	2.10310149	
USP34	-0.27276779	0.17182263	-2.10263207	
NARG2	-0.27274093	0.17187282	-2.10240841	

LCE5A	0.27272622	0.17188348	2.10228594	
LOC100132755	0.27266670	0.17189912	2.10179020	yes
USP21	-0.27269690	0.17189912	-2.10204172	
ARSB	0.27270726	0.17189912	2.10212804	
PSMD12	-0.27267694	0.17189912	-2.10187554	
TRIM11	0.27266428	0.17189912	2.10177012	
IL17B	0.27264020	0.17194035	2.10156954	
HBE1	0.27260343	0.17202287	2.10126334	
CHRD12	0.27258226	0.17205462	2.10108709	
GSTT1	-0.27254547	0.17210008	-2.10078074	
PNPLA8	-0.27254951	0.17210008	-2.10081442	
IMPACT	-0.27249812	0.17221712	-2.10038654	
PP2672	0.27247395	0.17225871	2.10018526	
CHM	-0.27239096	0.17228307	-2.09949436	
LRRC58	-0.27239512	0.17228307	-2.09952899	
CCR4	0.27234637	0.17228307	2.09912308	
LEPROTL1	-0.27238241	0.17228307	-2.09942318	
OVCH2	0.27240113	0.17228307	2.09957903	
MFAP3	-0.27243511	0.17228307	-2.09986192	
PLTP	0.27234107	0.17228307	2.09907897	
ATPGD1	0.27235596	0.17228307	2.09920294	
DLK2	0.27235938	0.17228307	2.09923141	yes
DOHH	0.27236639	0.17228307	2.09928979	
CD40LG	0.27245053	0.17228307	2.09999025	
SP8	0.27230859	0.17228661	2.09880861	
LOC285453	-0.27229444	0.17228661	-2.09869080	
B4GALNT4	0.27231433	0.17228661	2.09885639	
SH3PXD2A	-0.27230543	0.17228661	-2.09878229	
MEX3B	0.27228172	0.17229099	2.09858488	
IMPA1	-0.27223201	0.17237878	-2.09817113	yes
C12orf5	-0.27223470	0.17237878	-2.09819345	
CCR6	0.27209531	0.17241685	2.09703323	
XRCC6	-0.27211955	0.17241685	-2.09723499	

TRIML1	0.27212131	0.17241685	2.09724964	
PAEP	0.27209621	0.17241685	2.09704073	
MESDC1	0.27212135	0.17241685	2.09724995	
BLK	0.27218072	0.17241685	2.09774416	
ST5	-0.27218812	0.17241685	-2.09780577	
hCG_1640171	-0.27217007	0.17241685	-2.09765549	
ZNF154	0.27213288	0.17241685	2.09734595	
MYLK2	0.27209889	0.17241685	2.09706303	
FGF19	0.27218886	0.17241685	2.09781194	
LOC100132750	0.27207745	0.17243803	2.09688464	
ELOVL3	0.27204723	0.17249950	2.09663312	
MAG	0.27202229	0.17254382	2.09642547	
PPP6C	-0.27197683	0.17265501	-2.09604719	
OR4N4	0.27193813	0.17268043	2.09572508	
PRPSAP1	-0.27195024	0.17268043	-2.09582591	
POLR1C	-0.27193500	0.17268043	-2.09569904	yes
TSSK4	0.27191185	0.17271892	2.09550642	
METT5D1	-0.27185621	0.17278947	-2.09504335	
VSX1	0.27185804	0.17278947	2.09505865	
C8orf82	0.27186532	0.17278947	2.09511915	yes
WDR45	0.27180462	0.17284132	2.09461408	
HSF5	0.27178701	0.17284132	2.09446757	
ZNF513	0.27178365	0.17284132	2.09443959	
GPR183	0.27181340	0.17284132	2.09468713	
SPG11	-0.27181716	0.17284132	-2.09471846	
ACAD9	-0.27173366	0.17293052	-2.09402366	
ZMYM3	-0.27173398	0.17293052	-2.09402628	
YME1L1	-0.27172014	0.17293770	-2.09391114	
SNORA38B	0.27169709	0.17293903	2.09371937	
TMEM8	0.27170758	0.17293903	2.09380667	
HMGXB4	-0.27166851	0.17295844	-2.09348157	
COX6A2	0.27167747	0.17295844	2.09355613	
IKIP	0.27165308	0.17297185	2.09335323	

ABCA12	-0.27160935	0.17300383	-2.09298940	
WNK4	0.27161105	0.17300383	2.09300355	
PRPF18	-0.27161223	0.17300383	-2.09301333	
SCGB3A2	0.27158361	0.17301404	2.09277526	
FBXL15	0.27158590	0.17301404	2.09279430	
SLC39A7	0.27153813	0.17312506	2.09239688	
BCLAF1	-0.27152700	0.17312506	-2.09230427	
EID2	0.27147435	0.17315199	2.09186626	
ZNF507	-0.27145228	0.17315199	-2.09168274	yes
MEIS3	0.27146588	0.17315199	2.09179585	
PSMD11	-0.27145459	0.17315199	-2.09170193	
ZNF84	-0.27145957	0.17315199	-2.09174337	
WISP2	0.27145098	0.17315199	2.09167189	
C5orf24	-0.27142176	0.17321054	-2.09142881	
FBXL6	0.27136705	0.17335238	2.09097374	
HOXA13	0.27133731	0.17338293	2.09072637	
TMEM19	-0.27133513	0.17338293	-2.09070822	
INTS5	0.27128122	0.17352225	2.09025986	
C7orf27	0.27124042	0.17361287	2.08992053	
SRGAP3	-0.27123095	0.17361287	-2.08984175	
DHX32	-0.27120192	0.17365446	-2.08960027	yes
TTC31	0.27118440	0.17365446	2.08945460	
NAT13	-0.27118756	0.17365446	-2.08948091	
GCOM1	-0.27115015	0.17369274	-2.08916978	
DPYSL2	0.27115956	0.17369274	2.08924802	
CHUK	-0.27112023	0.17375375	-2.08892098	
ZCCHC4	-0.27108304	0.17379986	-2.08861172	
OR52B6	0.27103967	0.17379986	2.08825101	
SYT10	0.27106918	0.17379986	2.08849639	
HES5	0.27103855	0.17379986	2.08824175	
MSX2	0.27105721	0.17379986	2.08839688	
STC2	0.27107265	0.17379986	2.08852531	
SLC7A13	0.27100705	0.17386611	2.08797981	

TNFRSF18	0.27098883	0.17388893	2.08782825	yes
WNT3A	0.27097123	0.17390967	2.08768198	
DNPEP	0.27095662	0.17391151	2.08756046	
CALR	0.27094817	0.17391151	2.08749016	
RETN	0.27092134	0.17392567	2.08726713	
SC4MOL	-0.27092773	0.17392567	-2.08732020	
RCN2	-0.27088089	0.17396218	-2.08693077	
SAP30	0.27088111	0.17396218	2.08693260	
CD86	0.27087646	0.17396218	2.08689394	
ZFPM1	0.27082301	0.17402679	2.08644954	
SLC25A37	0.27083377	0.17402679	2.08653901	
SCARNA11	0.27083836	0.17402679	2.08657716	
SIGLEC14	0.27078223	0.17412354	2.08611054	
C8B	0.27071224	0.17431608	2.08552871	
RAB3IL1	0.27068258	0.17437650	2.08528212	
PNMA2	0.27066062	0.17437899	2.08509961	
TPSD1	0.27065935	0.17437899	2.08508905	
NFKBIA	0.27060325	0.17443633	2.08462265	
NPPB	0.27059680	0.17443633	2.08456909	yes
DNAJC27	-0.27058574	0.17443633	-2.08447713	
TMED9	0.27062211	0.17443633	2.08477950	
SFRS3	-0.27061212	0.17443633	-2.08469638	
SPIN1	-0.27054807	0.17452307	-2.08416406	
ECSIT	0.27052593	0.17455891	2.08398000	
ERLIN2	-0.27049517	0.17462302	-2.08372438	
KIR3DL1	0.27047080	0.17466621	2.08352179	
MAN1A2	-0.27041838	0.17473272	-2.08308609	
TRAPPC6B	-0.27041690	0.17473272	-2.08307380	
MRPL55	0.27042711	0.17473272	2.08315869	
NDUFA6	-0.27036393	0.17486633	-2.08263359	
CUL1	-0.27035379	0.17486633	-2.08254935	
PLAGL2	-0.27033459	0.17489258	-2.08238980	
CDSN	0.27031948	0.17490201	2.08226421	

CLEC4GP1	0.27029811	0.17490201	2.08208661	
PPP1R3F	0.27030721	0.17490201	2.08216220	
GPR62	0.27022336	0.17494659	2.08146545	
HNRNPF	-0.27025864	0.17494659	-2.08175864	yes
PTPRB	0.27025848	0.17494659	2.08175728	
SCARNA12	0.27021736	0.17494659	2.08141562	
WNT7A	0.27022896	0.17494659	2.08151201	
ProSAPiP1	0.27023007	0.17494659	2.08152126	yes
CYP4X1	0.27013602	0.17517717	2.08073973	
FOXG1	0.27011442	0.17521140	2.08056025	
ANKLE1	0.27009696	0.17523204	2.08041516	
RNF139	-0.26991925	0.17539655	-2.07893874	
HOXD13	0.26995937	0.17539655	2.07927205	
RNF148	0.26995730	0.17539655	2.07925487	
RAB4B	0.26991282	0.17539655	2.07888536	
AGK	-0.27000391	0.17539655	-2.07964214	
IFT122	-0.26994877	0.17539655	-2.07918404	
ZNF398	-0.26997356	0.17539655	-2.07938993	yes
SUDS3	-0.26993654	0.17539655	-2.07908242	
FAM59A	-0.26991555	0.17539655	-2.07890803	
FBXL17	-0.26996711	0.17539655	-2.07933640	
MKKS	-0.26992148	0.17539655	-2.07895734	
KIAA0101	-0.26997695	0.17539655	-2.07941816	
RPAP2	-0.26988135	0.17546335	-2.07862396	
SUZ12	-0.26982931	0.17559790	-2.07819169	
SV2C	0.26973974	0.17574588	2.07744768	
MYPOP	0.26974389	0.17574588	2.07748212	
ATP2B2	0.26975741	0.17574588	2.07759440	
PARP9	0.26976514	0.17574588	2.07765863	
IFNA1	0.26971622	0.17578662	2.07725229	
C3orf48	0.26968908	0.17583929	2.07702690	
CAMK2B	0.26967712	0.17584196	2.07692751	
RASGRP3	0.26964821	0.17590046	2.07668747	

C11orf74	-0.26962944	0.17592560	-2.07653151	
PITX3	0.26959345	0.17600750	2.07623265	
EIF1	-0.26956975	0.17604086	-2.07603578	
OXT	0.26956104	0.17604086	2.07596346	
BPGM	-0.26953561	0.17608797	-2.07575229	
LCA5L	-0.26947545	0.17617959	-2.07525268	
NIT2	-0.26947576	0.17617959	-2.07525528	
CXorf1	0.26947441	0.17617959	2.07524409	
FAM113A	0.26945226	0.17621593	2.07506014	
SNX24	-0.26940482	0.17622550	-2.07466618	yes
RSF1	-0.26941674	0.17622550	-2.07476517	
PAPOLG	-0.26940536	0.17622550	-2.07467067	
FIZ1	0.26941772	0.17622550	2.07477334	
FLRT1	0.26930905	0.17624577	2.07387103	
SF3B14	-0.26931879	0.17624577	-2.07395187	
CRLS1	-0.26933379	0.17624577	-2.07407645	
PTGDS	0.26927736	0.17624577	2.07360788	
PRDM13	0.26930188	0.17624577	2.07381146	
SLC5A5	0.26928401	0.17624577	2.07366307	
OR2C3	0.26931555	0.17624577	2.07392497	
KIAA2013	0.26936053	0.17624577	2.07429842	
SLC16A5	-0.26932629	0.17624577	-2.07401416	
CACNA2D2	0.26931315	0.17624577	2.07390509	
SLC38A5	0.26927634	0.17624577	2.07359939	
MLXIPL	0.26924175	0.17632324	2.07331222	
AQR	-0.26922999	0.17632540	-2.07321456	
FOXN1	-0.26921724	0.17633080	-2.07310874	
CMPK2	0.26910886	0.17637072	2.07220897	
METTL7B	0.26907521	0.17637072	2.07192962	yes
PDS5A	-0.26904495	0.17637072	-2.07167850	
SNORD60	0.26918607	0.17637072	2.07284998	
SNORD36C	0.26903875	0.17637072	2.07162703	
ZFR	-0.26909690	0.17637072	-2.07210972	

ZNF287	-0.26914265	0.17637072	-2.07248948	
HCN2	0.26908299	0.17637072	2.07199428	
CXorf56	-0.26915089	0.17637072	-2.07255795	
SLC26A10	0.26906724	0.17637072	2.07186345	yes
LOC651963	0.26908479	0.17637072	2.07200920	
ALMS1	-0.26905317	0.17637072	-2.07174673	
MED10	-0.26914182	0.17637072	-2.07248264	
USP14	-0.26911339	0.17637072	-2.07224657	
C19orf20	0.26909926	0.17637072	2.07212928	
OR52M1	0.26899956	0.17644874	2.07130172	
C20orf132	-0.26895046	0.17644874	-2.07089416	
C2orf67	-0.26897708	0.17644874	-2.07111513	
KIAA2026	-0.26894867	0.17644874	-2.07087924	
NSL1	-0.26897005	0.17644874	-2.07105677	
SNX4	-0.26898552	0.17644874	-2.07118518	
SC65	0.26892006	0.17647009	2.07064181	
C21orf125	0.26892898	0.17647009	2.07071582	
COG7	-0.26890730	0.17647568	-2.07053593	
POMC	0.26889555	0.17647797	2.07043835	
MYOZ3	0.26887304	0.17651575	2.07025153	
KIAA1161	-0.26886063	0.17652021	-2.07014852	
MST075	0.26876717	0.17661471	2.06937290	
A3GALT2	0.26874010	0.17661471	2.06914824	
KLF17	0.26857803	0.17661471	2.06780338	
KBTBD5	0.26864330	0.17661471	2.06834497	
SIRPA	0.26873276	0.17661471	2.06908735	
CYBB	0.26864777	0.17661471	2.06838202	
RAB21	-0.26852541	0.17661471	-2.06736677	
CLASP2	-0.26853918	0.17661471	-2.06748101	
GPR18	0.26870669	0.17661471	2.06887102	
ANK3	-0.26852628	0.17661471	-2.06737396	yes
CCDC106	0.26853881	0.17661471	2.06747790	
HOXD3	0.26856803	0.17661471	2.06772040	

HES3	0.26870862	0.17661471	2.06888696	yes
PAX2	0.26879584	0.17661471	2.06961079	
CDON	-0.26852308	0.17661471	-2.06734743	
EXOSC3	-0.26863919	0.17661471	-2.06831085	
MRPL37	-0.26860310	0.17661471	-2.06801136	
PDHB	-0.26876330	0.17661471	-2.06934081	
CFP	0.26870091	0.17661471	2.06882299	
MARCH1	0.26858418	0.17661471	2.06785439	
WDR60	-0.26868774	0.17661471	-2.06871369	
NAGK	0.26855288	0.17661471	2.06759469	
PTPN3	-0.26856143	0.17661471	-2.06766562	
SNORA2A	0.26859207	0.17661471	2.06791987	
GEMIN6	-0.26854923	0.17661471	-2.06756439	
DHDDS	0.26860464	0.17661471	2.06802412	
TSEN2	-0.26860355	0.17661471	-2.06801509	
C6orf142	-0.26854659	0.17661471	-2.06754248	
PPP1R14D	0.26850546	0.17663654	2.06720120	
TUSC3	-0.26848765	0.17665897	-2.06705347	
CHRNA10	0.26846164	0.17667220	2.06683764	
FGF18	0.26846331	0.17667220	2.06685150	
RPL35A	-0.26844234	0.17669957	-2.06667753	
ATE1	-0.26833738	0.17693709	-2.06580671	
ATP5A1	-0.26835304	0.17693709	-2.06593667	
ZNF770	-0.26834447	0.17693709	-2.06586557	
SPTY2D1	-0.26830815	0.17696101	-2.06556423	
FAM168A	0.26831146	0.17696101	2.06559172	
BTLA	0.26829354	0.17697296	2.06544302	
TMEM17	-0.26825504	0.17700578	-2.06512369	
GBP2	0.26822449	0.17700578	2.06487029	
GNB3	0.26825296	0.17700578	2.06510639	
STEAP3	-0.26824953	0.17700578	-2.06507795	
WDR33	-0.26821769	0.17700578	-2.06481384	yes
CCKBR	0.26823956	0.17700578	2.06499531	

CDH5	0.26807246	0.17700885	2.06360921	
APBB3	0.26811429	0.17700885	2.06395621	
MMP24	0.26808944	0.17700885	2.06375010	
NCBP2	-0.26808476	0.17700885	-2.06371123	
SLC39A6	-0.26808047	0.17700885	-2.06367569	
GNG3	0.26818483	0.17700885	2.06454130	
ENHO	0.26815471	0.17700885	2.06429142	
MYH4	0.26806323	0.17700885	2.06353269	
NDUFA2	-0.26808084	0.17700885	-2.06367875	
GPR84	0.26816449	0.17700885	2.06437254	
GNG2	0.26810554	0.17700885	2.06388361	
PBK	-0.26818729	0.17700885	-2.06456168	
PCNP	-0.26811978	0.17700885	-2.06400176	
C13orf1	-0.26807488	0.17700885	-2.06362932	
MTCP1	-0.26798199	0.17721696	-2.06285896	
MYO1A	0.26797829	0.17721696	2.06282821	
NDUFA5	-0.26796487	0.17722019	-2.06271690	
STK24	-0.26795541	0.17722019	-2.06263848	
SURF4	0.26794374	0.17722259	2.06254166	
FCRL2	0.26790652	0.17730937	2.06223302	
CLDN5	0.26786233	0.17738304	2.06186663	
CAB39L	-0.26787206	0.17738304	-2.06194726	
ACTRT2	0.26774177	0.17749236	2.06086687	yes
KRTAP10-11	0.26775819	0.17749236	2.06100302	
NINJ2	0.26781301	0.17749236	2.06145763	
PSMD4	-0.26777429	0.17749236	-2.06113655	
SNORA14B	0.26776963	0.17749236	2.06109791	
TCEB1	-0.26774900	0.17749236	-2.06092682	
PDCD1LG2	0.26780382	0.17749236	2.06138140	
SIGLEC6	0.26779166	0.17749236	2.06128059	
MBTPS2	-0.26769509	0.17761054	-2.06047989	
NUDT1	0.26767111	0.17761759	2.06028103	
SLC24A1	-0.26767500	0.17761759	-2.06031332	

SLC44A2	-0.26763529	0.17769994	-2.05998402	
ZNF248	-0.26761946	0.17771616	-2.05985280	
LSM14A	-0.26759392	0.17773596	-2.05964105	
KCNIP3	0.26759163	0.17773596	2.05962209	
IFITM2	0.26756437	0.17774084	2.05939605	
LMTK3	0.26756410	0.17774084	2.05939384	
ALDH3A1	-0.26755741	0.17774084	-2.05933835	
SPAG4L	0.26753074	0.17779297	2.05911726	
PSG3	0.26749708	0.17786822	2.05883828	
OR1N2	0.26738020	0.17790011	2.05786939	
RNF151	0.26740633	0.17790011	2.05808596	
CCDC66	-0.26740095	0.17790011	-2.05804140	
N6AMT1	-0.26746803	0.17790011	-2.05859740	
LOC440337	0.26735664	0.17790011	2.05767406	
NINJ1	0.26746025	0.17790011	2.05853295	
PAPPA	0.26736600	0.17790011	2.05775168	
PPP2R3A	-0.26739043	0.17790011	-2.05795421	
PSMA2	-0.26743593	0.17790011	-2.05833129	
CBLN3	0.26735842	0.17790011	2.05768884	
CBR1	-0.26742601	0.17790011	-2.05824906	
CDYL	0.26742135	0.17790011	2.05821044	
SR140	-0.26734183	0.17791306	-2.05755134	
EMX1	0.26730357	0.17793884	2.05723421	
NFKBIE	0.26730138	0.17793884	2.05721607	
ADAMTSL1	0.26730223	0.17793884	2.05722307	yes
ATG10	-0.26720708	0.17818198	-2.05643449	
MED20	-0.26720617	0.17818198	-2.05642697	
ZBTB7C	-0.26718893	0.17819450	-2.05628409	
C21orf7	-0.26718063	0.17819450	-2.05621529	
LRRC67	-0.26715429	0.17820970	-2.05599697	
IQCA1	-0.26716482	0.17820970	-2.05608425	
MSX2P1	0.26710531	0.17826389	2.05559108	
CIDEA	0.26712065	0.17826389	2.05571822	

UTX	-0.26711181	0.17826389	-2.05564498	yes
FGD6	-0.26708456	0.17829663	-2.05541911	
STX6	-0.26706219	0.17833472	-2.05523376	
KIAA1407	-0.26704677	0.17834981	-2.05510597	
RARS	-0.26700911	0.17841663	-2.05479386	
H6PD	0.26700488	0.17841663	2.05475883	
YAP1	-0.26692735	0.17844905	-2.05411642	
OSR2	0.26694126	0.17844905	2.05423169	
LAMP3	0.26693428	0.17844905	2.05417383	
ASGR1	0.26691178	0.17844905	2.05398738	
PLXNB3	0.26690825	0.17844905	2.05395813	yes
NKX3-2	0.26692152	0.17844905	2.05406814	
CAMK2D	-0.26697017	0.17844905	-2.05447121	
CAPNS2	-0.26695855	0.17844905	-2.05437493	
SLC27A6	0.26688867	0.17847796	2.05379595	
TTC9B	0.26674063	0.17869577	2.05256944	
ZNF281	0.26674865	0.17869577	2.05263591	
BBS2	-0.26672998	0.17869577	-2.05248121	
PRODH2	0.26673707	0.17869577	2.05253992	
LOC728115	-0.26675241	0.17869577	-2.05266704	
TULP1	0.26676466	0.17869577	2.05276850	
UBE2G1	-0.26679661	0.17869577	-2.05303317	
VWF	0.26672541	0.17869577	2.05244331	
ISX	0.26679570	0.17869577	2.05302569	
ZNF280C	-0.26671154	0.17870582	-2.05232846	
ADIG	0.26666341	0.17874856	2.05192976	
DLX2	0.26667804	0.17874856	2.05205091	yes
WNT16	0.26664828	0.17874856	2.05180439	
FBXO34	-0.26667506	0.17874856	-2.05202627	
CEP135	-0.26664451	0.17874856	-2.05177320	
TBC1D24	0.26662565	0.17875396	2.05161689	
DNAJC6	-0.26662124	0.17875396	-2.05158041	
RBM17	-0.26659898	0.17879191	-2.05139600	

POLA1	-0.26655505	0.17890175	-2.05103216	
FLJ40448	0.26651817	0.17897384	2.05072661	
KIAA1715	-0.26651170	0.17897384	-2.05067305	
C6orf72	-0.26648443	0.17898603	-2.05044716	
GPI	-0.26647558	0.17898603	-2.05037393	
SPAG1	-0.26649435	0.17898603	-2.05052933	yes
C1orf141	-0.26638383	0.17925485	-2.04961402	
GZMK	0.26635219	0.17932408	2.04935197	
CIT	-0.26631682	0.17933386	-2.04905907	
CTHRC1	0.26632162	0.17933386	2.04909879	
C14orf133	-0.26633337	0.17933386	-2.04919607	
EIF2S1	-0.26626227	0.17937159	-2.04860726	
ELA2	0.26626919	0.17937159	2.04866463	
FLT1	0.26628643	0.17937159	2.04880739	
PIK3C2A	-0.26626740	0.17937159	-2.04864978	
C14orf33	0.26624671	0.17938741	2.04847842	
GPR97	0.26617381	0.17952122	2.04787480	
YJEFN3	0.26616829	0.17952122	2.04782911	
KLHL12	-0.26619279	0.17952122	-2.04803194	
TMPRSS5	0.26616328	0.17952122	2.04778762	
AKAP13	-0.26613071	0.17959368	-2.04751787	
DAB2	0.26611120	0.17961984	2.04735640	
DENND5A	0.26608796	0.17961984	2.04716390	
C22orf31	0.26607969	0.17961984	2.04709549	
SERPINB8	-0.26610103	0.17961984	-2.04727217	
FGFR4	0.26604704	0.17967357	2.04682514	
HDAC7	0.26604198	0.17967357	2.04678322	
SOD3	0.26602835	0.17968304	2.04667041	
KRT24	-0.26601653	0.17968650	-2.04657257	
BTD	-0.26595386	0.17985921	-2.04605372	
C8orf77	0.26590719	0.17994288	2.04566729	
AEN	0.26591222	0.17994288	2.04570896	
SOX21	-0.26584543	0.17999773	-2.04515607	

EXOSC7	-0.26586837	0.17999773	-2.04534597	
C3orf63	-0.26584398	0.17999773	-2.04514406	
HOXC8	0.26583686	0.17999773	2.04508513	
MPP5	-0.26585907	0.17999773	-2.04526900	
RFPL2	0.26574128	0.18002938	2.04429393	
OGFR	0.26578551	0.18002938	2.04466007	
SLC26A9	-0.26576530	0.18002938	-2.04449275	
ADRA2C	0.26575714	0.18002938	2.04442520	yes
DOCK9	-0.26575814	0.18002938	-2.04443350	
FLJ41423	0.26579751	0.18002938	2.04475941	
PMS2L5	-0.26577819	0.18002938	-2.04459943	
SP3	-0.26574831	0.18002938	-2.04435208	
SIX6	0.26569991	0.18011964	2.04395154	
ANAPC7	-0.26569268	0.18011964	-2.04389164	
FBXO36	-0.26566113	0.18015591	-2.04363053	
GPR173	0.26566029	0.18015591	2.04362359	
SLC38A10	0.26559234	0.18016408	2.04306115	
USP24	-0.26561516	0.18016408	-2.04325002	
FUT7	0.26559850	0.18016408	2.04311216	
SIGLEC16	0.26559677	0.18016408	2.04309784	
CLDN22	0.26564536	0.18016408	2.04349998	
YWHAB	-0.26559420	0.18016408	-2.04307658	
C16orf70	-0.26558265	0.18016408	-2.04298097	
HAT1	-0.26555548	0.18021884	-2.04275609	
LOC100130696	-0.26552157	0.18029605	-2.04247552	
DAO	0.26536222	0.18036258	2.04115681	
GPR20	0.26536357	0.18036258	2.04116801	
GPR21	-0.26542119	0.18036258	-2.04164480	
PRR17	0.26536408	0.18036258	2.04117220	
GTF3C1	-0.26537002	0.18036258	-2.04122139	
SOCS7	0.26546453	0.18036258	2.04200345	
PRDM9	0.26540567	0.18036258	2.04151639	
RAB25	-0.26539258	0.18036258	-2.04140809	

PTH2R	0.26546183	0.18036258	2.04198109	
C6orf211	-0.26538252	0.18036258	-2.04132482	
IQGAP1	-0.26546798	0.18036258	-2.04203203	
SMC3	-0.26536517	0.18036258	-2.04118125	
SEP7	-0.26545593	0.18036258	-2.04193232	
C13orf16	0.26531213	0.18047568	2.04074234	
GFER	0.26530139	0.18047568	2.04065351	
SNHG10	0.26529616	0.18047568	2.04061019	
KIR2DS4	0.26528431	0.18047949	2.04051214	
RNASE2	0.26526893	0.18049505	2.04038495	
TSPAN5	-0.26503986	0.18052552	-2.03848981	
KIF20A	-0.26496747	0.18052552	-2.03789095	
RRAGB	-0.26501343	0.18052552	-2.03827118	
UBAC1	-0.26498185	0.18052552	-2.03800989	
IVNS1ABP	-0.26490815	0.18052552	-2.03740029	yes
CMTM5	0.26514154	0.18052552	2.03933099	
C6orf57	-0.26490610	0.18052552	-2.03738337	
TMEM71	-0.26504516	0.18052552	-2.03853366	
FAM71A	0.26487457	0.18052552	2.03712256	yes
ADAMTS16	0.26486490	0.18052552	2.03704258	
SLC35D1	-0.26503199	0.18052552	-2.03842471	
LRR6	-0.26488163	0.18052552	-2.03718095	
NR5A1	0.26514139	0.18052552	2.03932968	
GNS	-0.26508871	0.18052552	-2.03889392	
HOXD11	0.26492961	0.18052552	2.03757779	
MTX3	-0.26516729	0.18052552	-2.03954401	
RTN4RL2	0.26490240	0.18052552	2.03735272	
MEF2B	0.26507705	0.18052552	2.03879746	
LOC441208	0.26505451	0.18052552	2.03861097	
MYL3	0.26487657	0.18052552	2.03713907	
MYO9A	-0.26501450	0.18052552	-2.03827999	
PCDH7	-0.26500079	0.18052552	-2.03816658	
ACTL6B	0.26519163	0.18052552	2.03974541	

IFT57	-0.26490791	0.18052552	-2.03739830
TAS2R38	0.26507682	0.18052552	2.03879555
DHX37	0.26523014	0.18052552	2.04006397
SMPD1	0.26506882	0.18052552	2.03872935
TH	0.26520757	0.18052552	2.03987723
TPH1	-0.26516757	0.18052552	-2.03954631
PIP4K2C	-0.26489830	0.18052552	-2.03731879
OR10W1	0.26497350	0.18052552	2.03794083
TMEM222	0.26511362	0.18052552	2.03910001
KIRREL3	0.26489547	0.18052552	2.03729545
TNKS1BP1	0.26493870	0.18052552	2.03765298
A2LD1	0.26495031	0.18052552	2.03774906
ARHGAP18	-0.26507510	0.18052552	-2.03878131
DLGAP5	-0.26518877	0.18052552	-2.03972171
USH1C	0.26483671	0.18053829	2.03680939
AP4E1	-0.26482861	0.18053829	-2.03674237
LSM5	-0.26481919	0.18053829	-2.03666448
DBR1	-0.26481852	0.18053829	-2.03665893
SLC7A9	0.26478923	0.18053944	2.03641671
ZNF783	0.26478569	0.18053944	2.03638742
B4GALNT1	0.26478144	0.18053944	2.03635230
API5	-0.26477565	0.18053944	-2.03630439
ADAMTS13	0.26468165	0.18070388	2.03552704
ZDHHHC8P	0.26468034	0.18070388	2.03551617
ARL13B	-0.26466768	0.18070388	-2.03541149
C20orf30	0.26465994	0.18070388	2.03534743
LOC642648	0.26465349	0.18070388	2.03529416
RABL5	-0.26465722	0.18070388	-2.03532495
CSDE1	-0.26465191	0.18070388	-2.03528106
C2orf61	0.26463158	0.18073623	2.03511293
NCRNA00086	0.26459305	0.18082924	2.03479431
GDF6	0.26457012	0.18087029	2.03460467
CNDP1	0.26455038	0.18090070	2.03444147

EGFL7	0.26453768	0.18090764	2.03433650	yes
C11orf41	0.26449746	0.18100635	2.03400393	
CHST14	0.26445448	0.18107051	2.03364851	
DYNC2LI1	-0.26444640	0.18107051	-2.03358172	
INTS4	-0.26446622	0.18107051	-2.03374557	
AP3M2	-0.26440167	0.18117130	-2.03321190	
GABRR2	0.26438438	0.18117130	2.03306890	
USP50	0.26438517	0.18117130	2.03307549	
ADAMTSL3	-0.26436474	0.18120143	-2.03290659	
GADD45GIP1	0.26433911	0.18125158	2.03269469	
RBPJL	0.26422718	0.18137001	2.03176930	
SPNS2	0.26422503	0.18137001	2.03175153	yes
COL8A2	0.26421152	0.18137001	2.03163985	yes
OR4C6	0.26419943	0.18137001	2.03153994	
GMDS	0.26427611	0.18137001	2.03217383	
IL12RB2	0.26422176	0.18137001	2.03172457	
NPAS1	0.26422189	0.18137001	2.03172564	
UBE2L3	-0.26420253	0.18137001	-2.03156554	
WNT8A	0.26419772	0.18137001	2.03152577	
SUCLG2	-0.26428198	0.18137001	-2.03222236	
LPIN1	0.26416269	0.18145160	2.03123626	
FUT9	0.26411694	0.18156907	2.03085804	
SYPL2	0.26409814	0.18159652	2.03070266	
GRIK4	0.26408518	0.18160446	2.03059555	
POLR2H	-0.26407372	0.18160743	-2.03050079	yes
VWC2	0.26404927	0.18161844	2.03029870	
GFOD1	0.26405671	0.18161844	2.03036023	
USF2	0.26402499	0.18166422	2.03009806	
DRAP1	0.26389569	0.18167650	2.02902942	
TMEM86A	0.26389455	0.18167650	2.02902003	
AIFM3	0.26392006	0.18167650	2.02923086	
NAT6	0.26392693	0.18167650	2.02928764	
FOXB1	0.26396835	0.18167650	2.02962990	

KCNK18	0.26395069	0.18167650	2.02948395
LYL1	0.26391596	0.18167650	2.02919696
CITED1	0.26396819	0.18167650	2.02962857
PRM1	0.26390052	0.18167650	2.02906930
CCDC102B	0.26393777	0.18167650	2.02937723
SETDB2	-0.26398370	0.18167650	-2.02975677
BRSK2	0.26401006	0.18167650	2.02997466
MTMR7	-0.26383920	0.18182617	-2.02856261
C20orf185	0.26381708	0.18186486	2.02837977
TRIB2	0.26376645	0.18190647	2.02796144
GRPR	0.26377514	0.18190647	2.02803321
LST-3TM12	0.26376243	0.18190647	2.02792822
VBP1	-0.26376377	0.18190647	-2.02793926
CLCN3	-0.26370579	0.18191964	-2.02746013
RNASE8	0.26374375	0.18191964	2.02777379
SAMD11	0.26373296	0.18191964	2.02768469
C14orf68	0.26371143	0.18191964	2.02750679
FSD1	0.26372360	0.18191964	2.02760735
CYP2C19	-0.26365605	0.18197320	-2.02704917
C1orf65	0.26363760	0.18197320	2.02689669
COG4	-0.26363709	0.18197320	-2.02689253
CAMK1G	0.26366568	0.18197320	2.02712871
FBXO11	-0.26365366	0.18197320	-2.02702944
MRPS22	-0.26362461	0.18197973	-2.02678940
CCDC27	0.26357785	0.18207049	2.02640306
CX3CL1	0.26357641	0.18207049	2.02639115
RBBP9	-0.26355619	0.18210290	-2.02622413
MAGEH1	0.26350211	0.18221340	2.02577730
RP1	-0.26350211	0.18221340	-2.02577734
MRPL36	0.26348337	0.18224089	2.02562249
FOXE3	0.26347019	0.18224978	2.02551365
LOC100129503	0.26338529	0.18227207	2.02481228
NKAIN4	0.26337491	0.18227207	2.02472649

NSMCE1	-0.26342049	0.18227207	-2.02510306
SEZ6L	0.26338358	0.18227207	2.02479816
GLUL	-0.26336608	0.18227207	-2.02465355
GZMM	0.26341661	0.18227207	2.02507094
SLFN12L	0.26335842	0.18227207	2.02459029
PET112L	-0.26337528	0.18227207	-2.02472957
MIOX	0.26338969	0.18227207	2.02484859
C3orf34	-0.26344894	0.18227207	-2.02533809
C7orf55	0.26328349	0.18228090	2.02397134
ZNF318	-0.26331950	0.18228090	-2.02426876
KCNC1	0.26329615	0.18228090	2.02407590
ALKBH4	0.26328230	0.18228090	2.02396150
NDRG4	0.26328947	0.18228090	2.02402074
SYS1	-0.26332179	0.18228090	-2.02428769
KIF14	-0.26330233	0.18228090	-2.02412699
KMO	0.26324517	0.18236998	2.02365486
hCG_1781062	-0.26323418	0.18237168	-2.02356403
C15orf43	0.26317398	0.18253804	2.02306683
KAAG1	0.26316091	0.18254668	2.02295889
C9orf140	0.26314788	0.18255520	2.02285126
LGALS2	0.26311439	0.18256313	2.02257466
MAN1C1	0.26312417	0.18256313	2.02265541
STAT2	0.26311406	0.18256313	2.02257194
AFG3L1	0.26308487	0.18259443	2.02233088
EFNA5	0.26308375	0.18259443	2.02232161
MDN1	-0.26302665	0.18261632	-2.02185011
KRTAP12-3	0.26304751	0.18261632	2.02202234
PRR5	0.26302484	0.18261632	2.02183512
GFRA4	0.26303885	0.18261632	2.02195086
CSPP1	-0.26306465	0.18261632	-2.02216387
PNPT1	-0.26301139	0.18262629	-2.02172406
CIB2	0.26297151	0.18263546	2.02139469
CAND2	0.26298410	0.18263546	2.02149872

DEFB132	0.26296679	0.18263546	2.02135573	
TPD52L2	-0.26299511	0.18263546	-2.02158961	
CERK	0.26291955	0.18275858	2.02096568	
HSPA12B	0.26288648	0.18283433	2.02069258	
GDAP1	-0.26285756	0.18287489	-2.02045378	
TBX18	0.26285345	0.18287489	2.02041987	
RPL17P18	-0.26279844	0.18294906	-2.01996564	
HEPACAM	0.26281440	0.18294906	2.02009741	
C9orf142	0.26278985	0.18294906	2.01989472	yes
MRPL42	-0.26278177	0.18294906	-2.01982802	
SOX1	0.26277904	0.18294906	2.01980550	
NAT8B	0.26274701	0.18302139	2.01954103	
LOC153684	-0.26272580	0.18302243	-2.01936592	
SGIP1	0.26273156	0.18302243	2.01941344	
RPS14P3	-0.26270967	0.18304149	-2.01923274	
RAB39B	0.26269004	0.18304366	2.01907072	
NKD2	0.26267769	0.18304366	2.01896875	
PAPSS1	-0.26268407	0.18304366	-2.01902137	
C1orf122	0.26266369	0.18305559	2.01885318	
PLXNA3	0.26260907	0.18320372	2.01840224	
NKAIN2	0.26257930	0.18326857	2.01815647	
LYPD6B	-0.26255273	0.18332267	-2.01793718	
OTOL1	0.26254188	0.18332406	2.01784762	
CCDC77	-0.26250469	0.18341385	-2.01754061	
RP3-402G11.5	0.26248087	0.18345879	2.01734396	
LOC84856	0.26244167	0.18352141	2.01702042	
RAB9A	-0.26244136	0.18352141	-2.01701780	
TMEM159	-0.26242613	0.18353751	-2.01689214	
HERC4	-0.26239600	0.18355873	-2.01664342	
GJB5	-0.26239817	0.18355873	-2.01666135	
PRB4	0.26238853	0.18355873	2.01658177	
ZSWIM3	0.26237658	0.18356384	2.01648317	
ACMSD	0.26233439	0.18358783	2.01613493	

NPB	0.26232421	0.18358783	2.01605089	
HEATR7B1	0.26233096	0.18358783	2.01610664	
YPEL2	-0.26227569	0.18358783	-2.01565049	
PCDHB7	0.26230490	0.18358783	2.01589157	
CCDC154	0.26228564	0.18358783	2.01573262	
SLC12A4	0.26229200	0.18358783	2.01578509	
CAMLG	-0.26230602	0.18358783	-2.01590076	
ITM2B	-0.26232004	0.18358783	-2.01601652	
PDIA2	0.26224559	0.18365396	2.01540204	
SOLH	0.26217004	0.18387278	2.01477863	
HPCAL1	0.26214404	0.18390117	2.01456404	
ZNF335	0.26214078	0.18390117	2.01453715	
ATP5O	-0.26208576	0.18398122	-2.01408312	
ZNF286A	-0.26208808	0.18398122	-2.01410227	
BNIP3L	-0.26210510	0.18398122	-2.01424268	
UNC13B	-0.26205070	0.18406414	-2.01379381	
COMTD1	0.26200807	0.18417254	2.01344208	
ARL14	0.26199646	0.18417661	2.01334629	
LPPR4	0.26194078	0.18432901	2.01288691	
THSD7B	0.26192516	0.18434660	2.01275801	
C20orf134	0.26190376	0.18438366	2.01258143	
PIAS3	-0.26185529	0.18451190	-2.01218153	
HOXA6	0.26183085	0.18455922	2.01197991	
ZCCHC18	0.26181095	0.18459126	2.01181572	
LOC100131510	0.26179547	0.18459175	2.01168806	
SLC35B1	0.26176372	0.18459175	2.01142614	
NUP205	-0.26175457	0.18459175	-2.01135066	
ZNF321	-0.26178541	0.18459175	-2.01160510	
MAP3K11	0.26176691	0.18459175	2.01145243	yes
PI4K2A	-0.26174847	0.18459175	-2.01130033	
NP	-0.26173274	0.18460976	-2.01117057	
GDF2	0.26170946	0.18465322	2.01097854	
AMN1	-0.26169045	0.18468229	-2.01082175	

OR9I1	0.26165596	0.18476021	2.01053723	
ASF1A	-0.26164658	0.18476021	-2.01045987	
KRT7	0.26161849	0.18481994	2.01022814	
EXOSC9	-0.26160535	0.18482927	-2.01011975	
LOC100133326	0.26154048	0.18501310	2.00958471	
OR1A2	0.26140822	0.18530868	2.00849389	
IFNAR1	-0.26142283	0.18530868	-2.00861437	
DPY19L2P2	-0.26141197	0.18530868	-2.00852485	
IREB2	-0.26140468	0.18530868	-2.00846469	
RPL23AP64	0.26140108	0.18530868	2.00843500	yes
CUGBP1	-0.26137374	0.18530896	-2.00820954	
C10orf25	0.26134916	0.18530896	2.00800686	
TSSK2	0.26136164	0.18530896	2.00810978	
CCDC39	-0.26135613	0.18530896	-2.00806432	
PPP1R9B	0.26135683	0.18530896	2.00807011	
LANCL3	-0.26132170	0.18536671	-2.00778045	
NFU1	-0.26130601	0.18538472	-2.00765107	
RPL23	-0.26129036	0.18540261	-2.00752197	
GRASP	0.26125666	0.18548147	2.00724414	yes
RPL38	-0.26123917	0.18550560	-2.00709988	
SEP10	-0.26121918	0.18550991	-2.00693505	
FAM116A	-0.26120683	0.18550991	-2.00683322	
VPREB3	0.26120774	0.18550991	2.00684069	
CEBPZ	-0.26108580	0.18554049	-2.00583528	
MOSPD2	-0.26110206	0.18554049	-2.00596940	
DLG3	-0.26109509	0.18554049	-2.00591188	
FLJ39653	0.26109626	0.18554049	2.00592152	
C1orf187	0.26109973	0.18554049	2.00595019	
TMEM89	0.26107367	0.18554049	2.00573534	
ITLN1	0.26109254	0.18554049	2.00589086	
STX7	-0.26113106	0.18554049	-2.00620849	
TMEM117	-0.26110863	0.18554049	-2.00602351	
RUVBL1	-0.26112797	0.18554049	-2.00618300	

MTG1	0.26108304	0.18554049	2.00581253	
RP1L1	0.26113172	0.18554049	2.00621393	
VWC2L	-0.26106284	0.18554218	-2.00564603	
SLC35C1	0.26099035	0.18573680	2.00504843	
IQCH	-0.26098460	0.18573680	-2.00500103	
BCL2L11	-0.26092096	0.18574790	-2.00447638	
DUS4L	-0.26084474	0.18574790	-2.00384805	
XPOT	-0.26088222	0.18574790	-2.00415703	
WDR17	-0.26088999	0.18574790	-2.00422107	
ANKRD9	0.26093070	0.18574790	2.00455664	
C2orf73	-0.26090678	0.18574790	-2.00435947	
SLFN13	-0.26094160	0.18574790	-2.00464646	
C10orf47	0.26090762	0.18574790	2.00436639	
TMEM98	0.26083685	0.18574790	2.00378304	
BIVM	-0.26084929	0.18574790	-2.00388557	
RBL2	-0.26093097	0.18574790	-2.00455884	
PRAM1	0.26084720	0.18574790	2.00386837	
CAMKK1	0.26095382	0.18574790	2.00474721	
FTMT	0.26084721	0.18574790	2.00386840	
IQUB	-0.26080111	0.18583388	-2.00348842	
MARCH6	-0.26072603	0.18604245	-2.00286955	
RAPH1	-0.26071884	0.18604245	-2.00281030	
RGL3	0.26070147	0.18606634	2.00266719	
CLDN16	-0.26067596	0.18608294	-2.00245690	
DNAJA3	-0.26068313	0.18608294	-2.00251601	
FAM5B	0.26058221	0.18636554	2.00168424	
FMO5	-0.26055962	0.18636712	-2.00149806	
APOD	0.26055802	0.18636712	2.00148490	
TMEM129	0.26055084	0.18636712	2.00142570	
LOC441239	0.26046984	0.18660678	2.00075821	
KIAA0319	-0.26041722	0.18675033	-2.00032467	
DLST	-0.26037995	0.18675267	-2.00001754	
DYRK1A	-0.26036158	0.18675267	-1.99986617	yes

FLJ37201	-0.26034448	0.18675267	-1.99972524
ART1	0.26034637	0.18675267	1.99974087
G2E3	-0.26037255	0.18675267	-1.99995658
C2orf44	-0.26040418	0.18675267	-2.00021717
PCDH21	-0.26038565	0.18675267	-2.00006449
TSPYL1	-0.26032033	0.18679967	-1.99952633
ANGPT2	0.26029777	0.18682610	1.99934043
FLJ16686	-0.26029151	0.18682610	-1.99928884
TNKS2	-0.26028169	0.18682610	-1.99920794
SDR42E1	-0.26026413	0.18685079	-1.99906327
ARFRP1	0.26022522	0.18689238	1.99874270
MRPS30	-0.26020133	0.18689238	-1.99854585
SIX5	0.26021139	0.18689238	1.99862870
LRRC34	-0.26020023	0.18689238	-1.99853677
UFSP1	0.26019021	0.18689238	1.99845426
ABCG2	-0.26024133	0.18689238	-1.99887538
ANKRD18A	-0.26017754	0.18690052	-1.99834987
CD70	0.26016236	0.18691719	1.99822480
ZNF837	0.26013031	0.18692813	1.99796075
RAB39	0.26012833	0.18692813	1.99794447
DALRD3	-0.26013205	0.18692813	-1.99797509
LOC100130130	0.26011585	0.18693212	1.99784166
FGD4	-0.26010424	0.18693212	-1.99774602
NLRP8	0.26009637	0.18693212	1.99768114
ALDH1L1	0.26004409	0.18693784	1.99725053
HOXD12	0.26006770	0.18693784	1.99744502
PDGFRL	0.26001264	0.18693784	1.99699148
LSG1	-0.26004803	0.18693784	-1.99728293
AZ12	-0.26003596	0.18693784	-1.99718355
PRC1	-0.26004260	0.18693784	-1.99723825
VAMP3	-0.26002595	0.18693784	-1.99710109
ZC3H11A	-0.26001918	0.18693784	-1.99704530
KLHL38	0.25997574	0.18698757	1.99668750

ELFN1	0.25996724	0.18698757	1.99661752	
SRGAP1	-0.25997229	0.18698757	-1.99665905	
LHFPL4	0.25992621	0.18698779	1.99627956	
KLHL24	-0.25992767	0.18698779	-1.99629157	
C2orf29	-0.25994159	0.18698779	-1.99640619	
USP4	-0.25993064	0.18698779	-1.99631600	
PCDH17	0.25987463	0.18709335	1.99585467	
ZNF486	-0.25988255	0.18709335	-1.99591991	
CACNG3	0.25985033	0.18714107	1.99565457	
SUPT7L	-0.25983363	0.18716302	-1.99551701	
PRG3	0.25972377	0.18744707	1.99461227	
TTC9C	-0.25970986	0.18744707	-1.99449765	yes
HABP2	0.25968880	0.18744707	1.99432426	
RPS2P8	0.25973408	0.18744707	1.99469712	
LYAR	-0.25968861	0.18744707	-1.99432268	
REL	-0.25968960	0.18744707	-1.99433084	
ZNF579	0.25964751	0.18744777	1.99398421	
TMCO1	-0.25964984	0.18744777	-1.99400340	
GOLSYN	-0.25965583	0.18744777	-1.99405274	
PLOD3	0.25967601	0.18744777	1.99421893	
C14orf126	-0.25962186	0.18749048	-1.99377300	
STX5	0.25960428	0.18749048	1.99362824	
KIAA1881	0.25961176	0.18749048	1.99368983	
ITGA11	0.25957707	0.18754822	1.99340420	
SH2B2	0.25954007	0.18759543	1.99309955	
C10orf4	-0.25953254	0.18759543	-1.99303749	
CLDN2	0.25953632	0.18759543	1.99306866	
SYT5	0.25951527	0.18761940	1.99289536	
TMX3	-0.25948518	0.18768700	-1.99264756	
C11orf86	0.25941810	0.18774157	1.99209525	
APLP1	0.25941818	0.18774157	1.99209591	
RPP25	0.25944576	0.18774157	1.99232305	
MAPK9	-0.25942932	0.18774157	-1.99218769	

KRIT1	-0.25942285	0.18774157	-1.99213442
NBPF4	0.25940737	0.18774335	1.99200695
PAGE5	0.25938134	0.18779717	1.99179265
LOC146336	0.25932622	0.18786147	1.99133882
CTNND2	0.25934777	0.18786147	1.99151623
OR5M8	0.25929295	0.18786147	1.99106493
PRX	0.25932793	0.18786147	1.99135293
MRPL1	-0.25929107	0.18786147	-1.99104948
C6orf103	-0.25931191	0.18786147	-1.99122100
ATAD1	-0.25930750	0.18786147	-1.99118477
LBX1	0.25924105	0.18792764	1.99063771
NKPD1	0.25926095	0.18792764	1.99080155
DNAJC14	-0.25924867	0.18792764	-1.99070042
TTC28	0.25922930	0.18793298	1.99054095
NMS	0.25920265	0.18794007	1.99032160
INVS	-0.25920403	0.18794007	-1.99033294
APOA1	0.25918648	0.18794007	1.99018853
KRT26	0.25919506	0.18794007	1.99025916
TOR1AIP1	-0.25912227	0.18798542	-1.98966000
SPINK5L2	0.25912336	0.18798542	1.98966892
PIM3	0.25914440	0.18798542	1.98984212
SMARCA5	-0.25913357	0.18798542	-1.98975298
RABEP1	-0.25914456	0.18798542	-1.98984341
RTP3	0.25911140	0.18798780	1.98957052
CPA2	0.25907625	0.18802912	1.98928121
FOXS1	0.25905911	0.18802912	1.98914006
SLC6A18	0.25907135	0.18802912	1.98924086
NPHP1	-0.25905859	0.18802912	-1.98913580
PDCD7	-0.25901395	0.18811181	-1.98876843
EXOSC8	-0.25901479	0.18811181	-1.98877530
GDF5OS	0.25896648	0.18823878	1.98837771
OR7A17	0.25894825	0.18824969	1.98822769
CCR10	0.25893993	0.18824969	1.98815921

FBLIM1	0.25893280	0.18824969	1.98810049
FAM45B	-0.25891685	0.18826940	-1.98796925
MUCL1	-0.25886419	0.18831191	-1.98753587
REG3G	0.25882345	0.18831191	1.98720064
BEAN	0.25882865	0.18831191	1.98724347
CD300LG	0.25882242	0.18831191	1.98719215
NIN	-0.25885253	0.18831191	-1.98743994
PLOD2	-0.25882788	0.18831191	-1.98723707
BIRC6	-0.25883457	0.18831191	-1.98729212
RFX3	-0.25884751	0.18831191	-1.98739866
ZNF43	-0.25881301	0.18831191	-1.98711475
LBXCOR1	0.25880249	0.18831320	1.98702818
ARMCX3	0.25877129	0.18838489	1.98677143
INCA1	0.25874912	0.18839133	1.98658900
MAOB	-0.25875584	0.18839133	-1.98664433
UQCRFSL1	-0.25861317	0.18844590	-1.98547040
CELP	0.25859274	0.18844590	1.98530226
ECD	-0.25867320	0.18844590	-1.98596427
DDX42	-0.25862833	0.18844590	-1.98559515
MIB2	0.25861075	0.18844590	1.98545047
CD300LF	0.25863565	0.18844590	1.98565536
KNCN	0.25867529	0.18844590	1.98598149
C9orf102	-0.25866962	0.18844590	-1.98593482
RP11-191L9.1	0.25862344	0.18844590	1.98555490
LOC407835	0.25862599	0.18844590	1.98557582
NRAS	-0.25868828	0.18844590	-1.98608839
PRLH	0.25861370	0.18844590	1.98547473
RAB17	0.25858119	0.18844590	1.98520725
STK33	-0.25865559	0.18844590	-1.98581937
B4GALT3	0.25859004	0.18844590	1.98528008
C19orf36	0.25850531	0.18849258	1.98458303
LYZL4	0.25850591	0.18849258	1.98458792
MLC1	0.25849670	0.18849258	1.98451214

SALL3	0.25852732	0.18849258	1.98476405	
KLHL5	-0.25850519	0.18849258	-1.98458202	
ATP7B	-0.25854867	0.18849258	-1.98493968	
HHIPL1	0.25850477	0.18849258	1.98457855	
MYL12A	-0.25846724	0.18851543	-1.98426984	
SLC17A8	0.25844270	0.18851543	1.98406788	
CRB2	0.25843947	0.18851543	1.98404138	
ORC2L	-0.25845150	0.18851543	-1.98414034	
PLA2G10	-0.25845736	0.18851543	-1.98418851	
NR3C2	-0.25839321	0.18860703	-1.98366081	
C21orf45	-0.25839237	0.18860703	-1.98365386	
GPR150	0.25835860	0.18865325	1.98337608	
OR52N4	0.25836507	0.18865325	1.98342930	
IDE	-0.25834025	0.18868137	-1.98322511	
IL4	0.25829757	0.18879234	1.98287406	
BIRC3	0.25828176	0.18881181	1.98274405	
DARC	0.25827126	0.18881321	1.98265768	
LOC100129391	0.25825968	0.18881828	1.98256244	
ADH1C	-0.25824764	0.18882496	-1.98246335	
GALE	0.25822836	0.18885626	1.98230480	
FMR1NB	0.25820731	0.18889101	1.98213166	
ITIH1	0.25819799	0.18889101	1.98205504	
GGH	-0.25818752	0.18889235	-1.98196887	
MPG	0.25817441	0.18890265	1.98186111	
TRAK2	-0.25815645	0.18892951	-1.98171336	
MAP2K5	-0.25811105	0.18904987	-1.98134001	
POL3S	0.25807607	0.18913477	1.98105233	
ST3GAL5	0.25806514	0.18913769	1.98096241	
CAMK2G	-0.25805415	0.18914081	-1.98087203	
ABCA5	-0.25802365	0.18917611	-1.98062123	
UCN2	0.25802443	0.18917611	1.98062763	
FRAT1	0.25798270	0.18928142	1.98028450	yes
CLCN2	0.25795197	0.18935193	1.98003173	

LILRA2	0.25793816	0.18936468	1.97991819
RASGEF1C	0.25792502	0.18937517	1.97981011
LOC100129654	0.25788369	0.18939830	1.97947030
LZTS1	0.25789492	0.18939830	1.97956261
GUCY2D	0.25787798	0.18939830	1.97942332
POU3F4	0.25790793	0.18939830	1.97966961
C6orf66	-0.25786291	0.18941539	-1.97929941
FAM84A	-0.25779160	0.18942440	-1.97871308
C1orf101	-0.25781402	0.18942440	-1.97889741
FOXD3	0.25784590	0.18942440	1.97915956
ACACA	-0.25780014	0.18942440	-1.97878334
PI3	-0.25780742	0.18942440	-1.97884318
SCARNA22	0.25781675	0.18942440	1.97891989
CNBP	-0.25778988	0.18942440	-1.97869893
HOXC4	0.25777280	0.18942807	1.97855850
PRMT8	0.25776870	0.18942807	1.97852484
FIGNL1	-0.25771695	0.18957038	-1.97809936
GLTSCR1	0.25767403	0.18961492	1.97774650
PVRL2	0.25767377	0.18961492	1.97774433
AASDHPPT	-0.25767489	0.18961492	-1.97775352
EIF4B	-0.25766069	0.18962527	-1.97763682
OSTF1	-0.25763856	0.18966656	-1.97745484
MST150	0.25762739	0.18967041	1.97736304
ACP6	-0.25758406	0.18971553	-1.97700684
BBS10	-0.25760272	0.18971553	-1.97716028
CASP6	-0.25759330	0.18971553	-1.97708282
UPB1	0.25754801	0.18980438	1.97671048
NKX2-5	0.25751488	0.18984901	1.97643812
GOSR1	-0.25751593	0.18984901	-1.97644682
ICA1L	-0.25747084	0.18995710	-1.97607618
HP	0.25746318	0.18995710	1.97601316
DCST2	0.25745041	0.18996645	1.97590823
WDSUB1	-0.25742902	0.19000529	-1.97573240

DYNLT1	-0.25741268	0.19002685	-1.97559813
NPR2	0.25737256	0.19012977	1.97526829
FAM101A	0.25734262	0.19019787	1.97502222
ZFP106	-0.25733070	0.19020433	-1.97492430
FLJ35424	0.25724816	0.19024675	1.97424594
LOC100133411	0.25727542	0.19024675	1.97446997
NBAS	-0.25727897	0.19024675	-1.97449912
SORL1	-0.25725465	0.19024675	-1.97429926
ZNF611	-0.25730291	0.19024675	-1.97469587
GHDC	0.25728954	0.19024675	1.97458600
LRRC16B	0.25725098	0.19024675	1.97426907
RPS25	-0.25721547	0.19032433	-1.97397725
LOC285033	-0.25718393	0.19032946	-1.97371811
COMMD8	-0.25719022	0.19032946	-1.97376979
HOOK3	-0.25719978	0.19032946	-1.97384829
ATAD2	-0.25716093	0.19033968	-1.97352906
PVALB	0.25716853	0.19033968	1.97359156
MEF2D	0.25708722	0.19055769	1.97292338
KCNK7	0.25705764	0.19058705	1.97268028
C9orf72	-0.25706647	0.19058705	-1.97275283
RC3H2	-0.25704863	0.19058705	-1.97260626
CCPG1	-0.25703730	0.19059161	-1.97251314
GDPD3	-0.25701832	0.19062234	-1.97235723
LSM3	-0.25698859	0.19068994	-1.97211287
WFDC11	0.25696810	0.19069161	1.97194455
ATXN3	-0.25697582	0.19069161	-1.97200803
ZNF510	-0.25695801	0.19069194	-1.97186162
NPM1	-0.25690043	0.19082071	-1.97138856
SOX11	0.25690203	0.19082071	1.97140170
EFR3A	-0.25686714	0.19086631	-1.97111502
YY2	0.25687596	0.19086631	1.97118754
NXNL2	0.25684824	0.19089682	1.97095979
COP5	-0.25683790	0.19089802	-1.97087484

CEACAM3	0.25680143	0.19092032	1.97057526	
INO80E	0.25681209	0.19092032	1.97066281	
LIMS2	0.25680275	0.19092032	1.97058610	yes
TFDP3	0.25678782	0.19093276	1.97046341	
CYBA	0.25676201	0.19097866	1.97025134	
UTP18	-0.25675446	0.19097866	-1.97018938	
AQP2	0.25673798	0.19099291	1.97005399	
PHLDA2	0.25673035	0.19099291	1.96999127	
COL9A3	0.25665487	0.19114461	1.96937128	
OSTCL	0.25664281	0.19114461	1.96927216	
SLC29A4	0.25664124	0.19114461	1.96925930	
LRP2BP	-0.25664807	0.19114461	-1.96931541	
LOC645805	-0.25663622	0.19114461	-1.96921809	
PIGX	-0.25662391	0.19115265	-1.96911691	
GLMN	-0.25657432	0.19115850	-1.96870962	
FAM19A4	0.25659780	0.19115850	1.96890249	
OXER1	0.25658354	0.19115850	1.96878531	
C11orf82	-0.25660070	0.19115850	-1.96892629	
DEFB137	0.25657236	0.19115850	1.96869354	
ERAF	0.25655764	0.19117482	1.96857260	
KLF1	0.25653909	0.19120426	1.96842025	
KIAA0562	-0.25652077	0.19123294	-1.96826977	
PHTF1	-0.25647930	0.19128317	-1.96792919	
SNX32	0.25647589	0.19128317	1.96790120	
PPYR1	0.25649334	0.19128317	1.96804451	
ZNF397	-0.25646629	0.19128317	-1.96782231	
ZNF358	0.25640542	0.19129313	1.96732240	yes
ABCC13	0.25640019	0.19129313	1.96727945	
ODF2L	-0.25642536	0.19129313	-1.96748617	
RARRES3	0.25641513	0.19129313	1.96740212	
LOC730241	0.25642257	0.19129313	1.96746322	
HIST1H4H	-0.25643098	0.19129313	-1.96753235	
CER1	0.25639374	0.19129313	1.96722644	

FAM24B	-0.25634451	0.19139943	-1.96682214
PTPRCAP	0.25634285	0.19139943	1.96680858
C22orf27	0.25632549	0.19142488	1.96666602
CD83	0.25630164	0.19147261	1.96647013
SORCS3	0.25627896	0.19148221	1.96628392
SLC12A2	0.25628853	0.19148221	1.96636247
DZIP3	-0.25626354	0.19150104	-1.96615724
DTX3L	0.25625348	0.19150146	1.96607464
CDS2	-0.25623535	0.19152957	-1.96592579
CEP152	-0.25621381	0.19153531	-1.96574891
UNC119	0.25622331	0.19153531	1.96582694
GDF1	0.25620237	0.19154049	1.96565498
ZNF627	-0.25618183	0.19157691	-1.96548629
NACAD	0.25616154	0.19160717	1.96531972
EFCAB2	-0.25615315	0.19160717	-1.96525085
TMEM145	0.25614124	0.19161400	1.96515301
ZNF628	0.25611082	0.19168433	1.96490328
LOC100130285	0.25600939	0.19169934	1.96407046
ARL11	0.25593566	0.19169934	1.96346521
CSNK1G3	-0.25605470	0.19169934	-1.96444247
ERH	-0.25603472	0.19169934	-1.96427848
RAB18	-0.25592131	0.19169934	-1.96334735
PPRC1	0.25608684	0.19169934	1.96470633
DTWD2	-0.25602074	0.19169934	-1.96416368
IGFBP2	-0.25600973	0.19169934	-1.96407325
MYO10	-0.25598329	0.19169934	-1.96385618
YPEL5	-0.25603666	0.19169934	-1.96429437
MKS1	-0.25591814	0.19169934	-1.96332132
RHOT1	-0.25596992	0.19169934	-1.96374642
PTPRJ	0.25599621	0.19169934	1.96396229
ARHGAP22	0.25599936	0.19169934	1.96398815
RHAG	0.25597832	0.19169934	1.96381542
SNORD96A	0.25596462	0.19169934	1.96370290

C3orf51	0.25599788	0.19169934	1.96397600	
C6orf25	0.25592961	0.19169934	1.96341551	
CHURC1	-0.25594916	0.19169934	-1.96357598	
GPR124	0.25584698	0.19190355	1.96273721	yes
OR52L1	0.25583885	0.19190355	1.96267044	
KRT28	0.25581406	0.19195470	1.96246692	
LY6G6D	0.25579081	0.19196656	1.96227613	
SAMSN1	0.25580003	0.19196656	1.96235180	
TIMM17A	-0.25576085	0.19198672	-1.96203020	
FAT2	-0.25575527	0.19198672	-1.96198438	
FRG1	-0.25576307	0.19198672	-1.96204844	
LOC100128919	-0.25569506	0.19201584	-1.96149022	
DPH3B	0.25570096	0.19201584	1.96153860	
MAP4K5	-0.25566584	0.19201584	-1.96125038	
CSH2	0.25565784	0.19201584	1.96118470	
NR3C1	-0.25570791	0.19201584	-1.96159561	
MMP10	0.25567638	0.19201584	1.96133682	
TH1L	-0.25572631	0.19201584	-1.96174672	
RIMKLB	-0.25567185	0.19201584	-1.96129966	
PRPF4B	-0.25571479	0.19201584	-1.96165216	
AASDH	-0.25562655	0.19205926	-1.96092786	
APOC2	0.25559844	0.19205926	1.96069719	
CRNN	-0.25561469	0.19205926	-1.96083053	
STIL	-0.25559589	0.19205926	-1.96067625	
CACNA1F	0.25559583	0.19205926	1.96067575	
SNORA60	0.25553425	0.19223686	1.96017040	
ACTL7B	0.25551862	0.19225666	1.96004212	
SART3	-0.25549967	0.19228787	-1.95988660	
KRTAP10-1	0.25547953	0.19232319	1.95972127	
ZFR2	0.25546027	0.19235549	1.95956321	
CLEC1B	0.25544939	0.19235896	1.95947397	
LYPD1	0.25541706	0.19237177	1.95920866	
ZCCHC8	-0.25541607	0.19237177	-1.95920058	

HPS3	-0.25541754	0.19237177	-1.95921263	
LOC100131763	0.25528650	0.19237381	1.95813736	
NAT12	-0.25534055	0.19237381	-1.95858081	
CST1	0.25529039	0.19237381	1.95816924	
DAPP1	-0.25529259	0.19237381	-1.95818735	yes
ITGB3	0.25538409	0.19237381	1.95893808	
ASGR2	0.25530072	0.19237381	1.95825401	
OR3A1	0.25532474	0.19237381	1.95845111	
PRB1	0.25533376	0.19237381	1.95852513	
PRKG2	-0.25537663	0.19237381	-1.95887687	
PSMA1	-0.25535921	0.19237381	-1.95873398	
ALX4	0.25526773	0.19237381	1.95798335	
RASSF10	0.25526843	0.19237381	1.95798908	
ZNF747	0.25529927	0.19237381	1.95824216	
C7orf63	-0.25532593	0.19237381	-1.95846092	
LBX2	0.25533009	0.19237381	1.95849501	
hCG_2039146	0.25524787	0.19240825	1.95782038	
PDXP	0.25523595	0.19241541	1.95772259	
ZNF780A	-0.25518292	0.19253640	-1.95728747	
DOC2BL	0.25517714	0.19253640	1.95724007	
ZP2	0.25517124	0.19253640	1.95719164	
ZNF784	0.25514415	0.19258152	1.95696939	
PITX2	0.25513844	0.19258152	1.95692261	
ZNF584	-0.25512732	0.19258596	-1.95683135	
PARP12	0.25509505	0.19266187	1.95656665	
XRCC4	-0.25508558	0.19266187	-1.95648894	
COX7A1	0.25502166	0.19274654	1.95596454	
TIGD3	0.25503865	0.19274654	1.95610395	
MMEL1	0.25504031	0.19274654	1.95611758	
CCDC15	-0.25502286	0.19274654	-1.95597440	
TAOK1	-0.25499369	0.19280897	-1.95573507	
KIAA0895	-0.25496516	0.19287332	-1.95550106	
TIAM2	0.25492564	0.19294173	1.95517689	

QRICH1	-0.25492574	0.19294173	-1.95517774	
NBR2	-0.25481101	0.19303665	-1.95423667	
NHEDC2	0.25480008	0.19303665	1.95414705	
VPS37D	0.25484484	0.19303665	1.95451411	
PEBP4	0.25482402	0.19303665	1.95434340	
IFLTD1	-0.25463784	0.19303665	-1.95281642	
DDX3X	-0.25463341	0.19303665	-1.95278014	yes
ABCD1	0.25467539	0.19303665	1.95312436	
TFEC	0.25479998	0.19303665	1.95414622	
LARS2	-0.25465679	0.19303665	-1.95297186	
G6PD	-0.25485524	0.19303665	-1.95459944	
GP5	0.25468648	0.19303665	1.95321535	
HRH1	0.25480158	0.19303665	1.95415930	
LOC389199	0.25467376	0.19303665	1.95311102	
GADD45B	0.25464231	0.19303665	1.95285310	
NFYC	-0.25466121	0.19303665	-1.95300807	
ATP2B1	-0.25476957	0.19303665	-1.95389676	
CYB5R1	-0.25470342	0.19303665	-1.95335423	
HIGD1B	0.25478291	0.19303665	1.95400624	
PARP14	0.25464980	0.19303665	1.95291455	
SLC30A6	-0.25469848	0.19303665	-1.95331375	
REN	0.25476235	0.19303665	1.95383756	yes
LOC645139	-0.25465402	0.19303665	-1.95294913	
WNT6	0.25465292	0.19303665	1.95294009	
APOL4	0.25479189	0.19303665	1.95407983	
EFCAB7	-0.25476149	0.19303665	-1.95383055	
FPGT	-0.25465326	0.19303665	-1.95294292	
LATS1	-0.25481195	0.19303665	-1.95424440	
SELI	-0.25457715	0.19319657	-1.95231879	
EVX2	0.25455810	0.19322369	1.95216251	yes
FLJ42957	0.25454971	0.19322369	1.95209375	yes
STXBP3	-0.25450745	0.19333551	-1.95174725	
RAB5A	-0.25449302	0.19335153	-1.95162892	

RTN1	0.25448231	0.19335474	1.95154108	
KCNN2	0.25446252	0.19336967	1.95137879	
POU4F3	0.25442910	0.19336967	1.95110480	
ACOT1	0.25444207	0.19336967	1.95121116	
ZBBX	-0.25444867	0.19336967	-1.95126526	
GTPBP10	-0.25443471	0.19336967	-1.95115078	
KIAA0774	0.25440373	0.19337324	1.95089677	
NENF	0.25436946	0.19337324	1.95061581	yes
C6orf70	-0.25437563	0.19337324	-1.95066636	
MPPED1	0.25439619	0.19337324	1.95083495	
C15orf5	-0.25438543	0.19337324	-1.95074671	
WDR22	-0.25438414	0.19337324	-1.95073613	
MTPAP	-0.25433286	0.19343205	-1.95031570	
SPINK2	0.25433988	0.19343205	1.95037325	
TOPBP1	-0.25426773	0.19358915	-1.94978174	
MRPS18C	-0.25427188	0.19358915	-1.94981576	
TRIM26	0.25425495	0.19359957	1.94967692	
RPS11	-0.25420422	0.19362755	-1.94926108	
SIM2	0.25420070	0.19362755	1.94923225	
TRAF5	0.25419805	0.19362755	1.94921050	
C18orf12	0.25421402	0.19362755	1.94934138	
AQP10	0.25423192	0.19362755	1.94948820	
TTBK2	-0.25418039	0.19365481	-1.94906570	
LHX3	0.25416832	0.19366281	1.94896675	
IL10	0.25413121	0.19373378	1.94866255	
ZNF487	-0.25412822	0.19373378	-1.94863810	
C19orf34	0.25409680	0.19380849	1.94838053	
KCNK15	0.25408216	0.19382538	1.94826047	
ATP4A	0.25406142	0.19382968	1.94809051	
NSUN3	-0.25407116	0.19382968	-1.94817030	
DUSP14	-0.25400360	0.19386621	-1.94761658	
MRPL15	-0.25400213	0.19386621	-1.94760450	
MALAT1	-0.25400352	0.19386621	-1.94761594	

IER5	0.25402893	0.19386621	1.94782421	
GLRA3	0.25402160	0.19386621	1.94776413	
LOC643287	-0.25399174	0.19386845	-1.94751938	
ARL3	-0.25396110	0.19394054	-1.94726822	
EPN2	-0.25394739	0.19395425	-1.94715583	
HIG2	-0.25393684	0.19395707	-1.94706938	
ZNF526	0.25389713	0.19406044	1.94674396	
CDC27	-0.25388713	0.19406139	-1.94666196	
TMPRSS11A	-0.25383821	0.19410740	-1.94626101	
ZNF808	-0.25384980	0.19410740	-1.94635599	
WDR44	-0.25385135	0.19410740	-1.94636869	
ST8SIA2	0.25383488	0.19410740	1.94623376	
PRAP1	0.25379413	0.19418090	1.94589979	
MAP3K7	-0.25379476	0.19418090	-1.94590495	
TET3	-0.25377482	0.19419683	-1.94574151	
C1orf124	-0.25377007	0.19419683	-1.94570260	
TPCN2	0.25371876	0.19432772	1.94528212	
METTL1	0.25371270	0.19432772	1.94523252	
CDK8	-0.25367241	0.19436618	-1.94490237	
GPR27	0.25367885	0.19436618	1.94495507	
FAM115A	0.25368476	0.19436618	1.94500350	yes
CRYBB1	0.25363307	0.19443495	1.94457996	
RAB42P	0.25363391	0.19443495	1.94458684	
FXVD2	0.25358300	0.19457433	1.94416972	
EPHA10	0.25356306	0.19460967	1.94400633	
TDO2	0.25353292	0.19468027	1.94375938	
SPACA4	0.25350632	0.19470510	1.94354140	
PNKD	0.25351505	0.19470510	1.94361298	
PTK2	-0.25349029	0.19472692	-1.94341014	
GPR64	0.25345130	0.19479460	1.94309068	
GPSM3	0.25345678	0.19479460	1.94313559	
VGLL2	0.25341705	0.19481239	1.94281002	
FREM2	-0.25341983	0.19481239	-1.94283281	

NEUROD4	0.25342368	0.19481239	1.94286438	
TAS2R40	0.25339096	0.19483551	1.94259630	
TMEM144	-0.25339196	0.19483551	-1.94260449	
CPM	-0.25337621	0.19485296	-1.94247549	
TRMU	0.25336216	0.19486802	1.94236038	
ALPI	0.25334293	0.19489388	1.94220282	
HERC3	-0.25333529	0.19489388	-1.94214025	
NCOA7	0.25331009	0.19493486	1.94193381	
NXPH1	0.25330405	0.19493486	1.94188436	
PMP22CD	0.25327249	0.19494348	1.94162578	
HSD17B11	-0.25327781	0.19494348	-1.94166938	
PLEKHF2	-0.25328348	0.19494348	-1.94171583	
FGFBP3	0.25324119	0.19495122	1.94136942	
ANKFN1	-0.25324377	0.19495122	-1.94139058	
GPR144	0.25325152	0.19495122	1.94145406	
FLJ44896	0.25322997	0.19495652	1.94127753	
RNF219	-0.25321796	0.19496458	-1.94117914	
ISG20	0.25319938	0.19499534	1.94102697	
ZNF668	0.25318874	0.19499866	1.94093980	
PNCK	0.25317225	0.19502221	1.94080475	yes
C5orf40	0.25314792	0.19507289	1.94060544	
F5	0.25312790	0.19510866	1.94044147	
TRIM14	0.25309851	0.19517689	1.94020070	
FMO1	0.25307811	0.19521400	1.94003361	
RNFT1	-0.25305849	0.19521492	-1.93987298	
DNLZ	0.25305927	0.19521492	1.93987931	
CCDC105	0.25300876	0.19535357	1.93946568	
HIST1H2AC	-0.25296990	0.19545466	-1.93914737	
CCBL2	-0.25293999	0.19552475	-1.93890245	
MED7	-0.25292780	0.19553347	-1.93880265	
GRIN2C	0.25291355	0.19554617	1.93868589	
ANGPTL4	0.25289105	0.19554617	1.93850168	
ARPM1	0.25288547	0.19554617	1.93845596	

CD33	0.25289826	0.19554617	1.93856075
SHARPIN	0.25285981	0.19560158	1.93824585
ZNF638	-0.25283012	0.19563750	-1.93800271
FAM20B	-0.25283744	0.19563750	-1.93806265
ZMYM1	-0.25279331	0.19569809	-1.93770135
TNFSF9	0.25280116	0.19569809	1.93776559
TTC27	-0.25277195	0.19573866	-1.93752640
ALDH18A1	0.25275729	0.19575601	1.93740633
LANCL2	-0.25268842	0.19586086	-1.93684247
LCAP	0.25270541	0.19586086	1.93698153
C5orf44	-0.25269295	0.19586086	-1.93687957
TMEM107	-0.25270508	0.19586086	-1.93697886
ZNF277	-0.25259549	0.19602765	-1.93608158
WDR63	-0.25261883	0.19602765	-1.93627266
CYS1	0.25259208	0.19602765	1.93605369
GCNT4	-0.25261666	0.19602765	-1.93625495
YWHAH	-0.25259711	0.19602765	-1.93609487
FCRL1	0.25257369	0.19605799	1.93590310
KIF4A	-0.25254548	0.19612240	-1.93567216
VSNL1	-0.25244169	0.19644930	-1.93482251
KHDRBS3	0.25242253	0.19648238	1.93466561
RNF144B	-0.25241150	0.19648717	-1.93457538
ENC1	0.25239815	0.19650005	1.93446607
OLFM1	0.25235673	0.19657697	1.93412706
NTF4	0.25236287	0.19657697	1.93417727
SLC24A4	0.25231891	0.19664904	1.93381746
ADRA1D	0.25230708	0.19664904	1.93372063
OR13J1	0.25231422	0.19664904	1.93377905
C12orf53	0.25225736	0.19676601	1.93331367
PTDSS1	-0.25225417	0.19676601	-1.93328753
GOLGA3	0.25223187	0.19677652	1.93310506
RAB19	0.25223237	0.19677652	1.93310910
BACH2	0.25222116	0.19678028	1.93301736

PPWD1	-0.25221133	0.19678095	-1.93293693
DNAJC19	-0.25217444	0.19687576	-1.93263503
NSMAF	-0.25215337	0.19691558	-1.93246254
GPR151	0.25211419	0.19691787	1.93214187
CRYBB2	0.25209739	0.19691787	1.93200443
STK32C	0.25212292	0.19691787	1.93221336
UNCX	0.25207682	0.19691787	1.93183609
LOC400931	0.25211756	0.19691787	1.93216950
LRPAP1	0.25207571	0.19691787	1.93182696
PAX4	0.25208288	0.19691787	1.93188569
PYY	0.25211253	0.19691787	1.93212833
KRT33B	0.25206450	0.19692338	1.93173528
DHX29	-0.25205266	0.19693112	-1.93163834
C1orf26	-0.25202062	0.19700914	-1.93137614
FLJ38379	0.25198050	0.19704835	1.93104787
GALR3	0.25198938	0.19704835	1.93112053
LRP5L	0.25199794	0.19704835	1.93119056
WFDC2	0.25195551	0.19710188	1.93084336
GHSR	0.25193033	0.19712499	1.93063730
HIST1H4C	-0.25192965	0.19712499	-1.93063172
KRR1	-0.25191812	0.19713167	-1.93053739
DKKL1	0.25185090	0.19713625	1.92998739
CERKL	-0.25187208	0.19713625	-1.93016067
ZNF143	-0.25186206	0.19713625	-1.93007873
REEP4	-0.25184957	0.19713625	-1.92997649
HYAL3	0.25189715	0.19713625	1.93036584
SLC9A3R2	0.25186845	0.19713625	1.93013097
TTC37	-0.25184997	0.19713625	-1.92997980
TCTEX1D2	-0.25180684	0.19725155	-1.92962692
LOC440419	0.25179123	0.19727247	1.92949920
DYX1C1	-0.25177494	0.19729433	-1.92936587
C9orf170	0.25175733	0.19729433	1.92922181
TFAP2B	0.25175617	0.19729433	1.92921229

KLHL28	-0.25173406	0.19730449	-1.92903143	
ARMC9	-0.25173630	0.19730449	-1.92904978	
VASP	0.25172214	0.19731259	1.92893392	
DDX6	-0.25170743	0.19733041	-1.92881359	
TFAP4	0.25166135	0.19745750	1.92843658	
TRIM22	0.25158312	0.19749615	1.92779662	
TCERG1	-0.25146919	0.19749615	-1.92686467	
SUPT16H	-0.25144426	0.19749615	-1.92666070	
GLB1L3	0.25144660	0.19749615	1.92667986	
C19orf28	0.25153570	0.19749615	1.92740868	
C16orf11	0.25151197	0.19749615	1.92721454	
DBP	0.25153610	0.19749615	1.92741196	
FGFR1	0.25158337	0.19749615	1.92779865	
METTL11A	0.25155291	0.19749615	1.92754943	
GPR141	0.25161065	0.19749615	1.92802183	
SERPINA13	0.25149457	0.19749615	1.92707221	
PDGFRB	0.25143378	0.19749615	1.92657503	
USP53	-0.25149680	0.19749615	-1.92709045	
UGT1A4	-0.25154753	0.19749615	-1.92750548	
KIAA1797	-0.25156626	0.19749615	-1.92765863	
BTNL2	0.25153976	0.19749615	1.92744189	
C5orf15	-0.25161596	0.19749615	-1.92806527	
USP37	-0.25158312	0.19749615	-1.92779660	
SCN10A	0.25153379	0.19749615	1.92739304	
EPB41L4A	-0.25144672	0.19749615	-1.92668087	
LOC730098	0.25143003	0.19749615	1.92654431	
MFSD11	-0.25149760	0.19749615	-1.92709706	
LRRC4B	0.25144584	0.19749615	1.92667367	yes
TIMM10	0.25140635	0.19754530	1.92635065	
VPS39	-0.25136457	0.19758682	-1.92600888	
FMN1	-0.25138201	0.19758682	-1.92615154	
CD82	0.25135620	0.19758682	1.92594044	
GAL3ST1	0.25137125	0.19758682	1.92606359	

VAV3	-0.25124079	0.19780591	-1.92499656	
C21orf84	0.25116391	0.19780591	1.92436784	
PIWIL4	0.25121240	0.19780591	1.92476442	
C20orf196	0.25117684	0.19780591	1.92447358	
HIC2	0.25115964	0.19780591	1.92433293	
OPHN1	-0.25116580	0.19780591	-1.92438327	
ZCCHC10	-0.25116509	0.19780591	-1.92437748	
PPM1A	-0.25118606	0.19780591	-1.92454901	
AMIGO1	0.25123698	0.19780591	1.92496542	
BRUNOL5	0.25118628	0.19780591	1.92455080	
VDAC2	-0.25122607	0.19780591	-1.92487621	
DYDC2	-0.25116716	0.19780591	-1.92439444	
CCNT1	-0.25125702	0.19780591	-1.92512931	
NOS1AP	0.25120782	0.19780591	1.92472695	
FLJ30679	0.25109676	0.19789209	1.92381872	
FANCF	-0.25110749	0.19789209	-1.92390646	yes
TMEM136	-0.25109833	0.19789209	-1.92383155	
FOXM1	-0.25111469	0.19789209	-1.92396538	
C6orf125	-0.25106373	0.19797398	-1.92354863	
RYK	-0.25104915	0.19799157	-1.92342941	
LOC375337	0.25101797	0.19800059	1.92317445	
TBC1D7	-0.25103140	0.19800059	-1.92328425	
FTO	-0.25102180	0.19800059	-1.92320577	
NDUFC2	-0.25100560	0.19801050	-1.92307329	
OR56B1	0.25098422	0.19805179	1.92289854	
RTP1	0.25095978	0.19810380	1.92269867	
ARHGAP30	0.25093741	0.19814857	1.92251580	
KIAA1486	0.25092654	0.19815328	1.92242687	
NUP160	-0.25086047	0.19829275	-1.92188668	
FRAG1	-0.25085798	0.19829275	-1.92186639	
CD58	-0.25086668	0.19829275	-1.92193748	
TSPAN2	-0.25081638	0.19831565	-1.92152629	
AFG3L2	-0.25083517	0.19831565	-1.92167989	

MTFMT	-0.25083221	0.19831565	-1.92165568
LOC728613	0.25081334	0.19831565	1.92150144
CLEC7A	0.25079732	0.19833836	1.92137042
LOC100130924	0.25074384	0.19849176	1.92093327
TSEN54	0.25073379	0.19849257	1.92085109
MMGT1	-0.25072459	0.19849257	-1.92077583
USP3	-0.25068706	0.19859038	-1.92046904
SLC27A1	0.25065645	0.19866405	1.92021885
NCBP1	-0.25062160	0.19875254	-1.91993402
LEMD3	-0.25060050	0.19879306	-1.91976150
SH3TC1	0.25057784	0.19883900	1.91957630
IQCD	-0.25052126	0.19888981	-1.91911379
TOR2A	0.25051577	0.19888981	1.91906896
XKR7	0.25053960	0.19888981	1.91926370
RFT1	-0.25053478	0.19888981	-1.91922429
TBC1D5	-0.25054696	0.19888981	-1.91932391
HDGFL1	0.25050241	0.19890328	1.91895978
NPAT	-0.25048246	0.19893982	-1.91879668
RNF128	-0.25046480	0.19896832	-1.91865240
GLT8D1	-0.25042868	0.19897681	-1.91835713
DLEU2L	-0.25042438	0.19897681	-1.91832204
CD1C	-0.25043236	0.19897681	-1.91838723
GCNT3	0.25044184	0.19897681	1.91846467
ODAM	0.25041260	0.19898482	1.91822571
C7orf11	-0.25037696	0.19904774	-1.91793449
KLF16	0.25037561	0.19904774	1.91792344
LOC729135	0.25035408	0.19908985	1.91774745
DAPK3	0.25029969	0.19921367	1.91730301
OR51F1	0.25030681	0.19921367	1.91736121
PWWP2B	0.25026171	0.19923468	1.91699265
BRD7	-0.25028020	0.19923468	-1.91714373
C14orf129	-0.25025574	0.19923468	-1.91694381
IFRG15	-0.25026999	0.19923468	-1.91706032

MED29	0.25022648	0.19927068	1.91670471	
TNNC2	0.25023209	0.19927068	1.91675060	
SFTPC	0.25018088	0.19939706	1.91633208	
EIF4EBP1	0.25014659	0.19941473	1.91605192	
NGDN	-0.25014449	0.19941473	-1.91603473	
TRIM23	-0.25012843	0.19941473	-1.91590353	
ACTN4	-0.25013496	0.19941473	-1.91595694	
C1orf201	-0.25014142	0.19941473	-1.91600967	
NUP98	-0.25010139	0.19947619	-1.91568263	
EXOC5	-0.25008541	0.19949850	-1.91555200	
GLYATL1	0.25007607	0.19949850	1.91547572	
SNORD15B	0.25001778	0.19954859	1.91499951	
hCG_1641703	0.25005189	0.19954859	1.91527818	
DOLK	0.25002689	0.19954859	1.91507391	
ZNF775	0.25001441	0.19954859	1.91497193	yes
BAZ1B	-0.25002346	0.19954859	-1.91504593	
ESM1	0.24998945	0.19959755	1.91476806	
CXorf23	-0.24998149	0.19959755	-1.91470298	
GRK6	0.24996919	0.19960748	1.91460249	
CYP20A1	-0.24995626	0.19961962	-1.91449685	
PARP15	0.24994197	0.19963306	1.91438009	
GABRG3	0.24993349	0.19963306	1.91431088	
RESP18	0.24990849	0.19968748	1.91410661	
BHLHE23	0.24988184	0.19974402	1.91388886	
TNFRSF8	0.24987343	0.19974402	1.91382019	
RHOD	-0.24984461	0.19977870	-1.91358478	
ACYP1	-0.24985358	0.19977870	-1.91365799	
GTPBP1	0.24982986	0.19979726	1.91346424	
ZIC3	0.24981989	0.19979907	1.91338279	
RNF14	-0.24979219	0.19986300	-1.91315650	
FAM111B	-0.24976729	0.19991712	-1.91295312	
OR5211	0.24974112	0.19997570	1.91273938	
S100A14	-0.24970893	0.20005541	-1.91247642	

SF3B3	-0.24962123	0.20006941	-1.91176011	
SFRS12IP1	-0.24966217	0.20006941	-1.91209448	
NCRNA00167	0.24961205	0.20006941	1.91168518	
PIK3C3	-0.24964339	0.20006941	-1.91194114	
TOMM22	-0.24963340	0.20006941	-1.91185952	
BBOX1	-0.24963791	0.20006941	-1.91189634	
TMEM185A	0.24962281	0.20006941	1.91177302	
KRTAP4-4	0.24964510	0.20006941	1.91195507	
MED17	-0.24963737	0.20006941	-1.91189195	
TOMM20	-0.24961049	0.20006941	-1.91167239	
NEO1	-0.24959509	0.20009030	-1.91154662	
C9orf95	-0.24958022	0.20010934	-1.91142518	
NGEF	-0.24955545	0.20016312	-1.91122284	
RPL5	-0.24951038	0.20025497	-1.91085480	
SS18	-0.24951181	0.20025497	-1.91086648	yes
ST6GALNAC5	0.24950004	0.20025815	1.91077034	
C7orf33	0.24942130	0.20046823	1.91012727	
NFKBIL1	0.24942728	0.20046823	1.91017615	
PHF21B	0.24940883	0.20047887	1.91002550	
PSME1	0.24938405	0.20053275	1.90982313	
KCNK3	0.24936731	0.20055844	1.90968638	
MS4A8B	-0.24935384	0.20057261	-1.90957641	
PIP5KL1	0.24933505	0.20060548	1.90942299	
PRSS21	0.24927584	0.20071411	1.90893949	
SMOC1	0.24928390	0.20071411	1.90900531	
FLJ43080	-0.24928555	0.20071411	-1.90901877	
SNORA31	0.24925925	0.20073927	1.90880404	
IGSF5	0.24923722	0.20075197	1.90862418	
PIF1	0.24923679	0.20075197	1.90862067	
GUSBL2	-0.24922646	0.20075516	-1.90853633	
GLUD1	-0.24920267	0.20080566	-1.90834205	
TPRKB	-0.24918792	0.20082438	-1.90822164	
SLC22A7	0.24916539	0.20086071	1.90803768	

CPLP	0.24914933	0.20086071	1.90790658
CDA	0.24915301	0.20086071	1.90793659
FCER2	0.24913638	0.20087315	1.90780080
TTL	-0.24909568	0.20089120	-1.90746859
EGR4	0.24911942	0.20089120	1.90766239
LOC340602	0.24907478	0.20089120	1.90729794
IQWD1	-0.24909626	0.20089120	-1.90747328
ANKRD27	-0.24908480	0.20089120	-1.90737972
KIAA0586	-0.24907572	0.20089120	-1.90730558
CEP250	-0.24903382	0.20090803	-1.90696351
C5orf27	0.24904158	0.20090803	1.90702687
HBM	0.24905865	0.20090803	1.90716620
PSMA4	-0.24903238	0.20090803	-1.90695174
KCNJ3	0.24896245	0.20112071	1.90638093
HELB	0.24893796	0.20117376	1.90618102
GPR143	0.24888382	0.20129805	1.90573905
TOX2	0.24889154	0.20129805	1.90580209
NUDT13	-0.24885803	0.20132265	-1.90552854
HNRNPC	-0.24885957	0.20132265	-1.90554106
TDRD9	0.24882001	0.20133451	1.90521819
HIST1H1C	-0.24881708	0.20133451	-1.90519429
CCDC25	-0.24882334	0.20133451	-1.90524534
ZNF623	-0.24882429	0.20133451	-1.90525309
PLEK	0.24880760	0.20133482	1.90511691
LOC100131112	0.24876350	0.20135785	1.90475694
PGLYRP2	0.24878041	0.20135785	1.90489494
FLJ37543	0.24876913	0.20135785	1.90480293
TBK1	-0.24878764	0.20135785	-1.90495397
GBP4	0.24869519	0.20147653	1.90419942
ZNRF4	0.24871228	0.20147653	1.90433890
UPP2	0.24869634	0.20147653	1.90420883
PLA2G4C	0.24869223	0.20147653	1.90417521
MAGEA10	0.24867919	0.20148939	1.90406880

CPEB2	-0.24865811	0.20150777	-1.90389675
VPS29	-0.24865520	0.20150777	-1.90387307
C1QTNF8	0.24863385	0.20154991	1.90369878
PSORS1C2	0.24860587	0.20158237	1.90347047
DRAM	0.24860462	0.20158237	1.90346023
UGP2	-0.24859649	0.20158237	-1.90339393
SENP6	-0.24856483	0.20159484	-1.90313554
SNORD56B	-0.24856698	0.20159484	-1.90315310
YOD1	-0.24856796	0.20159484	-1.90316106
LRRC55	0.24854268	0.20160685	1.90295475
RNF138	-0.24855096	0.20160685	-1.90302237
NACC2	0.24852504	0.20161051	1.90281081
GCC2	-0.24852290	0.20161051	-1.90279338
MGC24103	-0.24850677	0.20163433	-1.90266172
CC2D2A	-0.24847455	0.20171475	-1.90239882
TREX2	0.24841703	0.20178540	1.90192947
CRIP3	0.24841733	0.20178540	1.90193192
FAM29A	-0.24843561	0.20178540	-1.90208107
ISL2	0.24843884	0.20178540	1.90210744
ANKRD33B	0.24837988	0.20188326	1.90162632
HPS6	0.24835753	0.20192903	1.90144392
PIGZ	0.24832631	0.20200604	1.90118919
TM9SF2	-0.24830563	0.20204591	-1.90102051
HRASLS5	0.24828273	0.20209365	1.90083363
CUTA	0.24826825	0.20211171	1.90071548
CITED4	0.24824920	0.20214588	1.90056006
CTDSPL2	-0.24822932	0.20215061	-1.90039786
TBC1D22B	-0.24822914	0.20215061	-1.90039646
NARS2	-0.24820479	0.20220349	-1.90019779
IL17RA	0.24814239	0.20226028	1.89968869
ENPP7	0.24814194	0.20226028	1.89968499
LCE1A	0.24815988	0.20226028	1.89983136
ENTPD2	0.24816204	0.20226028	1.89984904

PREPL	-0.24814944	0.20226028	-1.89974619	
MGC50273	0.24810589	0.20235443	1.89939093	
ENTHD1	0.24807262	0.20240587	1.89911949	
HNRNPH3	-0.24807441	0.20240587	-1.89913416	
NR4A2	-0.24803610	0.20247746	-1.89882167	
DNAH11	-0.24803363	0.20247746	-1.89880151	
CHIC2	-0.24801596	0.20250687	-1.89865731	
RPP14	-0.24799478	0.20254863	-1.89848458	
ELAVL1	-0.24796020	0.20259532	-1.89820251	
KLHL11	-0.24795353	0.20259532	-1.89814811	
IL17RC	0.24795944	0.20259532	1.89819627	
ZBTB37	-0.24793474	0.20259575	-1.89799483	
C3orf39	0.24793910	0.20259575	1.89803042	
CYB5D1	-0.24788547	0.20263941	-1.89759297	
EXTL2	-0.24789226	0.20263941	-1.89764837	
ASXL2	-0.24788504	0.20263941	-1.89758943	yes
PLAA	-0.24789764	0.20263941	-1.89769222	
SRMS	0.24785797	0.20270201	1.89736865	
LCN6	0.24777450	0.20296385	1.89668787	yes
CTF1	0.24775415	0.20300278	1.89652191	
MRPL19	-0.24773540	0.20303607	-1.89636901	
MSR1	0.24766601	0.20322538	1.89580316	
RAB9B	0.24766319	0.20322538	1.89578017	
ANKDD1A	0.24763824	0.20328064	1.89557670	
CSNK2A1	-0.24760639	0.20336032	-1.89531697	yes
HGF	0.24758472	0.20337100	1.89514025	
PIGB	-0.24758524	0.20337100	-1.89514452	
SNORA6	0.24756224	0.20341757	1.89495691	
SCYE1	-0.24753786	0.20347083	-1.89475817	
TTC17	-0.24752207	0.20347335	-1.89462940	
MAPKAP1	-0.24751850	0.20347335	-1.89460032	
LMLN	-0.24750267	0.20349641	-1.89447119	
SLC10A4	0.24747693	0.20355454	1.89426130	

LOC100127971	0.24745375	0.20355537	1.89407236
DIABLO	-0.24745918	0.20355537	-1.89411664
EIF2B4	0.24744874	0.20355537	1.89403148
TADA3L	-0.24742724	0.20359850	-1.89385620
AGPAT6	0.24736728	0.20371356	1.89336735
TLL1	-0.24736680	0.20371356	-1.89336344
SOX12	0.24737700	0.20371356	1.89344658
NT5M	0.24734688	0.20375115	1.89320101
SND1	0.24733085	0.20377493	1.89307035
BBC3	0.24725493	0.20381310	1.89245142
NHSL2	0.24726260	0.20381310	1.89251388
KCTD8	0.24726896	0.20381310	1.89256577
OTX2	0.24729830	0.20381310	1.89280496
BTF3	-0.24727271	0.20381310	-1.89259632
LRRC31	0.24727649	0.20381310	1.89262717
C14orf2	-0.24729069	0.20381310	-1.89274293
TMEM215	0.24722837	0.20384390	1.89223484
MYO1C	0.24722500	0.20384390	1.89220740
FOXH1	0.24721834	0.20384390	1.89215307
GALNT3	-0.24713981	0.20386115	-1.89151295
ZDHHHC5	-0.24715331	0.20386115	-1.89162296
TMEM41B	-0.24712982	0.20386115	-1.89143153
OR1F1	0.24713130	0.20386115	1.89144357
MAML3	-0.24715145	0.20386115	-1.89160778
LMO3	-0.24714721	0.20386115	-1.89157328
C8orf73	0.24714448	0.20386115	1.89155103
PABPC4	-0.24717954	0.20386115	-1.89183681
ATPIF1	-0.24715693	0.20386115	-1.89165250
OR1M1	0.24712026	0.20386213	1.89135358
DTL	-0.24709101	0.20392741	-1.89111515
SLC30A5	-0.24708325	0.20392741	-1.89105192
UFSP2	-0.24703936	0.20405001	-1.89069416
GBX1	0.24702226	0.20405859	1.89055477

RAPSN	0.24701303	0.20405859	1.89047953	
PSD2	0.24700909	0.20405859	1.89044743	
KIAA1045	0.24696891	0.20413155	1.89011996	yes
FBXO42	-0.24695585	0.20413155	-1.89001351	
WDR48	-0.24695138	0.20413155	-1.88997707	
ZNF91	-0.24697706	0.20413155	-1.89018635	
FAM13C	-0.24691883	0.20421403	-1.88971180	
FAM132A	0.24685331	0.20438058	1.88917778	
PRIC285	0.24685781	0.20438058	1.88921450	
DDX1	-0.24683031	0.20439637	-1.88899032	
CCDC142	0.24683702	0.20439637	1.88904506	
NME3	0.24680907	0.20443881	1.88881724	
SF3B4	0.24675921	0.20453367	1.88841092	
COPS6	-0.24673598	0.20453367	-1.88822164	
LOC145757	0.24674490	0.20453367	1.88829436	
INGX	0.24676051	0.20453367	1.88842155	
MBTD1	-0.24673976	0.20453367	-1.88825243	
FAM170A	0.24669949	0.20459125	1.88792431	
OR4N5	0.24667636	0.20459125	1.88773586	
MFF	-0.24668503	0.20459125	-1.88780644	
LOC65998	0.24668706	0.20459125	1.88782300	
EFHD1	0.24667342	0.20459125	1.88771189	
SPOCD1	0.24663287	0.20470229	1.88738148	
PARP4	-0.24659352	0.20476953	-1.88706081	
KCTD20	-0.24658729	0.20476953	-1.88701003	
CAMK2A	0.24658615	0.20476953	1.88700078	
WNT2	0.24656728	0.20480366	1.88684702	
C6orf170	-0.24654907	0.20483544	-1.88669866	
PRR10	0.24649159	0.20496762	1.88623035	
MDFIC	0.24648409	0.20496762	1.88616921	
CBX4	0.24649161	0.20496762	1.88623046	
PHF20L1	-0.24646163	0.20501454	-1.88598622	
TTC36	0.24641766	0.20502845	1.88562797	

GRAMD4	0.24641146	0.20502845	1.88557747
POU6F1	0.24642215	0.20502845	1.88566462
SPINK1	0.24644500	0.20502845	1.88585075
TRIM15	0.24641815	0.20502845	1.88563201
PRDX3	-0.24638512	0.20505633	-1.88536287
EXOSC4	0.24638918	0.20505633	1.88539597
PYY2	0.24637286	0.20506702	1.88526303
NELL2	-0.24635152	0.20511001	-1.88508916
EIF1AY	-0.24632566	0.20516905	-1.88487851
PEX16	0.24628655	0.20527522	1.88455991
EBI3	0.24621248	0.20544707	1.88395659
AANAT	0.24621102	0.20544707	1.88394468
C6orf223	0.24621050	0.20544707	1.88394046
CLNS1A	-0.24619748	0.20546050	-1.88383443
HTATIP2	-0.24618652	0.20546664	-1.88374512
GTF2H1	-0.24615271	0.20551751	-1.88346975
FAM180B	0.24613527	0.20551751	1.88332769
C17orf102	0.24614043	0.20551751	1.88336970
APOB48R	0.24614859	0.20551751	1.88343618
EVI5L	0.24611953	0.20554065	1.88319949
DLX1	0.24608878	0.20561722	1.88294905
hCG_1645727	0.24606814	0.20565782	1.88278094
CWF19L1	-0.24603335	0.20574880	-1.88249760
LAMC3	0.24598123	0.20590155	1.88207311
UBE2G2	0.24596280	0.20593433	1.88192299
KLHDC8B	0.24594877	0.20595143	1.88180874
HBS1L	-0.24592012	0.20595487	-1.88157539
RPL10P8	0.24592239	0.20595487	1.88159394
C2orf39	-0.24592409	0.20595487	-1.88160777
RPS2P35	0.24590243	0.20596355	1.88143133
WIPI2	-0.24589001	0.20596355	-1.88133018
MAF	0.24589727	0.20596355	1.88138937
TBC1D16	0.24587106	0.20599172	1.88117587

DACT1	0.24586365	0.20599172	1.88111559	
SLC16A8	0.24582517	0.20606312	1.88080222	
C15orf37	0.24583237	0.20606312	1.88086080	
LOC100131496	0.24580201	0.20609723	1.88061358	
RP11-167P23.2	0.24578646	0.20609723	1.88048700	
MED11	-0.24577873	0.20609723	-1.88042405	
ZNF644	-0.24579633	0.20609723	-1.88056734	
C12orf11	-0.24573089	0.20623491	-1.88003451	
CA14	0.24571681	0.20625226	1.87991985	
SIDT1	0.24570135	0.20625275	1.87979396	
SPC25	-0.24569825	0.20625275	-1.87976870	
ZFP62	-0.24564046	0.20642599	-1.87929818	
PSMD13	-0.24562978	0.20643121	-1.87921127	
IQCK	-0.24560112	0.20650059	-1.87897794	
OSCAR	0.24557496	0.20653392	1.87876494	
LOC29034	0.24555495	0.20653392	1.87860202	
LOC441179	0.24557004	0.20653392	1.87872488	
SLC22A14	0.24555937	0.20653392	1.87863802	
TMEM121	0.24554060	0.20655228	1.87848519	
IFITM5	0.24552500	0.20657510	1.87835819	
CXCR5	0.24551565	0.20657562	1.87828207	
LOC100130511	-0.24549518	0.20658298	-1.87811546	
DLK1	0.24550274	0.20658298	1.87817700	
USP16	-0.24545636	0.20660674	-1.87779940	
NEU4	0.24546990	0.20660674	1.87790962	
NKX2-4	0.24546429	0.20660674	1.87786397	
ZNF682	-0.24545173	0.20660674	-1.87776172	
C13orf27	-0.24543742	0.20662499	-1.87764522	
MAP3K3	0.24540771	0.20663260	1.87740333	
C3orf52	-0.24541851	0.20663260	-1.87749130	yes
STK17A	-0.24541411	0.20663260	-1.87745545	
ESCO2	-0.24538845	0.20666852	-1.87724657	
TRAF3IP1	-0.24535343	0.20676072	-1.87696147	

PIBF1	-0.24528100	0.20682310	-1.87637192	
SAAL1	-0.24526904	0.20682310	-1.87627459	
CPT2	-0.24526246	0.20682310	-1.87622105	
C17orf88	0.24530097	0.20682310	1.87653449	
FLJ46358	-0.24526980	0.20682310	-1.87628080	
LOC729808	0.24526776	0.20682310	1.87626421	
PLA2G12A	0.24532477	0.20682310	1.87672823	
INPP4B	-0.24528502	0.20682310	-1.87640464	yes
ATP5S	-0.24524962	0.20683616	-1.87611654	
ARX	0.24519565	0.20695666	1.87567724	
NEK5	-0.24518833	0.20695666	-1.87561770	
ABHD1	0.24520514	0.20695666	1.87575448	
TBCD	0.24516674	0.20700099	1.87544197	
BCCIP	-0.24514438	0.20704809	-1.87525997	
RNF44	0.24509054	0.20714209	1.87482181	
RGS22	-0.24509649	0.20714209	-1.87487019	
PCBP4	0.24509730	0.20714209	1.87487677	yes
CHSY3	0.24508054	0.20714503	1.87474044	
C1orf118	0.24504917	0.20722439	1.87448507	
C19orf71	0.24502191	0.20728901	1.87426330	
LOC346329	0.24500563	0.20729171	1.87413081	
RGMA	0.24499365	0.20729171	1.87403328	
UTF1	0.24500025	0.20729171	1.87408700	
CRLF3	-0.24493022	0.20748572	-1.87351715	
ERCC3	-0.24490163	0.20755521	-1.87328449	
CHN2	-0.24480379	0.20771530	-1.87248840	
MIA2	0.24479085	0.20771530	1.87238312	
ZFP90	-0.24479578	0.20771530	-1.87242324	
TMEM31	0.24483752	0.20771530	1.87276280	
GNAT1	0.24482068	0.20771530	1.87262582	
MYO5C	-0.24475907	0.20771530	-1.87212455	
C16orf61	-0.24477767	0.20771530	-1.87227586	
C16orf57	0.24477103	0.20771530	1.87222185	

TMEM62	-0.24478591	0.20771530	-1.87234290
ZW10	-0.24476898	0.20771530	-1.87220516
TGS1	-0.24475610	0.20771530	-1.87210035
ADIPOQ	0.24473717	0.20775029	1.87194631
LOC100130837	0.24471781	0.20778681	1.87178880
KIFC3	0.24470213	0.20781015	1.87166128
TLE6	0.24465264	0.20795461	1.87125858
RBM12	-0.24461872	0.20797773	-1.87098267
ARSK	-0.24462206	0.20797773	-1.87100979
CAMP	0.24462354	0.20797773	1.87102184
C9orf50	0.24459016	0.20798170	1.87075035
NCF2	-0.24459766	0.20798170	-1.87081131
PARP10	0.24459676	0.20798170	1.87080397
OR10AD1	0.24456376	0.20804352	1.87053551
RASSF2	0.24455320	0.20804857	1.87044964
GREM1	0.24453851	0.20806845	1.87033010
ATP6V0E2	0.24447304	0.20820776	1.86979753
SDHC	-0.24447219	0.20820776	-1.86979066
ZNHIT3	-0.24448644	0.20820776	-1.86990652
MNT	0.24444788	0.20826215	1.86959286
EGLN3	0.24441752	0.20827266	1.86934595
SEC61A1	0.24443414	0.20827266	1.86948114
C7orf44	-0.24442371	0.20827266	-1.86939629
LCN9	0.24440409	0.20828804	1.86923671
GCNT2	-0.24438708	0.20831626	-1.86909836
ULK4	-0.24437724	0.20831880	-1.86901827
LOC100132731	-0.24436363	0.20833484	-1.86890757
SLC25A12	-0.24430790	0.20850191	-1.86845431
LYPD4	0.24425893	0.20852246	1.86805605
ZNF772	-0.24427969	0.20852246	-1.86822487
TMEM90A	0.24425651	0.20852246	1.86803636
C2orf37	-0.24425651	0.20852246	-1.86803633
RRP7B	0.24428074	0.20852246	1.86823338

MRE11A	-0.24424289	0.20853857	-1.86792556	
C8orf51	0.24423228	0.20854040	1.86783931	
TTC29	-0.24422412	0.20854040	-1.86777294	
SDCCAG8	-0.24417435	0.20856791	-1.86736817	
LOC347411	0.24420030	0.20856791	1.86757922	
NUDT9	-0.24418934	0.20856791	-1.86749010	
DSCR6	0.24416287	0.20856791	1.86727478	yes
EAF2	0.24416393	0.20856791	1.86728344	
BRUNOL6	0.24416171	0.20856791	1.86726539	
DOT1L	0.24412791	0.20865643	1.86699052	
GLTPD2	0.24411140	0.20867747	1.86685619	
CRIP1	-0.24410381	0.20867747	-1.86679451	
FOXB2	0.24408548	0.20871054	1.86664542	
SLC10A5	-0.24406970	0.20873445	-1.86651710	
PGF	0.24404892	0.20877630	1.86634813	yes
TBC1D21	0.24399347	0.20887359	1.86589722	
PRO0611	0.24398536	0.20887359	1.86583129	
RPGR	-0.24400737	0.20887359	-1.86601027	
MBOAT4	0.24399378	0.20887359	1.86589975	
C19orf41	0.24388840	0.20889733	1.86504290	
SLC10A6	-0.24393461	0.20889733	-1.86541863	
DIRAS2	0.24389353	0.20889733	1.86508461	
PSG6	0.24395143	0.20889733	1.86555539	
SRP68	-0.24391171	0.20889733	-1.86523247	
LOC728411	-0.24388769	0.20889733	-1.86503714	
UTRN	-0.24389397	0.20889733	-1.86508818	
AMN	0.24393994	0.20889733	1.86546195	
FUT10	-0.24392516	0.20889733	-1.86534184	
NUPL1	-0.24392377	0.20889733	-1.86533047	yes
C4orf22	-0.24387482	0.20890097	-1.86493246	
HERV-FRD	0.24386848	0.20890097	1.86488093	
C1QTNF4	0.24384116	0.20893782	1.86465885	
LNPEP	-0.24383092	0.20893782	-1.86457557	

HDAC8	-0.24383741	0.20893782	-1.86462834	
DOCK1	-0.24374931	0.20904154	-1.86391205	
TIMM9	-0.24372772	0.20904154	-1.86373655	
DKFZp434E1119	0.24370822	0.20904154	1.86357801	
CYP4A22	0.24374979	0.20904154	1.86391594	
ING3	-0.24370911	0.20904154	-1.86358524	
ERMN	0.24378288	0.20904154	1.86418501	
SLC1A7	0.24371562	0.20904154	1.86363820	
BTN1A1	0.24370906	0.20904154	1.86358485	
TOP2A	-0.24370204	0.20904154	-1.86352779	
CACNG1	0.24374043	0.20904154	1.86383990	
CBFB	-0.24375626	0.20904154	-1.86396855	yes
GLDN	-0.24368425	0.20907278	-1.86338320	
UNC5B	-0.24364931	0.20916561	-1.86309912	
CHD1L	-0.24363404	0.20918783	-1.86297499	
C10orf113	-0.24355796	0.20934542	-1.86235651	
FOLR4	0.24357462	0.20934542	1.86249194	
CASC1	-0.24354477	0.20934542	-1.86224928	
RCVRN	0.24354737	0.20934542	1.86227044	
MBTPS1	-0.24356966	0.20934542	-1.86245165	
GNRH2	0.24352281	0.20939169	1.86207083	
IGF2AS	0.24351191	0.20939826	1.86198219	
LOC100133315	-0.24350139	0.20940345	-1.86189668	
DUPD1	0.24348739	0.20942114	1.86178291	
CANT1	0.24347102	0.20942213	1.86164985	
GTPBP3	0.24346897	0.20942213	1.86163321	
SLC26A3	0.24343409	0.20943398	1.86134968	yes
LRRC57	-0.24343934	0.20943398	-1.86139238	
MOBK13	-0.24343383	0.20943398	-1.86134754	
SLC25A41	0.24341127	0.20943398	1.86116421	
APEX1	-0.24342548	0.20943398	-1.86127975	
ZFP14	-0.24341709	0.20943398	-1.86121151	
SENP7	-0.24339695	0.20945285	-1.86104785	

LARS	-0.24337363	0.20950406	-1.86085833
PFKFB4	0.24330961	0.20967444	1.86033802
RNF31	0.24330810	0.20967444	1.86032571
DDX53	0.24326541	0.20976526	1.85997874
DAGLB	-0.24326472	0.20976526	-1.85997315
BCL6B	0.24323919	0.20977387	1.85976566
LOC401557	0.24324704	0.20977387	1.85982952
MYF5	0.24323515	0.20977387	1.85973284
RFPL1	0.24321687	0.20980703	1.85958430
PPP1CC	-0.24317700	0.20991784	-1.85926034
TRIM72	0.24316757	0.20991919	1.85918370
HSF2	-0.24315449	0.20992491	-1.85907737
DCUN1D5	-0.24314788	0.20992491	-1.85902365
GTF2E1	-0.24311674	0.21000435	-1.85877066
FTCD	0.24305691	0.21001923	1.85828443
NEURL2	0.24304927	0.21001923	1.85822240
NUSAP1	-0.24305549	0.21001923	-1.85827291
CHCHD3	-0.24308677	0.21001923	-1.85852711
ELL3	-0.24307251	0.21001923	-1.85841122
OR1D5	0.24306194	0.21001923	1.85832530
ITGB1BP1	-0.24309937	0.21001923	-1.85862945
CARD11	0.24300127	0.21015942	1.85783235
GGN	0.24286068	0.21058849	1.85669014
PTPRQ	-0.24285028	0.21058849	-1.85660559
VAMP1	0.24284597	0.21058849	1.85657063
CCDC126	-0.24284726	0.21058849	-1.85658112
FGF6	0.24283064	0.21061115	1.85644610
SYNGR4	0.24279379	0.21065623	1.85614674
CXorf59	-0.24279392	0.21065623	-1.85614776
ABHD11	-0.24279102	0.21065623	-1.85612417
CLN5	-0.24277947	0.21066528	-1.85603033
FAM3D	0.24276069	0.21066780	1.85587783
SIRT6	0.24276615	0.21066780	1.85592214

KHDC1	0.24273287	0.21073552	1.85565185	
LRRC40	-0.24269926	0.21082414	-1.85537881	
RAB2A	-0.24264954	0.21097095	-1.85497489	
CENPB	0.24260024	0.21101263	1.85457444	
MVD	0.24259282	0.21101263	1.85451419	
RRAGD	-0.24261520	0.21101263	-1.85469598	
KIF18A	-0.24260120	0.21101263	-1.85458225	
SERHL	0.24260013	0.21101263	1.85457358	
FOXF1	0.24253320	0.21116267	1.85402990	
KCNG1	0.24254051	0.21116267	1.85408932	
RDX	-0.24252101	0.21117409	-1.85393088	
STARD4	0.24246769	0.21123624	1.85349782	
DUSP6	0.24247275	0.21123624	1.85353891	
HTR3E	0.24248744	0.21123624	1.85365825	
C19orf35	0.24247063	0.21123624	1.85352172	
FAM9C	0.24243160	0.21126880	1.85320475	yes
DSCR9	0.24244767	0.21126880	1.85333529	
IGDCC4	0.24243520	0.21126880	1.85323396	
ITIH4	0.24238887	0.21137147	1.85285773	
RASL12	0.24238513	0.21137147	1.85282738	yes
HCFC1R1	0.24236041	0.21142820	1.85262659	
FOXD2	0.24233046	0.21150382	1.85238338	
DYDC1	-0.24229890	0.21151318	-1.85212703	
SEC22A	-0.24229181	0.21151318	-1.85206947	
IFT81	-0.24230199	0.21151318	-1.85215217	
GRIN1	0.24229542	0.21151318	1.85209878	
MYH6	0.24227439	0.21154354	1.85192805	
LOC284912	0.24223970	0.21163634	1.85164636	
RNF217	-0.24219900	0.21167016	-1.85131586	
FBXW5	0.24220276	0.21167016	1.85134635	
SNORA43	0.24221290	0.21167016	1.85142873	
RAE1	-0.24219430	0.21167016	-1.85127769	
ECT2	-0.24212948	0.21183943	-1.85075130	

PANK4	0.24213120	0.21183943	1.85076530	
CALN1	0.24211674	0.21185291	1.85064790	
OR11H4	0.24210469	0.21186390	1.85055009	
SNTG1	0.24209347	0.21187193	1.85045895	
SETD1B	0.24202801	0.21204360	1.84992750	yes
C4orf15	-0.24203495	0.21204360	-1.84998380	
AMAC1	0.24201518	0.21205746	1.84982330	
KIRREL	0.24198319	0.21214068	1.84956356	
DPP7	0.24197059	0.21215368	1.84946132	
LOC100133409	-0.24194980	0.21219639	-1.84929247	
ADCY4	0.24191416	0.21222767	1.84900313	
SHISA2	0.24191997	0.21222767	1.84905031	
RPS6KA3	-0.24192276	0.21222767	-1.84907299	
PPAPDC1A	0.24188802	0.21227926	1.84879097	
IDI2	0.24188192	0.21227926	1.84874139	
ME1	-0.24187259	0.21228045	-1.84866569	
FAM49B	-0.24184022	0.21236512	-1.84840289	
TLX2	0.24179662	0.21238554	1.84804901	
OCRL	-0.24177290	0.21238554	-1.84785645	
POLD2	-0.24181605	0.21238554	-1.84820672	
NUP107	-0.24178484	0.21238554	-1.84795334	
ABCG4	0.24181184	0.21238554	1.84817256	
SUOX	-0.24178656	0.21238554	-1.84796727	
CACNB3	-0.24177164	0.21238554	-1.84784618	
HSPA14	-0.24175663	0.21240733	-1.84772439	
PSMA6	-0.24171832	0.21251357	-1.84741341	
FZD7	0.24170008	0.21254712	1.84726533	
EDN2	0.24167741	0.21256416	1.84708130	
ZDHHC8	0.24168562	0.21256416	1.84714799	
TP53BP2	-0.24165140	0.21259332	-1.84687017	
GTF3C4	-0.24165976	0.21259332	-1.84693806	
SERBP1	-0.24162215	0.21266677	-1.84663277	
KCNK13	0.24159072	0.21274350	1.84637771	

UPF3B	-0.24156765	0.21274350	-1.84619048	
TARBP1	-0.24156506	0.21274350	-1.84616947	
TMEM163	0.24157005	0.21274350	1.84620991	
C16orf59	0.24154559	0.21278157	1.84601138	
PRO0628	0.24149741	0.21285864	1.84562037	
PTP4A3	0.24150799	0.21285864	1.84570627	
CACHD1	-0.24150424	0.21285864	-1.84567580	
PGBD3	-0.24146839	0.21293134	-1.84538487	
PDCD4	-0.24142270	0.21306456	-1.84501408	
DEPDC1	-0.24141274	0.21306812	-1.84493329	
LOC100130507	0.24127020	0.21335634	1.84377660	
FAM122A	-0.24128926	0.21335634	-1.84393120	
OR1L8	0.24129624	0.21335634	1.84398787	
CARD8	0.24126933	0.21335634	1.84376950	
GRM4	0.24130522	0.21335634	1.84406074	
KRTAP10-12	0.24126160	0.21335634	1.84370682	
C12orf44	0.24126855	0.21335634	1.84376319	
CIR	-0.24126633	0.21335634	-1.84374519	
GSC2	0.24123471	0.21338889	1.84348860	
C9orf144	0.24124347	0.21338889	1.84355967	
DIRC1	0.24118964	0.21348492	1.84312294	
TMEM188	-0.24117517	0.21348492	-1.84300547	
RTKN	0.24117242	0.21348492	1.84298323	
BTC	-0.24119723	0.21348492	-1.84318450	
LOC728285	0.24112129	0.21363820	1.84256832	
TTC30B	-0.24106917	0.21376254	-1.84214546	
P2RX2	0.24107556	0.21376254	1.84219733	
ACVR1C	0.24102395	0.21386183	1.84177861	
COX7A2L	-0.24102931	0.21386183	-1.84182214	
TBX3	0.24097547	0.21397304	1.84138532	
TGFB111	0.24098192	0.21397304	1.84143768	yes
GDF10	0.24095278	0.21399040	1.84120129	
PCDHGA4	0.24096144	0.21399040	1.84127149	

MYNN	-0.24094211	0.21399666	-1.84111469	
CD2AP	-0.24089249	0.21411207	-1.84071219	
SECISBP2L	-0.24089292	0.21411207	-1.84071565	
HHLA1	0.24083865	0.21413713	1.84027542	
C15orf21	0.24086192	0.21413713	1.84046421	
LIN9	-0.24083191	0.21413713	-1.84022073	
PEX13	-0.24085266	0.21413713	-1.84038908	yes
EPB41L5	-0.24083721	0.21413713	-1.84026379	
RANBP2	-0.24084538	0.21413713	-1.84032999	
IGHV3-33	0.24080434	0.21417236	1.83999710	
RPH3AL	0.24080450	0.21417236	1.83999840	
FUT5	0.24078281	0.21421816	1.83982251	
ASL	0.24077204	0.21422481	1.83973514	
SBK2	0.24074550	0.21428890	1.83951984	
OR56B4	0.24067921	0.21440007	1.83898216	
CASP14	0.24068460	0.21440007	1.83902589	
GALNT1	-0.24069774	0.21440007	-1.83913249	
ABLIM2	0.24068141	0.21440007	1.83900004	
MGAT3	0.24062657	0.21455927	1.83855530	
ANKAR	-0.24060539	0.21459281	-1.83838347	
NCAPH2	0.24059056	0.21459281	1.83826320	
GALNTL1	0.24059862	0.21459281	1.83832860	yes
SLC39A3	0.24057789	0.21460640	1.83816047	
FGF13	-0.24054699	0.21468649	-1.83790984	
ARPP-21	0.24050479	0.21473935	1.83756765	yes
NKX2-6	0.24046938	0.21473935	1.83728052	
ADRB2	0.24046579	0.21473935	1.83725139	
EVI2A	0.24047187	0.21473935	1.83730070	
HOXB9	0.24050235	0.21473935	1.83754788	
ANKRD58	0.24047049	0.21473935	1.83728944	
ROR2	0.24050346	0.21473935	1.83755689	
CNTLN	-0.24046104	0.21473935	-1.83721283	
ZNF738	-0.24043117	0.21481570	-1.83697063	

UBR5	-0.24039437	0.21491735	-1.83667223
C14orf56	0.24038202	0.21492985	1.83657206
SCYL2	-0.24036462	0.21496075	-1.83643101
TNIP1	0.24034685	0.21497902	1.83628689
DEFB121	0.24034177	0.21497902	1.83624569
C8orf38	-0.24032381	0.21501199	-1.83610005
OR51A2	0.24030500	0.21501551	1.83594755
IWS1	-0.24030871	0.21501551	-1.83597762
SNORD113-4	0.24028563	0.21505366	1.83579046
TMEM59	-0.24025749	0.21512379	-1.83556233
ZSCAN29	-0.24024731	0.21512838	-1.83547981
MDH1B	-0.24019532	0.21518723	-1.83505826
NFIB	0.24020089	0.21518723	1.83510347
MAP4K2	0.24019961	0.21518723	1.83509309
PRHOXNB	0.24020040	0.21518723	1.83509944
ADAM20	-0.24018661	0.21518723	-1.83498768
TRIM17	0.24016821	0.21522185	1.83483851
LOC100133372	0.24002348	0.21526857	1.83366518
LOC100131848	0.24003479	0.21526857	1.83375683
PRPF8	-0.24002096	0.21526857	-1.83364470
PWP1	-0.24000584	0.21526857	-1.83352215
GIMAP7	0.24013424	0.21526857	1.83456304
STRA13	0.24008404	0.21526857	1.83415612
GJA5	0.24010278	0.21526857	1.83430799
EIF3K	-0.24003313	0.21526857	-1.83374342
RNASE13	0.24005066	0.21526857	1.83388550
RNF150	0.24009881	0.21526857	1.83427587
SLC12A3	0.24000406	0.21526857	1.83350772
TBCE	-0.24009983	0.21526857	-1.83428410
SLC30A2	0.24014238	0.21526857	1.83462910
EFCAB1	-0.24004531	0.21526857	-1.83384212
AP3D1	0.24004089	0.21526857	1.83380625
UBA3	-0.24003687	0.21526857	-1.83377370

G3BP2	-0.24005877	0.21526857	-1.83395122	
FLJ46321	0.23998024	0.21532303	1.83331464	
C22orf30	-0.23994451	0.21542100	-1.83302496	
PGLYRP1	0.23992995	0.21544168	1.83290698	
DUSP4	0.23989201	0.21554775	1.83259943	
SRA1	0.23985025	0.21566781	1.83226095	
CCDC103	-0.23984090	0.21566950	-1.83218512	
SLC3A1	0.23982431	0.21569288	1.83205068	
LOC728997	0.23981672	0.21569288	1.83198914	
LOC100133402	0.23978812	0.21576489	1.83175736	
IGHMBP2	0.23976406	0.21582033	1.83156239	
ATP8B2	0.23974307	0.21585826	1.83139227	
CCDC90A	-0.23973591	0.21585826	-1.83133422	
LYSMD3	-0.23969381	0.21597969	-1.83099303	
C12orf12	0.23965479	0.21603653	1.83067679	
GABRR1	0.23965162	0.21603653	1.83065105	
SNORA13	0.23966274	0.21603653	1.83074119	
LOC100133397	0.23961627	0.21607711	1.83036457	yes
UBAP2	-0.23961805	0.21607711	-1.83037905	
C6orf132	-0.23961387	0.21607711	-1.83034518	
SLMO1	0.23959646	0.21610834	1.83020404	
C19orf60	0.23958057	0.21613399	1.83007526	
GPRIN1	0.23957017	0.21613956	1.82999097	
NF1	-0.23952900	0.21625769	-1.82965738	
COL20A1	0.23950085	0.21632822	1.82942930	
MPL	0.23948565	0.21635139	1.82930606	
SLC44A1	-0.23944716	0.21636234	-1.82899417	
CYSLTR2	0.23944839	0.21636234	1.82900416	
ORAI1	0.23946250	0.21636234	1.82911851	
AP1S2	0.23946105	0.21636234	1.82910674	
IL17F	0.23941600	0.21639562	1.82874173	
ZNF790	-0.23941145	0.21639562	-1.82870486	
KRT75	0.23941830	0.21639562	1.82876039	

AHSA2	-0.23937782	0.21643432	-1.82843233	
CTTN	-0.23935229	0.21643432	-1.82822549	
RAB26	0.23932185	0.21643432	1.82797889	
HILS1	0.23935025	0.21643432	1.82820901	
FAM89A	0.23939178	0.21643432	1.82854550	
WDR52	-0.23932109	0.21643432	-1.82797274	
SCO1	-0.23932742	0.21643432	-1.82802403	
HNF1A	0.23932519	0.21643432	1.82800593	
KCNE2	0.23933033	0.21643432	1.82804759	
TIGD1	-0.23925936	0.21662788	-1.82747260	
DLGAP4	0.23923513	0.21668418	1.82727629	
CEP27	-0.23922285	0.21669672	-1.82717678	
THAP6	-0.23918938	0.21672197	-1.82690565	
TRPM7	-0.23919227	0.21672197	-1.82692900	
ATL2	-0.23920562	0.21672197	-1.82703722	
DAP3	-0.23915877	0.21680169	-1.82665762	yes
ZFP91	-0.23913821	0.21684456	-1.82649109	
SRP19	0.23909679	0.21696393	1.82615553	
C1orf96	0.23906575	0.21698034	1.82590410	
MFSD6L	0.23907940	0.21698034	1.82601471	
IL1F8	0.23907190	0.21698034	1.82595389	
PDSS1	-0.23903046	0.21707726	-1.82561826	
FRMD5	0.23900968	0.21712102	1.82544990	
FN3KRP	-0.23899815	0.21713086	-1.82535649	
WDR32	-0.23897077	0.21719881	-1.82513473	
DNAH7	-0.23891291	0.21727305	-1.82466604	
RGS4	-0.23892953	0.21727305	-1.82480066	
ABCE1	-0.23893246	0.21727305	-1.82482445	
THPO	0.23890968	0.21727305	1.82463993	
ZNF469	0.23890630	0.21727305	1.82461250	
SLC16A13	-0.23887328	0.21728726	-1.82434510	
ETV2	0.23889275	0.21728726	1.82450282	
RAB3A	0.23886705	0.21728726	1.82429462	

MRPS14	-0.23887776	0.21728726	-1.82438135	
CRISP3	0.23879537	0.21735586	1.82371404	
GSX1	0.23882059	0.21735586	1.82391831	
EIF4E1B	0.23881851	0.21735586	1.82390151	
ACP1	-0.23880909	0.21735586	-1.82382515	
WDR78	-0.23882728	0.21735586	-1.82397250	
UBE2CBP	-0.23879532	0.21735586	-1.82371369	
C6orf221	0.23874678	0.21744847	1.82332058	
IGHV1-45	0.23872710	0.21744847	1.82316121	
HDGFRP3	-0.23873592	0.21744847	-1.82323259	
RSL24D1	-0.23874284	0.21744847	-1.82328868	
MFSD7	0.23872591	0.21744847	1.82315157	
FAM54A	-0.23867507	0.21754699	-1.82273981	
MAPK12	0.23868087	0.21754699	1.82278674	
CBLN1	0.23867258	0.21754699	1.82271966	
EIF3I	-0.23862718	0.21768125	-1.82235201	
ZNF391	-0.23858814	0.21776692	-1.82203589	
M6PR	-0.23858620	0.21776692	-1.82202015	
PI16	0.23857029	0.21778517	1.82189135	
TMEM102	0.23856358	0.21778517	1.82183698	
PLEKHO1	0.23852585	0.21786346	1.82153143	
TAL1	0.23852462	0.21786346	1.82152149	yes
TARSL2	0.23847549	0.21793016	1.82112366	
LOC145814	0.23845473	0.21793016	1.82095561	
IMMP1L	-0.23849020	0.21793016	-1.82124280	
NANOS1	0.23845653	0.21793016	1.82097015	
TTC35	-0.23845354	0.21793016	-1.82094593	
DDX46	-0.23845725	0.21793016	-1.82097599	
ATP9A	-0.23838886	0.21793505	-1.82042224	
C18orf18	0.23841391	0.21793505	1.82062505	
C5orf38	0.23835567	0.21793505	1.82015356	
C6orf165	-0.23838856	0.21793505	-1.82041980	
LOC202051	-0.23838441	0.21793505	-1.82038622	

WDR21B	0.23834985	0.21793505	1.82010645
MAP1S	0.23842653	0.21793505	1.82072723
USP36	0.23842547	0.21793505	1.82071869
AMAC1L3	0.23835458	0.21793505	1.82014470
RP4-692D3.1	-0.23834646	0.21793505	-1.82007898
B3GNT9	0.23837709	0.21793505	1.82032695
CD69	0.23840417	0.21793505	1.82054621
PLA2G15	0.23830692	0.21801654	1.81975886
AIRE	0.23830667	0.21801654	1.81975680
TRAF2	0.23829049	0.21804361	1.81962586
SIL1	0.23827237	0.21804552	1.81947914
SHOX2	0.23827641	0.21804552	1.81951187
FAM171A2	0.23824721	0.21810560	1.81927550
NCOA6	-0.23823040	0.21810872	-1.81913937
ZNF141	-0.23822876	0.21810872	-1.81912613
SEC24B	-0.23821068	0.21812470	-1.81897974
SRPX2	-0.23815665	0.21812470	-1.81854234
LOC284900	0.23819124	0.21812470	1.81882237
TFPT	0.23816320	0.21812470	1.81859534
GYPE	0.23814527	0.21812470	1.81845020
HOXA10	0.23818273	0.21812470	1.81875346
SLC34A1	0.23820481	0.21812470	1.81893223
ZNF17	-0.23815484	0.21812470	-1.81852766
FGF23	0.23814700	0.21812470	1.81846425
BANF2	0.23813033	0.21814729	1.81832927
FTH1	-0.23810362	0.21818084	-1.81811306
LOC645769	0.23810454	0.21818084	1.81812050
DCST1	0.23805357	0.21819838	1.81770793
C11orf67	-0.23806738	0.21819838	-1.81781970
RAB24	0.23803736	0.21819838	1.81757672
TADA2L	-0.23804309	0.21819838	-1.81762314
ZIC5	0.23805968	0.21819838	1.81775741
RSPH1	-0.23807991	0.21819838	-1.81792114

ZNF518A	-0.23808415	0.21819838	-1.81795550	
BAIAP2L2	0.23802031	0.21822875	1.81743872	
ADRB3	0.23799938	0.21827338	1.81726935	
FCRL4	0.23798254	0.21828457	1.81713298	
DGCR6L	0.23797878	0.21828457	1.81710261	
PGLYRP3	-0.23788013	0.21848589	-1.81630415	
DHX15	-0.23788485	0.21848589	-1.81634236	
ARHGDI1A	0.23790310	0.21848589	1.81649003	
PLEKHA1	-0.23788954	0.21848589	-1.81638033	
RLF	-0.23788306	0.21848589	-1.81632782	
C10orf119	-0.23786390	0.21851332	-1.81617276	
SNCB	0.23784167	0.21856280	1.81599284	
ATOX1B	0.23782406	0.21856303	1.81585038	
CCDC45	-0.23783259	0.21856303	-1.81591936	
SNX16	-0.23778990	0.21865642	-1.81557388	
FOXJ3	-0.23776802	0.21870462	-1.81539686	
GABRB1	0.23768857	0.21884501	1.81475391	
C16orf84	0.23768944	0.21884501	1.81476089	
NAPB	-0.23768603	0.21884501	-1.81473336	
UBE2D1	-0.23769418	0.21884501	-1.81479932	
OSMR	0.23772015	0.21884501	1.81500941	
FAM69B	0.23764899	0.21891786	1.81443357	yes
NEK11	-0.23764871	0.21891786	-1.81443134	
SGCZ	0.23763135	0.21894948	1.81429090	
VPS13D	-0.23758290	0.21903411	-1.81389881	
VNN2	0.23758407	0.21903411	1.81390830	
NR1H3	0.23758208	0.21903411	1.81389221	
TMCC1	-0.23754982	0.21905489	-1.81363115	
GJA3	0.23755911	0.21905489	1.81370637	
C2orf82	0.23754140	0.21905489	1.81356307	
CENPN	-0.23754900	0.21905489	-1.81362450	
AGBL5	-0.23748610	0.21922630	-1.81311560	
LOC389634	0.23746643	0.21926650	1.81295647	

S100Z	0.23744007	0.21933136	1.81274320
RNPEP	-0.23742607	0.21935069	-1.81262993
LOC729862	0.23739016	0.21945078	1.81233939
UNQ353	-0.23729546	0.21945264	-1.81157324
LOC100128626	0.23728468	0.21945264	1.81148601
HUWE1	-0.23728842	0.21945264	-1.81151629
TMEM120B	0.23728610	0.21945264	1.81149757
DRD3	0.23731857	0.21945264	1.81176024
TFIP11	-0.23735858	0.21945264	-1.81208386
C20orf26	-0.23729219	0.21945264	-1.81154682
PFN3	0.23733801	0.21945264	1.81191745
ZNF562	-0.23731836	0.21945264	-1.81175852
BFSP2	0.23728587	0.21945264	1.81149563
NRG2	0.23729838	0.21945264	1.81159685
PLEKHM1	-0.23731395	0.21945264	-1.81172285
SNORA1	0.23726693	0.21948583	1.81134243
MOBK1A	-0.23724579	0.21953152	-1.81117143
FAM110C	0.23722233	0.21958576	1.81098168
UBE2Z	-0.23718687	0.21962354	-1.81069478
RSPO3	0.23718587	0.21962354	1.81068671
ZNF616	-0.23718765	0.21962354	-1.81070115
CCRL2	0.23713775	0.21976877	1.81029744
CACNG8	0.23708087	0.21990636	1.80983741
RBBP5	-0.23707695	0.21990636	-1.80980569
CA4	0.23707424	0.21990636	1.80978376
IGFBP1	0.23703953	0.21991755	1.80950300
ZNF710	0.23704234	0.21991755	1.80952575
LOC388906	0.23703708	0.21991755	1.80948323
FLJ45983	0.23703627	0.21991755	1.80947666
PLA2G2F	0.23702582	0.21992390	1.80939212
KPNB1	-0.23699248	0.21998579	-1.80912252
MCM3	-0.23699158	0.21998579	-1.80911523
SLC32A1	0.23696338	0.22005767	1.80888712

DSC2	-0.23692335	0.22014099	-1.80856340
MAGEC2	0.23693199	0.22014099	1.80863328
LOC151174	0.23687510	0.22022248	1.80817316
XDH	0.23688082	0.22022248	1.80821943
RIC3	0.23688935	0.22022248	1.80828839
ZDHHC6	-0.23685145	0.22027760	-1.80798190
HSPC152	-0.23673100	0.22066715	-1.80700783
SNRPD1	-0.23672859	0.22066715	-1.80698840
C14orf179	-0.23670862	0.22068476	-1.80682685
DHDH	0.23670638	0.22068476	1.80680879
RNU12	0.23666171	0.22081774	1.80644757
FRAT2	0.23664881	0.22083319	1.80634327
EZH2	-0.23658596	0.22092969	-1.80583509
PSD4	0.23659808	0.22092969	1.80593309
KCNIP2	0.23657913	0.22092969	1.80577983
PPCDC	0.23659355	0.22092969	1.80589649
NYX	0.23660358	0.22092969	1.80597754
XCL1	0.23656370	0.22093453	1.80565507
NCOR1	-0.23656038	0.22093453	-1.80562827
SSX8	0.23652336	0.22103929	1.80532895
ANKIB1	-0.23649820	0.22106790	-1.80512553
SLC35B4	-0.23650642	0.22106790	-1.80519195
TEX28	0.23648538	0.22108311	1.80502185
TNRC6B	-0.23646558	0.22109735	-1.80486184
KCNS2	0.23645539	0.22109735	1.80477943
TRIM52	0.23645581	0.22109735	1.80478285
CETP	0.23643991	0.22109970	1.80465427
CDK5R2	0.23643734	0.22109970	1.80463346
GALR1	0.23637429	0.22129276	1.80412378
CDKAL1	-0.23636778	0.22129276	-1.80407115
SNORD115-8	0.23628756	0.22129972	1.80342266
UPRT	-0.23629093	0.22129972	-1.80344986
C10orf91	0.23635538	0.22129972	1.80397092

EVPL	-0.23630531	0.22129972	-1.80356616	
SCMH1	0.23629727	0.22129972	1.80350118	
TTLL6	-0.23630965	0.22129972	-1.80360125	
NLRP9	0.23631745	0.22129972	1.80366427	
LIPC	0.23629200	0.22129972	1.80345853	
INTS9	-0.23633549	0.22129972	-1.80381008	
KIFAP3	-0.23626444	0.22135314	-1.80323575	
PQLC2	0.23624500	0.22139292	1.80307861	
UCP1	0.23619341	0.22155184	1.80266160	
LIPE	0.23617449	0.22155749	1.80250867	
OR2AE1	0.23617796	0.22155749	1.80253670	
RPL36	0.23615746	0.22158837	1.80237101	
SNORA36C	0.23609708	0.22173315	1.80188298	
TMPRSS12	0.23609232	0.22173315	1.80184452	
CNTN3	-0.23610421	0.22173315	-1.80194059	
ZNF184	-0.23606222	0.22181251	-1.80160127	
NAP1L1	-0.23603767	0.22187136	-1.80140279	
FAM12B	0.23602717	0.22187806	1.80131793	
COX11P	-0.23597366	0.22197984	-1.80088548	
CARD10	0.23598689	0.22197984	1.80099244	yes
LOC389493	0.23597597	0.22197984	1.80090420	
DCBLD2	-0.23592905	0.22203533	-1.80052495	
SLFNL1	0.23594084	0.22203533	1.80062024	
MOCS1	0.23592395	0.22203533	1.80048374	
S100A2	-0.23593166	0.22203533	-1.80054610	
C17orf70	0.23586227	0.22223205	1.79998528	
DYNLRB2	-0.23585120	0.22224089	-1.79989584	
VTCN1	-0.23580079	0.22239585	-1.79948850	
FAM163B	0.23576855	0.22248336	1.79922801	
SFRS16	0.23570306	0.22255374	1.79869878	
FCGRT	0.23571027	0.22255374	1.79875708	
PACSIN1	0.23570947	0.22255374	1.79875058	
PSMC5	-0.23569751	0.22255374	-1.79865398	

CA11	0.23573289	0.22255374	1.79893982	
POLDIP3	-0.23570613	0.22255374	-1.79872364	
IL17RD	0.23564543	0.22267532	1.79823317	
PSMD8	-0.23564419	0.22267532	-1.79822314	
PSKH2	0.23563877	0.22267532	1.79817930	
PKD1L1	0.23561263	0.22267569	1.79796816	
ZNF146	-0.23561919	0.22267569	-1.79802118	
MRP63	-0.23562296	0.22267569	-1.79805160	yes
IFT172	-0.23558286	0.22275414	-1.79772759	
RP11-631M21.2	0.23555459	0.22279473	1.79749922	
LOC728606	0.23555886	0.22279473	1.79753369	
CCDC85B	0.23551264	0.22291851	1.79716029	
THUMPD2	-0.23543784	0.22316462	-1.79655600	
PARN	-0.23540193	0.22323372	-1.79626593	
CXCL6	0.23541003	0.22323372	1.79633138	
EXT1	-0.23534889	0.22326978	-1.79583746	
ATIC	-0.23536822	0.22326978	-1.79599362	
VPS36	-0.23537035	0.22326978	-1.79601084	
COPZ2	0.23536252	0.22326978	1.79594757	yes
RIN1	0.23535153	0.22326978	1.79585879	
DCD	0.23532643	0.22328889	1.79565598	
CEACAM19	0.23532679	0.22328889	1.79565893	
GGPS1	-0.23531177	0.22331118	-1.79553762	
MYCBP2	-0.23530128	0.22331799	-1.79545285	
LOC791120	0.23529142	0.22332242	1.79537324	
SEPP1	-0.23525384	0.22343015	-1.79506965	
SLC22A12	0.23524406	0.22343057	1.79499064	
LGALS8	-0.23523640	0.22343057	-1.79492878	
BCL2L10	0.23520366	0.22347782	1.79466436	
GALNT8	0.23519159	0.22347782	1.79456683	
MRPS15	-0.23519016	0.22347782	-1.79455529	
C19orf52	0.23518907	0.22347782	1.79454652	
BOP1	0.23516483	0.22350364	1.79435069	

HEATR5A	-0.23517318	0.22350364	-1.79441818
MAPK8IP2	0.23514285	0.22355328	1.79417316
SIVA1	0.23510896	0.22359777	1.79389949
FLJ41733	0.23510494	0.22359777	1.79386702
ZNF444	0.23510988	0.22359777	1.79390689
KRTAP8-1	0.23505647	0.22368369	1.79347552
MS4A7	0.23506832	0.22368369	1.79357123
RGS6	0.23505593	0.22368369	1.79347117
MT1A	0.23504399	0.22369594	1.79337475
VWCE	0.23503450	0.22369908	1.79329808
PACRG	-0.23498001	0.22380203	-1.79285803
CCDC111	-0.23499754	0.22380203	-1.79299964
PASK	-0.23496796	0.22380203	-1.79276078
KISS1	0.23496835	0.22380203	1.79276387
ZFAND6	-0.23496364	0.22380203	-1.79272586
SLC6A8	0.23493398	0.22381592	1.79248635
BXDC1	-0.23494812	0.22381592	-1.79260050
SYT12	0.23493969	0.22381592	1.79253248
DUSP19	-0.23479834	0.22389903	-1.79139105
C1QL2	0.23482478	0.22389903	1.79160451
RILPL2	0.23487918	0.22389903	1.79204378
RUFY3	-0.23481108	0.22389903	-1.79149390
ALK	0.23488290	0.22389903	1.79207385
MAT2B	-0.23487503	0.22389903	-1.79201034
APOA4	0.23481457	0.22389903	1.79152213
IGF2	0.23478959	0.22389903	1.79132035
KIF5C	0.23478215	0.22389903	1.79126033
ARGFX	0.23481363	0.22389903	1.79151451
PAK3	0.23480659	0.22389903	1.79145767
SPA17	-0.23490007	0.22389903	-1.79221247
HAO1	0.23479213	0.22389903	1.79134093
S1PR2	0.23478215	0.22389903	1.79126029
TBC1D27	0.23483902	0.22389903	1.79171949

FLJ40235	0.23474249	0.22401469	1.79094010	
SLC2A9	0.23472421	0.22405069	1.79079248	
MMP25	0.23470363	0.22406355	1.79062628	
SLC25A22	0.23470351	0.22406355	1.79062532	
RP11-408E5.4	0.23467845	0.22412482	1.79042302	
DKK2	0.23465543	0.22417850	1.79023718	
FSCN2	0.23461493	0.22427368	1.78991016	
ICOS	0.23461267	0.22427368	1.78989194	
TIAM1	-0.23457082	0.22436910	-1.78955407	
KIAA1644	0.23456986	0.22436910	1.78954627	
hCG_17324	-0.23450716	0.22453879	-1.78904010	
TAF5L	-0.23451363	0.22453879	-1.78909235	yes
GGNBP2	-0.23449573	0.22454928	-1.78894781	
BPNT1	-0.23448200	0.22456836	-1.78883698	
MGC21881	0.23442166	0.22474155	1.78834990	
MRPL41	0.23441839	0.22474155	1.78832353	
OR14C36	0.23438517	0.22480129	1.78805533	
OXTR	-0.23438981	0.22480129	-1.78809282	
LOC388882	0.23436601	0.22484069	1.78790066	
LRRTM3	0.23434588	0.22485151	1.78773818	
HN1L	-0.23435439	0.22485151	-1.78780688	
HTT	-0.23432121	0.22491151	-1.78753905	
FAM32A	-0.23427853	0.22503886	-1.78719457	
CHAT	0.23409241	0.22505908	1.78569244	
DIDO1	-0.23415385	0.22505908	-1.78618827	
C6orf150	0.23410146	0.22505908	1.78576547	
WDR66	-0.23418419	0.22505908	-1.78643311	
E2F7	-0.23411071	0.22505908	-1.78584009	
PDE12	-0.23411312	0.22505908	-1.78585958	
OR6T1	0.23409427	0.22505908	1.78570743	
CLDN15	0.23412122	0.22505908	1.78592487	
CABYR	-0.23426355	0.22505908	-1.78707363	
CKAP2	-0.23424951	0.22505908	-1.78696035	

AMY2B	-0.23413709	0.22505908	-1.78605300
CCDC59	-0.23411351	0.22505908	-1.78586272
SEMA5B	0.23416198	0.22505908	1.78625386
L1TD1	0.23410201	0.22505908	1.78576986
USP35	0.23412235	0.22505908	1.78593406
RAC1	-0.23422214	0.22505908	-1.78673946
ELOVL1	-0.23421562	0.22505908	-1.78668678
SLC10A1	0.23422472	0.22505908	1.78676024
SNORD49B	-0.23415089	0.22505908	-1.78616436
ZNF671	0.23418812	0.22505908	1.78646483
C12orf32	-0.23420475	0.22505908	-1.78659907
INSM2	0.23407730	0.22508345	1.78557044
NPW	0.23406055	0.22511391	1.78543532
GEMIN8	-0.23404961	0.22512269	-1.78534703
STX4	0.23403664	0.22513906	1.78524234
TMEM161B	-0.23402227	0.22514853	-1.78512638
ATP8B1	-0.23401328	0.22514853	-1.78505380
RAB11FIP3	0.23400834	0.22514853	1.78501391
HHLA2	-0.23397716	0.22520086	-1.78476234
KPNA1	-0.23397854	0.22520086	-1.78477342
HELQ	-0.23393990	0.22528789	-1.78446162
TUBGCP6	0.23393671	0.22528789	1.78443591
ARHGAP5	-0.23389477	0.22529169	-1.78409747
NTRK3	0.23389277	0.22529169	1.78408137
SNORA71D	0.23391064	0.22529169	1.78422553
PRPF4	-0.23390343	0.22529169	-1.78416734
HSPB9	0.23390539	0.22529169	1.78418320
WISP3	0.23385292	0.22540863	1.78375979
MOGAT1	0.23383239	0.22542123	1.78359413
FAM164C	-0.23383708	0.22542123	-1.78363201
PAGE2	0.23379503	0.22549678	1.78329273
CUL5	-0.23379904	0.22549678	-1.78332505
GP9	0.23375818	0.22553649	1.78299532

XKR8	0.23374154	0.22553649	1.78286111	
NMRAL1	0.23374674	0.22553649	1.78290303	
TARBP2	0.23375874	0.22553649	1.78299986	
BZW1	-0.23377071	0.22553649	-1.78309649	
OR2B11	0.23372666	0.22556010	1.78274101	yes
ZNF572	-0.23369848	0.22563343	-1.78251370	
CTSC	-0.23366593	0.22572318	-1.78225107	
ASB8	-0.23354876	0.22578923	-1.78130580	
CYP2D6	0.23361230	0.22578923	1.78181843	
DCK	-0.23357642	0.22578923	-1.78152899	
FAM9A	0.23356622	0.22578923	1.78144663	
UBR1	-0.23355937	0.22578923	-1.78139143	
C19orf30	0.23359550	0.22578923	1.78168288	
P2RY6	0.23360056	0.22578923	1.78172370	
PRKCB	0.23354548	0.22578923	1.78127934	
PELI2	-0.23362125	0.22578923	-1.78189064	
CHST8	0.23357132	0.22578923	1.78148780	
SSFA2	-0.23356997	0.22578923	-1.78147694	
S1PR4	0.23357225	0.22578923	1.78149530	
LOC440015	0.23353597	0.22579277	1.78120264	
GP1BA	0.23352500	0.22580179	1.78111414	
IL3	0.23347012	0.22597519	1.78067143	
PLEKHB2	-0.23344204	0.22604829	-1.78044492	
SH2B1	0.23341867	0.22607171	1.78025641	
KLHL10	0.23342281	0.22607171	1.78028978	
C9orf79	0.23338663	0.22615966	1.77999800	
KIF2B	0.23332603	0.22635471	1.77950917	
SNORD116-16	0.23329044	0.22642398	1.77922212	
BAX	0.23329359	0.22642398	1.77924748	
TBP	-0.23324912	0.22654688	-1.77888880	
PAX3	0.23323785	0.22655704	1.77879793	
C10orf28	-0.23321095	0.22662587	-1.77858096	
SMPDL3A	-0.23315111	0.22670151	-1.77809834	

GTSF1L	0.23315984	0.22670151	1.77816878	
ANAPC2	0.23316133	0.22670151	1.77818080	
NEFM	0.23315773	0.22670151	1.77815180	
RPS23	-0.23314802	0.22670151	-1.77807346	
TMSB10	0.23313275	0.22672672	1.77795033	
LHX2	0.23312198	0.22673504	1.77786348	
DEFB119	0.23309718	0.22674014	1.77766350	
SLC22A11	0.23309498	0.22674014	1.77764571	
UGCG	-0.23310960	0.22674014	-1.77776364	
COX16	-0.23307062	0.22679947	-1.77744928	
FBLN2	0.23303194	0.22691258	1.77713737	
REV3L	-0.23301995	0.22692097	-1.77704066	
THOC5	-0.23301262	0.22692097	-1.77698152	
PRSS16	0.23297868	0.22701560	1.77670783	
C2orf76	-0.23293147	0.22701560	-1.77632720	
SCGB1C1	0.23292716	0.22701560	1.77629245	
HFE2	0.23293044	0.22701560	1.77631886	
CALHM1	0.23294781	0.22701560	1.77645893	
OR10G3	0.23293923	0.22701560	1.77638972	
RLBP1	0.23291908	0.22701560	1.77622730	
ECHDC3	0.23296890	0.22701560	1.77662901	
PARK7	-0.23287885	0.22713463	-1.77590287	
PAPD4	-0.23285694	0.22713743	-1.77572626	
LGSN	-0.23285249	0.22713743	-1.77569038	
HHAT	-0.23286346	0.22713743	-1.77577876	
TMEM139	0.23276081	0.22714856	1.77495114	
C11orf84	0.23275614	0.22714856	1.77491351	
LOC150763	0.23275986	0.22714856	1.77494353	
ENPEP	0.23283925	0.22714856	1.77558358	yes
FAM149A	-0.23277433	0.22714856	-1.77506019	
PHF10	-0.23276854	0.22714856	-1.77501345	
INF2	0.23281205	0.22714856	1.77536426	
BEST1	0.23282748	0.22714856	1.77548865	

ZNF131	-0.23281452	0.22714856	-1.77538416
RNASEH2C	0.23275570	0.22714856	1.77490999
POLR1B	-0.23275789	0.22714856	-1.77492762
NPC1L1	0.23272208	0.22724282	1.77463889
ALOX12P2	-0.23268255	0.22735930	-1.77432017
FPR1	0.23265966	0.22741329	1.77413563
C1orf213	0.23263676	0.22744848	1.77395104
STAC2	0.23263324	0.22744848	1.77392271
CPT1C	0.23261638	0.22746284	1.77378672
HISPPD1	-0.23260671	0.22746284	-1.77370879
FLJ43950	0.23260341	0.22746284	1.77368220
HPCAL4	0.23259534	0.22746284	1.77361716
CMKLR1	0.23254807	0.22751247	1.77323606
DNAJC4	0.23255116	0.22751247	1.77326097
MKLN1	-0.23257313	0.22751247	-1.77343806
LRRIQ1	-0.23254895	0.22751247	-1.77324318
DPP8	-0.23253215	0.22754029	-1.77310776
KCNG3	0.23249061	0.22756846	1.77277286
GLRA4	0.23249097	0.22756846	1.77277583
TLR8	0.23249828	0.22756846	1.77283472
TSGA14	-0.23250373	0.22756846	-1.77287867
TXNL4B	-0.23247440	0.22759738	-1.77264222
LOC100132014	0.23241687	0.22772015	1.77217851
SHROOM1	0.23241621	0.22772015	1.77217320
LDHAL6A	0.23242404	0.22772015	1.77223632
CHRNA7	0.23235883	0.22787195	1.77171067
KLHDC7A	0.23236666	0.22787195	1.77177384
AGBL1	-0.23232988	0.22789485	-1.77147736
FBXL7	-0.23231804	0.22789485	-1.77138190
PRG2-1	0.23231021	0.22789485	1.77131885
RFX7	-0.23231791	0.22789485	-1.77138090
TPM4	0.23232137	0.22789485	1.77140879
ST7L	-0.23229358	0.22792544	-1.77118477

PRR13	0.23227263	0.22797227	1.77101592
RSRC2	-0.23225372	0.22801142	-1.77086353
DNAJC8	-0.23224172	0.22802458	-1.77076683
TFEB	0.23221656	0.22808726	1.77056406
CXorf22	-0.23214333	0.22817100	-1.76997387
TWISTNB	-0.23215625	0.22817100	-1.77007800
ERGIC3	-0.23218335	0.22817100	-1.77029641
WRNIP1	-0.23214504	0.22817100	-1.76998766
NDST4	0.23216651	0.22817100	1.77016072
ZNF14	-0.23216521	0.22817100	-1.77015024
KIAA0319L	-0.23212033	0.22822560	-1.76978851
MYBPH	0.23209325	0.22829554	1.76957032
TOB1	-0.23203483	0.22833381	-1.76909953
CASC4	-0.23203882	0.22833381	-1.76913166
MARK2	-0.23204633	0.22833381	-1.76919225
STK36	-0.23206317	0.22833381	-1.76932787
MGC39545	0.23204875	0.22833381	1.76921169
C3orf1	-0.23203214	0.22833381	-1.76907786
OGG1	0.23202275	0.22833678	1.76900218
TCF3	0.23201438	0.22833678	1.76893472
TBX10	0.23200508	0.22833849	1.76885980
C18orf56	0.23199695	0.22833849	1.76879430
C4orf23	-0.23195403	0.22846812	-1.76844850
FHOD1	0.23191507	0.22858294	1.76813452
CHML	-0.23189996	0.22860788	-1.76801281
CDH3	0.23186705	0.22866797	1.76774761
COQ9	-0.23187417	0.22866797	-1.76780499
ZDHHC4	-0.23185843	0.22866847	-1.76767819
C16orf75	0.23184387	0.22868297	1.76756087
EME1	0.23183762	0.22868297	1.76751052
GDI2	-0.23179518	0.22875444	-1.76716855
RARA	0.23179996	0.22875444	1.76720710
SON	-0.23179322	0.22875444	-1.76715278

C20orf12	-0.23176856	0.22881540	-1.76695415
ZNF414	0.23172562	0.22894535	1.76660816
GCDH	0.23169583	0.22902572	1.76636817
LGTN	-0.23168279	0.22904293	-1.76626313
TINP1	-0.23166985	0.22905380	-1.76615890
PKD2	-0.23166296	0.22905380	-1.76610335
LOC100131120	0.23157694	0.22910339	1.76541043
HINT3	-0.23158839	0.22910339	-1.76550268
UNC13A	0.23158357	0.22910339	1.76546381
KCNG2	0.23158926	0.22910339	1.76550963
MYO15A	0.23159034	0.22910339	1.76551834
BAT4	0.23159480	0.22910339	1.76555427
DOCK8	0.23157357	0.22910339	1.76538328
TM4SF5	0.23164115	0.22910339	1.76592768
SAMD1	0.23163252	0.22910339	1.76585818
SNORA71B	0.23148022	0.22917617	1.76463130
GSDMA	0.23149308	0.22917617	1.76473489
OR6C75	0.23150748	0.22917617	1.76485090
ACBD7	-0.23152809	0.22917617	-1.76501689
LOC440934	0.23150148	0.22917617	1.76480260
NBN	-0.23151661	0.22917617	-1.76492442
ABHD5	-0.23147631	0.22917617	-1.76459983
RARG	-0.23149033	0.22917617	-1.76471278
SOS1	-0.23148968	0.22917617	-1.76470753
TMEM22	0.23146965	0.22917617	1.76454620
GAS1	0.23144004	0.22922783	1.76430765
CCDC130	0.23143904	0.22922783	1.76429963
UBE2D2	-0.23142265	0.22925776	-1.76416760
SLC35D3	0.23137823	0.22939344	1.76380982
ELF2	-0.23131241	0.22956639	-1.76327975
SNORA71C	0.23130821	0.22956639	1.76324591
GPR172A	0.23130704	0.22956639	1.76323649
USP44	0.23126511	0.22966087	1.76289880

ZBTB22	0.23126978	0.22966087	1.76293638	
C20orf123	0.23125578	0.22966417	1.76282369	
OR6K2	0.23124469	0.22967414	1.76273436	
ARPC5	-0.23120404	0.22976631	-1.76240695	
IMMT	-0.23117804	0.22976631	-1.76219759	
FCAR	0.23120068	0.22976631	1.76237987	
EFEMP2	0.23118553	0.22976631	1.76225790	yes
FLJ78302	0.23118726	0.22976631	1.76227185	
DNASE1L2	0.23115323	0.22978697	1.76199779	
FOLR3	0.23114723	0.22978697	1.76194948	
CRKRS	-0.23115593	0.22978697	-1.76201950	
BICD2	-0.23112517	0.22983840	-1.76177182	
KRTAP1-3	0.23107435	0.22999850	1.76136263	
COL3A1	0.23105598	0.23001812	1.76121470	
LGI4	0.23105227	0.23001812	1.76118484	
RPL23AP37	0.23104164	0.23002563	1.76109917	
KCNRG	-0.23103340	0.23002563	-1.76103287	
LTC4S	0.23101728	0.23005465	1.76090308	
RPL23AP32	0.23099431	0.23010958	1.76071810	
MRPL44	-0.23097920	0.23012107	-1.76059640	
COLEC11	0.23097439	0.23012107	1.76055773	
C2orf43	-0.23093786	0.23019539	-1.76026356	
SMO	0.23094376	0.23019539	1.76031110	
AASS	0.23089989	0.23021465	1.75995784	
NPAL1	-0.23088235	0.23021465	-1.75981660	
FCGR2A	0.23087567	0.23021465	1.75976286	
SNRNP200	-0.23086530	0.23021465	-1.75967932	
MC4R	0.23089318	0.23021465	1.75990381	
ZNF691	0.23087193	0.23021465	1.75973277	
RAP1B	-0.23086906	0.23021465	-1.75970961	
CMIP	-0.23090925	0.23021465	-1.76003320	
ZPLD1	0.23083923	0.23028132	1.75946946	
GPR112	0.23078213	0.23043391	1.75900976	

IL1F10	0.23078202	0.23043391	1.75900891	
SLC16A12	0.23077253	0.23043794	1.75893247	
ADSL	-0.23073530	0.23052723	-1.75863275	
C1orf94	0.23073207	0.23052723	1.75860676	
CHCHD1	-0.23066492	0.23071762	-1.75806615	
FRMPD1	0.23066938	0.23071762	1.75810209	
TRIM10	0.23059787	0.23071968	1.75752644	
FOXP4	0.23060288	0.23071968	1.75756674	
CPA1	0.23056824	0.23071968	1.75728794	
C11orf40	0.23062135	0.23071968	1.75771547	
SASS6	-0.23055813	0.23071968	-1.75720656	
LRRC63	-0.23053932	0.23071968	-1.75705514	
H3F3B	-0.23058880	0.23071968	-1.75745339	
C2orf46	0.23061745	0.23071968	1.75768402	
LCN10	0.23052125	0.23071968	1.75690968	yes
MEOX2	0.23053733	0.23071968	1.75703915	
SERPINB10	-0.23064499	0.23071968	-1.75790574	
CTNNBIP1	0.23063861	0.23071968	1.75785439	
C2orf84	0.23054079	0.23071968	1.75706694	
ZNF703	0.23057045	0.23071968	1.75730567	
LMAN2L	-0.23055878	0.23071968	-1.75721174	
SYN3	0.23061848	0.23071968	1.75769231	
ALG2	0.23052225	0.23071968	1.75691771	
C14orf45	-0.23045949	0.23092160	-1.75641261	
CEND1	0.23040949	0.23107913	1.75601015	
ICAM5	0.23037454	0.23117970	1.75572882	
RPS6KB1	-0.23036599	0.23118022	-1.75566002	
SPRR4	0.23035119	0.23120443	1.75554090	
FOXI1	0.23032984	0.23125348	1.75536907	
IL26	0.23031593	0.23127432	1.75525713	
MBD6	0.23028815	0.23128402	1.75503354	
SILV	0.23030186	0.23128402	1.75514389	
SLC9A3	0.23029047	0.23128402	1.75505225	

RPL29P15	-0.23026033	0.23132817	-1.75480970	
KRTAP3-1	0.23025969	0.23132817	1.75480452	
CEP120	-0.23018517	0.23155995	-1.75420483	
FUT1	0.23016565	0.23155995	1.75404779	
NGB	0.23016494	0.23155995	1.75404208	
CDC73	-0.23018039	0.23155995	-1.75416641	
NCAM1	0.23010922	0.23160694	1.75359368	
C17orf59	0.23009376	0.23160694	1.75346924	
ZCWPW1	-0.23010961	0.23160694	-1.75359682	
TYW1	-0.23013489	0.23160694	-1.75380020	
S100A8	-0.23010884	0.23160694	-1.75359061	
SNORA61	0.23012910	0.23160694	1.75375362	
NT5C1A	0.23009628	0.23160694	1.75348950	
LSM6	-0.23006326	0.23162683	-1.75322382	
ZFP1	-0.23005493	0.23162683	-1.75315682	
CDC14C	0.23006592	0.23162683	1.75324521	
BRD3	0.23007267	0.23162683	1.75329956	
ZNF267	-0.23002138	0.23165860	-1.75288684	
CA8	0.23003527	0.23165860	1.75299864	
RNF112	0.23002298	0.23165860	1.75289971	
ARHGEF7	-0.22998586	0.23175944	-1.75260104	
EFTUD2	-0.22997801	0.23175944	-1.75253792	
NUFIP2	-0.22996293	0.23178482	-1.75241659	yes
RP13-102H20.1	0.22995361	0.23178838	1.75234154	
ZNF430	-0.22993751	0.23181764	-1.75221201	
ARPC3	-0.22981003	0.23185609	-1.75118640	
TIGD4	-0.22988824	0.23185609	-1.75181565	
FHL2	0.22986771	0.23185609	1.75165043	
RRAS2	0.22989136	0.23185609	1.75184074	
NPTXR	0.22985508	0.23185609	1.75154884	
AIPL1	0.22986229	0.23185609	1.75160687	
C12orf70	0.22990994	0.23185609	1.75199019	
C6orf226	0.22982523	0.23185609	1.75130871	

ATP2B3	0.22988601	0.23185609	1.75179771
MS4A4A	0.22985905	0.23185609	1.75158077
MUPCDH	0.22982415	0.23185609	1.75130004
SOHLH2	0.22982784	0.23185609	1.75132972
FN3K	0.22981380	0.23185609	1.75121671
CTAGE1	0.22983440	0.23185609	1.75138251
SNORD116-4	0.22977451	0.23195907	1.75090064
FAM155B	0.22968165	0.23208905	1.75015363
SLC15A3	0.22970179	0.23208905	1.75031568
NLK	-0.22972755	0.23208905	-1.75052289
ELP3	-0.22970400	0.23208905	-1.75033344
AICDA	0.22969139	0.23208905	1.75023203
UBE2D3	-0.22968167	0.23208905	-1.75015383
CCK	0.22971800	0.23208905	1.75044602
LOC100132080	0.22959491	0.23218244	1.74945587
CLASP1	-0.22960884	0.23218244	-1.74956792
CEACAM16	0.22960995	0.23218244	1.74957686
NOS3	0.22962872	0.23218244	1.74972786
HAPLN2	0.22962969	0.23218244	1.74973564
WNT10B	0.22959011	0.23218244	1.74941728
ALDH5A1	-0.22961742	0.23218244	-1.74963701
FIBCD1	0.22959773	0.23218244	1.74947862
ALDH3B2	-0.22957688	0.23218371	-1.74931091
ENTPD6	0.22957305	0.23218371	1.74928004
NBPF7	0.22955663	0.23221429	1.74914799
C3orf46	0.22953536	0.23226330	1.74897689
ZNF229	-0.22952570	0.23226824	-1.74889917
DUSP13	0.22946161	0.23247984	1.74838375
YES1	-0.22944967	0.23249344	-1.74828773
AP1M2	-0.22934735	0.23259963	-1.74746474
CLPS	0.22934415	0.23259963	1.74743904
DHX8	-0.22931311	0.23259963	-1.74718944
GABPB1	-0.22931394	0.23259963	-1.74719604

NCR3	0.22933595	0.23259963	1.74737307	
SNORD35A	0.22941292	0.23259963	1.74799209	
SLC46A3	-0.22934012	0.23259963	-1.74740660	
HDC	0.22938705	0.23259963	1.74778408	
C22orf36	0.22933232	0.23259963	1.74734392	
SNRPG	-0.22938828	0.23259963	-1.74779392	
RBM42	0.22932858	0.23259963	1.74731384	
DCHS1	0.22936866	0.23259963	1.74763616	
NAPG	-0.22936159	0.23259963	-1.74757931	
CSHL1	0.22929799	0.23262539	1.74706777	
ACTR2	-0.22925511	0.23275657	-1.74672301	
PHLDA1	0.22921745	0.23280455	1.74642011	
AHI1	-0.22922699	0.23280455	-1.74649685	
UBA52	-0.22922145	0.23280455	-1.74645226	
C21orf88	0.22918899	0.23288102	1.74619123	
SNX18	0.22917033	0.23291373	1.74604121	
C19orf68	0.22914701	0.23291373	1.74585365	
COG6	-0.22914873	0.23291373	-1.74586755	
KIAA1109	-0.22915776	0.23291373	-1.74594013	
FBXO22	-0.22907990	0.23313720	-1.74531407	
SCARB1	0.22905355	0.23320571	1.74510221	
LOC100129563	-0.22903985	0.23321293	-1.74499199	
CYB5B	-0.22903497	0.23321293	-1.74495282	
C1orf168	-0.22901426	0.23321431	-1.74478628	
OLFML2B	0.22902461	0.23321431	1.74486953	
TPRXL	-0.22900959	0.23321431	-1.74474872	
NEK10	-0.22897435	0.23331667	-1.74446542	
NTNG2	0.22896469	0.23332170	1.74438775	
GPR6	0.22895240	0.23333676	1.74428890	
LOC100133345	-0.22888722	0.23336001	-1.74376489	
POLR3C	-0.22887962	0.23336001	-1.74370380	yes
KTI12	-0.22890252	0.23336001	-1.74388792	
GJA8	0.22892550	0.23336001	1.74407262	

C4orf3	-0.22892197	0.23336001	-1.74404426
ARL6IP4	0.22891246	0.23336001	1.74396782
ZNF224	-0.22888253	0.23336001	-1.74372716
ATF7IP2	-0.22890262	0.23336001	-1.74388872
ITIH3	0.22885441	0.23342426	1.74350111
MPI	0.22882965	0.23348681	1.74330205
TXNRD2	0.22881603	0.23349712	1.74319253
SNX11	0.22881028	0.23349712	1.74314636
SNORD115-34	0.22879310	0.23349914	1.74300823
USP51	-0.22879901	0.23349914	-1.74305576
EFHC1	-0.22875079	0.23350180	-1.74266804
CHODL	0.22877480	0.23350180	1.74286109
TMPRSS9	0.22875824	0.23350180	1.74272795
ZNF606	-0.22875174	0.23350180	-1.74267574
KIAA0644	0.22875478	0.23350180	1.74270014
KRTAP5-11	0.22873272	0.23353891	1.74252278
SLC39A13	0.22871691	0.23356741	1.74239572
RNF111	-0.22870417	0.23358421	-1.74229335
CENPA	0.22867902	0.23358499	1.74209112
FKBP7	0.22869401	0.23358499	1.74221166
SNAI1	0.22868486	0.23358499	1.74213809
SLC26A1	0.22865762	0.23358561	1.74191914
TPPP3	-0.22865576	0.23358561	-1.74190414
ENPP2	0.22865391	0.23358561	1.74188930
RPS26P54	0.22863265	0.23363490	1.74171839
RP11-265F14.2	0.22860294	0.23368471	1.74147956
KIFC2	0.22860660	0.23368471	1.74150904
SEC16A	0.22859027	0.23370129	1.74137776
TTC23L	-0.22852803	0.23382222	-1.74087747
CYP1A2	0.22850866	0.23382222	1.74072177
PATE1	0.22852299	0.23382222	1.74083695
NEDD4L	-0.22854415	0.23382222	-1.74100705
GPR123	0.22853398	0.23382222	1.74092531

GAL3ST3	0.22850951	0.23382222	1.74072865	
SCRT2	0.22849070	0.23385895	1.74057748	
TRDMT1	-0.22847658	0.23388111	-1.74046396	
GSC	0.22843571	0.23400516	1.74013549	
C12orf63	-0.22842321	0.23402115	-1.74003500	
LELP1	0.22833365	0.23418840	1.73931522	
LDOC1	0.22834902	0.23418840	1.73943880	
ABCC1	-0.22834633	0.23418840	-1.73941716	
UBAP1	-0.22832509	0.23418840	-1.73924648	
SNORA42	0.22833662	0.23418840	1.73933914	
APOL5	0.22832120	0.23418840	1.73921521	
SLC7A7	0.22833093	0.23418840	1.73929340	
MCF2	0.22831079	0.23418944	1.73913158	
CALML4	-0.22830433	0.23418944	-1.73907965	
TAS2R49	-0.22823981	0.23440379	-1.73856116	
MGC16025	0.22818538	0.23457977	1.73812378	
C16orf13	0.22816547	0.23462407	1.73796381	
PPTC7	-0.22809140	0.23484539	-1.73736859	
FADS6	0.22808643	0.23484539	1.73732871	
NDP	0.22808261	0.23484539	1.73729795	
GRIN3A	0.22806618	0.23487554	1.73716597	
OIT3	0.22804982	0.23487554	1.73703453	
SCNN1D	0.22805008	0.23487554	1.73703661	
ESRRA	0.22802238	0.23494866	1.73681405	
EEF1B2	0.22794239	0.23519095	1.73617134	
GPR31	0.22794875	0.23519095	1.73622251	
CHRNA2	0.22785470	0.23546285	1.73546685	
NPR1	0.22785863	0.23546285	1.73549845	
SLBP	-0.22784613	0.23546389	-1.73539803	
NT5DC1	-0.22781563	0.23549986	-1.73515301	
DDA1	0.22782730	0.23549986	1.73524678	
IQCG	-0.22781185	0.23549986	-1.73512261	
NFATC4	0.22779231	0.23554287	1.73496570	yes

NFIC	0.22778334	0.23554548	1.73489362
C2orf51	0.22774891	0.23559814	1.73461701
MATN1	0.22775357	0.23559814	1.73465449
ARL6	-0.22774471	0.23559814	-1.73458330
SHISA4	0.22764068	0.23566766	1.73374767
CIDCEP	0.22768035	0.23566766	1.73406631
CYP4Z2P	0.22762714	0.23566766	1.73363887
TNFAIP8	-0.22763232	0.23566766	-1.73368049
RFC2	-0.22764392	0.23566766	-1.73377365
BUB1	-0.22763816	0.23566766	-1.73372740
TSC22D4	0.22769744	0.23566766	1.73420359
NCK2	-0.22770587	0.23566766	-1.73427131
ZC3H10	0.22765736	0.23566766	1.73388160
CIRH1A	-0.22768665	0.23566766	-1.73411691
LGALS12	0.22765724	0.23566766	1.73388065
DYRK4	0.22765283	0.23566766	1.73384524
CCDC60	-0.22756976	0.23572883	-1.73317806
OPLAH	0.22757475	0.23572883	1.73321812
ACOX1	-0.22758990	0.23572883	-1.73333979
PLA2G7	0.22757280	0.23572883	1.73320246
FAM107B	0.22759448	0.23572883	1.73337659
KRTAP21-2	0.22755770	0.23574332	1.73308118
SPATA17	-0.22754218	0.23575063	-1.73295648
DEF6	0.22753925	0.23575063	1.73293294
OR6S1	0.22751307	0.23581426	1.73272267
MED13	-0.22750607	0.23581426	-1.73266650
NME5	-0.22746340	0.23593247	-1.73232378
UBE3C	-0.22745865	0.23593247	-1.73228560
PARP3	0.22744106	0.23593499	1.73214431
C11orf58	-0.22734836	0.23593499	-1.73139985
AMDHD1	0.22724896	0.23593499	1.73060161
HIPK4	0.22724568	0.23593499	1.73057532
IGFL2	0.22730525	0.23593499	1.73105366

FGF8	0.22735417	0.23593499	1.73144657	
FGF9	-0.22724416	0.23593499	-1.73056307	
DNAJC13	-0.22740187	0.23593499	-1.73182962	
ZAR1	0.22725437	0.23593499	1.73064509	
CDKL4	-0.22734145	0.23593499	-1.73134442	
FLJ44881	0.22736338	0.23593499	1.73152049	
LOR	0.22735416	0.23593499	1.73144646	
CCDC88C	-0.22724326	0.23593499	-1.73055585	
DYNC1LI1	-0.22740449	0.23593499	-1.73185066	
EXD3	0.22727216	0.23593499	1.73078795	yes
BANK1	0.22741205	0.23593499	1.73191137	
KIAA1217	-0.22731121	0.23593499	-1.73110154	
POLE4	0.22736653	0.23593499	1.73154580	
METTL14	-0.22724427	0.23593499	-1.73056396	
ZNF23	-0.22738301	0.23593499	-1.73167811	
SPEF2	-0.22729465	0.23593499	-1.73096852	
MFRP	0.22735800	0.23593499	1.73147728	
TTBK1	0.22727412	0.23593499	1.73080368	
MYO18B	0.22739284	0.23593499	1.73175711	
RDH16	0.22728081	0.23593499	1.73085741	
CYTH1	-0.22743192	0.23593499	-1.73207092	
C6orf106	-0.22719917	0.23607212	-1.73020183	
LTBR	0.22710223	0.23639695	1.72942342	
P2RY4	0.22709064	0.23639695	1.72933038	
DGAT2	0.22708959	0.23639695	1.72932194	
LRRC8B	-0.22705086	0.23648213	-1.72901100	yes
N-PAC	-0.22705653	0.23648213	-1.72905656	
GPR139	0.22699981	0.23664618	1.72860110	
CFHR5	0.22699069	0.23664952	1.72852792	
DNAJC11	-0.22697469	0.23667927	-1.72839941	
LOC100131170	0.22694213	0.23674087	1.72813801	
CES4	-0.22694266	0.23674087	-1.72814228	
C19orf45	0.22692548	0.23677312	1.72800432	

IFNW1	0.22689882	0.23681209	1.72779037
LOC648822	-0.22690270	0.23681209	-1.72782150
PPP1R16B	0.22688625	0.23682871	1.72768943
SLC22A20	0.22687702	0.23683252	1.72761528
CYP39A1	-0.22684900	0.23690836	-1.72739039
GNG13	0.22683483	0.23693111	1.72727662
OR51Q1	0.22673341	0.23728876	1.72646246
PTPN23	0.22669794	0.23729838	1.72617777
C8orf44	-0.22670882	0.23729838	-1.72626508
C6orf225	-0.22670503	0.23729838	-1.72623464
HORMAD1	-0.22670948	0.23729838	-1.72627040
NKAPL	0.22667384	0.23732768	1.72598429
ANKRD57	-0.22667440	0.23732768	-1.72598884
PTH2	0.22665938	0.23735157	1.72586824
SLC17A4	0.22663226	0.23742408	1.72565060
C9orf66	0.22659406	0.23753923	1.72534392
C16orf86	0.22656330	0.23759414	1.72509704
CNTD2	0.22656928	0.23759414	1.72514504
OR10A3	0.22652998	0.23767123	1.72482963
TEPP	0.22651925	0.23767123	1.72474353
LOC401357	0.22651151	0.23767123	1.72468137
L2HGDH	-0.22651031	0.23767123	-1.72467175
MDFI	0.22648528	0.23773578	1.72447091
CRYGB	0.22647486	0.23773689	1.72438727
MRGPRG	0.22646853	0.23773689	1.72433647
HSD17B7P2	-0.22643991	0.23781532	-1.72410672
RPL29P8	0.22633676	0.23803281	1.72327893
GAS2L1	0.22633890	0.23803281	1.72329617
CXorf41	-0.22633779	0.23803281	-1.72328721
F13B	0.22633151	0.23803281	1.72323684
C10orf35	0.22631115	0.23803281	1.72307341
TEX9	-0.22634555	0.23803281	-1.72334946
ABHD10	-0.22630932	0.23803281	-1.72305872

UBXN8	-0.22631519	0.23803281	-1.72310589
RASSF7	0.22635021	0.23803281	1.72338687
CHST12	0.22628722	0.23805456	1.72288138
NIF3L1	-0.22629364	0.23805456	-1.72293296
EID3	-0.22626671	0.23809073	-1.72271683
IRX4	0.22626137	0.23809073	1.72267400
RPL3L	0.22623903	0.23814508	1.72249468
FBLN5	0.22621836	0.23815177	1.72232885
IQCF1	0.22620506	0.23815177	1.72222216
KRTAP5-6	0.22621806	0.23815177	1.72232644
ERAP2	0.22620441	0.23815177	1.72221694
ART5	0.22619069	0.23817297	1.72210680
IGF2BP1	0.22614658	0.23818467	1.72175287
RNF187	0.22615547	0.23818467	1.72182423
C14orf178	0.22614939	0.23818467	1.72177541
PNMA6A	0.22616870	0.23818467	1.72193035
NMT2	-0.22615795	0.23818467	-1.72184411
CLDND1	-0.22612133	0.23821861	-1.72155032
SMARCC1	-0.22612473	0.23821861	-1.72157761
KCNJ15	0.22611302	0.23821903	1.72148358
SYT6	0.22606988	0.23822712	1.72113746
CYLC1	0.22606999	0.23822712	1.72113835
OTP	0.22609083	0.23822712	1.72130553
PABPC1	-0.22609698	0.23822712	-1.72135488
NTSR1	0.22608010	0.23822712	1.72121949
C12orf48	-0.22604646	0.23828563	-1.72094959
C11orf54	-0.22601673	0.23836845	-1.72071107
NBPF22P	0.22599790	0.23837778	1.72055997
MMP15	0.22599907	0.23837778	1.72056935
LCE1C	0.22594093	0.23856548	1.72010295
KPNA5	-0.22589533	0.23870951	-1.71973710
NTN3	0.22588486	0.23871823	1.71965313
SNRNP35	-0.22585371	0.23877506	-1.71940318

STRA6	0.22585882	0.23877506	1.71944421	
SPAG17	-0.22583975	0.23879724	-1.71929122	
FAM134B	-0.22582905	0.23880685	-1.71920542	
ATCD1	0.22575291	0.23906875	1.71859457	
BRD4	0.22573369	0.23907961	1.71844041	
PARVA	-0.22573925	0.23907961	-1.71848500	
PDK2	-0.22570834	0.23914575	-1.71823705	
TBC1D2B	-0.22564225	0.23914775	-1.71770698	
EIF2C1	-0.22564612	0.23914775	-1.71773806	
ATP5EP2	-0.22564646	0.23914775	-1.71774077	
ZFYVE1	-0.22569800	0.23914775	-1.71815415	
PROC	0.22567397	0.23914775	1.71796139	
C21orf62	0.22567663	0.23914775	1.71798273	
USP45	-0.22565681	0.23914775	-1.71782374	
SEMA5A	-0.22565935	0.23914775	-1.71784415	
RNF181	0.22561257	0.23923059	1.71746896	
DUSP15	0.22558833	0.23929250	1.71727452	
OR7D4	0.22555749	0.23934829	1.71702712	
HTR2C	0.22555973	0.23934829	1.71704515	
RGS13	0.22554504	0.23936472	1.71692728	
NLGN3	0.22552932	0.23939377	1.71680119	
MAML1	0.22552017	0.23939748	1.71672782	
C9orf64	-0.22551028	0.23940403	-1.71664853	
APLNR	0.22540432	0.23947759	1.71579876	
GPR82	0.22545802	0.23947759	1.71622936	
NRBP2	0.22538484	0.23947759	1.71564252	
ZFP57	0.22539560	0.23947759	1.71572882	
ZNF749	-0.22545339	0.23947759	-1.71619228	
SAMD12	-0.22546865	0.23947759	-1.71631464	
RSRC1	-0.22540785	0.23947759	-1.71582703	
CAB39	-0.22547625	0.23947759	-1.71637557	
ECHDC1	-0.22542754	0.23947759	-1.71598493	yes
DEPDC6	0.22542109	0.23947759	1.71593318	

TSPAN8	-0.22538855	0.23947759	-1.71567226	
TYMS	-0.22543505	0.23947759	-1.71604513	
ONECUT2	0.22541411	0.23947759	1.71587720	
NUDT12	-0.22537118	0.23949875	-1.71553297	
CSDA	-0.22526425	0.23987992	-1.71467551	
SRFBP1	-0.22524596	0.23991899	-1.71452882	
ADCYAP1	0.22518871	0.24010859	1.71406977	
TCIRG1	0.22516811	0.24015660	1.71390461	
ATP1B3	-0.22514778	0.24018070	-1.71374155	
IL18R1	0.22514552	0.24018070	1.71372347	
C20orf141	0.22510994	0.24025506	1.71343815	
ISOC2	0.22511574	0.24025506	1.71348469	
SLC8A3	0.22509981	0.24026260	1.71335695	
FGF14	-0.22505008	0.24042329	-1.71295827	
C19orf26	0.22499621	0.24060011	1.71252633	
PCDHAC1	0.22498756	0.24060193	1.71245703	
DDX51	0.22495709	0.24065659	1.71221273	
SERTAD4	-0.22496354	0.24065659	-1.71226443	
DENND1B	-0.22494074	0.24065660	-1.71208167	
AMH	0.22494233	0.24065660	1.71209441	
FOXO4	0.22492011	0.24070484	1.71191625	
DNM1L	-0.22490680	0.24072471	-1.71180959	
ISCU	-0.22488865	0.24076335	-1.71166409	
C15orf60	0.22479614	0.24084056	1.71092246	yes
GRB14	0.22479743	0.24084056	1.71093282	
FIGNL2	0.22479521	0.24084056	1.71091501	
SMAD1	-0.22485152	0.24084056	-1.71136641	
IFIT1L	0.22481202	0.24084056	1.71104972	
TMEM160	0.22480968	0.24084056	1.71103099	
KIAA1409	-0.22480832	0.24084056	-1.71102012	
KIAA1543	0.22480101	0.24084056	1.71096153	
NR1D1	0.22483296	0.24084056	1.71121759	
TLE1	0.22478300	0.24085623	1.71081714	

BAIAP2	-0.22477424	0.24085856	-1.71074689
TPRX1	0.22474195	0.24092036	1.71048810
POMP	-0.22474870	0.24092036	-1.71054220
TCF7L2	0.22472405	0.24095807	1.71034463
ALS2CR12	-0.22466751	0.24108819	-1.70989140
PIGW	-0.22466852	0.24108819	-1.70989952
RANGRF	0.22466598	0.24108819	1.70987913
KLB	0.22464139	0.24110771	1.70968204
KRT5	-0.22461201	0.24110771	-1.70944653
CCAR1	-0.22462509	0.24110771	-1.70955138
BGN	0.22462482	0.24110771	1.70954922
FOXL2	0.22462107	0.24110771	1.70951915
PAQR6	0.22461606	0.24110771	1.70947901
PMM1	-0.22460235	0.24111355	-1.70936909
TRIM61	0.22459305	0.24111797	1.70929460
OTUD6A	0.22458235	0.24112006	1.70920884
CYP2C8	-0.22457186	0.24112006	-1.70912479
MPO	0.22456249	0.24112006	1.70904969
MPP6	-0.22455991	0.24112006	-1.70902900
HGSNAT	-0.22454813	0.24113413	-1.70893457
UBE2DNL	0.22447304	0.24114195	1.70833274
CIB1	-0.22447811	0.24114195	-1.70837336
GCET2	0.22449721	0.24114195	1.70852648
TUBGCP4	-0.22445167	0.24114195	-1.70816153
MARK3	-0.22445039	0.24114195	-1.70815126
C9orf40	0.22446213	0.24114195	1.70824536
C1orf114	-0.22448979	0.24114195	-1.70846701
SNORA5C	0.22444840	0.24114195	1.70813528
TRAF6	-0.22449342	0.24114195	-1.70849605
UCHL3	-0.22451911	0.24114195	-1.70870197
DHX58	0.22450323	0.24114195	1.70857474
STARD5	0.22452347	0.24114195	1.70873689
C9orf37	0.22441814	0.24122761	1.70789275

TEX13A	0.22440990	0.24122801	1.70782673
RAB40B	-0.22438167	0.24129046	-1.70760056
SCRN2	0.22437750	0.24129046	1.70756709
FARSB	-0.22428958	0.24133234	-1.70686256
TXNL4A	-0.22429642	0.24133234	-1.70691739
CRYBA4	0.22428537	0.24133234	1.70682881
GLRA1	0.22429674	0.24133234	1.70691991
HMX2	0.22432598	0.24133234	1.70715424
MARS	0.22433205	0.24133234	1.70720287
PROK2	0.22430546	0.24133234	1.70698982
PXDN	0.22433469	0.24133234	1.70722408
MND1	-0.22432261	0.24133234	-1.70712727
NOG	0.22430176	0.24133234	1.70696018
SERPINB6	-0.22427008	0.24136005	-1.70670634
TMEM164	-0.22424442	0.24142796	-1.70650073
CNTN1	-0.22421260	0.24150288	-1.70624572
RAD17	-0.22420883	0.24150288	-1.70621551
AK7	-0.22417868	0.24158822	-1.70597392
ZNF75A	-0.22416534	0.24160843	-1.70586703
GPRIN2	0.22415617	0.24161246	1.70579359
MX2	0.22412892	0.24165679	1.70557523
NEUROG2	0.22412849	0.24165679	1.70557177
CMAH	-0.22411647	0.24167187	-1.70547552
PDCD10	-0.22409162	0.24167378	-1.70527637
EREG	-0.22409662	0.24167378	-1.70531644
OR6Q1	0.22410529	0.24167378	1.70538589
KLKB1	-0.22406788	0.24168168	-1.70508618
TSC1	-0.22408032	0.24168168	-1.70518587
LAPTM4A	-0.22406523	0.24168168	-1.70506491
LOC100133360	0.22400376	0.24181131	1.70457248
EIF4A2	-0.22399430	0.24181131	-1.70449667
IDH3B	-0.22399120	0.24181131	-1.70447183
RPRML	0.22399933	0.24181131	1.70453700

TMUB1	0.22400139	0.24181131	1.70455351
ANKRD34C	0.22396541	0.24187981	1.70426526
UTS2	0.22391514	0.24192601	1.70386247
KBTBD3	-0.22392295	0.24192601	-1.70392509
PHF3	-0.22392744	0.24192601	-1.70396104
SYCN	0.22391294	0.24192601	1.70384488
NAV3	0.22392342	0.24192601	1.70392881
S100A16	-0.22389046	0.24198171	-1.70366482
NDC80	-0.22386103	0.24206439	-1.70342904
HMGCS1	-0.22385116	0.24207122	-1.70334999
TMEM60	-0.22382958	0.24212349	-1.70317708
SCAND3	0.22378583	0.24226175	1.70282665
SFXN2	0.22376053	0.24229702	1.70262397
CXorf42	-0.22376567	0.24229702	-1.70266514
PHACTR3	0.22371809	0.24237369	1.70228402
GTPBP5	0.22371362	0.24237369	1.70224821
TBC1D23	-0.22370675	0.24237369	-1.70219321
MRPL9	-0.22370025	0.24237369	-1.70214111
SLC1A1	-0.22370618	0.24237369	-1.70218866
PPOX	-0.22366350	0.24248487	-1.70184678
TFCP2L1	0.22363271	0.24257295	1.70160019
KCNA4	0.22361018	0.24259753	1.70141969
TMEM195	0.22361791	0.24259753	1.70148164
TMEM26	0.22359799	0.24261341	1.70132206
LCE3E	0.22358901	0.24261683	1.70125012
CACNG5	0.22358008	0.24262002	1.70117867
HOXD1	0.22354029	0.24271168	1.70085993
ASB2	0.22354337	0.24271168	1.70088460
ZNF596	-0.22349867	0.24274943	-1.70052660
FETUB	-0.22351251	0.24274943	-1.70063748
ANKRD1	0.22349009	0.24274943	1.70045787
RRM2B	-0.22349201	0.24274943	-1.70047332
FANCL	-0.22350584	0.24274943	-1.70058402

COMMD1	-0.22345413	0.24285767	-1.70016990	
LOC100131138	0.22342624	0.24285818	1.69994654	
CREBL2	-0.22343439	0.24285818	-1.70001185	
ADAT1	-0.22341438	0.24285818	-1.69985155	yes
C17orf76	0.22340709	0.24285818	1.69979320	
MLH1	-0.22341311	0.24285818	-1.69984145	
WNT1	0.22339789	0.24285818	1.69971950	
ANKRD32	-0.22339736	0.24285818	-1.69971526	
TNNT1	0.22338012	0.24289372	1.69957722	
TULP4	-0.22335628	0.24295491	-1.69938633	
ATP5I	-0.22334242	0.24297733	-1.69927536	
SLC36A2	0.22331260	0.24299896	1.69903653	
NXT1	0.22331797	0.24299896	1.69907955	
HEATR1	-0.22332134	0.24299896	-1.69910653	
ADHFE1	-0.22326577	0.24311889	-1.69866157	
SPTA1	0.22326557	0.24311889	1.69865994	yes
OAZ1	-0.22321561	0.24328171	-1.69825987	
LOC387787	0.22317332	0.24341474	1.69792130	
THUMPD3	-0.22312779	0.24353045	-1.69755677	
FBXL12	0.22312202	0.24353045	1.69751053	
KATNAL1	-0.22311933	0.24353045	-1.69748902	
LOC100133367	0.22310998	0.24353540	1.69741412	
RNF113B	0.22307910	0.24356478	1.69716694	
C4orf26	0.22308866	0.24356478	1.69724344	
ACADL	0.22307818	0.24356478	1.69715957	
CYP2C9	-0.22305733	0.24358306	-1.69699259	
INTS7	-0.22306360	0.24358306	-1.69704279	
OR52A1	0.22304719	0.24359107	1.69691143	
GANC	-0.22302365	0.24361981	-1.69672298	
C21orf59	-0.22302918	0.24361981	-1.69676727	
DEF8	0.22299961	0.24365051	1.69653049	
TAAR5	0.22300117	0.24365051	1.69654300	
RPL36P8	0.22298553	0.24367387	1.69641781	

SPDYC	0.22293534	0.24383783	1.69601597	
CYHR1	0.22288463	0.24398650	1.69561002	
SLC4A3	0.22288102	0.24398650	1.69558112	
PPIA	-0.22286429	0.24402024	-1.69544715	
CRHBP	0.22284031	0.24408218	1.69525525	yes
ERP27	0.22281163	0.24409958	1.69502565	
KCNA7	0.22282407	0.24409958	1.69512526	
LOC728607	-0.22281487	0.24409958	-1.69505156	
SLC34A2	0.22278048	0.24414435	1.69477631	
ISM2	0.22278365	0.24414435	1.69480165	
MPND	0.22277593	0.24414435	1.69473988	
KCTD17	0.22275507	0.24418058	1.69457292	
CHD9	-0.22275050	0.24418058	-1.69453630	
HTR1A	0.22270957	0.24430863	1.69420874	
C1orf53	0.22267439	0.24438983	1.69392708	
SNORA16A	0.22267261	0.24438983	1.69391290	
PCYOX1	-0.22266172	0.24440087	-1.69382567	
ZNF252	-0.22264860	0.24442056	-1.69372070	
PALB2	-0.22263351	0.24444795	-1.69359992	
RHBDL2	-0.22261988	0.24445295	-1.69349081	
ITGBL1	0.22261610	0.24445295	1.69346058	
AVPR1B	0.22257109	0.24459706	1.69310030	
RGS10	0.22254249	0.24467716	1.69287146	
PPIAP19	0.22253045	0.24469268	1.69277510	
ARMC2	-0.22252059	0.24469972	-1.69269613	
SRPK3	0.22247262	0.24471620	1.69231226	
ORC5L	-0.22246801	0.24471620	-1.69227532	
POR	-0.22247143	0.24471620	-1.69230269	
PRSS1	0.22248582	0.24471620	1.69241790	
TG	0.22247180	0.24471620	1.69230568	
YIF1B	0.22250413	0.24471620	1.69256444	
PPP1R12C	0.22245920	0.24471914	1.69220482	yes
PAFAH1B2	-0.22241683	0.24485302	-1.69186578	

NRG3	0.22237822	0.24492896	1.69155676	
CLUAP1	-0.22237321	0.24492896	-1.69151669	
CARHSP1	0.22237652	0.24492896	1.69154319	
C1QTNF3	0.22234383	0.24494932	1.69128163	
SCPEP1	-0.22235101	0.24494932	-1.69133907	
GUF1	-0.22234617	0.24494932	-1.69130034	
P2RY12	0.22232944	0.24497408	1.69116644	
CPO	0.22231701	0.24498272	1.69106702	
LOC728675	0.22231041	0.24498272	1.69101420	
UMOD	0.22230307	0.24498272	1.69095546	
ESCO1	-0.22225095	0.24499771	-1.69053838	
TTC21A	-0.22225518	0.24499771	-1.69057222	
AMPD2	0.22226870	0.24499771	1.69068042	
KRTAP19-6	0.22226537	0.24499771	1.69065375	
FLJ40142	0.22228620	0.24499771	1.69082041	
ZNF121	-0.22227115	0.24499771	-1.69070005	
SNRNP48	-0.22223264	0.24500639	-1.69039185	
IGFL1	0.22224008	0.24500639	1.69045138	
ANKRD11	0.22220647	0.24506112	1.69018249	
PLSCR3	0.22220253	0.24506112	1.69015096	
CHST13	0.22216758	0.24516615	1.68987133	
LOC100133391	-0.22211254	0.24534974	-1.68943089	
CRX	0.22209855	0.24537298	1.68931895	
DACT3	0.22206157	0.24542998	1.68902310	
HTR6	0.22207282	0.24542998	1.68911312	
TRA2B	-0.22205983	0.24542998	-1.68900923	
TRIM58	0.22197514	0.24563539	1.68833166	
MAP3K1	-0.22197512	0.24563539	-1.68833149	
CUZD1	0.22198921	0.24563539	1.68844424	
UBE2M	0.22199151	0.24563539	1.68846263	
CCDC50	0.22195988	0.24566356	1.68820955	yes
ANK1	0.22193607	0.24572523	1.68801906	
FAM166A	0.22192419	0.24574025	1.68792404	

COMMD9	-0.22190315	0.24575966	-1.68775576
SLC25A14	-0.22190851	0.24575966	-1.68779862
MEGF9	-0.22186880	0.24583676	-1.68748093
C1orf107	-0.22184687	0.24583676	-1.68730554
PIP5K1B	-0.22186017	0.24583676	-1.68741191
TIMD4	0.22184327	0.24583676	1.68727672
KIAA0195	-0.22185638	0.24583676	-1.68738162
CEP55	-0.22172491	0.24610653	-1.68632994
USP28	-0.22174009	0.24610653	-1.68645135
C8G	0.22175778	0.24610653	1.68659287
PDHX	-0.22172775	0.24610653	-1.68635265
LRRC8C	0.22174548	0.24610653	1.68649447
CREB3L1	0.22173575	0.24610653	1.68641664
TTLL4	-0.22171810	0.24610653	-1.68627550
IDO2	0.22164459	0.24630000	1.68568754
GRIK5	0.22165258	0.24630000	1.68575140
ZDHHC18	0.22165306	0.24630000	1.68575524
LASS3	-0.22160840	0.24637887	-1.68539804
ATP2C1	-0.22161602	0.24637887	-1.68545903
RPS2P11	0.22157684	0.24643961	1.68514562
RAGE	-0.22158206	0.24643961	-1.68518738
LOC100129484	0.22154516	0.24653226	1.68489228
TTC6	-0.22149064	0.24668638	-1.68445621
STK38L	-0.22147898	0.24668638	-1.68436298
UCN	0.22148364	0.24668638	1.68440025
TMEM175	0.22147373	0.24668638	1.68432102
MUC17	0.22140303	0.24693210	1.68375564
CCDC67	-0.22136191	0.24699901	-1.68342675
APOH	0.22136482	0.24699901	1.68345008
PCID2	-0.22136707	0.24699901	-1.68346807
C5orf20	0.22127911	0.24716650	1.68276469
LOC391081	0.22127939	0.24716650	1.68276688
NHLH1	0.22128345	0.24716650	1.68279938

TNNI1	0.22130099	0.24716650	1.68293962
PPFIA1	-0.22129513	0.24716650	-1.68289275
PHLDB1	0.22126095	0.24717748	1.68261946
EFHC2	-0.22125255	0.24717748	-1.68255229
SYT8	0.22125226	0.24717748	1.68254998
CAPN7	-0.22122746	0.24724337	-1.68235163
LRTOMT	-0.22120485	0.24727358	-1.68217088
GLOD5	0.22120373	0.24727358	1.68216189
FLJ46010	0.22115263	0.24744269	1.68175336
CLEC6A	0.22108774	0.24766611	1.68123449
ZNF234	-0.22101439	0.24782835	-1.68064812
FBN2	0.22101569	0.24782835	1.68065846
UNC84B	0.22102753	0.24782835	1.68075315
CYP4V2	-0.22102658	0.24782835	-1.68074556
SLC25A4	-0.22100445	0.24783595	-1.68056859
LRRC37B	-0.22090660	0.24787518	-1.67978641
GALNTL5	0.22092414	0.24787518	1.67992660
C10orf63	-0.22090023	0.24787518	-1.67973546
QRFP	0.22092851	0.24787518	1.67996151
PCDH24	0.22090390	0.24787518	1.67976479
ZNF532	0.22091468	0.24787518	1.67985096
C14orf132	0.22095045	0.24787518	1.68013696
SNX6	-0.22089836	0.24787518	-1.67972047
LOC642776	0.22093486	0.24787518	1.68001230
ZNF214	-0.22096944	0.24787518	-1.68028872
PPP1R2P9	0.22098123	0.24787518	1.68038301
SNX29	-0.22097715	0.24787518	-1.68035035
ERP29	0.22085616	0.24788376	1.67938318
WDR7	-0.22087826	0.24788376	-1.67955985
C2orf53	0.22086835	0.24788376	1.67948064
ZNHIT6	-0.22085634	0.24788376	-1.67938460
KLHL1	0.22086831	0.24788376	1.67948028
TRIO	0.22084394	0.24790034	1.67928549

WDR69	-0.22079774	0.24798759	-1.67891619	
SPATC1	0.22080074	0.24798759	1.67894011	
LRMP	-0.22079842	0.24798759	-1.67892160	
ZNF329	-0.22075328	0.24813095	-1.67856076	
FBXW11	-0.22071744	0.24824042	-1.67827433	
ALDOC	0.22066078	0.24843190	1.67782139	
KCNJ14	0.22064834	0.24844938	1.67772195	
ARMC3	-0.22059342	0.24847671	-1.67728300	
CLIP3	0.22060703	0.24847671	1.67739179	
IL1B	0.22061988	0.24847671	1.67749450	
RNASE9	0.22059623	0.24847671	1.67730551	
ABLIM1	-0.22059567	0.24847671	-1.67730100	
LRRC20	0.22062712	0.24847671	1.67755236	
BLMH	-0.22056631	0.24855193	-1.67706636	
TBC1D28	0.22053659	0.24863745	1.67682884	
HOXC10	0.22052160	0.24866501	1.67670901	
GALNT13	0.22049679	0.24866829	1.67651075	
UBN1	-0.22050873	0.24866829	-1.67660618	
SLC6A5	0.22050264	0.24866829	1.67655746	
FLJ34651	0.22047867	0.24870818	1.67636593	
CUGBP2	0.22046285	0.24873901	1.67623950	
TUBB2C	-0.22042087	0.24883681	-1.67590405	
ATP8A1	0.22039807	0.24883681	1.67572184	
MYO7B	0.22042915	0.24883681	1.67597022	yes
C5orf43	-0.22040542	0.24883681	-1.67578054	
PCGF1	-0.22040835	0.24883681	-1.67580398	
CACNG4	-0.22033995	0.24903431	-1.67525739	
AHRR	0.22032959	0.24904369	1.67517455	
ZMYND17	0.22031456	0.24907145	1.67505444	
SLC5A11	0.22028979	0.24913757	1.67485658	
FRAS1	-0.22027340	0.24917072	-1.67472557	
ALOX15	-0.22025884	0.24919664	-1.67460923	
NSUN2	-0.22024236	0.24923012	-1.67447757	

RAB3C	0.22022388	0.24924002	1.67432992	
FA2H	-0.22022758	0.24924002	-1.67435948	
OAZ2	-0.22020349	0.24928895	-1.67416699	
KLHL20	-0.22018828	0.24931745	-1.67404545	
RCOR3	-0.22017481	0.24933908	-1.67393784	
C13orf39	0.22016148	0.24936019	1.67383131	
PIH1D2	-0.22011667	0.24950547	-1.67347323	
CDKN3	-0.22008270	0.24951357	-1.67320186	
DZIP1	-0.22009211	0.24951357	-1.67327702	
SDR39U1	0.22010142	0.24951357	1.67335145	
TTY5	0.22009041	0.24951357	1.67326344	
N6AMT2	-0.22003500	0.24951753	-1.67282074	
ZC3H4	0.21997346	0.24951753	1.67232908	
ZCCHC11	-0.22003049	0.24951753	-1.67278473	
GPX5	0.21997738	0.24951753	1.67236045	
AGFG1	-0.21998410	0.24951753	-1.67241411	
WDR53	-0.21998762	0.24951753	-1.67244222	
APRT	0.21997010	0.24951753	1.67230224	
LOC389151	0.22000222	0.24951753	1.67255890	
NEDD8	-0.22000576	0.24951753	-1.67258715	
LOC494141	0.22002727	0.24951753	1.67275898	
PRKAA1	-0.22005366	0.24951753	-1.67296984	
WIPF3	0.21998472	0.24951753	1.67241904	
TBL1X	-0.22000970	0.24951753	-1.67261864	
EIF4E2	-0.22000476	0.24951753	-1.67257917	
SMOX	0.21993729	0.24961548	1.67204016	
REPS1	-0.21988032	0.24977737	-1.67158505	
NUP210L	0.21988737	0.24977737	1.67164136	yes
LOC153328	0.21985884	0.24978525	1.67141345	
PNMA3	0.21986851	0.24978525	1.67149066	
PPIB	0.21985443	0.24978525	1.67137823	
C10orf107	-0.21984620	0.24978630	-1.67131249	
B3GNT3	0.21980413	0.24992092	1.67097638	

genename	r-value	FDR	t-value	CMH-associated
ILK	0.62429896	0.00417980	5.92679321	
TNRC6C	0.58885979	0.01433748	5.40325516	
ASB7	-0.55025791	0.03627713	-4.88724252	
FBLN2	0.53205635	0.03627713	4.66020288	
MEF2D	0.54155071	0.03627713	4.77744738	
METTL9	-0.53376202	0.03627713	-4.68108151	
LOC646316	-0.53134948	0.03627713	-4.65157355	
TNS3	0.55850664	0.03627713	4.99336446	
SMTN	0.53048270	0.03627713	4.64101056	yes
TLN1	0.52849178	0.03627713	4.61682478	
TNS1	0.53402046	0.03627713	4.68425192	
CACNA1C	0.53015564	0.03627713	4.63703019	
BOC	0.53006896	0.03627713	4.63597572	
SYNM	0.52033260	0.04725713	4.51879849	
GDF10	0.51361636	0.05428703	4.43938501	
SCARNA17	0.51385150	0.05428703	4.44214630	
FLNA	0.51071587	0.05736650	4.40543438	
SCARNA5	0.50863664	0.05883108	4.38122213	
FAM96A	-0.50701278	0.05941586	-4.36238459	
NUP50	-0.50067792	0.06046395	-4.28948988	
EVC	0.49861903	0.06046395	4.26599802	
ZNF423	0.49826262	0.06046395	4.26194113	
FMOD	0.49834121	0.06046395	4.26283551	
TUBG2	0.50084915	0.06046395	4.29144800	
LRP1	0.49708574	0.06046395	4.24856573	
HTRA1	0.49893041	0.06046395	4.26954470	yes
SLPI	0.50454883	0.06046395	4.33392080	
FAM118B	-0.49652841	0.06046395	-4.24224238	
LAMB2	0.49438157	0.06332771	4.21794992	
ZNF462	0.49214176	0.06445372	4.19271434	
VAMP2	0.49253861	0.06445372	4.19717748	
NFIX	0.49060342	0.06613983	4.17544577	

KANK2	0.48961887	0.06653330	4.16442079	
COL4A2	0.48501345	0.07223784	4.11312573	yes
FGFR1	0.48356245	0.07223784	4.09705784	
DAAM2	0.48477742	0.07223784	4.11050904	yes
ACACB	0.48433575	0.07223784	4.10561560	
SLIT3	0.48367166	0.07223784	4.09826562	
RNF150	0.48229535	0.07371376	4.08306239	
SCAMP3	0.47176358	0.07742492	3.96800816	
MRVI1	0.46835921	0.07742492	3.93129017	
MYL9	0.47634517	0.07742492	4.01778418	
AEBP1	0.47034905	0.07742492	3.95272426	
TENC1	0.47527421	0.07742492	4.00611128	
DNAJB5	0.47441173	0.07742492	3.99672755	
GTF3A	-0.47214709	0.07742492	-3.97215878	
HSPE1	-0.47880253	0.07742492	-4.04465554	
MFGE8	0.47234657	0.07742492	3.97431880	
NOTCH2	0.46857927	0.07742492	3.93365682	
PDGFRB	0.47359003	0.07742492	3.98780129	
PHF1	0.47796372	0.07742492	4.03546931	
SLC41A3	0.47238814	0.07742492	3.97476906	
FRMD4A	0.46863572	0.07742492	3.93426416	
TOMM22	-0.46867251	0.07742492	-3.93465986	
STARD9	0.46867614	0.07742492	3.93469897	
ITIH5	0.47044994	0.07742492	3.95381300	
MARVELD1	0.47313378	0.07742492	3.98285076	
SLC43A1	0.47389205	0.07742492	3.99108056	
AOC3	0.47061533	0.07742492	3.95559841	
HERC2	0.47938696	0.07742492	4.05106441	
SCGB3A1	0.47321443	0.07742492	3.98372548	
SLC22A17	0.46638094	0.08159855	3.91005683	yes
PDE3A	0.46541593	0.08272369	3.89972633	
YOD1	-0.46506697	0.08272369	-3.89599499	
COL1A1	0.46357185	0.08575442	3.88003459	

COL6A1	0.46292696	0.08634535	3.87316340	yes
COL6A3	0.46067050	0.08683073	3.84918279	
LMOD1	0.46160910	0.08683073	3.85914624	
GAS6	0.46055454	0.08683073	3.84795296	
SNX7	-0.46021469	0.08683073	-3.84435015	
PLCG1	0.46137029	0.08683073	3.85660961	
AXL	0.46039791	0.08683073	3.84629223	
SCARNA16	0.45940509	0.08802883	3.83577607	yes
ADARB1	0.45503252	0.08919107	3.78967648	
BAZ1A	-0.45345554	0.08919107	-3.77313580	yes
PRR4	0.45352886	0.08919107	3.77390378	
COL6A2	0.45447565	0.08919107	3.78383049	yes
DCTN1	0.45684140	0.08919107	3.80870500	
DES	0.45745383	0.08919107	3.81516090	
PI16	0.45589642	0.08919107	3.79875688	
FN1	0.45413044	0.08919107	3.78020925	
HEBP2	-0.45645159	0.08919107	-3.80459931	yes
PTRF	0.45753053	0.08919107	3.81596991	yes
PRB1	0.45544948	0.08919107	3.79405740	
BGN	0.45508656	0.08919107	3.79024405	
TGFB111	0.45774909	0.08919107	3.81827579	yes
C17orf68	0.45387949	0.08919107	3.77757812	
CCDC109A	-0.45348895	0.08919107	-3.77348576	yes
SLC29A1	0.45144615	0.09255237	3.75212416	
HSPB7	0.45159297	0.09255237	3.75365693	
LTF	0.45120842	0.09255237	3.74964308	
TMEM25	0.45100130	0.09255237	3.74748220	
LYZ	0.45057501	0.09285584	3.74303726	
PODN	0.44957299	0.09296932	3.73260168	
PIP	0.44987040	0.09296932	3.73569720	
PRB3	0.44924308	0.09296932	3.72916969	
DCLRE1B	-0.44894796	0.09296932	-3.72610116	
ACTN1	0.44978097	0.09296932	3.73476616	

GEFT	0.44796248	0.09333548	3.71586594	yes
CST3	0.44814763	0.09333548	3.71778762	
C12orf49	-0.44790890	0.09333548	-3.71530988	
AMOTL1	0.44723497	0.09356354	3.70832075	
ZBTB16	0.44752129	0.09356354	3.71128911	
TPM2	0.44663442	0.09449893	3.70209936	
MYRIP	0.44581917	0.09521176	3.69366368	
TRMT6	-0.44589198	0.09521176	-3.69441654	
COL1A2	0.44513491	0.09614840	3.68659222	
PHLDB1	0.44426283	0.09614840	3.67759150	
PLD3	0.44387964	0.09614840	3.67364065	
MDS1	-0.44354538	0.09614840	-3.67019645	
MYH11	0.44397696	0.09614840	3.67464384	
RASL12	0.44472571	0.09614840	3.68236726	yes
LBH	0.44377343	0.09614840	3.67254602	
PRH2	0.44276075	0.09723909	3.66211895	
TIMP3	0.44265225	0.09723909	3.66100285	
SERPINA3	0.44110867	0.10130605	3.64514566	yes
CTSF	0.44047617	0.10249686	3.63865957	
FLNC	0.43837780	0.10542819	3.61718966	
NID1	0.43828102	0.10542819	3.61620114	
MEG3	0.43875838	0.10542819	3.62107820	
PRELP	0.43889972	0.10542819	3.62252288	
PTGS1	0.43910002	0.10542819	3.62457095	
DMBT1	0.43660686	0.10596695	3.59912682	
MYO1C	0.43697362	0.10596695	3.60286335	
PMEPA1	0.43722395	0.10596695	3.60541503	
PTGIS	0.43678938	0.10596695	3.60098604	
THSD4	0.43696926	0.10596695	3.60281898	
CGNL1	0.43753739	0.10596695	3.60861133	
RPL41	-0.43628017	0.10623743	-3.59580040	
PRB4	0.43587854	0.10646274	3.59171332	
ZBTB4	0.43552025	0.10646274	3.58806957	

EFHD1	0.43548486	0.10646274	3.58770977	
LOC645251	0.43505166	0.10711453	3.58330718	
CDH11	0.43369903	0.10986918	3.56958022	
ITGA7	0.43382605	0.10986918	3.57086800	yes
GPRC5B	0.43333351	0.10986918	3.56587593	
MBD2	-0.43329968	0.10986918	-3.56553322	
EFS	0.43138157	0.11493099	3.54613083	
FBLN1	0.43075646	0.11493099	3.53982038	
LDOC1	0.43027713	0.11493099	3.53498593	
CERCAM	0.43003362	0.11493099	3.53253125	
LGR6	0.43115291	0.11493099	3.54382180	
PIP4K2B	0.43061930	0.11493099	3.53843667	
CSDA	-0.43142614	0.11493099	-3.54658100	
MRRF	-0.43021088	0.11493099	-3.53431795	
FAM149B1	-0.42954532	0.11588417	-3.52761188	yes
WBSCR17	0.42849068	0.11891046	3.51699995	
AR	0.42768125	0.12109130	3.50886726	
DYSF	0.42701540	0.12276744	3.50218500	yes
CNN1	0.42631132	0.12304915	3.49512651	
BLOC1S2	-0.42629129	0.12304915	-3.49492582	
PDLIM7	0.42669892	0.12304915	3.49901130	yes
CBX7	0.42600643	0.12331680	3.49207239	
C1orf175	0.42436093	0.12800267	3.47561430	
RPS6KA2	0.42441114	0.12800267	3.47611592	
NID2	0.42329882	0.13135995	3.46501359	
CLU	0.42187382	0.13475724	3.45081817	
FLJ41603	0.42182999	0.13475724	3.45038199	
ANO1	0.42182815	0.13475724	3.45036369	
ARHGEF17	0.42148597	0.13530743	3.44695990	
FKBP10	0.42123187	0.13550296	3.44443339	yes
ZNF618	0.41908688	0.13774288	3.42314523	
C9orf84	-0.41856225	0.13774288	-3.41794906	
C2CD2	0.41848830	0.13774288	3.41721701	

APOD	0.42025806	0.13774288	3.43476011	
KIRREL	0.41909373	0.13774288	3.42321309	
PYGM	0.41963688	0.13774288	3.42859710	
S100B	0.41876723	0.13774288	3.41997875	
MUC5B	0.41853308	0.13774288	3.41766034	
TMEM109	0.41949811	0.13774288	3.42722107	
CD99L2	0.42010482	0.13774288	3.43323922	
CD151	0.41860773	0.13774288	3.41839939	
ADCY5	0.41796271	0.13834512	3.41201611	
FGFR2	0.41751685	0.13834512	3.40760738	
OLFML2B	0.41738964	0.13834512	3.40635008	
ATP1A2	0.41738362	0.13834512	3.40629057	
PYGB	0.41760585	0.13834512	3.40848716	
TP53RK	-0.41503129	0.14300196	-3.38308446	
DPH3	-0.41569828	0.14300196	-3.38965605	
CCDC18	-0.41559404	0.14300196	-3.38862860	
ITGB5	0.41478573	0.14300196	3.38066680	
RALGPS2	-0.41478229	0.14300196	-3.38063287	yes
RAP2A	-0.41589094	0.14300196	-3.39155551	
TBX2	0.41515274	0.14300196	3.38428062	yes
ACYP2	-0.41480210	0.14300196	-3.38082794	
GRAMD1A	0.41437932	0.14371086	3.37666730	
SLC26A10	0.41425158	0.14371086	3.37541065	yes
C6orf58	0.41281614	0.14407295	3.36130665	
MCAM	0.41260608	0.14407295	3.35924526	
LIMS2	0.41283344	0.14407295	3.36147648	yes
ACTA2	0.41257167	0.14407295	3.35890761	
TNXB	0.41277998	0.14407295	3.36095177	
ACTG2	0.41291414	0.14407295	3.36226858	
C4orf14	-0.41321557	0.14407295	-3.36522822	
NKD1	0.41339477	0.14407295	3.36698835	yes
FADS2	0.41396759	0.14407295	3.37261789	
JAM3	0.41220618	0.14488953	3.35532257	

IFNE	-0.41180010	0.14549923	-3.35134172	
KCNMB1	0.41171893	0.14549923	3.35054632	
HOXB3	0.41122428	0.14617560	3.34570101	
HSPG2	0.41121943	0.14617560	3.34565349	
ATF7	0.41087666	0.14619473	3.34229805	
CSRP1	0.41099622	0.14619473	3.34346826	
GALT	0.41069151	0.14626790	3.34048632	
COL5A1	0.41022737	0.14754153	3.33594670	yes
SCARNA6	0.40990041	0.14823279	3.33275070	
EBF1	0.40952210	0.14851111	3.32905463	yes
PRDM6	0.40950457	0.14851111	3.32888342	
VAT1	0.40886838	0.14984066	3.32267270	
DNAJC2	-0.40847335	0.14984066	-3.31881920	
PINK1	0.40838123	0.14984066	3.31792088	
VWF	0.40847625	0.14984066	3.31884747	
MIA	0.40857810	0.14984066	3.31984085	
FAM65A	0.40802922	0.15067147	3.31448948	yes
KLHL29	0.40761314	0.15111064	3.31043572	
P2RX1	0.40760780	0.15111064	3.31038370	
MYLK	0.40681201	0.15340930	3.30263744	
ARNTL2	-0.40676720	0.15340930	-3.30220153	
RALBP1	-0.40654444	0.15369431	-3.30003494	
TTC7B	0.40632201	0.15384315	3.29787223	
DYNLT3	-0.40619580	0.15384315	-3.29664549	
SNRPD1	-0.40572741	0.15523131	-3.29209443	
CREB3L2	0.40495630	0.15800084	3.28460891	
E2F8	-0.40477966	0.15809549	-3.28289534	
SCD5	0.40435208	0.15933579	3.27874925	
LSS	0.40416368	0.15940115	3.27692330	
C14orf139	0.40402899	0.15940115	3.27561818	
COL14A1	0.40385892	0.15947690	3.27397056	
KIAA0495	0.40332712	0.16099043	3.26882115	
C7orf25	-0.40322336	0.16099043	-3.26781697	

GABBR1	0.40139283	0.16152986	3.25012494	
INSR	0.40289140	0.16152986	3.26460506	
LRP6	0.40248614	0.16152986	3.26068611	
CSGALNACT1	0.40259835	0.16152986	3.26177100	
JPH2	0.40168460	0.16152986	3.25294176	yes
RHOJ	0.40142228	0.16152986	3.25040918	
TPM1	0.40132104	0.16152986	3.24943200	
CDC7	-0.40194015	0.16152986	-3.25540989	
ZNF251	0.40151962	0.16152986	3.25134885	
ANKRD40	0.40195548	0.16152986	3.25555791	
CYTH3	0.40172433	0.16152986	3.25332538	
SDC3	0.40236206	0.16152986	3.25948665	
XKR9	0.40102668	0.16221546	3.24659166	
RPP38	-0.40039949	0.16444961	-3.24054381	
AGPAT1	0.40013023	0.16503201	3.23794901	
SYNPO2	0.39965672	0.16657745	3.23338833	
LPO	0.39941250	0.16705182	3.23103736	
FAM63A	0.39913294	0.16713855	3.22834716	
BAG5	-0.39910846	0.16713855	-3.22811164	
CCBE1	0.39873735	0.16813061	3.22454219	
KIAA0467	0.39861487	0.16813061	3.22336460	
CALCOCO1	0.39804265	0.16884294	3.21786547	
TAGLN	0.39820101	0.16884294	3.21938689	
TIMP2	0.39804466	0.16884294	3.21788473	
LOC100129151	-0.39739828	0.16926237	-3.21167834	
LOC339483	0.39748511	0.16926237	3.21251173	
CD82	0.39740484	0.16926237	3.21174128	
SH3BP2	0.39755503	0.16926237	3.21318292	yes
GPC6	0.39629722	0.17170855	3.20111917	
WWP2	0.39653206	0.17170855	3.20336992	
ALDOC	0.39577574	0.17170855	3.19612397	
MPRIP	0.39531975	0.17170855	3.19175901	
TTC28	0.39526066	0.17170855	3.19119357	

KAT2A	0.39536535	0.17170855	3.19219537	
PLOD1	0.39614887	0.17170855	3.19969781	
SOD3	0.39644944	0.17170855	3.20257799	
SPTAN1	0.39621063	0.17170855	3.20028952	
SERPING1	0.39595264	0.17170855	3.19781805	
CALD1	0.39582272	0.17170855	3.19657384	
MRC2	0.39557185	0.17170855	3.19417191	yes
TLE3	0.39502032	0.17222502	3.18889430	
S1PR3	0.39447533	0.17421568	3.18368322	
GAF2	0.39403068	0.17468734	3.17943463	
SS18L2	-0.39404035	0.17468734	-3.17952697	
C22orf29	0.39398351	0.17468734	3.17898409	
FAM172B	-0.39383732	0.17476256	-3.17758790	
SEC11B	-0.39368088	0.17488954	-3.17609413	
RXRB	0.39350235	0.17512578	3.17438989	
MAN1C1	0.39308832	0.17651243	3.17043909	
MAP3K3	0.39257576	0.17839537	3.16555126	
ODZ1	0.39235158	0.17886584	3.16341453	
GRIA2	0.39192517	0.17930148	3.15935222	
TPCN1	0.39187904	0.17930148	3.15891286	
ZNF124	-0.39206936	0.17930148	-3.16072562	
AZGP1	0.39135948	0.18125103	3.15396660	
DKK3	0.39082743	0.18264416	3.14890522	
TMEM119	0.39088175	0.18264416	3.14942178	
DMPK	0.39050382	0.18268388	3.14582849	
TSPYL2	0.39019417	0.18268388	3.14288581	
MRP63	-0.39019519	0.18268388	-3.14289548	yes
ADAM33	0.39019162	0.18268388	3.14286161	yes
ZNF239	0.39019114	0.18268388	3.14285699	
ITPKB	0.38998375	0.18277732	3.14088688	
TCF7L1	0.38992382	0.18277732	3.14031761	
DAPK1	0.38933503	0.18296645	3.13472775	
POMGNT1	0.38927152	0.18296645	3.13412509	

TGFBR3	0.38951224	0.18296645	3.13640968	
UFD1L	-0.38927082	0.18296645	-3.13411842	
VKORC1	0.38941542	0.18296645	3.13549069	
FLJ10357	0.38906159	0.18340398	3.13213325	
UNC45B	0.38863803	0.18430323	3.12811643	yes
CLDN11	0.38855999	0.18430323	3.12737653	yes
CD34	0.38851876	0.18430323	3.12698573	
PGAM4	-0.38829765	0.18480958	-3.12489002	
AQP1	0.38762216	0.18762848	3.11849169	
TMEM104	0.38741159	0.18809087	3.11649841	
CD40	0.38710549	0.18904639	3.11360181	
COL3A1	0.38652183	0.18959858	3.10808189	
PPPDE1	-0.38661654	0.18959858	-3.10897735	
LOC729966	-0.38677949	0.18959858	-3.11051818	
GEMIN6	-0.38664604	0.18959858	-3.10925629	
RASD2	0.38610343	0.19084688	3.10412773	
BPIL1	0.38604369	0.19084688	3.10356333	
DPY19L1	-0.38550620	0.19133948	-3.09848730	
SRRM2	0.38541544	0.19133948	3.09763055	
ADAT1	-0.38571426	0.19133948	-3.10045174	yes
FOXO4	0.38549725	0.19133948	3.09840278	
NEDD9	0.38536336	0.19133948	3.09713894	
ACE	0.38492277	0.19167029	3.09298164	
C13orf3	-0.38513908	0.19167029	-3.09502237	
SETBP1	0.38472225	0.19167029	3.09109042	
LTBP4	0.38474394	0.19167029	3.09129493	
TMEM63A	0.38479348	0.19167029	3.09176216	
ANXA6	0.38364105	0.19518424	3.08090172	
KCNA5	0.38384221	0.19518424	3.08279620	
FDXACB1	-0.38380549	0.19518424	-3.08245031	
ARHGEF10	0.38359168	0.19518424	3.08043678	
USP19	0.38330640	0.19608799	3.07775115	
C9orf91	0.38314925	0.19631946	3.07627219	

ADAMDEC1	-0.38287162	0.19718961	-3.07366003	
TTC39B	-0.38204053	0.19812261	-3.06584642	yes
E2F3	-0.38191349	0.19812261	-3.06465280	
GTPBP4	-0.38209896	0.19812261	-3.06639550	
CLIP3	0.38180297	0.19812261	3.06361456	
tcag7.893	0.38180192	0.19812261	3.06360470	
ITGA9	0.38228777	0.19812261	3.06816999	
PCOLCE	0.38228458	0.19812261	3.06813998	
CBFB	-0.38191193	0.19812261	-3.06463814	yes
GTPBP8	-0.38133708	0.19983250	-3.05923972	
GSDMC	-0.38114995	0.19983250	-3.05748317	
ATP8B2	0.38125537	0.19983250	3.05847265	
HLA-DRB6	0.38096249	0.20024792	3.05572413	
AP1S3	-0.38082264	0.20041069	-3.05441203	
NCRNA00116	-0.38030092	0.20203955	-3.04951944	
PDZRN3	0.38030262	0.20203955	3.04953536	
WBP2	0.37979372	0.20419376	3.04476629	
ACOT11	0.37902511	0.20742671	3.03756950	
C3orf14	-0.37898537	0.20742671	-3.03719762	
ELN	0.37876778	0.20802942	3.03516166	
ISM1	0.37747396	0.20869671	3.02306773	
MRGPRF	0.37781164	0.20869671	3.02622216	yes
IGSF9B	0.37825183	0.20869671	3.03033633	
PDSS1	-0.37852322	0.20869671	-3.03287407	
NDST1	0.37804621	0.20869671	3.02841428	
LTBP3	0.37766980	0.20869671	3.02489699	
PMS2CL	-0.37756985	0.20869671	-3.02396335	
MTRR	-0.37759599	0.20869671	-3.02420756	
PPP1R3C	0.37836682	0.20869671	3.03141145	
UTP3	-0.37817410	0.20869671	-3.02960970	
SYT7	0.37767474	0.20869671	3.02494314	
FABP3	0.37730720	0.20903687	3.02151048	
KIAA0226	0.37701794	0.21005630	3.01881010	

COL4A1	0.37684773	0.21009634	3.01722156	yes
COL4A6	0.37656367	0.21009634	3.01457128	
TNFRSF21	-0.37642322	0.21009634	-3.01326128	
NFIB	0.37645733	0.21009634	3.01357938	
SLMO2	-0.37638672	0.21009634	-3.01292088	yes
ARHGAP10	0.37670136	0.21009634	3.01585576	
SUB1	-0.37585996	0.21073637	-3.00800999	
PCTP	-0.37587433	0.21073637	-3.00814388	
SVIL	0.37607852	0.21073637	3.01004713	
NR2F1	0.37592746	0.21073637	3.00863905	
LPPR2	0.37557415	0.21175509	3.00534678	
SMCR8	0.37508824	0.21287089	3.00082146	
KCTD7	0.37503964	0.21287089	3.00036906	
FLJ39639	0.37496709	0.21287089	2.99969368	
FLYWCH1	0.37513126	0.21287089	3.00122202	
PLBD2	0.37463724	0.21378148	2.99662385	
GREM2	0.37460208	0.21378148	2.99629671	
ENTPD6	0.37440941	0.21429657	2.99450431	
TMEM98	0.37430194	0.21433578	2.99350463	
SORBS1	0.37346915	0.21492583	2.98576345	
FOXP4	0.37382349	0.21492583	2.98905623	
C1orf84	0.37404518	0.21492583	2.99111705	
GLRX	-0.37374672	0.21492583	-2.98834267	
LOC283174	0.37381226	0.21492583	2.98895179	
NPR1	0.37340094	0.21492583	2.98512974	
PI4KA	0.37350497	0.21492583	2.98609624	
PCDH19	0.37344678	0.21492583	2.98555563	
COL12A1	0.37314693	0.21514093	2.98277042	
C6orf115	-0.37311445	0.21514093	-2.98246882	
DLEU2L	-0.37306782	0.21514093	-2.98203580	
GMPR	0.37260428	0.21537366	2.97773286	
TRIM61	0.37256327	0.21537366	2.97735226	
DDR2	0.37236999	0.21537366	2.97555892	

CHCHD8	-0.37234611	0.21537366	-2.97533738
TBX3	0.37275832	0.21537366	2.97916251
ZYX	0.37260211	0.21537366	2.97771273
ORMDL3	0.37242776	0.21537366	2.97609496
RAPGEF1	0.37216520	0.21563967	2.97365937
PTPN14	0.37210617	0.21563967	2.97311191
MYH9	0.37200093	0.21569200	2.97213589
COL8A1	0.37162804	0.21609598	2.96867905
LOC389842	-0.37177862	0.21609598	-2.97007482
CENPT	0.37154724	0.21609598	2.96793014
HYI	0.37159136	0.21609598	2.96833905
EDC4	0.37141717	0.21629314	2.96672485
DCLK2	0.37030129	0.21898312	2.95639275
MTCH1	0.37064470	0.21898312	2.95957092
UCRC	-0.37051846	0.21898312	-2.95840243
LGALS1	0.37072583	0.21898312	2.96032187
CTDSP1	0.37073937	0.21898312	2.96044726
SCUBE1	0.37016270	0.21898312	2.95511057
RANBP3	0.37018640	0.21898312	2.95532982
C21orf66	-0.37009375	0.21898312	-2.95447276
HEPH	0.37019024	0.21898312	2.95536538
TEX261	0.36991994	0.21944008	2.95286519
MPHOSPH10	-0.36974358	0.21991317	-2.95123442
UPF3B	-0.36955348	0.22046601	-2.94947706
INMT	0.36830337	0.22093403	2.93793079
PADI2	0.36841946	0.22093403	2.93900220
NXP3	0.36849323	0.22093403	2.93968322
FBN1	0.36842211	0.22093403	2.93902671
C6orf89	0.36895458	0.22093403	2.94394314
IFFO1	0.36867969	0.22093403	2.94140459
DENND2A	0.36840668	0.22093403	2.93888430
EHD2	0.36841849	0.22093403	2.93899330
KRTAP4-4	0.36858427	0.22093403	2.94052364

yes

ACTN2	0.36828307	0.22093403	2.93774345	
SLC39A13	0.36900965	0.22093403	2.94445180	
SCARB1	0.36876678	0.22093403	2.94220878	
TBX4	0.36860002	0.22093403	2.94066901	
ZCCHC24	0.36747401	0.22247990	2.93028081	
ANGPTL2	0.36759512	0.22247990	2.93139740	
MED31	-0.36746910	0.22247990	-2.93023560	
RAD23B	-0.36782355	0.22247990	-2.93350401	
C16orf58	0.36748008	0.22247990	2.93033681	
OR7E91P	-0.36784271	0.22247990	-2.93368068	
MTRF1	-0.36738402	0.22247990	-2.92945126	
LOC100131507	0.36682708	0.22306013	2.92431927	
PLCB1	0.36684147	0.22306013	2.92445183	
PIGW	-0.36713923	0.22306013	-2.92719513	
AGPAT5	-0.36675136	0.22306013	-2.92362173	
AAAS	0.36686088	0.22306013	2.92463054	
KIAA0427	0.36676905	0.22306013	2.92378471	yes
RRS1	-0.36643377	0.22437225	-2.92069723	
VN1R1	0.36631567	0.22454604	2.91960993	
UNC84B	0.36618401	0.22479857	2.91839801	
SLC12A4	0.36599740	0.22536758	2.91668075	
CCDC90A	-0.36580735	0.22595844	-2.91493209	
CTDSP2	0.36526877	0.22615517	2.90997915	
PDIA5	0.36528896	0.22615517	2.91016473	
CPXM2	0.36529236	0.22615517	2.91019598	
ETV5	0.36550167	0.22615517	2.91212061	
UBE2V2	-0.36527895	0.22615517	-2.91007271	
JHDM1D	-0.36525276	0.22615517	-2.90983196	yes
PTCH1	0.36503375	0.22642475	2.90781886	
DCLRE1C	-0.36508735	0.22642475	-2.90831148	
CTAGE4	-0.36466232	0.22757711	-2.90440605	
BCORL1	0.36470055	0.22757711	2.90475719	
LOC100132394	0.36425274	0.22797169	2.90064448	

SNX33	0.36433865	0.22797169	2.90143333	
IGF2R	0.36427821	0.22797169	2.90087837	
LTBP2	0.36445441	0.22797169	2.90249637	
PPP2R3C	-0.36414100	0.22812663	-2.89961864	
INPP5D	0.36391277	0.22827682	2.89752374	
PTPRS	0.36388794	0.22827682	2.89729584	
LOC645106	0.36386116	0.22827682	2.89705009	
RGN	0.36345058	0.23016914	2.89328318	
RBM34	-0.36275271	0.23032889	-2.88688497	
INPP5B	0.36308932	0.23032889	2.88997037	
MAN2C1	0.36267058	0.23032889	2.88613235	
STX19	-0.36275833	0.23032889	-2.88693649	
NDUFB3	-0.36282193	0.23032889	-2.88751939	
C2orf47	-0.36281398	0.23032889	-2.88744651	
TMEM204	0.36298649	0.23032889	2.88902772	
LZTR1	0.36328303	0.23032889	2.89174653	
CHRD1	0.36304463	0.23032889	2.88956068	
HMGXB4	-0.36256751	0.23044635	-2.88518802	
PMP22	0.36241091	0.23064963	2.88375335	
C5orf30	-0.36236728	0.23064963	-2.88335368	
CAPZA1	-0.36214763	0.23144844	-2.88134206	
C9orf25	0.36095864	0.23444835	2.87046221	
CAMTA1	0.36145276	0.23444835	2.87498174	
GNL2	-0.36142055	0.23444835	-2.87468701	
HIST1H2BD	-0.36117066	0.23444835	-2.87240112	
LRP5	0.36094464	0.23444835	2.87033425	
ABCD4	0.36114896	0.23444835	2.87220268	
RNF2	-0.36093072	0.23444835	-2.87020700	yes
TNP2	0.36102237	0.23444835	2.87104499	
LARGE	0.36083654	0.23444835	2.86934587	
ZNF670	-0.36081833	0.23444835	-2.86917943	
STXBP1	0.36060548	0.23474874	2.86723382	
NCOR2	0.36067069	0.23474874	2.86782981	

FAM124A	0.36041133	0.23541713	2.86545954	
CHD7	-0.36021781	0.23560897	-2.86369143	yes
MED12	0.36022469	0.23560897	2.86375431	
MYST1	0.36000743	0.23637726	2.86176980	
TANK	-0.35989058	0.23659412	-2.86070276	
GCH1	-0.35946991	0.23861684	-2.85686235	
ADAMTS3	-0.35933795	0.23892663	-2.85565815	
MREG	-0.35914725	0.23933526	-2.85391815	
NDRG2	0.35910988	0.23933526	2.85357715	
VMA21	-0.35894259	0.23985920	-2.85205124	
HOXB2	0.35877506	0.24038623	2.85052334	
PSG1	-0.35848557	0.24159051	-2.84788395	
TLN2	0.35841579	0.24159051	2.84724797	yes
SCGB3A2	0.35822309	0.24179822	2.84549171	
LARP7	-0.35827667	0.24179822	-2.84597995	
FREM1	0.35765960	0.24292941	2.84035851	
DIP2C	0.35764215	0.24292941	2.84019962	
ZZEF1	0.35778886	0.24292941	2.84153574	
LIG4	-0.35777186	0.24292941	-2.84138088	
ITGA8	0.35794155	0.24292941	2.84292657	
C2orf69	-0.35737560	0.24351076	-2.83777273	
PRKACA	0.35732249	0.24351076	2.83728928	
THBS2	0.35731144	0.24351076	2.83718877	
SNORD116-6	0.35694248	0.24445283	2.83383105	
MOCS3	-0.35707513	0.24445283	-2.83503800	yes
ACSS2	0.35684488	0.24445283	2.83294304	
SNORA45	0.35690970	0.24445283	2.83353279	
LDB1	0.35675305	0.24454016	2.83210776	
CCDC59	-0.35644126	0.24596397	-2.82927210	
CYP2C19	-0.35635864	0.24599693	-2.82852089	
TMEM150	0.35614609	0.24648098	2.82658870	yes
RFK	-0.35612511	0.24648098	-2.82639796	
PDE2A	0.35592824	0.24721311	2.82460882	

FBLN5	0.35561791	0.24770479	2.82178938
PACS1	0.35571567	0.24770479	2.82267743
TFDP1	-0.35563664	0.24770479	-2.82195947
GLUD1	-0.35539499	0.24813947	-2.81976473
TIE1	0.35539420	0.24813947	2.81975756
MXRA5	0.35526094	0.24826313	2.81854750
MARS2	-0.35522183	0.24826313	-2.81819236
CRIM1	0.35507820	0.24867783	2.81688844
CYP3A5	-0.35494710	0.24901686	-2.81569844
PGM1	0.35464829	0.24994508	2.81298684
ZXDC	0.35464470	0.24994508	2.81295428

genename	r-value	FDR	t-value	CMH-associated
ITGA7	0.536578292	0.111418002	4.71572977	yes
LIMS2	0.552008176	0.111418002	4.90958529	yes
ADAM33	0.543751839	0.111418002	4.80499318	yes
SNORD115-7	0.475460927	0.124993705	4.008144767	
RAMP3	0.479578615	0.124993705	4.053167617	
SPEG	0.472042772	0.124993705	3.971029487	yes
IVNS1ABP	-0.472855924	0.124993705	-3.979837879	yes
LILRA3	0.498061345	0.124993705	4.259651431	
HSPA12B	0.471340968	0.124993705	3.963437759	
TDRD9	0.459296515	0.124993705	3.834627107	
NIPA1	-0.497929727	0.124993705	-4.258154605	
TMEM170A	-0.455821795	0.124993705	-3.79797194	
COL5A1	0.460380255	0.124993705	3.846105049	yes
COL6A2	0.487255014	0.124993705	4.138035667	yes
LIN54	-0.469735434	0.124993705	-3.946106312	
CXorf39	-0.488507901	0.124993705	-4.152005308	yes
TIGD2	-0.476494743	0.124993705	-4.019416233	
DMPK	0.490491227	0.124993705	4.174188371	
ZCCHC24	0.46875438	0.124993705	3.935540764	
VASH1	0.456276363	0.124993705	3.802754679	
SLC4A1AP	-0.470363344	0.124993705	-3.952878476	
SEP8	0.474014511	0.124993705	3.992410796	
FAM168A	0.457418676	0.124993705	3.81479014	
CAMTA1	0.471324629	0.124993705	3.96326113	
ADAT1	-0.457959205	0.124993705	-3.820493492	yes
MKRN2	-0.460877423	0.124993705	-3.851377866	
EBF3	0.462590847	0.124993705	3.869585305	yes
CLIP3	0.462232137	0.124993705	3.865768973	
RBPM52	0.486270428	0.124993705	4.1270811	
C10orf113	-0.459040805	0.124993705	-3.831922039	
C7orf59	0.486299445	0.124993705	4.127403646	
ARHGAP6	0.470041698	0.124993705	3.949408476	

LOC400986	-0.457300498	0.124993705	-3.813543907	
MGC57346	-0.464959221	0.124993705	-3.894843398	
MFAP2	0.468011567	0.124993705	3.927553392	
NBL1	0.488505715	0.124993705	4.151980906	
PKP2	-0.508947564	0.124993705	-4.38483621	
JPH2	0.463921649	0.124993705	3.883764903	yes
PITPNM2	0.494867308	0.124993705	4.223437277	yes
REL	-0.465152837	0.124993705	-3.896912957	
FKBP10	0.515567669	0.124993705	4.4623414	yes
RNY5	0.497980757	0.124993705	4.258734897	
SGCA	0.458668042	0.124993705	3.827980866	
ST3GAL2	0.461162532	0.124993705	3.854403726	yes
SMTN	0.476506852	0.124993705	4.01954838	yes
TACR2	0.47002751	0.124993705	3.949255465	
TBX2	0.5129964	0.124993705	4.432111004	yes
TIE1	0.46842265	0.124993705	3.931972395	
C13orf34	-0.482662205	0.124993705	-4.087110923	
DYSF	0.466512128	0.124993705	3.911462573	yes
RNASEH2C	0.494076566	0.124993705	4.214506958	
SHANK3	0.455321021	0.124993705	3.792707384	yes
SYDE1	0.455813825	0.124993705	3.797888116	yes
DCHS1	0.482533369	0.124993705	4.085688794	
TNFSF12	0.507560035	0.124993705	4.368726024	
NAPG	-0.474067477	0.124993705	-3.992986208	
CHMP4C	-0.45659537	0.124993705	-3.806113352	
PDLIM7	0.478354087	0.124993705	4.03974262	yes
CLINT1	-0.459415376	0.124993705	-3.835884902	
CDH23	0.454767947	0.125207071	3.786898292	yes
RAMP2	0.446769841	0.126807835	3.703501686	
MRVI1	0.452942665	0.126807835	3.76776593	
PROCR	0.446438119	0.126807835	3.700067074	
CYP3A5	-0.446987792	0.126807835	-3.705759362	
DCLK2	0.45011862	0.126807835	3.738281937	

FLNC	0.453192826	0.126807835	3.770384542	
EFEMP2	0.449185941	0.126807835	3.728575443	yes
MGAT3	0.447140474	0.126807835	3.707341431	
CALHM2	0.448317425	0.126807835	3.719550436	
APTX	-0.449216486	0.126807835	-3.728893084	yes
DBNDD2	0.4522809	0.126807835	3.760844155	
WFDC1	0.447800072	0.126807835	3.714180745	yes
SOD3	0.44890403	0.126807835	3.72564458	
TGFB111	0.452303071	0.126807835	3.761075919	yes
TLE4	-0.44788691	0.126807835	-3.715081728	yes
GHDC	0.450442853	0.126807835	3.741659854	
C8orf76	-0.450111638	0.126807835	-3.738209213	
TSPAN18	0.447979786	0.126807835	3.716045502	
HMGXB4	-0.443391511	0.128720643	-3.668611579	
HSPB7	0.442910713	0.128720643	3.663661981	
NHSL2	0.442528064	0.128720643	3.659725584	
ZNF295	-0.443177055	0.128720643	-3.666403369	
PDE2A	0.443484661	0.128720643	3.66957097	
PEX13	-0.442008732	0.128720643	-3.654387082	yes
PPM1B	-0.444604066	0.128720643	-3.681111828	
MAPK6	-0.44444036	0.128720643	-3.679422705	
SNORA42	0.444997329	0.128720643	3.68517138	
SYT15	0.442284836	0.128720643	3.657224746	
CNTNAP1	0.441901266	0.128720643	3.65328295	yes
COL4A6	0.434041668	0.128827337	3.573054609	
COX7A1	0.434276026	0.128827337	3.575432125	
SELM	0.435919622	0.128827337	3.592131296	yes
CSNK2A1	-0.440839298	0.128827337	-3.642382521	yes
AEBP1	0.434798583	0.128827337	3.580736593	
ADCY4	0.433529727	0.128827337	3.567864183	
OAF	0.434427841	0.128827337	3.576972744	
SETBP1	0.440085044	0.128827337	3.634652123	
MAGI3	-0.433688733	0.128827337	-3.569475838	

DTWD2	-0.437432211	0.128827337	-3.607538606	
REM1	0.440644382	0.128827337	3.640383905	
C18orf8	-0.439223787	0.128827337	-3.625836704	
MACC1	-0.435274853	0.128827337	-3.585575078	
EGFL7	0.434144573	0.128827337	3.574098457	yes
RASL12	0.434791913	0.128827337	3.580668859	yes
ZCCHC17	-0.437013787	0.128827337	-3.603272741	
RBM47	-0.439198028	0.128827337	-3.625573241	
TADA2L	-0.436717944	0.128827337	-3.600258338	
SNORD7	-0.436051189	0.128827337	-3.593469942	
TPM3	-0.438641033	0.128827337	-3.619878939	
VRK2	-0.434241696	0.128827337	-3.575083807	yes
DSCC1	-0.436981275	0.128827337	-3.602941398	
SLTM	-0.436434759	0.128827337	-3.597374273	
CBFB	-0.441261682	0.128827337	-3.646715747	yes
CCDC109A	-0.436690609	0.128827337	-3.59997989	yes
ACVRL1	0.435701745	0.128827337	3.589915088	yes
HTRA3	0.436936538	0.128827337	3.602485495	
SEC23IP	-0.430957248	0.133025	-3.541846669	yes
NFXL1	-0.430685452	0.133025	-3.539104	
ERCC6	-0.430624601	0.133025	-3.538490126	
KANK2	0.430967511	0.133025	3.541950257	
GPR124	0.431452353	0.133025	3.546845774	yes
SH3YL1	-0.430867773	0.133025	-3.54094366	
SCARF1	0.43077981	0.133025	3.540056028	
LOC100131507	0.429593343	0.135151555	3.528095531	
AFF4	-0.429720871	0.135151555	-3.529380037	
PAPSS1	-0.429164137	0.135871928	-3.523774331	
MUSTN1	0.428565515	0.136246122	3.517752363	
YIPF1	-0.428621673	0.136246122	-3.518317048	
SNORD51	-0.427838236	0.138256385	-3.510443762	
EHD2	0.427109835	0.139231593	3.50313226	
RIOK3	-0.427219496	0.139231593	-3.504232471	

LOC100132564	0.409900827	0.140097373	3.332754731	
FRAT1	0.416323108	0.140097373	3.395818274	yes
TSPAN5	-0.414180872	0.140097373	-3.374715214	
MPHOSPH10	-0.403876837	0.140097373	-3.274144089	
INADL	-0.406946899	0.140097373	-3.303949837	yes
CDKN2D	0.413717406	0.140097373	3.370158565	
MYL9	0.39957141	0.140097373	3.23256702	
NEBL	-0.406260158	0.140097373	-3.297271016	yes
POLR3C	-0.416807249	0.140097373	-3.400596979	yes
NES	0.422177881	0.140097373	3.453844488	yes
ARID5A	0.400691367	0.140097373	3.24335762	
NUPL2	-0.416478666	0.140097373	-3.397353323	
BAZ1A	-0.401495024	0.140097373	-3.251111382	yes
PRAF2	0.419109264	0.140097373	3.423367017	
AP1GBP1	-0.413478196	0.140097373	-3.367807969	
SYNPO	0.414477379	0.140097373	3.377632041	
TMEM200A	-0.413035466	0.140097373	-3.363459697	
C1QTNF1	0.420823745	0.140097373	3.440377546	yes
C1QTNF5	0.404490336	0.140097373	3.280089623	yes
GEFT	0.412618011	0.140097373	3.359362292	yes
CPXM2	0.404948794	0.140097373	3.284536078	
TC2N	-0.400358949	0.140097373	-3.240153025	yes
LEO1	-0.404614136	0.140097373	-3.281290031	
TMEM219	0.401309028	0.140097373	3.249316086	
ZNF792	0.420338201	0.140097373	3.435555605	
TDRD10	0.414775877	0.140097373	3.380569761	
COL4A2	0.400507179	0.140097373	3.241581812	yes
COL6A1	0.422930714	0.140097373	3.461343602	yes
MBOAT2	-0.399282938	0.140097373	-3.229790439	
TRAM1L1	0.424813522	0.140097373	3.480136904	yes
TMEM71	-0.417179652	0.140097373	-3.40427516	
FAM65C	0.407695169	0.140097373	3.311234689	
PTGR2	-0.401837417	0.140097373	-3.254417551	

NOTUM	0.4125153	0.140097373	3.358354556	
RC3H1	-0.39773207	0.140097373	-3.214882619	yes
CLEC14A	0.408408291	0.140097373	3.318184795	yes
DENND2C	-0.40080457	0.140097373	-3.244449277	
ACE	0.412930461	0.140097373	3.362428807	
ATN1	0.400604483	0.140097373	3.242519889	
DSP	-0.40178846	0.140097373	-3.253944715	
ENG	0.409751883	0.140097373	3.331299321	
F2RL1	-0.403672222	0.140097373	-3.272162308	
FABP3	0.400705847	0.140097373	3.243497244	
RTKN2	-0.399291668	0.140097373	-3.229874449	
FBLN2	0.407804307	0.140097373	3.312297875	
SLC16A9	-0.40319887	0.140097373	-3.267579931	
FCGRT	0.402229745	0.140097373	3.258207881	
COG2	-0.408897287	0.140097373	-3.322954779	
ITGA11	0.402906693	0.140097373	3.264753017	
IKZF2	-0.414508752	0.140097373	-3.377940741	yes
ARHGEF15	0.407377569	0.140097373	3.308141681	yes
NT5C2	-0.420605361	0.140097373	-3.438208327	
IGSF9B	0.410709688	0.140097373	3.340664152	
ZNF423	0.401131419	0.140097373	3.24760218	
CAMTA2	0.418297066	0.140097373	3.415324191	
PLXND1	0.411127776	0.140097373	3.344756133	yes
TGDS	-0.413223565	0.140097373	-3.365306755	
BRWD3	-0.416792251	0.140097373	-3.400448891	
BCL6B	0.405385861	0.140097373	3.288777834	
RAB11FIP5	0.420749292	0.140097373	3.439637919	
KAT2A	0.410425864	0.140097373	3.337887707	
GDF10	0.422207131	0.140097373	3.454135693	
ATP5S	-0.423651731	0.140097373	-3.468533973	
PTRF	0.41759412	0.140097373	3.408371242	yes
ZNF326	-0.405339112	0.140097373	-3.288324003	
LOC284837	0.417546179	0.140097373	3.407897319	

MCTS1	-0.403749043	0.140097373	-3.272906279	
GNL2	-0.400782861	0.140097373	-3.244239913	
HIVEP1	-0.400549781	0.140097373	-3.241992508	
ACACB	0.419260263	0.140097373	3.424863392	
HOXB4	0.4028619	0.140097373	3.264319732	
HSF2	-0.399984741	0.140097373	-3.236547384	
SLC10A5	-0.413888774	0.140097373	-3.371843035	
IMPA1	-0.420550062	0.140097373	-3.437659158	yes
ITGB3	0.413470177	0.140097373	3.367729187	
KCNC4	0.415689922	0.140097373	3.389573706	
PEAR1	0.410027464	0.140097373	3.333992421	yes
SLC26A5	-0.405967005	0.140097373	-3.294422034	
KIFC3	0.420460159	0.140097373	3.436766428	
LOC387763	0.410224019	0.140097373	3.33591392	
LOC389813	0.399263035	0.140097373	3.229598907	
RPSA	-0.408868439	0.140097373	-3.322673285	
STX19	-0.422481422	0.140097373	-3.456867076	
MDM2	-0.40032294	0.140097373	-3.239805979	
MN1	0.398401826	0.140097373	3.221316663	yes
BCL2L15	-0.398839074	0.140097373	-3.225520409	
NOTCH4	0.421708663	0.140097373	3.449174917	
OCLN	-0.403580573	0.140097373	-3.271274837	
KLRF1	-0.421093488	0.140097373	-3.443057918	
PDE4A	0.413668612	0.140097373	3.369679024	
ASB2	0.404422687	0.140097373	3.279433767	
PEX7	-0.404032715	0.140097373	-3.275654237	
PFKFB2	-0.407992512	0.140097373	-3.314131718	
PLRG1	-0.399377319	0.140097373	-3.230698742	
PPIL3	-0.414256289	0.140097373	-3.375456988	
LOC100133422	-0.41587641	0.140097373	-3.391412257	yes
ROBO4	0.407213304	0.140097373	3.306542531	yes
FLJ10404	0.411435477	0.140097373	3.347769335	yes
QRICH1	-0.422547856	0.140097373	-3.457528795	

ZWILCH	-0.400344783	0.140097373	-3.240016495	
RALGPS2	-0.425948674	0.140097373	-3.491494046	yes
TMEM39B	0.399171022	0.140097373	3.228713536	
PRPF38B	-0.398372484	0.140097373	-3.221034656	
LARP2	-0.408288149	0.140097373	-3.317013379	
RFWD3	-0.398141711	0.140097373	-3.218817128	
C4orf43	-0.402188182	0.140097373	-3.257806241	
PRKAR1B	0.42556921	0.140097373	3.487695289	
UBAP2	-0.401113521	0.140097373	-3.247429491	
ECHDC1	-0.41280451	0.140097373	-3.361192504	yes
MAPK11	0.399424154	0.140097373	3.23114952	yes
PAPOLB	0.400270331	0.140097373	3.239298981	
MRPS22	-0.424073351	0.140097373	-3.472742325	
SHROOM4	0.418807423	0.140097373	3.420376859	yes
STARD9	0.424473676	0.140097373	3.476740658	
FBRSL1	0.409658259	0.140097373	3.330384631	yes
RAB3IL1	0.400011706	0.140097373	3.23680714	
RPS6KB1	-0.405631068	0.140097373	-3.291158755	
RPS9	0.413386008	0.140097373	3.366902304	
CLEC11A	0.399537612	0.140097373	3.23224165	yes
TNN	0.409586463	0.140097373	3.329683288	
SH3BP2	0.410051776	0.140097373	3.334230068	yes
FAM113A	0.397709144	0.140097373	3.21466249	
VWA1	0.41939641	0.140097373	3.426212886	yes
SKI	0.421946555	0.140097373	3.45154195	
GRAMD3	-0.406076485	0.140097373	-3.29548586	
SNORA58	0.41586268	0.140097373	3.391276872	
SNORA60	0.398129595	0.140097373	3.218700724	
TSPAN4	0.425262583	0.140097373	3.484627336	
TNS1	0.399017433	0.140097373	3.227235917	
TNXB	0.411237001	0.140097373	3.345825571	
TP53BP2	-0.397820369	0.140097373	-3.215730521	
TPD52	-0.418077627	0.140097373	-3.413152888	

LOC730241	0.415111941	0.140097373	3.383878774	
MAP3K12	0.402989038	0.140097373	3.265549608	
SECISBP2	-0.404071192	0.140097373	-3.276027051	yes
C2orf47	-0.42139353	0.140097373	-3.446040666	
FAM118B	-0.407636565	0.140097373	-3.310663849	
C3orf52	-0.413735971	0.140097373	-3.37034103	yes
C15orf29	-0.398398237	0.140097373	-3.221282167	
ZNF703	0.423015558	0.140097373	3.462189301	
NAT13	-0.424950857	0.140097373	-3.481509866	
COQ10B	-0.419308795	0.140097373	-3.425344413	
STAM	-0.397985224	0.140097373	-3.217313843	
COIL	-0.397885537	0.140097373	-3.21635637	
PLVAP	0.40100494	0.140097373	3.246381941	yes
RIOK1	-0.413919337	0.140097373	-3.3721435	
IMMP2L	-0.403855112	0.140097373	-3.273933643	
EMILIN2	0.398643114	0.140097373	3.223636106	
USP42	-0.398607577	0.140097373	-3.223294448	yes
WDR24	0.425606306	0.140097373	3.488066554	
RPAIN	-0.412802947	0.140097373	-3.361177167	
MCM8	-0.410443961	0.140097373	-3.338064708	
RTN4IP1	-0.406448509	0.140097373	-3.299102135	
ZNF496	0.4053873	0.140097373	3.288791803	
PPFIA1	-0.424385053	0.140097373	-3.475855308	
NKD1	0.403251343	0.140097373	3.26808775	yes
RTCD1	-0.402130119	0.140097373	-3.25724518	yes
EIF3A	-0.414582261	0.140097373	-3.378664101	
CACNA1H	0.409545468	0.140097373	3.329282859	
STBD1	0.399122181	0.140097373	3.22824362	
MAP3K14	0.411186744	0.140097373	3.345333474	
ANKRD40	0.415545136	0.140097373	3.388146636	
MYOM2	0.416034453	0.140097373	3.392970776	
WDR20	-0.415361472	0.140097373	-3.386336828	
GPR52	-0.403423803	0.140097373	-3.269757042	

ZBTB47	0.398508382	0.140097373	3.222340863	
TRIP4	-0.41653899	0.140097373	-3.397948701	yes
SYTL4	-0.424636676	0.140097373	-3.478369373	
PPP1R14A	0.411210731	0.140097373	3.345568345	
CHST10	0.398100985	0.140097373	3.218425863	yes
SCARB1	0.410343254	0.140097373	3.337079821	
BAG5	-0.400576773	0.140097373	-3.242252731	
CD40	0.405664762	0.140097373	3.291485987	
ADAMTSL2	0.411524684	0.140097373	3.348643167	
SART3	-0.404726322	0.140097373	-3.282378019	
BMS1	-0.398930824	0.140097373	-3.226402836	
SV2A	0.404455209	0.140097373	3.279749056	
ROD1	-0.402263563	0.140097373	-3.258534704	yes
LOC100128868	-0.395784602	0.14343078	-3.196208804	
ADAMTS8	0.395773119	0.14343078	3.196098847	
ICK	-0.396597238	0.14343078	-3.203994738	
RASSF3	0.396486035	0.14343078	3.202928767	
C9orf142	0.39674734	0.14343078	3.205433849	yes
LOC100133424	-0.395912703	0.14343078	-3.197435553	
RPS19	0.395732797	0.14343078	3.195712756	
HORMAD1	-0.395884193	0.14343078	-3.197162513	
FUBP1	-0.396116165	0.14343078	-3.199384459	
ESAM	0.395944598	0.14343078	3.197741033	
SMARCD3	0.395565925	0.143650323	3.194115161	yes
LOC100128576	-0.39026611	0.143875608	-3.143569377	
LOC100130174	0.390488685	0.143875608	3.14568465	
SEMA6B	0.392688246	0.143875608	3.166623627	yes
B3GNT1	0.39312315	0.143875608	3.17077134	
NTN5	0.391276423	0.143875608	3.153176278	
C20orf94	-0.392381683	0.143875608	-3.163701434	
OR10A5	0.392100103	0.143875608	3.161018466	
CST1	0.392427443	0.143875608	3.16413754	
LOC150763	0.392748031	0.143875608	3.167193652	

PPP4R2	-0.390665098	0.143875608	-3.14736168	
CCNY	-0.390521356	0.143875608	-3.145995196	yes
STAB1	0.393418133	0.143875608	3.173586042	
FAM89B	0.390605214	0.143875608	3.146792362	
SGK3	-0.393748402	0.143875608	-3.176738818	
TES	-0.393968349	0.143875608	-3.178839254	
LRRC32	0.390353108	0.143875608	3.144396098	
DENND2A	0.391244545	0.143875608	3.15287295	
HCCS	-0.393139288	0.143875608	-3.170925297	yes
LOC339483	0.391428198	0.143875608	3.154620639	
FAM70B	0.392282851	0.143875608	3.162759615	yes
NPR1	0.39194702	0.143875608	3.159560299	
SEPSECS	-0.391243315	0.143875608	-3.152861245	
PPP1R12C	0.391940285	0.143875608	3.159496152	yes
PRKACA	0.394620444	0.143875608	3.185070401	
C12orf11	-0.39301724	0.143875608	-3.169761037	
NXT2	-0.390644226	0.143875608	-3.147163241	yes
FEM1C	-0.390400829	0.143875608	-3.144849616	
PTGS1	0.392403113	0.143875608	3.163905663	
NLGN2	0.394802639	0.143875608	3.186812407	
RPS6KA2	0.392272753	0.143875608	3.162663396	
BGN	0.392847995	0.143875608	3.168146877	
FN3K	0.393460493	0.143875608	3.173990333	
LOC646316	-0.393281042	0.143875608	-3.172277789	
TBP	-0.394663846	0.143875608	-3.185485338	
TCF3	0.390374513	0.143875608	3.144599515	
UGT8	-0.392321768	0.143875608	-3.163130463	
ZNF189	-0.390650001	0.143875608	-3.147218144	
GRRP1	0.394067157	0.143875608	3.179783056	
SCUBE1	0.393612132	0.143875608	3.175437795	
FIP1L1	-0.391598481	0.143875608	-3.1562415	
ITCH	-0.390788571	0.143875608	-3.148535693	
REPS1	-0.393574865	0.143875608	-3.175082037	

EAF1	-0.394680222	0.143875608	-3.1856419	
RGS11	0.390706672	0.143875608	3.147756952	yes
ADAMTSL1	0.391921953	0.143875608	3.159321557	yes
ADAMTS2	0.393185332	0.143875608	3.171364577	
GOSR1	-0.39276428	0.143875608	-3.16734859	
BZW1	-0.391200055	0.143875608	-3.152449637	
VPRBP	-0.390299111	0.143875608	-3.143882964	
ARHGEF17	0.393740769	0.143875608	3.176665937	
HSPG2	0.390164866	0.143887294	3.142607399	
RMRP	0.389969418	0.144272414	3.140750728	
ZDHC13	-0.38953497	0.145610053	-3.136625444	yes
ABI1	-0.386790282	0.146776845	-3.110620212	yes
LOC100127980	-0.389122954	0.146776845	-3.132715444	
TOM1L1	-0.386762776	0.146776845	-3.11036009	
SORBS3	0.382438816	0.146776845	3.069589884	
CDK7	-0.382171814	0.146776845	-3.06708014	
RAPGEF3	0.384376055	0.146776845	3.087826419	yes
CHD2	-0.383550264	0.146776845	-3.080046866	
EMILIN1	0.382746609	0.146776845	3.072484167	
SLC46A1	0.384889552	0.146776845	3.092668324	
C16orf42	0.386015563	0.146776845	3.103297591	
CPT1C	0.381749701	0.146776845	3.063114236	
SHE	0.386152919	0.146776845	3.104595312	
COL1A1	0.382982317	0.146776845	3.074701416	
COL15A1	0.387115642	0.146776845	3.113697813	
PNCK	0.380837238	0.146776845	3.054548964	yes
RBM2FP	0.383883208	0.146776845	3.083182399	
SASS6	-0.383540757	0.146776845	-3.079957349	
C14orf147	-0.387806079	0.146776845	-3.120233236	
MPZL3	-0.380708592	0.146776845	-3.053342216	
ABCA2	0.388104258	0.146776845	3.123057591	
ERCC5	-0.382698657	0.146776845	-3.072033179	
PHACTR1	0.383470745	0.146776845	3.079298191	

C7orf27	0.382745954	0.146776845	3.072478001	
SMC5	-0.383246037	0.146776845	-3.07718301	
FLT4	0.388698821	0.146776845	3.128692765	yes
TENC1	0.380689674	0.146776845	3.05316477	
ALPPL2	0.381769522	0.146776845	3.063300404	
BRI3	0.387764042	0.146776845	3.119835149	
NGDN	-0.381046381	0.146776845	-3.056511265	
GPR110	-0.385556043	0.146776845	-3.098957874	
SNORD4B	-0.386143036	0.146776845	-3.104501931	
SNORD52	-0.382216852	0.146776845	-3.06750342	
SNORD50A	0.381135054	0.146776845	3.057343407	
CCDC59	-0.387877792	0.146776845	-3.120912395	
ANXA1	-0.38631417	0.146776845	-3.106119099	
ZBTB8OS	-0.381316323	0.146776845	-3.059044819	
IDE	-0.385664573	0.146776845	-3.09998259	
ITGA9	0.383375959	0.146776845	3.078405888	
KPNA1	-0.382417259	0.146776845	-3.069387221	
KRAS	-0.380809555	0.146776845	-3.054289275	yes
LAMB2	0.383056034	0.146776845	3.075394999	
C14orf181	0.381013711	0.146776845	3.056204696	
MAP3K11	0.385010762	0.146776845	3.09381173	yes
ATOX1	0.384978364	0.146776845	3.093506092	
NFX1	-0.388462683	0.146776845	-3.126454142	yes
NOS3	0.385710668	0.146776845	3.100417848	
PAWR	-0.382791257	0.146776845	-3.072904103	
TAOK3	-0.381012001	0.146776845	-3.05618865	
PDE3A	0.386830405	0.146776845	3.110999664	
ATP6V1H	-0.383345791	0.146776845	-3.078121918	
DPH5	-0.385658675	0.146776845	-3.099926891	
PKD1	0.385949298	0.146776845	3.102671612	
PLA2G4A	-0.382764496	0.146776845	-3.072652398	
STX18	-0.382563439	0.146776845	-3.07076161	
CSNK1G1	-0.384976535	0.146776845	-3.093488837	

MIOS	-0.38426955	0.146776845	-3.086822573	
DKFZP434I0714	-0.381549919	0.146776845	-3.061237991	
RBM35A	-0.387800957	0.146776845	-3.120184729	
PI4K2B	-0.383115691	0.146776845	-3.075956353	
IMPACT	-0.381779955	0.146776845	-3.063398403	
RP5-1022P6.2	-0.385671122	0.146776845	-3.100044423	
DIABLO	-0.386762433	0.146776845	-3.110356852	
GRAMD1A	0.384994921	0.146776845	3.093662291	
PYGM	0.385761016	0.146776845	3.100893302	
RAB27B	-0.385096385	0.146776845	-3.094619557	
MAK10	-0.381474077	0.146776845	-3.060525854	yes
SMAP1	-0.383441476	0.146776845	-3.079022647	
CENPK	-0.388929922	0.146776845	-3.130884346	
TINAGL1	0.384555729	0.146776845	3.089520226	
SNORA19	-0.380970164	0.146776845	-3.055796088	
MPP5	-0.385126608	0.146776845	-3.094904721	
UNKL	0.386178031	0.146776845	3.104832594	yes
USP46	-0.384807991	0.146776845	-3.091899035	yes
PINK1	0.382886652	0.146776845	3.073801436	
SNCG	0.381845264	0.146776845	3.064011884	
SNORA29	-0.383958138	0.146776845	-3.083888253	
TEC	-0.385914339	0.146776845	-3.102341393	
LOC728844	-0.383191658	0.146776845	-3.076671237	
ZNF207	-0.384142186	0.146776845	-3.085622321	
ZNF655	-0.384011485	0.146776845	-3.08439083	
FAM65A	0.38738711	0.146776845	3.116266693	yes
MMRN2	0.384017059	0.146776845	3.084443345	
C4orf29	-0.387410306	0.146776845	-3.116486239	
ADAMTS10	0.387835498	0.146776845	3.120511838	yes
HIST3H3	0.382137703	0.146776845	3.06675957	
NUDT12	-0.385228566	0.146776845	-3.095866819	
UTP23	-0.381680005	0.146776845	-3.062459625	
LCOR	-0.386840148	0.146776845	-3.111091807	yes

TUBB6	0.382122344	0.146776845	3.06661523	yes
FIZ1	0.385564405	0.146776845	3.099036813	
HIST1H2BK	-0.388214617	0.146776845	-3.124103209	
AGPS	-0.381716431	0.146776845	-3.062801748	
EIF3J	-0.38105442	0.146776845	-3.056586702	
SNX21	0.38778719	0.146776845	3.120054353	
SYNGR1	0.38136672	0.146776845	3.05951793	
ZNF670	-0.382857793	0.146776845	-3.07352996	
SDC3	0.383936241	0.146776845	3.083681966	
AHCYL1	-0.376479421	0.147306678	-3.013785435	
VAMP5	0.376732243	0.147306678	3.016143943	
MRPS30	-0.378554289	0.147306678	-3.03316462	
ADCY5	0.378259871	0.147306678	3.030411525	
MED8	-0.376096074	0.147306678	-3.010210782	
ADCYAP1R1	0.377683067	0.147306678	3.025020967	
COL4A1	0.377407798	0.147306678	3.022449872	yes
AASDH	-0.376770295	0.147306678	-3.016498983	
FAM69B	0.377646289	0.147306678	3.024677402	yes
UPRT	-0.376419642	0.147306678	-3.01322788	
FAM76B	-0.377700897	0.147306678	-3.025187536	
C1orf58	-0.376553576	0.147306678	-3.014477128	yes
TMEM56	-0.376455856	0.147306678	-3.013565639	
LOC149643	-0.377133444	0.147306678	-3.019888253	
PAQR3	-0.379341639	0.147306678	-3.040532375	
PPTC7	-0.376327325	0.147306678	-3.012366948	
DBN1	0.376072079	0.147306678	3.009987097	yes
DENND1B	-0.378933984	0.147306678	-3.036716719	
C9orf25	0.375934096	0.147306678	3.008700908	
CIC	0.379439134	0.147306678	3.041445244	
ANP32C	0.376568768	0.147306678	3.01461884	
LOC26010	-0.378025608	0.147306678	-3.028221714	
RNU5F	0.376035198	0.147306678	3.009643292	
GCLC	-0.376335165	0.147306678	-3.012440055	yes

GTF2F2	-0.379043624	0.147306678	-3.037742747	
IPP	-0.376665226	0.147306678	-3.015518679	yes
KIF3C	0.377285113	0.147306678	3.021304262	
LGALS1	0.379571229	0.147306678	3.04268226	
MFGE8	0.37603917	0.147306678	3.009680324	
NAP1L4	-0.378284189	0.147306678	-3.030638886	
NEUROD2	0.378426121	0.147306678	3.031965994	
SHANK1	0.37612185	0.147306678	3.010451084	
SNX7	-0.379894852	0.147306678	-3.045713777	
PPHLN1	-0.37720868	0.147306678	-3.020590629	
NLK	-0.377504309	0.147306678	-3.023351209	
PIK3CB	-0.377591668	0.147306678	-3.024167175	
SEP4	0.376795943	0.147306678	3.016738309	yes
ING3	-0.378616735	0.147306678	-3.033748689	
KLHL28	-0.378090931	0.147306678	-3.028832261	
RASIP1	0.376224729	0.147306678	3.011410273	yes
C10orf118	-0.376970609	0.147306678	-3.018368318	
PPP2R2A	-0.377875048	0.147306678	-3.026814684	
KIRREL	0.377066246	0.147306678	3.019260971	
UTP3	-0.377016096	0.147306678	-3.018792866	
RAD23B	-0.376376631	0.147306678	-3.012826752	
RFNG	0.379262076	0.147306678	3.039787501	
RINT1	-0.377172444	0.147306678	-3.020252342	
ACBD3	-0.379561703	0.147306678	-3.042593043	
SLC5A4	0.376799691	0.147306678	3.016773284	
SNORD45C	-0.380096004	0.147306678	-3.047598714	
TMF1	-0.378576019	0.147306678	-3.033367862	
CACNA1C	0.375937678	0.147306678	3.008734295	
CXorf36	0.377791896	0.147306678	3.026037723	
RIN3	0.378977891	0.147306678	3.037127588	
WNT10A	0.37862721	0.147306678	3.033846662	
LOC81691	-0.379793471	0.147306678	-3.044763957	
SGK196	-0.376574467	0.147306678	-3.014671997	

CORO6	0.379712226	0.147306678	3.044002876	
MBD2	-0.375846249	0.147306678	-3.007882182	
PLAA	-0.377492702	0.147306678	-3.023242805	
MTFR1	-0.378392816	0.147306678	-3.031654555	
USP6NL	-0.375801491	0.147306678	-3.007465068	yes
CKAP5	-0.379042547	0.147306678	-3.037732666	
RASEF	-0.37521187	0.147664865	-3.001972591	
RBM34	-0.375275575	0.147664865	-3.002565812	
SLC6A17	0.375304743	0.147664865	3.002837447	yes
SAR1B	-0.375322443	0.147664865	-3.003002282	
PLEKHB2	-0.375576184	0.147664865	-3.005365771	
ZCCHC6	-0.375543059	0.147664865	-3.005057184	
RUSC2	0.375327196	0.147664865	3.003046546	yes
LIAS	-0.374586064	0.147964431	-2.996147674	yes
AP1G1	-0.373788991	0.147964431	-2.988735529	
DES	0.374384783	0.147964431	2.994275192	
PSME4	-0.374107617	0.147964431	-2.991697567	
GGT5	0.374372889	0.147964431	2.994164558	yes
HOXB3	0.374483016	0.147964431	2.995188976	
COPZ2	0.374954284	0.147964431	2.999574434	yes
CD320	0.373744478	0.147964431	2.988321814	
SOX18	0.374560082	0.147964431	2.995905941	
PCBP4	0.373815851	0.147964431	2.988985173	yes
MCOLN1	0.374782336	0.147964431	2.997974037	
KCNK15	0.374414244	0.147964431	2.99454923	
TAGLN	0.373998472	0.147964431	2.990682789	
SNORD75	-0.37382488	0.147964431	-2.989069099	
NRIP1	-0.374075265	0.147964431	-2.991396761	
CASP8	-0.37430467	0.147964431	-2.993530049	
RPPH1	0.374652299	0.147964431	2.996763952	
ACTN1	0.37421884	0.147964431	2.992731823	
CRADD	-0.374379139	0.147964431	-2.994222698	
FAM38A	0.373861078	0.147964431	2.989405565	

EIF4G2	-0.373580319	0.148334849	-2.986796313	yes
ELF1	-0.373212704	0.148472627	-2.983381307	yes
NSMCE2	-0.37325077	0.148472627	-2.98373485	
ARSB	0.373136719	0.148472627	2.982675641	
TFB1M	-0.37324649	0.148472627	-2.9836951	
STK31	-0.373137151	0.148472627	-2.98267965	
OXSR1	-0.373422769	0.148472627	-2.985332529	
CYGB	0.373006045	0.148716647	2.981462237	
PIBF1	-0.372184703	0.148792996	-2.973840223	
WTIP	0.372345669	0.148792996	2.975333334	yes
DLAT	-0.372456052	0.148792996	-2.976357426	yes
EPHB4	0.372569266	0.148792996	2.977407936	
FLT3LG	0.371723399	0.148792996	2.969562895	
PIP5K1C	0.372694607	0.148792996	2.978571152	
RASD2	0.372385859	0.148792996	2.975706191	
PGBD2	-0.372334362	0.148792996	-2.975228442	
PSMC3IP	-0.37174409	0.148792996	-2.969754691	
DNTTIP2	-0.372568348	0.148792996	-2.977399415	
TMEM119	0.371988809	0.148792996	2.97202353	
ILK	0.372858355	0.148792996	2.980091081	
ATP1B1	-0.372774096	0.148792996	-2.979308938	
C20orf111	-0.371770742	0.148792996	-2.970001757	
PODXL	0.372237258	0.148792996	2.974327688	
KIF16B	-0.371954751	0.148792996	-2.97170773	
LST1	0.371720541	0.148792996	2.969536406	
C9orf82	-0.371840825	0.148792996	-2.970651459	
NDEL1	-0.371723591	0.148792996	-2.969564671	
EZH2	-0.371388556	0.148872335	-2.966459749	
NCBP1	-0.371311664	0.148872335	-2.965747342	
RENBP	0.371307742	0.148872335	2.965711007	
ZNF131	-0.371441257	0.148872335	-2.966948064	
CAPNS1	-0.371423449	0.148872335	-2.966783055	
HYAL2	0.371600161	0.148872335	2.968420635	

SLC25A13	-0.370786619	0.14888591	-2.960884689	
PODN	0.37085808	0.14888591	2.96154633	
NACC2	0.370922547	0.14888591	2.96214326	
ADRA2C	0.371207482	0.14888591	2.964782207	yes
HELLS	-0.371012451	0.14888591	-2.962975805	
HSPA14	-0.37084253	0.14888591	-2.961402351	
C1orf103	-0.371145479	0.14888591	-2.964207878	
CA12	-0.371058401	0.14888591	-2.96340136	
ATP6VOE2	0.370335212	0.149119342	2.956706657	
ARID2	-0.370214386	0.149119342	-2.955588763	yes
LNX2	-0.370443463	0.149119342	-2.957708367	
OSTF1	-0.370557974	0.149119342	-2.958768147	
HIST2H2BF	-0.37024675	0.149119342	-2.955888179	
RADIL	0.370247495	0.149119342	2.955895075	
SMO	0.370273919	0.149119342	2.95613955	
FAM104A	-0.370376487	0.149119342	-2.957088587	
RPL18AP6	0.369915477	0.149352472	2.952823954	
PARVB	0.369948805	0.149352472	2.953132171	yes
MAN1C1	0.369771634	0.149352472	2.951493826	
CA11	0.369841165	0.149352472	2.952136754	
POF1B	-0.369743281	0.149352472	-2.951231679	
PLOD3	0.369966487	0.149352472	2.9532957	
DUSP27	0.369710928	0.149352472	2.950932551	
HNRNPM	-0.369580735	0.149611682	-2.949728957	
RMI1	-0.369304242	0.150437342	-2.947173542	
SHC2	0.369239536	0.150444753	2.946575639	
SNORD116-6	0.364279255	0.150614697	2.900887952	
TANK	-0.368280239	0.150614697	-2.937717312	
LOC100131054	0.367190347	0.150614697	2.927666212	
PDCD6	-0.367465461	0.150614697	-2.930202026	
RAMP1	0.365945373	0.150614697	2.916201983	yes
DLEU1	-0.366834905	0.150614697	-2.924391314	
MAP3K7IP1	0.366379979	0.150614697	2.920201959	

VASN	0.368499577	0.150614697	2.939741764	yes
ZNF618	0.363407638	0.150614697	2.892889347	
ATG4A	-0.363331649	0.150614697	-2.892192434	
GIPC3	0.367521795	0.150614697	2.930721388	
NDUFA11	0.369041447	0.150614697	2.944745556	
COL8A1	0.367881117	0.150614697	2.934034941	
AP1S3	-0.367257805	0.150614697	-2.928287916	
C20orf160	0.365556769	0.150614697	2.912627272	yes
MIB2	0.364801953	0.150614697	2.905688838	
PARP4	-0.364540335	0.150614697	-2.903285532	
CSNK1A1	-0.364174558	0.150614697	-2.899926712	yes
CSTF3	-0.362875452	0.150614697	-2.888009922	
TMEM65	-0.368750252	0.150614697	-2.942056136	
DLG4	0.364525535	0.150614697	2.903149594	
LPAR1	-0.363267036	0.150614697	-2.891599899	
ZUFSP	-0.364066396	0.150614697	-2.89893379	
SETD1B	0.365211383	0.150614697	2.909451579	yes
AVL9	-0.367129183	0.150614697	-2.927102571	
FLNA	0.364513649	0.150614697	2.903040429	
ARL6IP1	-0.366993463	0.150614697	-2.925852019	
ANGEL1	0.364988588	0.150614697	2.907403806	
DULLARD	0.368926785	0.150614697	2.943686441	
GABBR1	0.363512928	0.150614697	2.8938551	
MAP3K7IP3	-0.364677669	0.150614697	-2.904547022	yes
IFFO1	0.363280151	0.150614697	2.89172017	
OLFML2B	0.366457621	0.150614697	2.920916778	
PELP1	0.36509046	0.150614697	2.908340073	
KIAA1274	0.36428811	0.150614697	2.90096926	
GPR133	0.368431986	0.150614697	2.939117847	
LOC283398	-0.363222923	0.150614697	-2.891195389	
C3orf23	-0.364546445	0.150614697	-2.903341653	
GRIK2	-0.368864878	0.150614697	-2.943114683	
GSK3B	-0.36645357	0.150614697	-2.920879481	yes

TMOD3	-0.367144673	0.150614697	-2.92724531	yes
LMCD1	0.363480345	0.150614697	2.893556227	yes
ANXA2	-0.362941497	0.150614697	-2.888615284	yes
HIC1	0.363515249	0.150614697	2.893876392	
HPCAL1	0.367599925	0.150614697	2.931441751	
EVX2	0.368117011	0.150614697	2.936211113	yes
ZBTB41	-0.366925966	0.150614697	-2.92523017	
HDDC3	0.363499655	0.150614697	2.893733348	
CA13	-0.366298369	0.150614697	-2.919450676	
SAMD12	-0.368736153	0.150614697	-2.941925953	
C8orf82	0.366965383	0.150614697	2.925593312	yes
MFNG	0.363546921	0.150614697	2.894166922	
MTF1	-0.367803713	0.150614697	-2.933321017	yes
NID1	0.363599515	0.150614697	2.894649407	
ROR2	0.364290939	0.150614697	2.900995234	
PAR6A	0.363087244	0.150614697	2.889951378	
FIS1	0.36410674	0.150614697	2.899304133	
TUBD1	-0.366607357	0.150614697	-2.922295543	
AIG1	-0.363979571	0.150614697	-2.898136844	yes
ANAPC7	-0.367199716	0.150614697	-2.92775256	
ISYNA1	0.368964549	0.150614697	2.944035242	
FAM49B	-0.367011618	0.150614697	-2.926019293	
TRMT6	-0.362874135	0.150614697	-2.887997851	
PIGA	-0.36641853	0.150614697	-2.92055687	
PLCG1	0.363220392	0.150614697	2.891172183	
PRR13	0.363164737	0.150614697	2.890661872	
TET2	-0.368436371	0.150614697	-2.939158325	yes
PRKAA1	-0.364650373	0.150614697	-2.904296278	
SMEK1	-0.366052538	0.150614697	-2.917188087	
SLC2A4RG	0.364920187	0.150614697	2.906775227	
CHMP1B	-0.364023327	0.150614697	-2.898538461	
SEPN1	0.362937241	0.150614697	2.888576278	
PLEKHA4	0.367280712	0.150614697	2.928499042	

PXN	0.365958924	0.150614697	2.916326676	
RAB5A	-0.362832776	0.150614697	-2.887618777	
ZNF350	-0.367021728	0.150614697	-2.926112435	
HIF3A	0.366753974	0.150614697	2.923645845	
RPS18P9	0.363041595	0.150614697	2.889532876	
ARMCX5	-0.363416063	0.150614697	-2.892966623	
RSRC2	-0.367428689	0.150614697	-2.92986304	
SLC12A4	0.365607083	0.150614697	2.913089998	
SLC15A2	-0.367363085	0.150614697	-2.929258292	yes
MTMR9	-0.362966858	0.150614697	-2.888847757	
SNAPC2	0.367193016	0.150614697	2.92769081	yes
TACR1	0.36459899	0.150614697	2.90382428	
ZNF184	-0.363216511	0.150614697	-2.891136599	
C9orf16	0.366407913	0.150614697	2.920459126	
ATHL1	0.365873119	0.150614697	2.9155372	
PLEKHO2	0.364744634	0.150614697	2.905162219	
LBH	0.36367449	0.150614697	2.895337255	
SF3A2	0.36358877	0.150614697	2.894550833	
TCF7L1	0.366356894	0.150614697	2.91998943	
PCBD2	-0.364499912	0.150614697	-2.902914264	
EEA1	-0.368933213	0.150614697	-2.943745811	
TEAD2	0.364116247	0.150614697	2.899391402	
USP38	-0.363926623	0.150614697	-2.897650885	yes
LNX1	-0.364800656	0.150614697	-2.905676923	
LOC84740	0.363014854	0.150614697	2.889287736	
C1orf170	0.363585308	0.150614697	2.894519067	
CAMK1	0.366514043	0.150614697	2.921436284	
WISP1	0.367462277	0.150614697	2.930172671	
SESTD1	-0.36377137	0.150614697	-2.896226163	
ZW10	-0.367025953	0.150614697	-2.926151368	
RAB9P1	0.365146167	0.150614697	2.908852107	
EIF2AK3	-0.367142018	0.150614697	-2.927220844	
VPS4B	-0.366835964	0.150614697	-2.924401063	

N4BP1	-0.367695096	0.150614697	-2.932319322	yes
RAB11FIP3	0.363478874	0.150614697	2.893542736	
GOLGA5	-0.364831111	0.150614697	-2.90595674	
MED31	-0.362710521	0.150872854	-2.886498382	
C10orf18	-0.362623035	0.150991252	-2.885696736	
MAGI2	0.362570816	0.150991252	2.885218283	
SIPA1	0.362446902	0.151256853	2.884083061	
KHDRBS1	-0.36185523	0.151472809	-2.87866495	
SEC24A	-0.362218447	0.151472809	-2.881990559	
TTC39C	-0.361362988	0.151472809	-2.874160406	yes
SLC44A3	-0.361220122	0.151472809	-2.872853539	
YTHDF3	-0.361439449	0.151472809	-2.874859917	
GYPE	0.361230493	0.151472809	2.872948398	
CCDC36	0.361831911	0.151472809	2.878451492	
ITGB5	0.361213384	0.151472809	2.87279191	
LOC401010	0.362182559	0.151472809	2.881661902	
SMAD6	0.361365702	0.151472809	2.874185228	
ADAP2	0.361231218	0.151472809	2.872955032	
APOB48R	0.361364232	0.151472809	2.874171786	
LANCL2	-0.361847878	0.151472809	-2.878597652	
BCCIP	-0.361880952	0.151472809	-2.878900408	
RAP2C	-0.362077664	0.151472809	-2.880701369	
RPL13AP3	0.361297073	0.151472809	2.873557421	
TFE3	0.361530077	0.151472809	2.87568914	
NLRX1	0.361450998	0.151472809	2.874965585	
GGNBP2	-0.361744079	0.151472809	-2.877647554	
BXDC5	-0.361288585	0.151472809	-2.873479771	
MCEE	-0.361418324	0.151472809	-2.874666646	
OXNAD1	-0.361736994	0.151472809	-2.877582713	yes
MORF4L2	-0.36108412	0.151763973	-2.871609687	yes
LOC100133404	0.360964348	0.151879644	2.87051444	yes
IRF2BP1	0.360948364	0.151879644	2.870368286	yes
SLC29A1	0.360499721	0.152283258	2.866267243	

GTPBP4	-0.360475456	0.152283258	-2.866045496	
PGGT1B	-0.360498127	0.152283258	-2.866252675	
FANCI	-0.360726854	0.152283258	-2.86834318	
CCBL2	-0.360577451	0.152283258	-2.866977604	
TPM2	0.360728347	0.152283258	2.868356822	
SLC10A7	-0.360488822	0.152283258	-2.866167645	
C14orf132	0.360369665	0.152487813	2.865078825	
SNORD30	-0.360308049	0.152523945	-2.864515868	
MOC33	-0.360254186	0.152530693	-2.864023769	yes
CDKN1C	0.359699389	0.152854722	2.858957082	
ARFGEF2	-0.359597477	0.152854722	-2.858026744	
PRKCDBP	0.359835212	0.152854722	2.860197162	
JMJD2C	-0.359448823	0.152854722	-2.856669927	
RTF1	-0.359450809	0.152854722	-2.856688049	
IBTK	-0.359694384	0.152854722	-2.858911386	
PABPC1	-0.359909113	0.152854722	-2.860871975	
GNL1	0.359984938	0.152854722	2.861564429	
SLC45A1	0.359723643	0.152854722	2.859178506	yes
AXL	0.359455074	0.152854722	2.856726973	
SNRPD1	-0.359446051	0.152854722	-2.856644621	
CDC23	-0.359515548	0.152854722	-2.857278914	
TBX4	0.359884496	0.152854722	2.860647187	
NPEPPS	-0.35988916	0.152854722	-2.860689771	
FAM108B1	-0.359274777	0.153313553	-2.855081655	
TXNDC9	-0.358652521	0.153418942	-2.84940602	
ADCY3	0.358023681	0.153418942	2.843674757	
PTP4A3	0.358675437	0.153418942	2.849614962	
ERI2	-0.357984108	0.153418942	-2.843314235	
MTERFD2	-0.358316852	0.153418942	-2.846346174	
PUS10	-0.358470617	0.153418942	-2.847747685	
HEBP2	-0.3580397	0.153418942	-2.843820696	yes
SNORD53	-0.358802425	0.153418942	-2.850772903	
TESSP2	0.358448018	0.153418942	2.847541685	

IER5L	0.358164786	0.153418942	2.844960404	
LTBP3	0.358233241	0.153418942	2.845584199	
POLR1D	-0.358288273	0.153418942	-2.846085707	
DYNC1LI1	-0.358085513	0.153418942	-2.844238099	
SS18L2	-0.358515032	0.153418942	-2.848152557	
GFOD1	0.358977217	0.153418942	2.852367043	
CABP4	0.358008446	0.153418942	2.843535955	
CHD8	-0.358370272	0.153418942	-2.846833043	
RPS6KA3	-0.358236894	0.153418942	-2.845617485	
MOP-1	-0.358953885	0.153418942	-2.852154236	
TBX3	0.358341776	0.153418942	2.846573329	
C16orf57	0.358893888	0.153418942	2.851607024	
FLJ14213	0.359175277	0.153418942	2.854173821	
ZNF414	0.35821708	0.153418942	2.845436922	
SCRN2	0.358663018	0.153418942	2.849501721	
NUPL1	-0.358316902	0.153418942	-2.846346629	yes
XRCC4	-0.357926896	0.153447178	-2.842793049	
CYTH3	0.357864548	0.153495209	2.842225118	
RNF166	0.357494271	0.154711901	2.838853137	
SNORD102	-0.357447285	0.154711901	-2.838425365	
COPB1	-0.357378076	0.1547171	-2.83779531	
C2orf29	-0.357346691	0.1547171	-2.837509611	
AQP1	0.357265028	0.154840455	2.83676628	
CLIP1	-0.356918528	0.155793746	-2.833613108	yes
VIP	0.35695837	0.155793746	2.833975606	
LOC116236	0.356568708	0.15581288	2.830431089	
C10orf46	-0.356779968	0.15581288	-2.832352581	yes
RCAN1	0.356598312	0.15581288	2.830700316	
C20orf200	0.356671676	0.15581288	2.83136756	
SLC2A8	0.356850312	0.15581288	2.832992496	
NUP88	-0.356706756	0.15581288	-2.83168663	
ADAMTSL4	0.356581411	0.15581288	2.830546615	
NFE2L2	-0.356408433	0.156242324	-2.828973657	

ITGA5	0.356279022	0.156406085	2.827797091	
PRR16	0.356268089	0.156406085	2.827697692	
TAS2R44	-0.35621245	0.156432058	-2.827191902	
FLOT1	0.356083471	0.156742146	2.826019548	
STAMBP	-0.356019178	0.15680204	-2.825435224	
CCDC75	-0.355962246	0.156833609	-2.824917838	
DHRS9	-0.355457547	0.156909629	-2.820332812	yes
MMAA	-0.355813927	0.156909629	-2.823570118	
ADAMTS15	0.355518583	0.156909629	2.820887156	
ZFP30	-0.355838289	0.156909629	-2.823791471	
HNF4G	-0.35559521	0.156909629	-2.821583157	
TMEM41B	-0.355491459	0.156909629	-2.820640806	
LOC645139	-0.355679852	0.156909629	-2.822352036	
TRPS1	-0.355748668	0.156909629	-2.82297721	
ARRDC4	-0.355657506	0.156909629	-2.822149035	
PPM1F	0.355503931	0.156909629	2.820754084	
IARS	-0.355370206	0.157025055	-2.819539638	
REV1	-0.355331318	0.157025055	-2.81918651	
SEMA4F	0.354607211	0.158162295	2.812614175	
RBCK1	0.354930711	0.158162295	2.815549698	
CHML	-0.354941268	0.158162295	-2.815645514	
SPTY2D1	-0.354680443	0.158162295	-2.813278605	
SERINC5	-0.354471415	0.158162295	-2.811382275	
ERO1L	-0.354483975	0.158162295	-2.811496203	
ERGIC2	-0.354418099	0.158162295	-2.810898667	
MRPS21	-0.354387973	0.158162295	-2.810625418	yes
FBLIM1	0.354271957	0.158162295	2.809573219	
SAPS3	-0.354582476	0.158162295	-2.812389777	yes
RIOK2	-0.354567944	0.158162295	-2.812257936	
NUFIP2	-0.354480877	0.158162295	-2.811468109	yes
CLEC3B	0.354284246	0.158162295	2.809684661	yes
PRR14	0.354777807	0.158162295	2.814162067	
AOC3	0.354828803	0.158162295	2.814624838	

LRRFIP2	-0.354302397	0.158162295	-2.809849281	
POM121	0.354226234	0.158162295	2.809158582	
LCN10	0.354010093	0.158652795	2.807198813	yes
PPARD	0.354005535	0.158652795	2.807157496	
CDH5	0.353672299	0.159032326	2.804137043	
SGOL2	-0.353741064	0.159032326	-2.804760232	
CD93	0.353682166	0.159032326	2.804226464	
ERP44	-0.353706157	0.159032326	-2.804443879	
AGFG1	-0.353803733	0.159032326	-2.805328218	
ACADSB	-0.353543156	0.159093501	-2.802966816	
ZNF805	-0.353468723	0.159093501	-2.802292427	
VTA1	-0.35348998	0.159093501	-2.802485023	yes
WEE1	-0.353575712	0.159093501	-2.803261803	
C6orf174	0.353409447	0.159141942	2.801755413	
AHCYL2	-0.35329455	0.159300318	-2.800714607	
CTDSP1	0.353252883	0.159300318	2.800337191	
USP7	-0.353228554	0.159300318	-2.800116837	
SSX3	0.352715681	0.159416505	2.795473032	
CEBPG	-0.352841082	0.159416505	-2.796608209	
TMEM182	-0.352679371	0.159416505	-2.795144373	
ELN	0.352594869	0.159416505	2.794379561	
CBX7	0.352517719	0.159416505	2.793681362	
LOC285550	-0.352954897	0.159416505	-2.79763865	
ZNF643	0.353036367	0.159416505	2.798376345	
CLDN5	0.352662972	0.159416505	2.794995946	
DAP3	-0.352459986	0.159416505	-2.793158924	yes
GSDMD	0.352365562	0.159416505	2.79230454	
NARG1	-0.352516591	0.159416505	-2.793671157	
PCGF6	0.352401847	0.159416505	2.792632847	
LZTS2	0.35313572	0.159416505	2.799276058	
FNDC1	0.352520942	0.159416505	2.79371053	
HDGF2	0.352623355	0.159416505	2.79463738	
MFSD9	-0.353094452	0.159416505	-2.798902334	

CENPL	-0.352441085	0.159416505	-2.792987891	
C14orf43	0.352934441	0.159416505	2.797453437	
SNORD116-4	0.351703377	0.159418447	2.786315588	
C17orf69	-0.351884785	0.159418447	-2.787955806	
UBXN4	-0.352056717	0.159418447	-2.78951068	
GNL3	-0.35204574	0.159418447	-2.789411399	
GTPBP8	-0.351765147	0.159418447	-2.786874047	
FOXI2	0.351894033	0.159418447	2.788039435	
MRPL30	-0.351681837	0.159418447	-2.786120853	
TERF2IP	-0.351719475	0.159418447	-2.786461122	
MUDENG	-0.351682586	0.159418447	-2.786127622	yes
S100A10	-0.352142939	0.159418447	-2.790290556	
SHB	0.352084867	0.159418447	2.789765285	
THOP1	0.352178189	0.159418447	2.790609415	
XRCC5	-0.351843591	0.159418447	-2.787583316	
MIS12	-0.352127469	0.159418447	-2.790150624	yes
COL18A1	0.352024838	0.159418447	2.789222356	
ASB7	-0.351578247	0.159494722	-2.785184416	
PCGF2	0.351571862	0.159494722	2.7851267	
LMOD1	0.351307028	0.159823874	2.782733195	
PIGW	-0.351313328	0.159823874	-2.782790127	
RARS2	-0.351406704	0.159823874	-2.783633948	
TCEB3	-0.351390396	0.159823874	-2.783486571	
SIVA1	0.351190952	0.159992432	2.781684372	
C2orf7	0.351173868	0.159992432	2.781530017	
LOC100130019	-0.351091859	0.160001646	-2.780789111	
C1orf107	-0.351081799	0.160001646	-2.780698227	
MARCH5	-0.35092984	0.160419379	-2.779325572	
MEGF6	0.350835745	0.160611966	2.778475737	
C4orf34	-0.350744529	0.160793613	-2.777651996	
METT5D1	-0.35068107	0.160866994	-2.777078962	
DAPK3	0.35057501	0.161107238	2.776121354	
MRC2	0.350455206	0.161401769	2.775039793	yes

IL2	0.35031619	0.161422893	2.77378499	
OAT	-0.350382205	0.161422893	-2.774380839	
DDX46	-0.350345345	0.161422893	-2.774048135	
KCNK1	-0.350220102	0.161521013	-2.772917796	
SNORA36A	0.350157899	0.161521013	2.772356459	
TLE2	0.350175271	0.161521013	2.772513226	
HBII-52-27	0.35004685	0.161527024	2.771354431	
PCDHGA5	0.350023478	0.161527024	2.771143559	
TMEM185B	0.350045901	0.161527024	2.771345868	
RANBP9	-0.349889265	0.161626881	-2.769932728	
C16orf63	-0.349679809	0.161626881	-2.768043475	
FGD5	0.349408657	0.161626881	2.765598431	
CALML6	0.349389757	0.161626881	2.765428034	
APLNR	0.348869524	0.161626881	2.760739283	
SDR16C5	-0.349348269	0.161626881	-2.765054003	
DAAM2	0.348881224	0.161626881	2.760844697	yes
MORC3	-0.348775273	0.161626881	-2.759890133	
SGEF	-0.349714232	0.161626881	-2.76835393	
HOXB6	0.349540793	0.161626881	2.766789832	yes
LOC387825	0.34892803	0.161626881	2.761266443	
SULT6B1	0.34939679	0.161626881	2.765491437	
OSBP	-0.348797457	0.161626881	-2.76008999	
C14orf129	-0.349514696	0.161626881	-2.766554517	
RTEL1	0.349696515	0.161626881	2.768194139	
PHKA1	-0.349184116	0.161626881	-2.763574282	
REST	-0.349852236	0.161626881	-2.769598703	
RGS3	0.349049717	0.161626881	2.762362995	
SRL	0.349208933	0.161626881	2.763797977	
CCDC90A	-0.34920045	0.161626881	-2.763721508	
SNORA5C	0.349405968	0.161626881	2.765574184	
SPATA5L1	-0.349126187	0.161626881	-2.763052171	
TMEM14B	-0.348835519	0.161626881	-2.760432906	yes
DUSP11	-0.349183525	0.161626881	-2.763568957	

EIF2B2	-0.349079507	0.161626881	-2.762631461	
USP10	-0.348997616	0.161626881	-2.761893477	yes
VPS26A	-0.348781582	0.161626881	-2.759946969	
USP3	-0.348889605	0.161626881	-2.760920218	
SH2D3C	0.348450726	0.161971551	2.756966856	
TSPYL3	0.348528615	0.161971551	2.757668317	
HTRA2	0.348555467	0.161971551	2.757910163	
TBC1D8B	-0.348398686	0.161971551	-2.756498228	
EED	-0.348499192	0.161971551	-2.757403332	
MYOCD	0.348386193	0.161971551	2.75638573	
CTR9	-0.348549601	0.161971551	-2.757857329	
PACS2	0.348211172	0.162349899	2.754809856	
SLC9A8	-0.348173044	0.162349899	-2.754466601	
C5orf43	-0.348131582	0.162349899	-2.754093347	
TMEM156	-0.348118353	0.162349899	-2.753974267	
PBRM1	-0.348032637	0.16235136	-2.753202689	yes
SHCBP1	-0.348057259	0.16235136	-2.75342432	
UNQ565	-0.347368503	0.162812549	-2.747227157	
JARID1B	-0.347582517	0.162812549	-2.749152234	
CYP2C18	-0.347816538	0.162812549	-2.751257825	
GRASP	0.347018423	0.162812549	2.744079214	yes
SPIN3	0.346956837	0.162812549	2.74352557	
N6AMT2	-0.347288288	0.162812549	-2.746505747	
COTL1	0.347500129	0.162812549	2.74841109	
C10orf28	-0.3475062	0.162812549	-2.748465698	
GSPT1	-0.34778988	0.162812549	-2.751017944	
C15orf38	0.347775644	0.162812549	2.750889847	
ZNF321	-0.346904578	0.162812549	-2.743055792	
MAP3K4	-0.34686045	0.162812549	-2.742659142	
P2RX7	0.347079195	0.162812549	2.744625588	
TDP1	-0.346880986	0.162812549	-2.742843732	yes
MCTP2	-0.347134433	0.162812549	-2.74512224	
C3orf14	-0.346894932	0.162812549	-2.742969085	

ZSWIM6	-0.347395215	0.162812549	-2.74746741	
MCCC2	-0.346872688	0.162812549	-2.742769139	
GZF1	-0.346998347	0.162812549	-2.74389873	
STIL	-0.347304525	0.162812549	-2.746651773	
SNORD59B	-0.347618903	0.162812549	-2.749479579	
TMOD1	0.34703074	0.162812549	2.744189948	
TPP2	-0.347072998	0.162812549	-2.744569873	
SELI	-0.347394692	0.162812549	-2.747462706	
B4GALT4	-0.346919123	0.162812549	-2.743186539	
EXOSC9	-0.346765755	0.163019878	-2.741808021	
OSBPL3	-0.346672671	0.163087619	-2.740971471	yes
FLJ45717	0.346665144	0.163087619	2.740903827	
BTBD10	-0.346557664	0.163345666	-2.739938028	
INTS9	-0.346465084	0.163545675	-2.739106217	
MPHOSPH9	-0.345995196	0.163556871	-2.734885755	
ESCO1	-0.346179266	0.163556871	-2.736538762	
C5orf37	-0.34594761	0.163556871	-2.734458481	
SRPX2	-0.345840526	0.163556871	-2.733497051	
C11orf54	-0.346358244	0.163556871	-2.738146388	
GTF2E2	-0.345952291	0.163556871	-2.734500505	yes
SMAD7	0.345677205	0.163556871	2.732030939	
CITED1	0.345638121	0.163556871	2.731680135	
MBD3	0.345962633	0.163556871	2.734593365	
FBXO34	-0.345853472	0.163556871	-2.733613271	
LGR4	-0.346017188	0.163556871	-2.73508323	
GPAM	-0.345753063	0.163556871	-2.732711873	
SLC26A6	0.345710292	0.163556871	2.732327933	
TYROBP	0.346020034	0.163556871	2.735108788	
EFHD1	0.345759256	0.163556871	2.73276746	
CBR4	-0.345776292	0.163556871	-2.732920396	
KRIT1	-0.346223855	0.163556871	-2.736939244	
TAF1A	-0.345711149	0.163556871	-2.732335632	
UBE2M	0.346323627	0.163556871	2.737835427	

UTP14C	-0.346184298	0.163556871	-2.736583958	
C18orf25	-0.34548666	0.16367057	-2.730320804	
EPN1	0.345518374	0.16367057	2.730605406	
TAF9	-0.345507969	0.16367057	-2.730512032	
UCHL5	-0.345318571	0.164169663	-2.728812532	
ADK	-0.345061983	0.16417162	-2.726510717	
GLUD1	-0.345141021	0.16417162	-2.727219682	
PGM2L1	-0.345193169	0.16417162	-2.727687481	yes
RBM27	-0.345067759	0.16417162	-2.726562527	
RBBP6	-0.345033766	0.16417162	-2.726257628	
LOC728115	-0.345265056	0.16417162	-2.728332393	
CCDC28B	0.345147239	0.16417162	2.727275458	
COL16A1	0.344594138	0.164391153	2.72231554	
EFCAB3	0.344688849	0.164391153	2.723164634	
ZNF775	0.344895786	0.164391153	2.725020164	yes
LMO7	-0.344728876	0.164391153	-2.723523505	
MYO6	-0.344534322	0.164391153	-2.721779333	yes
GOLPH3L	-0.344537034	0.164391153	-2.721803643	yes
RAB27A	-0.34454972	0.164391153	-2.721917362	
SPI1	0.344635964	0.164391153	2.722690503	
MRP63	-0.344781027	0.164391153	-2.7239911	yes
KALRN	0.344669137	0.164391153	2.722987906	
ARHGAP12	-0.344604875	0.164391153	-2.722411798	
TMSB15A	0.344331522	0.16489806	2.719961664	
OFCC1	0.344324948	0.16489806	2.719902748	
DIS3	-0.344212783	0.165024077	-2.718897626	
NT5C	0.34423919	0.165024077	2.719134253	
CRIP1	-0.34416507	0.165054387	-2.718470101	
N4BP2	-0.344057742	0.165088936	-2.717508498	
TPR	-0.344036466	0.165088936	-2.717317894	
SLC39A13	0.344090667	0.165088936	2.717803479	
NPDC1	0.343782895	0.165816709	2.715046561	yes
PPP1R9B	0.343771896	0.165816709	2.714948052	

CHD7	-0.343681851	0.166014856	-2.714141662	yes
UBE2W	-0.343629528	0.166064283	-2.713673125	
LOC100132394	0.343520396	0.166219302	2.712695965	
NRAS	-0.343455501	0.166219302	-2.712114961	
POLR2H	-0.343431371	0.166219302	-2.711898945	yes
TMEM87B	-0.343473182	0.166219302	-2.712273258	
RPL31	-0.343326717	0.16647621	-2.710962098	
C14orf126	-0.343051438	0.166518975	-2.708498398	
LRRC8B	-0.343039214	0.166518975	-2.708389007	yes
NOVA2	0.343234464	0.166518975	2.710136356	
DDX47	-0.343213509	0.166518975	-2.709948808	
PSMA4	-0.343172768	0.166518975	-2.70958418	
FAHD1	-0.343066448	0.166518975	-2.708632708	
ANKRD32	-0.343044962	0.166518975	-2.708440446	
C5orf48	0.342924598	0.166816432	2.707363466	
SUPT16H	-0.342747893	0.167006857	-2.705782632	
CHEK2	-0.34254705	0.167006857	-2.703986257	
RNF141	-0.34269273	0.167006857	-2.705289202	
USP53	-0.342471241	0.167006857	-2.703308316	
FBXL12	0.342468964	0.167006857	2.703287954	
C1orf27	-0.342623147	0.167006857	-2.704666683	
KIAA1370	-0.34253309	0.167006857	-2.703861411	
RASGRF2	0.342568937	0.167006857	2.704182001	
SNTA1	0.342576125	0.167006857	2.704246285	yes
CAPN2	-0.342445051	0.167006857	-2.703074121	
MED17	-0.342793105	0.167006857	-2.70618708	
FANCD2	-0.342312294	0.167377966	-2.701887088	
NTHL1	0.342210469	0.167627046	2.700976752	
NAALADL1	0.341934196	0.167644738	2.698507368	
PAIP1	0.341405339	0.167644738	2.693782546	
KLHL2	-0.340732745	0.167644738	-2.687777763	
LRRC3B	0.340832058	0.167644738	2.688664115	
COL13A1	0.342025795	0.167644738	2.699326016	

CSF1	0.340836685	0.167644738	2.688705413	
CDAN1	0.341176048	0.167644738	2.691734955	
DDX3X	-0.340953339	0.167644738	-2.689746668	yes
CLN8	-0.341642377	0.167644738	-2.695899898	
WDR43	-0.341207544	0.167644738	-2.692016185	
METAP1	-0.341586074	0.167644738	-2.695396909	
ANGPTL2	0.340746957	0.167644738	2.68790459	
CXorf23	-0.340586076	0.167644738	-2.686468946	
THUMPD3	-0.341768737	0.167644738	-2.697028843	
TIPRL	-0.341979167	0.167644738	-2.698909277	
GSTM5	0.342087427	0.167644738	2.699876882	
ICAM2	0.340833958	0.167644738	2.688681069	
POL3S	0.340556911	0.167644738	2.686208719	
FOXK2	0.340773973	0.167644738	2.688145699	
ITGAM	0.340587863	0.167644738	2.68648489	
JUND	0.341592445	0.167644738	2.695453831	
KIF7	0.341579625	0.167644738	2.6953393	
C6orf120	-0.341543178	0.167644738	-2.695013726	
FAM148B	0.341188374	0.167644738	2.691845018	
NME3	0.341264852	0.167644738	2.692527925	
HDAC7	0.341884904	0.167644738	2.698066871	
TRIM33	-0.341319169	0.167644738	-2.693012978	
FNBP1L	-0.341622159	0.167644738	-2.695719271	
LRRC40	-0.340610534	0.167644738	-2.686687183	
GJC2	0.341245174	0.167644738	2.692352205	
RNF2	-0.341503146	0.167644738	-2.694656141	yes
RPL4P4	-0.340595943	0.167644738	-2.686556991	
ST13	-0.341852398	0.167644738	-2.697776396	
NR2F1	0.341112489	0.167644738	2.691167465	
THRB	-0.340758948	0.167644738	-2.688011609	
FASTKD3	-0.341181892	0.167644738	-2.691787141	
C1orf89	0.340946958	0.167644738	2.689689707	
CALCB	0.340981679	0.167644738	2.689999648	

ABTB1	0.342148496	0.167644738	2.700422755	
YIPF5	-0.34174373	0.167644738	-2.696805408	
C16orf13	0.341732778	0.167644738	2.696707555	
KCNQ4	0.342105717	0.167644738	2.700040366	
PUM1	-0.340908376	0.167644738	-2.689345308	
SNORD116-29	0.340322075	0.167686208	2.684113673	
AEBP2	-0.340211732	0.167686208	-2.683129468	
SNORD80	-0.340395375	0.167686208	-2.684767541	
GTF2B	-0.340170726	0.167686208	-2.682763741	
LOC407835	0.340388383	0.167686208	2.684705166	
C2orf56	-0.340415602	0.167686208	-2.684947991	
LPPR2	0.340255781	0.167686208	2.683522348	
CPEB4	-0.340172001	0.167686208	-2.682775112	
BLZF1	-0.340332626	0.167686208	-2.684207792	
CDC25B	0.340182676	0.167686208	2.682870318	
DAB2IP	0.339517577	0.167768959	2.676940796	
TSNARE1	0.340102689	0.167768959	2.682156973	
FOXF2	0.339683778	0.167768959	2.6784221	
NIACR1	0.339631476	0.167768959	2.677955915	
PALM	0.339560795	0.167768959	2.677325962	
PCOLCE	0.339863392	0.167768959	2.680023257	
HCFC1R1	0.3395688	0.167768959	2.677397305	
ARMC1	-0.339703512	0.167768959	-2.678597997	
RBM41	-0.340025575	0.167768959	-2.681469315	
SMARCC1	-0.339949857	0.167768959	-2.680794169	
TMEM204	0.339957436	0.167768959	2.680861744	
FAR1	-0.339535895	0.167768959	-2.677104048	
CUL4A	-0.339827228	0.167768959	-2.679700846	
PRKRA	-0.339538806	0.167768959	-2.677129992	
CCND3	0.339738363	0.167768959	2.678908661	
GGTLC2	0.339880706	0.167768959	2.680177618	
TGS1	-0.339709196	0.167768959	-2.678648666	
SLMO2	-0.339478951	0.167775617	-2.676596582	yes

C19orf71	0.339397129	0.16778218	2.675867461	
CD2AP	-0.339350973	0.16778218	-2.675456192	
C1GALT1	-0.339329822	0.16778218	-2.675267736	
SNX16	-0.339351553	0.16778218	-2.675461364	
CDK8	-0.338892591	0.167849663	-2.671373033	
RPL23AP7	0.338953085	0.167849663	2.671911775	
CD200R1	-0.338419183	0.167849663	-2.667158278	
EIF2S3	-0.338336465	0.167849663	-2.666422078	
SERPINB1	-0.338647761	0.167849663	-2.669193026	
FAM185A	-0.338347819	0.167849663	-2.666523125	
DOPEY1	-0.339013439	0.167849663	-2.672449312	yes
IPMK	-0.338572917	0.167849663	-2.668526726	yes
LHX6	0.338352451	0.167849663	2.666564346	
TUSC1	0.338842428	0.167849663	2.670926327	
ZNF260	-0.338427533	0.167849663	-2.667232595	
ZNF662	0.338378063	0.167849663	2.666792298	
TXNDC12	-0.338915592	0.167849663	-2.671577874	
SLC15A3	0.33843119	0.167849663	2.667265152	
AFTPH	-0.338389113	0.167849663	-2.666890646	yes
WHSC1L1	-0.338324784	0.167849663	-2.666318117	
ZNF280C	-0.338743362	0.167849663	-2.670044199	
METTL2B	-0.339183226	0.167849663	-2.673961696	
REXO1	0.338528784	0.167849663	2.668133858	yes
BAI2	0.338964817	0.167849663	2.672016266	
RAB3A	0.338348551	0.167849663	2.666529642	
MAPK12	0.338292564	0.167849663	2.666031373	
DKFZP779L1853	-0.338839604	0.167849663	-2.670901176	
VAMP2	0.339210514	0.167849663	2.674204789	
CASP3	-0.338689286	0.167849663	-2.669562728	
MAP4K3	-0.338340007	0.167849663	-2.666453601	
SERPINB11	-0.338982641	0.167849663	-2.672175005	
EIF5B	-0.339054357	0.167849663	-2.672813758	
C14orf101	-0.338220069	0.167992758	-2.665386251	

COPZ1	-0.338149129	0.16812992	-2.664755014	
LARP4	-0.337992822	0.168525135	-2.663364345	
SLC17A5	-0.337935852	0.168525135	-2.662857538	
PCIF1	0.337920971	0.168525135	2.662725162	
PPAPDC3	0.33786886	0.168525135	2.66226162	
PPIL4	-0.337879965	0.168525135	-2.662360406	
ADRA1D	0.337815382	0.168594386	2.661785955	
SPERT	0.337667771	0.168779588	2.660473146	
KIF5B	-0.337667463	0.168779588	-2.660470404	
MAN2A2	0.337534237	0.168779588	2.659285728	
MYL2	0.33749242	0.168779588	2.658913914	
PIN4	-0.337543789	0.168779588	-2.659370663	
ZFP62	-0.337535331	0.168779588	-2.659295456	
SRPK1	-0.337482177	0.168779588	-2.658822849	
PUS3	-0.337599219	0.168779588	-2.659863542	
SNORD115-38	0.337345806	0.16889563	2.657610462	
MKL1	0.337346499	0.16889563	2.657616617	
CCNC	-0.337388316	0.16889563	-2.657988365	
GIN1	-0.337212394	0.169281185	-2.656424559	
ERLIN1	-0.337066071	0.169343272	-2.655124103	yes
NUP50	-0.336898647	0.169343272	-2.653636379	
LCAT	0.337030483	0.169343272	2.654807852	
MSX1	0.336877442	0.169343272	2.653447976	
MT1M	0.337008989	0.169343272	2.654616844	
VPS54	-0.336900202	0.169343272	-2.653650202	
FAM60A	-0.336912225	0.169343272	-2.653757025	yes
VWF	0.336990201	0.169343272	2.654449892	
WHSC1	-0.337131983	0.169343272	-2.655709876	
hCG_1644301	0.336657168	0.169790287	2.651491105	
GRSF1	-0.336631531	0.169790287	-2.65126338	
GSTM2	0.336636009	0.169790287	2.651303156	
C11orf83	0.336622913	0.169790287	2.651186838	
INTS10	-0.336567251	0.169870896	-2.650692442	

PAXIP1	-0.336337754	0.170082607	-2.648654364	
ATP11B	-0.336462108	0.170082607	-2.649758636	
ORC6L	-0.336432686	0.170082607	-2.64949736	
SEC61A2	-0.33636316	0.170082607	-2.648879959	
ADAM15	0.336363769	0.170082607	2.648885373	
SLC36A4	-0.336255162	0.170188241	-2.647921026	
NCDN	0.336208445	0.170188241	2.64750626	
EGLN1	0.336170721	0.170188241	2.647171346	
PYROXD1	-0.336204458	0.170188241	-2.647470863	
ZNF616	-0.336096963	0.170341434	-2.646516564	
CAPRIN1	-0.336048444	0.170394926	-2.646085872	
ACCN4	0.335919812	0.170566761	2.644944152	
H2AFY	-0.335900169	0.170566761	-2.644769816	yes
STARD8	0.335931498	0.170566761	2.645047865	
POP4	-0.335720519	0.171140513	-2.643175582	
ARFIP1	-0.335675085	0.171182346	-2.642772441	
DARC	0.335639227	0.171186253	2.642454292	
GJC1	0.335435189	0.171305174	2.640644193	
C1QTNF2	0.335415875	0.171305174	2.640472865	
CRTC1	0.335304775	0.171305174	2.639487457	yes
FAM19A5	0.33541168	0.171305174	2.640435656	
KIAA1279	-0.335360842	0.171305174	-2.639984734	yes
SYNJ2BP	-0.335517684	0.171305174	-2.641375982	
RPL28	-0.335306269	0.171305174	-2.639500707	
ATG3	-0.335450594	0.171305174	-2.640780843	
OSBPL2	-0.335296482	0.171305174	-2.639413904	
OLFM2	0.335225707	0.171448621	2.638786231	
TIGD5	0.335139263	0.171654499	2.638019664	
FLJ36070	0.335063231	0.171759795	2.637345481	
FZD4	0.335043602	0.171759795	2.637171444	
HMBOX1	-0.335001588	0.171789462	-2.636798941	
LRP5L	0.334871377	0.172170193	2.635644574	
PRRC1	-0.334327282	0.172211471	-2.630822824	

DNAJC21	-0.33455323	0.172211471	-2.632824806	
C19orf25	0.334506931	0.172211471	2.632414541	
DMWD	0.334313833	0.172211471	2.630703675	
LACE1	-0.334456663	0.172211471	-2.631969121	
IL11RA	0.334648525	0.172211471	2.633669311	
TMPRSS9	0.334571014	0.172211471	2.632982398	
PPP2CA	-0.33424334	0.172211471	-2.630079189	
SCYL2	-0.334475059	0.172211471	-2.632132125	
PLXDC1	0.334417099	0.172211471	2.631618567	
ACTR3B	-0.334401995	0.172211471	-2.631484746	
TRMT5	-0.334789663	0.172211471	-2.634920233	
RALA	-0.334388909	0.172211471	-2.631368811	
TRAPPC10	-0.334800701	0.172211471	-2.635018078	
ZYX	0.334267884	0.172211471	2.630296613	
CROCCL1	0.334632104	0.172211471	2.633523779	
BUB3	-0.334391188	0.172211471	-2.631389	
PLCH2	0.334288859	0.172211471	2.630482427	
SNORD115-3	0.33383751	0.172217323	2.626485008	
SNORA70B	-0.33307956	0.172217323	-2.619776719	
PGRMC2	-0.333293771	0.172217323	-2.62167203	
MSL3	-0.333411399	0.172217323	-2.622712978	yes
PWP1	-0.333502686	0.172217323	-2.623520921	
PDCD10	-0.33265893	0.172217323	-2.616056367	
CYP2R1	-0.333766948	0.172217323	-2.62586025	
C18orf19	-0.333011729	0.172217323	-2.619176657	
CNN1	0.333012355	0.172217323	2.619182189	
VPS37A	-0.332832252	0.172217323	-2.617589141	
SLC30A7	-0.334036329	0.172217323	-2.628245618	
CTNNA1	-0.333025975	0.172217323	-2.61930268	
LOC150197	0.333499522	0.172217323	2.623492916	
C8orf37	-0.332932647	0.172217323	-2.618477116	
PI16	0.333073322	0.172217323	2.619721528	
ELL2	-0.334097964	0.172217323	-2.628791499	

AOF2	-0.332890429	0.172217323	-2.61810369	
SH2B1	0.333852238	0.172217323	2.626615415	
HEYL	0.332875688	0.172217323	2.61797331	
SEC22A	-0.33384127	0.172217323	-2.626518306	
WDR51B	-0.333075183	0.172217323	-2.619737994	yes
GTF2E1	-0.332876986	0.172217323	-2.617984794	
HAS1	0.332906882	0.172217323	2.618249221	yes
ANXA2P2	-0.334048333	0.172217323	-2.62835193	yes
HOXA4	0.333408917	0.172217323	2.62269101	
C2orf46	0.333516226	0.172217323	2.623640763	
KRT26	0.333849114	0.172217323	2.626587757	
ORC4L	-0.333236253	0.172217323	-2.621163068	
UBE2J1	-0.334041443	0.172217323	-2.628290912	
SIRT6	0.332597923	0.172217323	2.615516924	
PRMT6	-0.333810658	0.172217323	-2.626247253	
LINS1	-0.332612734	0.172217323	-2.615647886	
ZNF823	-0.333127155	0.172217323	-2.620197791	yes
CRAMP1L	0.333541043	0.172217323	2.623860422	
KIAA1468	-0.332940574	0.172217323	-2.618547234	yes
SH2D4A	-0.33268617	0.172217323	-2.616297241	
TFB2M	-0.332783112	0.172217323	-2.617154542	
HS1BP3	0.333824477	0.172217323	2.626369612	
SLC26A10	0.332762909	0.172217323	2.616975872	yes
RERGL	0.332858415	0.172217323	2.61782054	
UBTD1	0.33264483	0.172217323	2.615931692	
TMEM62	-0.33322547	0.172217323	-2.621067664	
HIST1H4A	0.332911753	0.172217323	2.618292299	
CUL3	-0.33408066	0.172217323	-2.628638236	
RNGTT	-0.334094227	0.172217323	-2.6287584	
C16orf45	0.3327449	0.172217323	2.616816602	
KIFC2	0.33265387	0.172217323	2.616011624	
CCPG1	-0.333752763	0.172217323	-2.625734664	
GCC2	-0.333582577	0.172217323	-2.624228066	

LSG1	-0.332547567	0.172285989	-2.615071693	
RAB35	0.332486925	0.172340526	2.614535544	
RAB2A	-0.332467849	0.172340526	-2.614366891	
SNORD116-8	0.33185096	0.172377111	2.608915026	
LOC100128922	-0.331734653	0.172377111	-2.607887569	
CCL26	0.331966392	0.172377111	2.609934897	
KATNA1	-0.332145229	0.172377111	-2.611515211	yes
MAL2	-0.332162359	0.172377111	-2.611666603	yes
C4orf32	0.331818354	0.172377111	2.608626976	
C1orf211	0.332004504	0.172377111	2.610271652	
ADSS	-0.331684586	0.172377111	-2.607445317	
ZNF676	0.332372615	0.172377111	2.613525004	
SSBP4	0.331690227	0.172377111	2.607495141	
OBSL1	0.332233256	0.172377111	2.612293192	
HSPA8	-0.331985193	0.172377111	-2.610101013	
ILF2	-0.331731382	0.172377111	-2.607858676	
FLJ44674	0.332045162	0.172377111	2.610630919	
MCAM	0.332327021	0.172377111	2.613121969	
MEOX1	0.331609145	0.172377111	2.606778972	
GIMAP6	0.331812232	0.172377111	2.608572889	
OTC	0.331672089	0.172377111	2.60733493	
SEMA5B	0.331973405	0.172377111	2.609996861	
RNF111	-0.332184907	0.172377111	-2.611865878	
LRFN3	0.331641449	0.172377111	2.607064296	
C3orf39	0.331984234	0.172377111	2.610092545	
CBLB	-0.331776547	0.172377111	-2.608257647	yes
PNPT1	-0.33205224	0.172377111	-2.610693462	
TRIP11	-0.331750639	0.172377111	-2.608028778	
FADS2	0.331969117	0.172377111	2.609958972	
LOC100128233	0.330999324	0.17269869	2.601394728	
LOC100130401	-0.330825091	0.17269869	-2.599857059	
LOC100131373	0.330704872	0.17269869	2.598796253	
UNQ1829	-0.329802397	0.17269869	-2.590837428	

YME1L1	-0.330347132	0.17269869	-2.595640429	
PNKP	0.330010454	0.17269869	2.592671546	
TMC6	0.330615241	0.17269869	2.59800545	
MYOM3	0.330862332	0.17269869	2.600185696	
ZBTB46	0.330106696	0.17269869	2.593520114	
UNC45B	0.330017924	0.17269869	2.592737411	yes
DUSP3	0.330694095	0.17269869	2.598701166	
CCDC107	0.330239467	0.17269869	2.594690901	
FAM83B	-0.331432913	0.17269869	-2.605222603	
CASP14	0.330858422	0.17269869	2.600151194	
FBXO10	0.329744623	0.17269869	2.590328191	yes
AP3M1	-0.330351263	0.17269869	-2.595676866	
GPD2	-0.329865552	0.17269869	-2.591394117	
OLA1	-0.331413429	0.17269869	-2.605050552	
RPS2P11	0.330682833	0.17269869	2.598601799	
INHBA	0.330672357	0.17269869	2.598509367	
LGALS3	-0.330190885	0.17269869	-2.594262482	yes
LLGL1	0.329766345	0.17269869	2.590519647	
MMP16	0.330828329	0.17269869	2.599885632	
MTIF2	-0.329973892	0.17269869	-2.592349207	
MYO1D	-0.330879358	0.17269869	-2.600335955	
ATP2B1	-0.330266998	0.17269869	-2.594933696	
LOC100133420	0.330432125	0.17269869	2.596390083	
TAS2R3	-0.330619786	0.17269869	-2.598045547	
GLOD4	-0.330502746	0.17269869	-2.597013032	
DERA	-0.330565786	0.17269869	-2.597569152	
CERCAM	0.329758295	0.17269869	2.590448697	
INPP5K	0.330968437	0.17269869	2.601122119	
CCDC25	-0.330495741	0.17269869	-2.596951243	
WDR41	-0.329854148	0.17269869	-2.591293595	
FAM178A	-0.330052039	0.17269869	-2.593038196	
EXOC1	-0.33093017	0.17269869	-2.600784384	
HTRA1	0.330070188	0.17269869	2.593198207	yes

C12orf5	-0.330508891	0.17269869	-2.597067243	
SCAF1	0.330080504	0.17269869	2.593289173	
RABGGTB	-0.32976993	0.17269869	-2.590551246	
RARRES2	0.32976207	0.17269869	2.590481974	
ZDHHC6	-0.330307396	0.17269869	-2.595289977	
hCG_1793639	0.330174187	0.17269869	2.594115233	
C1QC	0.330253961	0.17269869	2.594818717	
TSG101	-0.330341513	0.17269869	-2.595590867	
LOC727726	-0.33093843	0.17269869	-2.600857285	
ZNF74	0.33046511	0.17269869	2.596681043	
CDC73	-0.330583144	0.17269869	-2.597722287	
WDR26	-0.330175003	0.17269869	-2.594122426	yes
THUMPD2	-0.331058391	0.17269869	-2.601916082	
MARVELD1	0.33058233	0.17269869	2.597715105	
ULK1	0.331386928	0.17269869	2.604816546	
RAB2B	-0.330509789	0.17269869	-2.597075162	yes
SUCLA2	-0.330591833	0.17269869	-2.597798942	
ASH2L	-0.329766977	0.17269869	-2.59052522	
KIAA0415	0.330026183	0.17269869	2.592810226	
FAM177A1	-0.329591827	0.173176909	-2.588981574	
SNORD116-25	0.327870912	0.173279015	2.573830598	yes
SNORD115-32	0.328236561	0.173279015	2.577047367	
RTN3	-0.328488944	0.173279015	-2.579268454	
RPP38	-0.329350181	0.173279015	-2.586852376	
CCT6B	-0.327861492	0.173279015	-2.57374774	
DDX52	-0.328889341	0.173279015	-2.582793386	
LDB3	0.327776326	0.173279015	2.57299869	
GALNT5	-0.328142077	0.173279015	-2.576216026	
FAM54A	-0.328632247	0.173279015	-2.580529854	
OSBPL11	-0.329281891	0.173279015	-2.586250766	
ERCC8	-0.327721804	0.173279015	-2.5725192	
TMIGD2	0.328492439	0.173279015	2.579299212	
DYNC1L12	-0.329393728	0.173279015	-2.587236042	

NID2	0.327728495	0.173279015	2.572578041	
SACM1L	-0.328217634	0.173279015	-2.576880827	
CNOT1	-0.328258638	0.173279015	-2.577241631	yes
FAM175B	-0.328703244	0.173279015	-2.581154866	
ANKRD28	-0.328681922	0.173279015	-2.580967162	
ZNF629	0.328414967	0.173279015	2.578617354	
NAALADL2	-0.327958551	0.173279015	-2.574601479	
FAM98A	-0.328525613	0.173279015	-2.579591204	
PPP1R16B	0.329457672	0.173279015	2.587799431	
RNU5E	0.328176268	0.173279015	2.57651686	
ANK3	-0.32912511	0.173279015	-2.584869739	yes
ZDHC8	0.329233428	0.173279015	2.585823844	
FAM149B1	-0.327718034	0.173279015	-2.572486045	yes
HNRNPAB	-0.327903672	0.173279015	-2.574118745	
IDH3A	-0.329433645	0.173279015	-2.587587734	yes
CD300E	0.329411533	0.173279015	2.587392914	
ARRB1	0.327680044	0.173279015	2.572151963	
IER5	0.328412646	0.173279015	2.578596929	
PDE9A	0.328052206	0.173279015	2.575425357	yes
UPB1	0.329470945	0.173279015	2.587916386	
PGM3	-0.328756917	0.173279015	-2.581627407	
S1PR5	0.328104351	0.173279015	2.575884114	
MRPL39	-0.329153952	0.173279015	-2.585123776	yes
TRMT61B	-0.327948663	0.173279015	-2.574514497	
FAM176B	0.328176594	0.173279015	2.576519723	
C4orf21	-0.32843858	0.173279015	-2.578825176	
C4orf16	-0.32832893	0.173279015	-2.577860189	
MAP7D1	0.328826498	0.173279015	2.582240041	
FTSJD1	-0.328215715	0.173279015	-2.576863946	
RNF20	-0.328321059	0.173279015	-2.577790918	
PSMD1	-0.328146566	0.173279015	-2.576255525	
PVR	0.32885773	0.173279015	2.582515044	
ARAP3	0.328141036	0.173279015	2.576206869	

SRP72	-0.328561058	0.173279015	-2.579903202	
ADAM17	-0.328801009	0.173279015	-2.58201561	
TTF1	-0.328663776	0.173279015	-2.580807412	
KCTD15	0.327789184	0.173279015	2.573111777	
C5orf44	-0.327909792	0.173279015	-2.574172579	
PRSS27	0.327665532	0.173279015	2.572024349	
CTTNBP2	-0.328720735	0.173279015	-2.581308855	
GFM2	-0.329059347	0.173279015	-2.584290524	yes
COPS3	-0.327662106	0.173279015	-2.571994221	
AP3B1	-0.328878455	0.173279015	-2.582697536	
ACTL6A	-0.328219851	0.173279015	-2.576900339	
SERPINH1	0.328020969	0.173279015	2.575150559	
TAX1BP1	-0.32920779	0.173279015	-2.585598001	yes
PRDM6	0.328953977	0.173279015	2.583362563	
SLK	-0.327681577	0.173279015	-2.572165445	
ZNF623	-0.328007576	0.173279015	-2.575032733	
DOK7	0.327500638	0.173439811	2.57057446	
RLIM	-0.327529195	0.173439811	-2.570825536	
PFN1	0.327519145	0.173439811	2.570737172	
C11orf59	0.327531525	0.173439811	2.570846021	
PKN3	0.327388314	0.17364453	2.569586954	yes
LEPRE1	0.327417638	0.17364453	2.569844743	yes
EDA2R	0.327341944	0.17370861	2.569179327	
C9orf41	-0.327235391	0.174009129	-2.568242728	
LOC100133319	0.32515894	0.174440258	2.550012495	
NET1	-0.324981121	0.174440258	-2.548453256	
CHD1	-0.326618926	0.174440258	-2.562826131	
TUBGCP5	-0.326051098	0.174440258	-2.557840129	
LYSMD3	-0.325666223	0.174440258	-2.55446237	
FAM43A	0.325208648	0.174440258	2.550448423	yes
RASGEF1B	-0.325790107	0.174440258	-2.555549455	
DLD	-0.326783771	0.174440258	-2.564274188	
FUK	0.326293265	0.174440258	2.559966183	

CYP4Z1	-0.326688008	0.174440258	-2.563432941	
TIGD1	-0.325990174	0.174440258	-2.557305352	
PLAC9	0.325067117	0.174440258	2.549207289	yes
LARP5	-0.3263557	0.174440258	-2.560514406	yes
FBXO28	-0.325944864	0.174440258	-2.556907651	yes
DDAH2	0.326074402	0.174440258	2.558044699	
ALOX12P2	-0.326558392	0.174440258	-2.562294443	
GABPB1	-0.32668705	0.174440258	-2.563424529	
HS6ST3	0.325272407	0.174440258	2.551007616	
GFPT1	-0.326553357	0.174440258	-2.562250222	
GH1	0.325222758	0.174440258	2.550572172	
CHORDC1	-0.326783658	0.174440258	-2.564273196	
GOLGB1	-0.32692975	0.174440258	-2.56555674	
DKFZp564N2472	0.325296791	0.174440258	2.551221475	
ANXA3	-0.325089553	0.174440258	-2.549404031	
APAF1	-0.326200401	0.174440258	-2.559150834	
HOXC12	0.325820632	0.174440258	2.555817329	yes
RHOG	0.325166807	0.174440258	2.550081491	
NRD1	-0.325064382	0.174440258	-2.549183314	
RSL24D1	-0.325326514	0.174440258	-2.551482181	
IPO11	-0.326638651	0.174440258	-2.562999387	
SFMBT1	-0.32596569	0.174440258	-2.557090444	yes
CPSF3	-0.326952332	0.174440258	-2.565755157	
POU6F1	0.326254233	0.174440258	2.559623466	
TEX10	-0.325705791	0.174440258	-2.554809561	
PQLC2	0.325539036	0.174440258	2.553346457	
CWF19L1	-0.326630358	0.174440258	-2.562926544	
AVPR2	0.325753244	0.174440258	2.555225966	
C9orf86	0.326105	0.174440258	2.558313302	
CENPN	-0.325686562	0.174440258	-2.554640835	
SMARCAD1	-0.326087355	0.174440258	-2.558158407	
NCLN	0.324984863	0.174440258	2.548486065	
PELI1	-0.325470441	0.174440258	-2.552744686	

ACTA1	0.325407641	0.174440258	2.552193787	
RBBP4	-0.325025731	0.174440258	-2.548844403	
XCL1	0.326530606	0.174440258	2.56205041	
RHBDF1	0.32589325	0.174440258	2.556454649	
ZNF323	-0.326142942	0.174440258	-2.558646389	
SMURF2	-0.325423458	0.174440258	-2.552332538	
SLC16A2	0.326512828	0.174440258	2.561894266	
FUNDC2	-0.325848269	0.174440258	-2.556059872	
SNRPD3	-0.326923604	0.174440258	-2.565502738	
STRN	-0.325890756	0.174440258	-2.556432754	
TCP1	-0.325314291	0.174440258	-2.551374974	
DYNLT3	-0.326889067	0.174440258	-2.565199282	
TLN1	0.326878347	0.174440258	2.565105097	
TPO	0.325515623	0.174440258	2.553141058	yes
UGCG	-0.326119074	0.174440258	-2.558436854	
ZNF91	-0.325465229	0.174440258	-2.552698966	
C1orf115	0.325498141	0.174440258	2.552987686	
EPC1	-0.326472498	0.174440258	-2.561540075	
NCOA3	-0.32507487	0.174440258	-2.549275272	
JRK	0.32512096	0.174440258	2.54967944	
ACTN2	0.326988395	0.174440258	2.566072049	
ZNF766	-0.324978789	0.174440258	-2.54843281	
MARS2	-0.326053444	0.174440258	-2.557860728	
GTF3C4	-0.326578091	0.174440258	-2.562467468	
CD34	0.326797932	0.174440258	2.564398598	
SCAMP1	-0.326663954	0.174440258	-2.563221646	
ZNF432	-0.326185928	0.174440258	-2.559023768	
BCLAF1	-0.32611298	0.174440258	-2.558383358	
PSMD6	-0.326307536	0.174440258	-2.560091485	
TECPR2	0.325158224	0.174440258	2.550006221	
NUP153	-0.325863993	0.174440258	-2.556197874	yes
SNX4	-0.324924176	0.174541232	-2.547953989	
KLHDC2	-0.324888205	0.174569341	-2.547638621	

SNORD116-18	0.324449989	0.174825144	2.543797719	
FOLR2	0.324665991	0.174825144	2.545690724	
HEPACAM2	-0.3245266	0.174825144	-2.544469074	
HEATR5A	-0.324590716	0.174825144	-2.545030977	
SNX24	-0.324569776	0.174825144	-2.54484746	yes
PKD1L3	-0.324501854	0.174825144	-2.544252216	
CTAGE5	-0.32471697	0.174825144	-2.546137555	
ABI3	0.324592703	0.174825144	2.545048384	
GALNT7	-0.32445283	0.174825144	-2.543822618	
PIN1L	0.324713694	0.174825144	2.546108839	
POLA1	-0.32469719	0.174825144	-2.545964182	
LIME1	0.324452664	0.174825144	2.543821163	
CAPNS2	-0.324700964	0.174825144	-2.545997257	
NCRNA00169	0.324415965	0.174846476	2.543499579	
EIF2S1	-0.324315029	0.174980559	-2.542615186	
GRIK5	0.324263007	0.174980559	2.54215941	
CNOT6	-0.324239066	0.174980559	-2.541949658	yes
SNCB	0.32426002	0.174980559	2.542133236	
ERMP1	-0.324263479	0.174980559	-2.542163537	
BPTF	-0.324202384	0.175012652	-2.541628303	
C4orf33	-0.324145217	0.175119138	-2.541127513	
AGER	0.324110068	0.175119138	2.540819621	
YEATS4	-0.324089823	0.175119138	-2.540642288	
UNQ6228	-0.323930057	0.175211773	-2.539242959	
MRGPRF	0.323966034	0.175211773	2.539558045	yes
PTGIS	0.324032235	0.175211773	2.540137865	
RS1	0.324008367	0.175211773	2.539928812	
NDST2	0.323924195	0.175211773	2.539191624	
TCERG1	-0.32375499	0.175560582	-2.537709897	
MSRA	0.323750166	0.175560582	2.537667658	
TAOK1	-0.323773707	0.175560582	-2.537873793	
BTRC	-0.323664651	0.175784997	-2.536918918	
OR2A14	0.32342751	0.176268354	2.534842943	

ECT2	-0.323400251	0.176268354	-2.534604341	
FAM169A	-0.323494212	0.176268354	-2.535426808	
CAPZA1	-0.323457424	0.176268354	-2.535104781	
ALG2	-0.323440057	0.176268354	-2.534952767	
FAT3	0.323222463	0.176636077	2.533048349	
C2orf68	0.323228585	0.176636077	2.533101928	
SCARF2	0.323222147	0.176636077	2.533045584	
FZD1	0.323170586	0.176728109	2.532594383	
FJX1	0.323134305	0.176760011	2.532276905	
TIMM17A	-0.322998379	0.176777004	-2.531087607	
DDX1	-0.322924341	0.176777004	-2.530439877	
ETFA	-0.322940125	0.176777004	-2.530577956	
SYNM	0.322950886	0.176777004	2.530672097	
TPSD1	0.322905053	0.176777004	2.530271135	
MTCH2	-0.323006677	0.176777004	-2.531160209	
XPO4	-0.323073108	0.176777004	-2.531741435	
SCIN	-0.323000719	0.176777004	-2.531108079	
SIRT5	-0.322868892	0.176808944	-2.529954804	
MEF2B	0.322802563	0.176959791	2.529374595	
ARFGEF1	-0.322641756	0.177270626	-2.527968118	
PDGFRB	0.322639697	0.177270626	2.527950106	
RPE	-0.32266623	0.177270626	-2.528182161	
C17orf61	0.322575825	0.177329657	2.527391528	
GPR160	-0.322540821	0.177329657	-2.527085425	
TAF1D	-0.3225596	0.177329657	-2.527249648	
GLCE	-0.322509433	0.177343252	-2.526810951	
GDNF	0.322291007	0.177767567	2.52490118	yes
SLCO4A1	0.322173753	0.177767567	2.523876176	yes
PNPLA1	0.322362375	0.177767567	2.525525123	
GUK1	0.322189715	0.177767567	2.524015709	
ANKRD16	-0.322260968	0.177767567	-2.524638573	
ENTPD7	-0.322274421	0.177767567	-2.524756179	
RPS6KA4	0.32215805	0.177767567	2.523738916	

USP8	-0.322144785	0.177767567	-2.523622965	
SFXN1	-0.322123295	0.177767567	-2.523435122	
NAPSA	0.322233106	0.177767567	2.52439501	yes
CLOCK	-0.322052506	0.177937473	-2.522816405	
FRS2	-0.321959925	0.178083917	-2.522007278	
USF2	0.321961081	0.178083917	2.522017384	
SNORD116-2	0.321578519	0.178281901	2.518674784	
ADARB1	0.321662638	0.178281901	2.519409652	
CYB5R3	0.321618488	0.178281901	2.519023947	
ASCC1	-0.321772447	0.178281901	-2.52036904	yes
RPS14	0.321656593	0.178281901	2.519356835	
ARV1	-0.32178206	0.178281901	-2.520453034	
GNPNAT1	-0.321708686	0.178281901	-2.519811953	
TAF7	-0.321613173	0.178281901	-2.518977519	
EZR	-0.321577774	0.178281901	-2.518668279	yes
INTS5	0.321646793	0.178281901	2.51927122	
GALNT4	-0.321612814	0.178281901	-2.518974376	
SYTL5	-0.321595704	0.178281901	-2.518824907	
RBM12	-0.321317262	0.178476103	-2.516392876	
CLTC	-0.321429723	0.178476103	-2.51737507	
TTC7B	0.321363016	0.178476103	2.51679246	
FBXO45	-0.321255528	0.178476103	-2.515853763	
KIAA0913	0.321495302	0.178476103	2.517947869	
C16orf5	0.321374286	0.178476103	2.516890887	
ROR1	0.321286441	0.178476103	2.516123712	
UBA6	-0.321275828	0.178476103	-2.516031028	
LOC645605	0.321253476	0.178476103	2.515835842	
FAM58A	0.321346219	0.178476103	2.516645758	
SEC63	-0.321130142	0.17875133	-2.514758889	
FAM182A	0.321071792	0.17875133	2.514249431	
IGF2	0.320992092	0.17875133	2.513553611	
GPATCH2	-0.321007735	0.17875133	-2.513690179	
PRKAR2A	-0.321127459	0.17875133	-2.514735461	yes

KIAA1598	-0.320993432	0.17875133	-2.51356531	
CEP350	-0.321074828	0.17875133	-2.514275937	
NFASC	0.320872405	0.178932389	2.512508806	
GLRX5	0.320844699	0.178932389	2.512266957	
SLC30A6	-0.320837038	0.178932389	-2.512200087	
VBP1	-0.320865309	0.178932389	-2.512446863	
RAB3IP	-0.320753839	0.179104875	-2.511473909	
CDC2L5	-0.320738911	0.179104875	-2.51134362	
CREB1	-0.320441123	0.179281382	-2.508745022	
DOK1	0.32054411	0.179281382	2.509643627	yes
NKX6-1	0.32042226	0.179281382	2.508580452	
NOP58	-0.320440781	0.179281382	-2.508742041	
SEPX1	0.320463088	0.179281382	2.508936668	
QRSL1	-0.320449313	0.179281382	-2.508816478	yes
RNF6	-0.320585471	0.179281382	-2.510004551	yes
CLIP2	0.320590843	0.179281382	2.51005143	
CDC42BPA	-0.320546559	0.179281382	-2.509664995	
PPP4R1	-0.320495593	0.179281382	-2.509220282	yes
ZFP112	-0.320270952	0.179666217	-2.507260433	
GAN	-0.320294745	0.179666217	-2.507467983	
HBP1	-0.320190055	0.179845521	-2.506554767	
SCARA3	0.320162703	0.179845521	2.506316188	
CMPK1	-0.320124849	0.179845521	-2.505986024	
PPP2R3C	-0.320090334	0.179845521	-2.505684992	
CABP1	0.320107938	0.179845521	2.505838528	
PTPN13	-0.320038677	0.179904724	-2.505234468	
ZBTB17	0.320021337	0.179904724	2.505083239	
METTL10	-0.319955374	0.179984474	-2.504507997	
TAF2	-0.319947219	0.179984474	-2.504436888	
ARNTL2	-0.319876319	0.180158905	-2.503818636	
SPNS1	0.319842684	0.180185325	2.503525353	
SFRS12	-0.319393555	0.180445648	-2.499610181	
PTGR1	-0.319283662	0.180445648	-2.498652506	yes

ZBTB43	-0.319288717	0.180445648	-2.498696551	
SLC35D1	-0.319269582	0.180445648	-2.498529809	
GALNT1	-0.319377853	0.180445648	-2.499473336	
GCLM	-0.319368408	0.180445648	-2.499391025	
RABGEF1	-0.319682092	0.180445648	-2.50212522	
BLOC1S2	-0.319469189	0.180445648	-2.500269368	
LRRC68	0.319683191	0.180445648	2.502134803	
PRICKLE4	0.319266933	0.180445648	2.498506729	
HDAC1	-0.319269943	0.180445648	-2.498532954	
HNRNPF	-0.319280522	0.180445648	-2.498625144	yes
ZNF773	0.319292986	0.180445648	2.498733752	
PGM2	-0.319292791	0.180445648	-2.498732059	
PSMD5	-0.319554022	0.180445648	-2.501008801	
SLCO2A1	0.319641411	0.180445648	2.501770572	
EIF4H	-0.319504189	0.180445648	-2.500574437	
OFD1	-0.319700605	0.180445648	-2.502286618	
UBA3	-0.319613428	0.180445648	-2.501526637	
MRAP2	-0.319138204	0.18048273	-2.497385061	
ARHGAP5	-0.319199902	0.18048273	-2.497922642	
KRCC1	-0.319211109	0.18048273	-2.498020293	
C17orf85	-0.319166798	0.18048273	-2.497634194	
KIAA1602	0.31912412	0.18048273	2.49726235	
POU3F3	0.319013998	0.180814529	2.496302948	
ZNF507	-0.318917871	0.181002926	-2.495465565	yes
WDR33	-0.318905078	0.181002926	-2.495354131	yes
CNTD2	0.318886742	0.181002926	2.495194417	
TOB1	-0.318451125	0.18148199	-2.491400867	
GPR175	0.318447926	0.18148199	2.491373024	
PHLDB1	0.318584444	0.18148199	2.492561684	
FREQ	0.318486442	0.18148199	2.49170836	
MYST4	-0.318487287	0.18148199	-2.491715716	
C15orf52	0.318681523	0.18148199	2.493407063	
MRPL50	-0.318454729	0.18148199	-2.491432248	

GMCL1	-0.318666136	0.18148199	-2.493273067	
TOP1	-0.318464804	0.18148199	-2.491519966	
CLDN12	-0.318717832	0.18148199	-2.493723269	
CEP57	-0.318646997	0.18148199	-2.493106391	
FGFBP1	-0.318624688	0.18148199	-2.492912126	
LOC100132755	0.317825066	0.18163206	2.485951948	yes
BCAS2	-0.317268662	0.18163206	-2.481112306	
POLR3F	-0.317301252	0.18163206	-2.481395694	
WDHD1	-0.316570025	0.18163206	-2.475039546	
STRAP	-0.317234609	0.18163206	-2.480816206	
NOXO1	0.317337598	0.18163206	2.48171176	
SPNS2	0.317369011	0.18163206	2.481984942	yes
COPA	-0.317360301	0.18163206	-2.481909191	
OR6B3	0.316574072	0.18163206	2.475074707	
DBT	-0.317138618	0.18163206	-2.479981582	
OXER1	0.31771507	0.18163206	2.484994969	
DLG3	-0.317002524	0.18163206	-2.478798428	
EIF4A1	-0.316776014	0.18163206	-2.476829601	
C20orf201	0.316932602	0.18163206	2.478190614	
EXTL2	-0.316615886	0.18163206	-2.475438048	
ARL5B	-0.316739575	0.18163206	-2.476512914	
CLCA4	-0.317042526	0.18163206	-2.479146172	
TRIM2	-0.316930817	0.18163206	-2.478175096	yes
SLC7A11	-0.31692185	0.18163206	-2.478097155	
MCM9	-0.318013649	0.18163206	-2.48759291	
ANKRD17	-0.317110021	0.18163206	-2.479732954	
PDLIM3	0.317938827	0.18163206	2.4869418	
GNAZ	0.31740161	0.18163206	2.482268442	
STK32C	0.317969853	0.18163206	2.487211782	
GPR32	0.317735993	0.18163206	2.485176997	
MAGEB18	0.31796957	0.18163206	2.48720932	
SLC39A3	0.318268599	0.18163206	2.489811881	
ICAM1	0.316589607	0.18163206	2.475209694	

IGFBP4	0.317540152	0.18163206	2.483473394	
IL15RA	0.317875122	0.18163206	2.486387477	
ITGB6	-0.317607345	0.18163206	-2.484057854	
TMEM110	0.317530689	0.18163206	2.483391079	
MEOX2	0.317540108	0.18163206	2.483473007	
NARS	-0.317694843	0.18163206	-2.484819005	
NDUFA1	0.317663544	0.18163206	2.484546721	
NONO	-0.31693819	0.18163206	-2.478239188	
ZNF706	-0.317200749	0.18163206	-2.48052179	
GOLGA7	-0.317633154	0.18163206	-2.484282361	
DCTN4	-0.317420822	0.18163206	-2.482435524	
PLEKHO1	0.316777824	0.18163206	2.47684533	
SLC22A17	0.317747512	0.18163206	2.485277209	yes
WAC	-0.31711989	0.18163206	-2.479818759	
RAB14	-0.316580596	0.18163206	-2.475131401	
PEX1	-0.31823881	0.18163206	-2.489552576	
LARP6	0.317686949	0.18163206	2.484750329	
BARX1	0.318312131	0.18163206	2.49019082	
PCDHGB3	0.31686974	0.18163206	2.477644204	
CCDC47	-0.316863948	0.18163206	-2.477593863	
PBXIP1	0.317861849	0.18163206	2.486271991	
KIAA1211	0.318141482	0.18163206	2.48870543	
PPCDC	0.317957276	0.18163206	2.487102345	
ABCE1	-0.317454128	0.18163206	-2.482725183	
EEFSEC	0.317803622	0.18163206	2.48576537	
C5orf54	-0.31759487	0.18163206	-2.483949341	
NXN	0.316725968	0.18163206	2.476394661	
SP1	-0.316518058	0.18163206	-2.474588008	
VEGFB	0.318117479	0.18163206	2.48849652	
ZNF213	0.316883321	0.18163206	2.477762251	
GGCT	-0.317365752	0.18163206	-2.481956596	
CXorf21	-0.317066461	0.18163206	-2.479354252	
SLC25A32	-0.317961627	0.18163206	-2.487140199	

CAST	-0.317241726	0.18163206	-2.480878084	yes
HES7	0.317639628	0.18163206	2.484338675	
CDC14B	-0.317431038	0.18163206	-2.48252437	
SCEL	-0.316511794	0.18163206	-2.474533582	
PEX11A	-0.318080847	0.18163206	-2.488177712	
HAP1	0.316596374	0.18163206	2.475268495	
DOK2	0.316547625	0.18163206	2.474844914	
ZNF598	0.316757788	0.18163206	2.476671196	
AIFM1	-0.316712818	0.18163206	-2.476280379	
C1orf156	-0.318269238	0.18163206	-2.489817441	
STK17A	-0.318344791	0.18163206	-2.490475138	
SHKBP1	0.317692489	0.18163206	2.484798521	
COG5	-0.316414693	0.181707418	-2.473689961	
CNRIP1	0.316390677	0.181707418	2.473481323	
VPS36	-0.316399244	0.181707418	-2.47355575	
MFHAS1	0.316399872	0.181707418	2.473561204	
DYRK1A	-0.31627226	0.181974901	-2.472452648	yes
CCL14	0.316284484	0.181974901	2.472558825	
KIAA1881	0.316242868	0.181990433	2.472197338	
FBXO22	-0.316212159	0.182011236	-2.471930605	
RAD51AP1	-0.316043576	0.182377629	-2.470466447	
MTAP	-0.316061142	0.182377629	-2.470619005	
EDEM3	-0.31609198	0.182377629	-2.470886819	
UBE2E3	0.315914207	0.182638588	2.469343056	
WFIKKN1	0.315912889	0.182638588	2.469331609	
TNFRSF1B	0.315901705	0.182638588	2.469234496	
SCN2B	0.315868742	0.182668695	2.468948285	
MRPL36	0.315836671	0.1826953	2.468669826	
MED6	-0.31504125	0.182699809	-2.461766571	yes
LOC100130423	-0.31565012	0.182699809	-2.467050277	
NCOA2	-0.31500009	0.182699809	-2.461409509	
FILIP1L	0.314969097	0.182699809	2.461140661	
FAM172B	-0.315469466	0.182699809	-2.465482229	

FAM59B	0.31545454	0.182699809	2.465352691
CTSG	0.315105804	0.182699809	2.462326606
GBP6	-0.315298201	0.182699809	-2.463995954
C3orf57	-0.315554878	0.182699809	-2.466223556
FGF6	0.314934133	0.182699809	2.460837371
LARS2	-0.315103115	0.182699809	-2.462303277
C6orf167	-0.315155995	0.182699809	-2.462762057
LYSMD2	0.314975685	0.182699809	2.461197804
TMEM184B	0.315749571	0.182699809	2.467913629
KRT23	-0.315386162	0.182699809	-2.464759265
PCDH17	0.315642968	0.182699809	2.466988201
ZNF776	-0.315336741	0.182699809	-2.464330385
TBK1	-0.315392972	0.182699809	-2.464818364
KCNJ8	0.31508424	0.182699809	2.462139523
RERE	0.315681296	0.182699809	2.467320918
ABHD5	-0.315410193	0.182699809	-2.464967819
CLEC1A	0.315466088	0.182699809	2.465452918
PML	0.315338699	0.182699809	2.464347379
UTP6	-0.315412338	0.182699809	-2.464986435
PCDHGC5	0.315311869	0.182699809	2.464114559
THAP11	0.314982323	0.182699809	2.461255384
RNASEL	-0.315712912	0.182699809	-2.467595379
SALL2	0.315075547	0.182699809	2.462064104
SMOC2	0.314904591	0.182699809	2.460581123
SPN	0.315616736	0.182699809	2.466760486
SUPV3L1	-0.31503911	0.182699809	-2.461748003
UBE2D1	-0.31501652	0.182699809	-2.461552038
C10orf95	0.31556325	0.182699809	2.466296222
TNKS2	-0.315002617	0.182699809	-2.461431428
HIST1H4I	0.315514913	0.182699809	2.465876681
CD1E	0.314912504	0.182699809	2.460649758
CDC5L	-0.315142952	0.182699809	-2.462648897
CNOT10	-0.314868717	0.182743196	-2.460269961

KISS1	0.314823511	0.182803641	2.459877869	
ARID4B	-0.314803639	0.182803641	-2.459705522	
PKIG	0.31466862	0.182957343	2.458534594	
CMTM3	0.314665353	0.182957343	2.458506264	
PPM1M	0.314734227	0.182957343	2.459103539	
MYO5C	-0.314688769	0.182957343	-2.458709319	
AQP12A	0.314640173	0.182958602	2.458287906	
ENPEP	0.31451835	0.183068478	2.457231594	yes
RSL1D1	-0.314580609	0.183068478	-2.457771419	
UFM1	-0.314448045	0.183068478	-2.456622039	
CCDC99	-0.314442939	0.183068478	-2.456577772	
SEMA4C	0.314512246	0.183068478	2.457178669	
G2E3	-0.314459206	0.183068478	-2.456718809	
FBXO38	-0.31443876	0.183068478	-2.456541546	
C19orf24	0.314400327	0.183122702	2.456208349	
ANKRD29	0.314293339	0.183252653	2.455280894	
EPB49	0.314317589	0.183252653	2.455491102	
RAD17	-0.314338503	0.183252653	-2.455672402	
AHCTF1	-0.314185822	0.183385129	-2.454348955	
MLLT3	-0.314189215	0.183385129	-2.454378363	
SLC2A4	0.314207801	0.183385129	2.454539453	
MARCH3	-0.31414612	0.183444737	-2.454004844	
NXNL1	0.314103962	0.183478195	2.453639475	
MFSD7	0.314088328	0.183478195	2.453503977	
MTRF1	-0.314036293	0.183586965	-2.453053033	
MGAT5B	0.313953385	0.183622577	2.452334587	
PPFIA4	0.313969324	0.183622577	2.452472701	
TCEAL3	0.313962402	0.183622577	2.452412716	
CHP	-0.313676887	0.183952616	-2.449939009	
ZC3H3	0.313640234	0.183952616	2.449621495	
PDS5A	-0.31352286	0.183952616	-2.448604816	
RPL36	0.313467233	0.183952616	2.448123029	
DAPP1	-0.31342711	0.183952616	-2.447775529	yes

GPR25	0.313598511	0.183952616	2.449260083	
RABL3	-0.313342612	0.183952616	-2.447043773	
XIAP	-0.313407105	0.183952616	-2.447602283	
GEN1	-0.313303371	0.183952616	-2.446703962	
SPRED3	0.313538603	0.183952616	2.448741177	
PHKG1	0.313320372	0.183952616	2.446851179	
RBM28	-0.313378463	0.183952616	-2.44735424	
ELAC1	-0.313282271	0.183952616	-2.44652125	
PRPF40A	-0.313391986	0.183952616	-2.447471344	
FLJ10357	0.31360873	0.183952616	2.449348599	
PSMB7	-0.313572836	0.183952616	-2.449037683	
SORCS2	0.313604719	0.183952616	2.449313859	
ZNF398	-0.313523919	0.183952616	-2.448613987	yes
FER1L6	-0.313496309	0.183952616	-2.448374849	
SNORA80	0.31374304	0.183952616	2.450512094	
DKFZP547L112	0.313696633	0.183952616	2.450110066	
CCDC55	-0.313551591	0.183952616	-2.448853669	
RAB9A	-0.313608533	0.183952616	-2.449346897	
PHF14	-0.31363219	0.183952616	-2.449551816	
ANKRD33B	0.313253304	0.183970887	2.446270427	
MAPK14	-0.313194014	0.18410975	-2.445757049	
AFAP1L1	0.313059582	0.184114655	2.444593168	
GAS6	0.313123397	0.184114655	2.44514565	
GSTA4	-0.313110705	0.184114655	-2.445035766	
SLC35B3	-0.313046842	0.184114655	-2.444482877	
POLR2D	-0.313064371	0.184114655	-2.444634626	
LOC729085	0.313161239	0.184114655	2.445473283	
SFRS4	-0.312943713	0.184146483	-2.443590135	
SRPK2	-0.312947659	0.184146483	-2.443624294	
TFDP1	-0.312930174	0.184146483	-2.443472939	
LZIC	-0.312917515	0.184146483	-2.443363363	
CBLN1	0.31294767	0.184146483	2.443624387	
GRINA	0.31274885	0.184349823	2.441903548	

SNORD8	0.312747604	0.184349823	2.441892766	
ZNF860	-0.312705368	0.184349823	-2.441527244	
NHLRC2	-0.31275502	0.184349823	-2.441956945	
MBTD1	-0.312713807	0.184349823	-2.441600272	
RAP2A	-0.312696946	0.184349823	-2.441454362	
L2HGDH	-0.312721992	0.184349823	-2.44167111	
GLRX3	-0.312648888	0.184376401	-2.441038477	
HNRNPH1	-0.31264195	0.184376401	-2.440978446	
TTC6	-0.312548914	0.184472109	-2.440173407	
TMBIM6	-0.31258563	0.184472109	-2.440491095	
NOLC1	-0.312545488	0.184472109	-2.44014376	
LOC100133372	0.312200625	0.184476896	2.437160354	
C12orf60	-0.31222724	0.184476896	-2.437390564	
FGFR1	0.312184568	0.184476896	2.437021471	
C19orf26	0.312457201	0.184476896	2.439379887	
LAT	0.312232204	0.184476896	2.437433497	
MLLT6	0.312348885	0.184476896	2.438442817	
FAM26F	0.312200148	0.184476896	2.437156222	
MYL6	0.312371609	0.184476896	2.438639397	
MAGOHB	-0.312183762	0.184476896	-2.4370145	
DNAJC3	-0.312368156	0.184476896	-2.438609526	
LHX5	0.312207917	0.184476896	2.437223428	
TARBP1	-0.312468706	0.184476896	-2.439479425	
PHF6	-0.31221586	0.184476896	-2.437292123	
USO1	-0.312431514	0.184476896	-2.439157655	
COL23A1	0.312338446	0.184476896	2.43835251	
ACE2	-0.312099869	0.184715074	-2.436288916	
CTNND1	-0.31203958	0.184764413	-2.43576752	
C9orf6	-0.312039864	0.184764413	-2.435769974	yes
AFAP1	0.311977012	0.1849181	2.435226448	
HFE2	0.31160117	0.185784918	2.431977013	
RNF160	-0.311695348	0.185784918	-2.432791128	
RPL13P5	0.311726949	0.185784918	2.433064325	

HPCA	0.311592251	0.185784918	2.431899912
LOC440934	0.311623808	0.185784918	2.432172699
METTL4	-0.311652181	0.185784918	-2.432417964
OBSCN	0.311614004	0.185784918	2.432087946
RABGAP1L	-0.311558329	0.185825085	-2.431606699
C6orf170	-0.311486412	0.185921818	-2.43098509
SULT1C4	0.311492347	0.185921818	2.431036386
RNF139	-0.31117246	0.186227874	-2.42827203
SIN3A	-0.311339593	0.186227874	-2.429716226
LIG4	-0.31119593	0.186227874	-2.428474818
NUDT1	0.311181017	0.186227874	2.428345963
NOTCH3	0.311292512	0.186227874	2.429309373
P2RY4	0.311252571	0.186227874	2.428964236
CWC22	-0.311358065	0.186227874	-2.42987586
S100A7	0.311171922	0.186227874	2.428267385
SUPT3H	-0.311265826	0.186227874	-2.429078778
SDCCAG1	-0.311250576	0.186227874	-2.428946998
SMYD1	0.311122099	0.186332151	2.42783691
EEF1A1	-0.311076295	0.186388667	-2.427441179
ARHGAP23	0.311060521	0.186388667	2.427304904
CTCF	-0.3109857	0.186572784	-2.426658531
NOL10	-0.310967082	0.186572784	-2.426497702
KIAA0776	-0.310939862	0.186586908	-2.426262572
SERPINB8	-0.310862276	0.186699472	-2.425592398
RNF26	0.310840722	0.186699472	2.425406222
KLF4	-0.310880015	0.186699472	-2.425745619
MT1F	0.310749626	0.186874825	2.424619443
CSRP2BP	-0.310773246	0.186874825	-2.424823438
HS3ST6	0.310711041	0.186934704	2.424286212
ATP10B	-0.310626324	0.186975732	-2.42355461
APOC1	0.31062993	0.186975732	2.423585752
C7orf36	-0.310606358	0.186975732	-2.423382205
RCN3	0.310670691	0.186975732	2.423937751

ENOPH1	-0.310414813	0.187557661	-2.421728336	
C15orf44	-0.310414071	0.187557661	-2.421721931	
GENE	-0.309980523	0.188089476	-2.417979741	
RPP30	-0.310231105	0.188089476	-2.42014245	
ABHD2	-0.30996089	0.188089476	-2.417810316	
FGL1	0.310119407	0.188089476	2.419178339	
KIAA1012	-0.310063766	0.188089476	-2.418698122	yes
LOC404266	0.309980835	0.188089476	2.417982431	
RGNEF	-0.309952494	0.188089476	-2.417737863	
PLEKHF2	-0.309995507	0.188089476	-2.418109046	
MLF1IP	-0.310021652	0.188089476	-2.418334673	
ZSCAN16	-0.309971162	0.188089476	-2.417898954	
IFI27L2	0.310004196	0.188089476	2.418184032	
KIAA1841	-0.310188558	0.188089476	-2.419775196	
TNFRSF6B	0.310127647	0.188089476	2.419249463	
TOX4	-0.310139237	0.188089476	-2.419349491	
CSTF2T	-0.30988035	0.188096871	-2.417115324	
GTF2A2	-0.309894556	0.188096871	-2.417237912	
tcag7.893	0.309917719	0.188096871	2.417437779	
EYA4	-0.309733948	0.188591761	-2.415852156	
TRIM65	0.309686846	0.188687197	2.415445801	
NMUR1	0.309550089	0.188851947	2.414266074	
CCDC85B	0.309541037	0.188851947	2.414187998	
CHUK	-0.309464097	0.188851947	-2.41352436	
CXorf58	-0.30937689	0.188851947	-2.412772226	
CTAG2	0.309592062	0.188851947	2.414628132	
SUV420H1	-0.309350159	0.188851947	-2.41254169	
PENK	0.309362037	0.188851947	2.412644127	
C17orf71	-0.309423095	0.188851947	-2.413170719	
BCAS4	0.309508183	0.188851947	2.413904612	
UPF3B	-0.30957912	0.188851947	-2.414516492	
UTX	-0.309446318	0.188851947	-2.413371013	yes
KIAA1712	-0.309417376	0.188851947	-2.413121396	

NAE1	-0.309342432	0.188851947	-2.412475055	
POLR2B	-0.30930747	0.18889901	-2.412173553	
LMTK3	0.309245576	0.189000562	2.411639815	
DLGAP4	0.309166004	0.189000562	2.410953681	
CDKN2AIP	-0.309192565	0.189000562	-2.41118271	
QTRTD1	-0.309226509	0.189000562	-2.411475403	
MYO15B	0.30918893	0.189000562	2.411151362	
SNUPN	-0.30861667	0.189024789	-2.406218434	
GAS2L1	0.308806886	0.189024789	2.407857793	
CD300LF	0.308798707	0.189024789	2.407787296	
ZNF420	-0.308787191	0.189024789	-2.407688035	
DPPA2	0.309111269	0.189024789	2.410481745	
KIAA1949	0.3087081	0.189024789	2.407006372	
HECTD1	-0.309057332	0.189024789	-2.410016719	yes
GNG11	0.308975327	0.189024789	2.409309746	
LTBP2	0.308607583	0.189024789	2.406140124	
MGC44328	0.308826467	0.189024789	2.408026567	
MYO7B	0.308905323	0.189024789	2.408706288	yes
NAB1	-0.308589017	0.189024789	-2.405980135	
FEM1A	0.309093153	0.189024789	2.410325556	
RP2	-0.308891274	0.189024789	-2.408585181	yes
ZNF35	-0.309051784	0.189024789	-2.409968886	
WDR77	-0.308880632	0.189024789	-2.40849345	
C11orf61	-0.308609314	0.189024789	-2.406155045	
FBXO31	0.308686274	0.189024789	2.406818272	
LOC100133439	-0.308685256	0.189024789	-2.406809502	
CCDC3	0.308796307	0.189024789	2.40776661	
L3MBTL3	-0.308986921	0.189024789	-2.409409701	
INPP4B	-0.308800156	0.189024789	-2.407799781	yes
MTMR3	-0.30855929	0.189024789	-2.405723972	
RHOT2	0.308927622	0.189024789	2.408898504	
ACBD5	-0.30870336	0.189024789	-2.40696552	
STOML1	0.308578751	0.189024789	2.405891674	

C10orf47	0.308453896	0.189171628	2.404815835
CXCL12	0.308474147	0.189171628	2.404990325
JMJD4	0.308488754	0.189171628	2.405116185
MYRIP	0.30842566	0.189192908	2.404572552
PLD3	0.308296392	0.189431272	2.403458868
EML3	0.308285753	0.189431272	2.403367216
SLC39A9	-0.308320407	0.189431272	-2.403665752
PRPF4B	-0.308274744	0.189431272	-2.403272385
MPZL2	-0.308112659	0.189534603	-2.401876208
SEC31A	-0.308167756	0.189534603	-2.402350777
MRPL42	-0.308165554	0.189534603	-2.402331813
ANXA2P1	-0.308088941	0.189534603	-2.401671924
C20orf27	0.308132595	0.189534603	2.402047922
SNORA6	0.308174266	0.189534603	2.402406855
LOC729756	0.308095611	0.189534603	2.401729369
CLPX	-0.307871161	0.189585103	-2.399796415
PNPLA8	-0.307929358	0.189585103	-2.400297562
ISOC1	-0.308042148	0.189585103	-2.40126891
ATG16L1	-0.307886131	0.189585103	-2.399925323
DNAJC17	0.307949438	0.189585103	2.400470481
MAPK8	-0.307912096	0.189585103	-2.400148914
SNORA3	0.307999287	0.189585103	2.400899781
SNORD77	-0.307954162	0.189585103	-2.400511168
JRKL	-0.307902231	0.189585103	-2.400063961
TIPARP	-0.307801392	0.189591237	-2.399195651
H2BFM	0.307839379	0.189591237	2.39952274
LTA4H	-0.307818404	0.189591237	-2.399342135
BRMS1L	-0.307562144	0.190464311	-2.397135884
SLU7	-0.307512332	0.190481878	-2.396707098
TOPBP1	-0.307524012	0.190481878	-2.396807644
ICOSLG	0.30744735	0.19065267	2.396147769
HEATR5B	-0.30738675	0.190805884	-2.395626179
RNF145	-0.307324381	0.19087452	-2.395089401

PCF11	-0.307324875	0.19087452	-2.395093657	
RAD50	-0.307154965	0.191331245	-2.393631502	
RAD1	-0.307148244	0.191331245	-2.393573665	
BAT2	0.307143546	0.191331245	2.393533242	
RAB11A	-0.30701165	0.191774359	-2.392398409	yes
PIGF	-0.306978559	0.191816689	-2.392113717	yes
MMP25	0.306918829	0.191967286	2.391599861	
C11orf84	0.306853436	0.192141022	2.391037331	
BCL2L11	-0.306721517	0.192309346	-2.389902628	
GALNT3	-0.306754268	0.192309346	-2.390184318	
SPIN2B	0.306782705	0.192309346	2.390428911	
EIF2A	-0.306722127	0.192309346	-2.389907876	
ACTR2	-0.306238832	0.192392433	-2.385752104	
CDO1	0.306373351	0.192392433	2.386908601	
OGFR	0.306227252	0.192392433	2.385652559	
CPNE4	-0.306532437	0.192392433	-2.388276517	
EEF1B2	0.306598146	0.192392433	2.388841585	
IFNA21	0.306460855	0.192392433	2.387660984	
C5orf39	-0.306324723	0.192392433	-2.386490517	
MMP2	0.306613273	0.192392433	2.388971679	
LOC441208	0.306301034	0.192392433	2.38628685	
GOLT1B	-0.306216814	0.192392433	-2.385562821	
ASB3	-0.306558791	0.192392433	-2.388503146	
IL20RA	-0.306484562	0.192392433	-2.387864837	
FANCL	-0.306319231	0.192392433	-2.3864433	
PRIM2	-0.3062581	0.192392433	-2.385917749	
WDR45L	-0.306523841	0.192392433	-2.388202599	yes
RP9	0.306631716	0.192392433	2.389130292	
hCG_2024410	-0.306205697	0.192392433	-2.385467261	
ZFP161	-0.306435302	0.192392433	-2.38744127	
PTP4A1	-0.306373395	0.192392433	-2.386908981	
RP5-1000E10.4	-0.306265388	0.192392433	-2.385980398	
TAF15	-0.306521101	0.192392433	-2.388179037	

THOC1	-0.306262778	0.192392433	-2.385957967	
SLC38A9	-0.306181044	0.192401533	-2.38525533	
COL19A1	0.306054954	0.192537145	2.384171501	
MAST3	0.306093832	0.192537145	2.384505675	
GK5	-0.306056607	0.192537145	-2.384185712	
BCAM	0.305990263	0.192537145	2.383615494	
SLC38A7	0.305998742	0.192537145	2.383688372	
CTPS2	-0.306121008	0.192537145	-2.384739264	
CEP70	-0.305986823	0.192537145	-2.383585935	
HDAC10	0.305968668	0.192537145	2.383429903	
TAS2R13	-0.305835471	0.192988024	-2.382285237	
LOC100130858	0.305506826	0.193071192	2.379461588	
CEPT1	-0.30491509	0.193071192	-2.374379896	
PDLIM5	-0.304934392	0.193071192	-2.374545608	
DUS4L	-0.30560524	0.193071192	-2.380307044	
HPS5	-0.304912709	0.193071192	-2.374359451	
ANKRD13B	0.305696432	0.193071192	2.38109053	
ASB5	0.305527187	0.193071192	2.379636504	
LCN6	0.305138738	0.193071192	2.376300171	yes
MIER3	-0.305075378	0.193071192	-2.375756108	
ERG	0.305037641	0.193071192	2.375432088	
FGR	0.305408604	0.193071192	2.378617867	
KIAA0947	-0.305321129	0.193071192	-2.377866536	
RBMXL2	0.304884502	0.193071192	2.374117289	
GTF3A	-0.305163759	0.193071192	-2.37651504	
ACADM	-0.30534066	0.193071192	-2.378034288	
LOC340096	0.304934797	0.193071192	2.37454908	
KCNJ12	0.305065761	0.193071192	2.375673533	
RND3	-0.305603944	0.193071192	-2.380295911	
PCSK2	-0.305242417	0.193071192	-2.377190529	
RAPGEF6	-0.30572781	0.193071192	-2.381360133	
MBNL3	-0.305306106	0.193071192	-2.377737511	
RGL3	0.305583271	0.193071192	2.380118303	

PXMP3	-0.305004783	0.193071192	-2.375149957	
REG1A	0.305241746	0.193071192	2.377184767	yes
SAT1	-0.305428551	0.193071192	-2.378789209	yes
OBFC2A	-0.305140087	0.193071192	-2.376311757	
RASL11B	0.305128387	0.193071192	2.376211288	
SOX12	0.305184847	0.193071192	2.376696132	
SRP68	-0.304905825	0.193071192	-2.374300347	
XRCC3	0.304972375	0.193071192	2.374871713	
ZNF33B	-0.30566733	0.193071192	-2.380840491	yes
CENPT	0.305016403	0.193071192	2.375249735	
CUL5	-0.305232906	0.193071192	-2.377108849	
CAT	-0.305289406	0.193071192	-2.377594082	
ORAI1	0.305532119	0.193071192	2.379678871	
LTV1	-0.30504995	0.193071192	-2.375537771	
TAF1C	0.305283699	0.193071192	2.37754507	
CCNT2	-0.305126208	0.193071192	-2.37619258	
MAP7	-0.305363844	0.193071192	-2.378233413	
TJP2	-0.305165413	0.193071192	-2.376529244	
HDAC4	0.305012258	0.193071192	2.375214144	
FIG4	-0.305093666	0.193071192	-2.375913145	
PPA2	-0.304833096	0.193190742	-2.373675985	
LTBP4	0.304796584	0.19324985	2.373362554	
C8orf77	0.304736314	0.193405568	2.372845202	
PLBD2	0.30470269	0.193453038	2.372556585	
LATS2	0.304609205	0.193475262	2.371754213	
VENTX	0.304599391	0.193475262	2.371669981	
RPL23AP32	0.304565705	0.193475262	2.371380872	
S100PBP	-0.304584248	0.193475262	-2.371540014	
SCARNA6	0.304606686	0.193475262	2.371732589	
SCARNA5	0.304574209	0.193475262	2.371453857	
POP1	-0.304503403	0.193505105	-2.370846201	
LRTM2	0.304492717	0.193505105	2.370754501	
PLXNA4	0.304496855	0.193505105	2.370790008	

ABCA1	-0.304448637	0.193572581	-2.370376237	
SHC1	0.304410544	0.193572581	2.370049362	
YES1	-0.304414015	0.193572581	-2.370079144	
PLEKHG4	0.304302567	0.193638081	2.369122877	
GNB3	0.304241293	0.193638081	2.368597164	
INO80	-0.304219935	0.193638081	-2.368413925	
SRGAP1	-0.304361495	0.193638081	-2.369628486	
BAX	0.304282907	0.193638081	2.36895419	
RYR3	0.304301268	0.193638081	2.369111731	
ZMYM2	-0.304231625	0.193638081	-2.368514217	
RNF128	-0.304306539	0.193638081	-2.369156951	
ATE1	-0.30412503	0.19393543	-2.367599757	
GNAI1	-0.304094909	0.193969405	-2.367341368	
DNAJA2	-0.304048599	0.194055617	-2.366944122	
ZNF358	0.304030204	0.194055617	2.366786344	yes
AKT2	0.303975686	0.194100512	2.366318719	
MICAL3	0.303992124	0.194100512	2.366459715	
SNORD116-12	0.30376624	0.194156321	2.364522473	
OSBPL5	0.303727971	0.194156321	2.364194313	
TADA1L	-0.30384598	0.194156321	-2.365206296	
ANKRD22	-0.303912612	0.194156321	-2.365777746	
WDSUB1	-0.303697521	0.194156321	-2.363933204	
EIF5	-0.303691227	0.194156321	-2.363879236	yes
ETV3	-0.303918199	0.194156321	-2.36582566	
NLRP1	0.303707853	0.194156321	2.364021804	
GTF2H3	-0.303889943	0.194156321	-2.365583324	
HNRNPD	-0.303703418	0.194156321	-2.363983775	
AGK	-0.303751151	0.194156321	-2.364393083	
ABHD8	0.303659384	0.194156321	2.3636062	
CLIP4	-0.303636861	0.194156321	-2.363413082	
TTYH3	0.30366442	0.194156321	2.363649382	
SCGB3A1	0.303640264	0.194156321	2.363442262	
USP20	0.303390327	0.194182463	2.361299517	

ADAT3	0.303483238	0.194182463	2.36209599	
LRR37B	-0.303452896	0.194182463	-2.361835879	
MARVELD2	-0.303583022	0.194182463	-2.362951466	yes
CDR2L	0.303590096	0.194182463	2.363012115	yes
IRAK1	0.303509637	0.194182463	2.362322306	
CYB5R4	-0.303464463	0.194182463	-2.361935033	
C6orf203	-0.303360143	0.194182463	-2.361040775	
RXFP1	0.303539802	0.194182463	2.362580919	
BXDC1	-0.303363117	0.194182463	-2.361066268	
SLC35B4	-0.303384534	0.194182463	-2.361249852	
ARHGEF1	0.303368628	0.194182463	2.361113507	
AQR	-0.30335017	0.194182463	-2.360955289	
TBC1D15	-0.303318663	0.194223123	-2.360685225	
GPR146	0.30326449	0.194310696	2.360220901	
ZNF226	-0.303254137	0.194310696	-2.360132162	
C19orf66	0.303230747	0.194318464	2.359931692	
RPL35P1	0.303198599	0.194361866	2.359656169	
WNT1	0.30305499	0.194858946	2.358425466	
TAL1	0.302987023	0.195048465	2.357843062	yes
MYO5B	-0.302837017	0.195573114	-2.35655782	
LOC100129478	-0.30280686	0.195608652	-2.35629946	
CD300LB	0.302642074	0.195756546	2.354887846	
TMEM200B	0.302646954	0.195756546	2.354929646	
MSH3	-0.302675629	0.195756546	-2.355175272	
MTRR	-0.302687836	0.195756546	-2.355279837	
RARS	-0.302712771	0.195756546	-2.355493428	
CCT6A	-0.302718701	0.195756546	-2.355544229	
AKR1C2	-0.302596908	0.195853676	-2.354500975	
COG3	-0.302569834	0.195876878	-2.354269082	
TYSND1	0.302496648	0.196001237	2.353642269	
LOC541472	0.302514173	0.196001237	2.353792357	
TOMM40	0.30243307	0.196018646	2.353097779	
IKZF5	-0.302429774	0.196018646	-2.353069551	

SFRS2IP	-0.302428283	0.196018646	-2.353056778	
CSDA	-0.302375411	0.196147577	-2.352604012	
PTS	-0.302322735	0.196275798	-2.352152936	
CTBS	-0.302288371	0.196311635	-2.351858683	
C1orf86	0.302271305	0.196311635	2.351712552	
GLMN	-0.302208814	0.196480208	-2.351177499	
AGA	-0.302139485	0.196514309	-2.350583922	
ZNF490	-0.302176965	0.196514309	-2.350904815	
CCDC8	0.302136549	0.196514309	2.350558788	
TSPAN9	0.301587643	0.196808873	2.345860716	
DHRS4	0.301583809	0.196808873	2.345827911	
WDR92	-0.301325684	0.196808873	-2.343619516	
TRAPPC6B	-0.301260738	0.196808873	-2.34306396	
LRRC15	0.301832893	0.196808873	2.347959483	
CCDC122	-0.301266281	0.196808873	-2.343111371	
FCER1G	0.301879699	0.196808873	2.348360091	
FCN1	0.301519928	0.196808873	2.345281324	
DNAJB5	0.301862433	0.196808873	2.348212317	
PTPN23	0.301909253	0.196808873	2.348613055	
CHMP2B	-0.301387577	0.196808873	-2.344148988	yes
SNORD45B	-0.301312621	0.196808873	-2.343507769	
LOC284297	0.301699587	0.196808873	2.346818632	
MGC33407	0.301404772	0.196808873	2.344296092	
CARD10	0.301466879	0.196808873	2.34482744	yes
SNX15	0.301338411	0.196808873	2.343728388	yes
ITIH4	0.301591907	0.196808873	2.345897196	
FRRS1	-0.302003478	0.196808873	-2.349419598	
FAM177B	-0.301294188	0.196808873	-2.343350094	
TAS2R14	-0.301697454	0.196808873	-2.346800376	
YTHDF2	-0.301615787	0.196808873	-2.346101539	
IWS1	-0.301674679	0.196808873	-2.346605485	
RFXAP	-0.301596334	0.196808873	-2.345935075	
CCL18	0.301574271	0.196808873	2.345746298	

ZNF732	0.302032916	0.196808873	2.349671601	
BMP8B	0.301346606	0.196808873	2.343798497	
C1QB	0.301578825	0.196808873	2.34578526	
MCPH1	-0.301310106	0.196808873	-2.343486257	
C17orf70	0.301828476	0.196808873	2.347921679	
UBXN6	0.301461034	0.196808873	2.344777431	
USHBP1	0.301622265	0.196808873	2.346156971	yes
ALKBH7	0.301352475	0.196808873	2.343848698	
CCNH	-0.301647168	0.196808873	-2.346370059	
FMNL3	0.301763876	0.196808873	2.347368811	
FBXO44	0.301744795	0.196808873	2.347205508	yes
SEC22B	-0.301791295	0.196808873	-2.347603467	
CD58	-0.301521099	0.196808873	-2.345291338	
LRBA	-0.301997342	0.196808873	-2.349367074	yes
BOC	0.301183619	0.196952569	2.342404321	
C20orf72	-0.301202615	0.196952569	-2.342566799	
GPD1L	-0.301070195	0.197159211	-2.341434235	
MIER1	-0.301075977	0.197159211	-2.341483683	
RPL27	0.301097343	0.197159211	2.341666419	
C1QTNF4	0.300904728	0.197528538	2.340019237	
FBXO16	-0.300896231	0.197528538	-2.339946583	
PTAR1	-0.300954152	0.197528538	-2.340441869	
PIGC	-0.300927701	0.197528538	-2.340215681	
SH3GLB1	-0.30074509	0.198063058	-2.33865431	
PAICS	-0.300635456	0.198169471	-2.337717043	
SLC35A3	-0.300659646	0.198169471	-2.337923834	
POU3F4	0.300669526	0.198169471	2.338008301	
COL27A1	0.300648464	0.198169471	2.337828246	
SMCR7	0.300612751	0.198176812	2.337522956	
MXN1	0.300546838	0.198297798	2.336959522	
TAS2R10	-0.300530297	0.198297798	-2.336818132	
CMAS	-0.300485491	0.198297798	-2.336435158	
GSTCD	-0.30047884	0.198297798	-2.33637831	

FBXO11	-0.300503882	0.198297798	-2.336592348
STARD3	0.300355358	0.198312404	2.335322947
HUS1	-0.300361796	0.198312404	-2.335377969
KCNC1	0.300350153	0.198312404	2.33527846
GDAP2	-0.300450054	0.198312404	-2.336132271
UBA5	-0.300382471	0.198312404	-2.335554657
SNX27	-0.300351004	0.198312404	-2.335285731
PTER	-0.300275246	0.198534762	-2.334638319
ZFC3H1	-0.300133451	0.198835086	-2.333426697
PRKAA2	-0.300106342	0.198835086	-2.333195071
SLC25A40	-0.300098213	0.198835086	-2.333125614
FAM160B2	0.300167371	0.198835086	2.333716522
C11orf80	-0.300156317	0.198835086	-2.333622073
CST8	0.299878804	0.198981122	2.331251193
PITRM1	-0.299583687	0.198981122	-2.328730622
KTI12	-0.299918449	0.198981122	-2.331589846
GATA5	0.300015835	0.198981122	2.332421804
CSPG4	0.300041583	0.198981122	2.332641781
SBNO2	0.29968296	0.198981122	2.329578421
LDOC1	0.299827042	0.198981122	2.330809045
GIGYF2	-0.299859041	0.198981122	-2.331082377
GJA4	0.299648808	0.198981122	2.329286756
GPR4	0.299637391	0.198981122	2.329189248
BRF1	0.299783886	0.198981122	2.33044042
HDAC2	-0.299719832	0.198981122	-2.329893332
EHD3	0.299753438	0.198981122	2.330180361
ICAM4	0.299569796	0.198981122	2.328612002
RPS15AP17	0.2995341	0.198981122	2.328307175
LMO2	0.299731533	0.198981122	2.329993268
C5orf53	-0.299552423	0.198981122	-2.328463647
YARS2	-0.29982413	0.198981122	-2.330784165
PHAX	-0.299524534	0.198981122	-2.328225491
SPRR3	-0.299549706	0.198981122	-2.328440444

CTA-216E10.6	-0.299914458	0.198981122	-2.331555759	
FLJ14100	0.299961214	0.198981122	2.331955175	
FYTTD1	-0.299937699	0.198981122	-2.331754294	yes
BTAf1	-0.29954402	0.198981122	-2.328391885	
SHF	0.29968864	0.198981122	2.329626931	
PMPCB	-0.299596393	0.198981122	-2.328839131	
FSTL3	0.299033804	0.199128783	2.324036087	yes
SUGT1	-0.299153805	0.199128783	-2.325060358	
CHM	-0.299022422	0.199128783	-2.323938941	
PLK5P	0.299358514	0.199128783	2.326807939	yes
DDX6	-0.299275354	0.199128783	-2.326097965	
C9orf4	0.299190184	0.199128783	2.325370892	yes
TMSB15B	-0.299100972	0.199128783	-2.324609379	
AGRN	0.299048067	0.199128783	2.324157821	
PPIAP19	0.299384975	0.199128783	2.32703386	
DACT1	0.299218216	0.199128783	2.325610185	
TMEM138	-0.299110637	0.199128783	-2.324691883	
ADI1	-0.299022896	0.199128783	-2.323942983	
PPP2R5C	-0.299160908	0.199128783	-2.325120987	
PLEKHH1	0.299393351	0.199128783	2.32710537	
KIAA1430	-0.29899621	0.199128783	-2.323715223	
RPS26	0.299181205	0.199128783	2.325294243	
BDKRB2	-0.29900162	0.199128783	-2.323761393	
FIGNL1	-0.299287711	0.199128783	-2.326203458	
LOC729602	0.29920377	0.199128783	2.325486866	
SMC6	-0.299193073	0.199128783	-2.325395554	
C3orf36	0.299041688	0.199128783	2.324103371	
PGBD1	0.299080637	0.199128783	2.324435817	
TNKS1BP1	0.299438804	0.199128783	2.327493457	
RG9MTD2	-0.299011872	0.199128783	-2.323848896	
COL1A2	0.298951005	0.199204531	2.323329423	
RPAP3	-0.29893693	0.199204531	-2.3232093	
C7orf54	-0.298912348	0.199221663	-2.322999513	

RDH10	-0.298692028	0.199262942	-2.321119506	
CLDN15	0.298719897	0.199262942	2.321357287	
ATAD2	-0.298603201	0.199262942	-2.320361657	
IGBP1	-0.29886048	0.199262942	-2.32255688	
LOC388282	0.298793909	0.199262942	2.321988813	
OR5K4	0.298667588	0.199262942	2.32091098	
TRIM37	-0.29878202	0.199262942	-2.321887368	yes
PNN	-0.298596955	0.199262942	-2.320308369	
DOK4	0.298640663	0.199262942	2.320681258	
RING1	0.298791958	0.199262942	2.321972169	
DNAJB14	-0.298688087	0.199262942	-2.321085878	
PTGES2	0.298639692	0.199262942	2.320672974	
WISP2	0.298628053	0.199262942	2.320573674	
BRE	-0.2986351	0.199262942	-2.320633803	
KIAA0427	0.298858181	0.199262942	2.322537265	yes
SHOC2	-0.298568351	0.199297047	-2.320064341	
PDP2	-0.298446839	0.199546236	-2.319027765	
RPL32	-0.298465607	0.199546236	-2.319187864	
DGAT1	0.298486868	0.199546236	2.319369222	
FRS3	0.298389136	0.199700119	2.318535565	
LOC100129434	0.298048848	0.199804089	2.31563353	
LOC100133387	0.298134414	0.199804089	2.316363161	
COL4A3BP	-0.296941025	0.199804089	-2.306192503	
LRPPRC	-0.297379756	0.199804089	-2.309930206	
SMNDC1	-0.2981751	0.199804089	-2.316710114	
MYL12A	-0.297348692	0.199804089	-2.309665505	
CHL1	-0.297048535	0.199804089	-2.307108266	
CAPN9	-0.297557926	0.199804089	-2.31144856	
MMP24	0.29738799	0.199804089	2.310000364	
RAB32	0.297335223	0.199804089	2.309550739	
C1QTNF6	0.297080547	0.199804089	2.307380968	
C1orf122	0.297310418	0.199804089	2.309339385	
APOOL	-0.297015127	0.199804089	-2.306823693	

RIMS4	0.297709555	0.199804089	2.312740931	
CSTF2	-0.296950938	0.199804089	-2.306276935	
GPR180	-0.298057658	0.199804089	-2.315708645	
TOR1AIP2	-0.298023602	0.199804089	-2.315418259	
DQX1	-0.297616504	0.199804089	-2.311947813	
ZNF92	-0.297005672	0.199804089	-2.306743151	
ZNF675	-0.296959954	0.199804089	-2.30635373	
SENP5	-0.297665108	0.199804089	-2.312362076	
FOXE3	0.297749375	0.199804089	2.313080364	
EXPH5	-0.298303473	0.199804089	-2.317804922	yes
KIAA0323	0.29785603	0.199804089	2.313989571	
KIAA0368	-0.297037952	0.199804089	-2.307018119	
INTS7	-0.297118671	0.199804089	-2.307705737	
GORASP2	-0.297290151	0.199804089	-2.309166702	
IL1F5	0.297144036	0.199804089	2.307921821	
DKKL1	0.297556361	0.199804089	2.311435217	
HOXD4	0.297929964	0.199804089	2.314619892	yes
IFNE	-0.296842138	0.199804089	-2.305350269	
KRT13	-0.297229885	0.199804089	-2.308653219	
C2orf66	-0.297496901	0.199804089	-2.310928472	
PBX2	0.297036905	0.199804089	2.307009197	
NMD3	-0.298337617	0.199804089	-2.318096138	
NDUFAF1	-0.296876499	0.199804089	-2.305642916	
ANAPC11	0.297855984	0.199804089	2.313989174	
FXVD6	0.297529281	0.199804089	2.31120443	
GNB1L	0.297322665	0.199804089	2.309443732	
SRBD1	-0.297013074	0.199804089	-2.306806203	
LGI2	0.297386521	0.199804089	2.309987849	
PREP	-0.297583503	0.199804089	-2.311666544	
KIF21A	-0.29754884	0.199804089	-2.311371121	
NHP2	0.297646573	0.199804089	2.312204096	
CAMK1D	-0.298070412	0.199804089	-2.3158174	
KIAA1219	-0.297792738	0.199804089	-2.313450007	

RFC1	-0.297246472	0.199804089	-2.308794542	
SNORA52	0.296897664	0.199804089	2.305823182	
SDC2	0.297291627	0.199804089	2.309179271	
C14orf133	-0.297203898	0.199804089	-2.308431814	
LOC643699	0.298148723	0.199804089	2.316485182	
TNS3	0.296902	0.199804089	2.305860114	
CCDC14	-0.297240196	0.199804089	-2.308741071	
SS18	-0.297333783	0.199804089	-2.30953847	yes
SYT1	-0.298113581	0.199804089	-2.316185504	
TEK	0.297764152	0.199804089	2.313206325	
UGDH	-0.298141487	0.199804089	-2.316423477	
UGT2B17	0.296919858	0.199804089	2.306012212	
ZNF28	-0.297575526	0.199804089	-2.311598555	
TFEB	0.297437189	0.199804089	2.310419619	
FAM184A	-0.297117088	0.199804089	-2.307692251	
VCPIP1	-0.297752971	0.199804089	-2.313111021	
SLCO5A1	0.296823379	0.199804089	2.305190509	
C18orf21	-0.298119648	0.199804089	-2.316237243	
CUL2	-0.297931808	0.199804089	-2.314635606	
TTF2	-0.29746833	0.199804089	-2.310684996	
GLIS2	0.29764922	0.199804089	2.312226655	
FAM136A	-0.296846184	0.199804089	-2.305384732	
PRIC285	0.298011472	0.199804089	2.315314837	
MYOZ3	0.298178795	0.199804089	2.316741622	
MRRF	-0.297129903	0.199804089	-2.307801423	
MMP20	0.297095109	0.199804089	2.307505013	
FEZ1	0.298141153	0.199804089	2.316420622	yes
MLL4	0.298120442	0.199804089	2.316244016	
ZBTB24	-0.297762879	0.199804089	-2.313195479	
DENND4B	0.297879592	0.199804089	2.314190437	
KIAA0020	-0.297638795	0.199804089	-2.312137799	
MXRA8	0.296797648	0.199828621	2.304971374	
MAP3K2	-0.296766218	0.199876516	-2.304703707	

TNFRSF14	0.296740965	0.199899148	2.304488649	
DNASE1L1	0.296632057	0.200183777	2.303561253	
LZTR1	0.29664461	0.200183777	2.303668149	
TNK2	0.296478478	0.200196953	2.302253631	
C10orf137	-0.296599798	0.200196953	-2.303286578	
SLC25A24	-0.296442442	0.200196953	-2.301946844	
C1orf110	-0.296471106	0.200196953	-2.30219087	yes
hCG_1983332	0.296444366	0.200196953	2.301963224	
PCMT1	-0.296495038	0.200196953	-2.302394626	
ZFR	-0.296557218	0.200196953	-2.30292403	
LRDD	0.296432029	0.200196953	2.301858192	
OBFC1	-0.296487661	0.200196953	-2.302331818	
HNRPLL	-0.296445965	0.200196953	-2.301976837	
ZNF503	0.296402811	0.200236174	2.301609455	
HMG20B	0.296231133	0.200283623	2.300148073	
ADH7	-0.296125955	0.200283623	-2.299252882	
PACRGL	-0.296322478	0.200283623	-2.300925601	
DNMT3A	0.296259734	0.200283623	2.300391514	
EDN1	0.296002089	0.200283623	2.29819875	yes
CRTC2	0.296053878	0.200283623	2.298639479	
KIN	-0.296089903	0.200283623	-2.298946061	
FBXO4	-0.295988238	0.200283623	-2.298080883	
EIF2AK1	-0.295981825	0.200283623	-2.298026317	
NDUFS7	0.296331185	0.200283623	2.300999724	
NDN	0.296353406	0.200283623	2.301188879	
ASXL2	-0.296061686	0.200283623	-2.298705925	yes
BDP1	-0.296006481	0.200283623	-2.298236131	
RAB1A	-0.296111415	0.200283623	-2.299129141	
RNASE4	-0.295980192	0.200283623	-2.298012415	
SNORD5	-0.296039197	0.200283623	-2.298514539	
ZNF154	0.295992487	0.200283623	2.298117043	
CACNB1	0.296275536	0.200283623	2.30052602	
B3GNT5	-0.296189647	0.200283623	-2.299794963	yes

HAND1	0.296054237	0.200283623	2.29864253	
G3BP2	-0.29599271	0.200283623	-2.298118945	
PSG4	0.29595895	0.200290746	2.297831662	
WNT3	0.295934156	0.200312434	2.297620682	
C17orf50	0.295658031	0.200417082	2.2952714	
FAM91A1	-0.295844629	0.200417082	-2.296858918	
GOLGA4	-0.295781503	0.200417082	-2.296321831	
JMJD8	0.295838977	0.200417082	2.296810825	
KLHL17	0.295698346	0.200417082	2.295614367	
C9orf106	0.29565573	0.200417082	2.295251827	
MSH2	-0.295661899	0.200417082	-2.295304308	
PKN2	-0.29585849	0.200417082	-2.296976849	
LOC645195	0.295657013	0.200417082	2.295262742	
FAM128A	0.295672339	0.200417082	2.29539312	
UCN	0.29578161	0.200417082	2.296322736	
CFHR5	0.295717924	0.200417082	2.295780918	
TTC37	-0.295723022	0.200417082	-2.295824296	
ARL10	0.295581176	0.200563363	2.294617634	yes
ORC2L	-0.295589867	0.200563363	-2.294691557	
IFNA16	0.295523386	0.200633099	2.294126071	
RPL26P19	0.295508842	0.200633099	2.294002359	
PLSCR3	0.295505973	0.200633099	2.293977959	
SIX6	0.295436663	0.200837582	2.293388451	
SLC30A9	-0.29541205	0.200850163	-2.293179126	
C14orf106	-0.295356136	0.200850163	-2.292703598	
PCDHB12	0.295371633	0.200850163	2.292835385	
LPPR4	0.295367404	0.200850163	2.292799423	
DNAJC18	0.295241746	0.201022209	2.291730828	
HARS	-0.295262027	0.201022209	-2.291903288	
KCNA5	0.29521746	0.201022209	2.291524322	
ASAP3	0.295218605	0.201022209	2.291534055	
VTN	0.295249165	0.201022209	2.291793921	
OR5H15	0.295190403	0.20105392	2.291294253	

ZNF277	-0.295116122	0.201198674	-2.290662663	
FAM124A	0.295097166	0.201198674	2.290501488	
NOC3L	-0.295113098	0.201198674	-2.290636948	
GABRB1	0.29507631	0.20120507	2.29032417	
UNQ5814	0.295017641	0.201216904	2.289825372	
FTCD	0.294992105	0.201216904	2.289608278	
CHST14	0.295043125	0.201216904	2.290042031	
HIPK2	-0.294979935	0.201216904	-2.28950482	
MRPS18C	-0.294965511	0.201216904	-2.289382194	
HCCA2	0.294957782	0.201216904	2.289316495	
FLJ32810	-0.294923287	0.201279383	-2.289023249	
TGFA	-0.294874668	0.201320918	-2.28860996	yes
BRAP	-0.294877005	0.201320918	-2.288629825	
MOSPD1	-0.294816312	0.201402474	-2.288113922	
RNF170	-0.29482656	0.201402474	-2.288201033	
CDC2L6	-0.294777379	0.201483297	-2.287783003	
LARGE	0.294716353	0.201654816	2.287264318	
ZNF770	-0.29464622	0.201863861	-2.286668272	
DNAJC24	-0.294574269	0.201889687	-2.286056815	
STRN3	-0.294563127	0.201889687	-2.28596213	
PTCD3	-0.294599452	0.201889687	-2.286270824	
ZCCHC7	-0.294567918	0.201889687	-2.286002845	
ZNHIT6	-0.294508661	0.201955809	-2.285499297	
CBX4	0.29451574	0.201955809	2.285559454	
YWHAQ	-0.294398579	0.20213289	-2.284563941	
OPA1	-0.294401618	0.20213289	-2.284589755	
WNT4	0.29441265	0.20213289	2.284683496	
VRK1	-0.294388893	0.20213289	-2.28448164	
ENGASE	0.294330654	0.20221484	2.283986831	
MED13	-0.294338736	0.20221484	-2.284055495	
DCUN1D1	-0.294260966	0.202297418	-2.283394783	
FAM107B	-0.294270337	0.202297418	-2.283474396	
H2AFV	-0.29425316	0.202297418	-2.283328471	

KIF13B	-0.294226277	0.202301323	-2.283100091	
FAM108A5	0.294213971	0.202301323	2.282995552	
SCARA5	0.294151649	0.202321908	2.282466146	
RPL36P14	0.294158726	0.202321908	2.282526263	
MGMT	0.294161921	0.202321908	2.282553403	
KCNH3	0.294073944	0.202562909	2.281806108	
SLC4A9	0.294022146	0.202697495	2.281366152	
ADAD2	0.293912919	0.202731303	2.280438497	yes
TMEM186	-0.29394879	0.202731303	-2.280743136	
HLX	0.293884074	0.202731303	2.28019353	
LRP1	0.293880462	0.202731303	2.280162853	
EVL	0.293886514	0.202731303	2.280214255	
XKR8	0.293886099	0.202731303	2.280210733	
PSMD10	-0.293936696	0.202731303	-2.280640421	
HAAO	0.293794104	0.202868326	2.279429518	
MUTYH	0.293790054	0.202868326	2.279395127	
MFF	-0.293801215	0.202868326	-2.279489897	
SEC24B	-0.293761543	0.202884171	-2.279153022	
MRPL45	-0.293734756	0.202884171	-2.278925574	
ProSAPiP1	0.293729145	0.202884171	2.278877931	yes
PAPOLA	-0.293618971	0.203090577	-2.277942488	yes
ASCC3	-0.293603009	0.203090577	-2.277806974	
LOC100133419	0.293643984	0.203090577	2.278154856	
ZFP91	-0.293628394	0.203090577	-2.278022497	
ZNF443	-0.293547988	0.203141682	-2.277339855	
KCTD18	-0.293533658	0.203141682	-2.277218207	
SLC35E4	0.293564284	0.203141682	2.277478207	
DEFB112	0.293500636	0.203199563	2.276937871	
NPB	0.293455138	0.203286793	2.276551645	
ZFAND1	-0.293441539	0.203286793	-2.276436206	
HLA-DMA	0.293403655	0.2033648	2.276114626	
UCHL3	-0.293371167	0.203420608	-2.275838855	
C4orf15	-0.293302222	0.203626783	-2.275253665	

XRN2	-0.293282192	0.20363128	-2.275083668	
LRRN4CL	0.293239932	0.203649428	2.274724997	
TP53I13	0.29324095	0.203649428	2.274733636	
SLC18A3	0.293185999	0.203793873	2.274267281	
ENDOG	0.293165562	0.203800145	2.274093841	
NDUFS1	-0.293102835	0.203981015	-2.273561533	
DEAF1	0.293041093	0.203996327	2.273037605	
PDE12	-0.293005249	0.203996327	-2.272733465	
BZW2	-0.292968423	0.203996327	-2.272420993	
C1orf95	0.293008152	0.203996327	2.272758095	
RAB7A	-0.293000239	0.203996327	-2.272690952	
MYOM1	0.292966898	0.203996327	2.272408056	
FGF16	0.293047641	0.203996327	2.273093172	
LIN7C	-0.292927782	0.204002066	-2.272076174	
RNF34	-0.292939336	0.204002066	-2.272174205	
FARSB	-0.292850561	0.204077054	-2.271421022	
RASSF1	0.292834234	0.204077054	2.271282507	
ENSA	-0.292846573	0.204077054	-2.271387184	
GPR27	0.292876318	0.204077054	2.271639542	
EPRS	-0.292813794	0.204083695	-2.271109104	
SNORD116-24	0.292708458	0.204134914	2.270215527	
SEC23B	-0.292602261	0.204134914	-2.269314737	
FAM173B	-0.292650114	0.204134914	-2.269720625	
CCDC117	-0.2924765	0.204134914	-2.268248115	
CXorf38	-0.292481856	0.204134914	-2.268293543	
EBF1	0.292552744	0.204134914	2.268894755	yes
CYS1	0.292556128	0.204134914	2.268923456	
SNORD42B	-0.292486103	0.204134914	-2.26832956	
TMEM70	-0.292558314	0.204134914	-2.268941994	
OXSM	-0.292545772	0.204134914	-2.26883562	
KLHL7	-0.292690536	0.204134914	-2.270063496	
SPRR2D	-0.292714131	0.204134914	-2.270263649	
ZNF33A	-0.29263085	0.204134914	-2.269557225	

C4orf14	-0.292584921	0.204134914	-2.269167665	
KIAA1755	0.292718676	0.204134914	2.2703022	
ADAM20	-0.292463443	0.204134914	-2.268137387	
ZMYM6	-0.292473497	0.204134914	-2.268222647	
SNORD25	-0.292579727	0.204134914	-2.26912361	
DNASE1	0.292362148	0.204447996	2.26727838	
CCAR1	-0.292350137	0.204447996	-2.267176525	
NDST1	0.292249525	0.204763645	2.266323399	
HSD3B7	0.292236313	0.204763645	2.266211376	
TNIP1	0.291978766	0.204786938	2.26402795	
GLCCI1	-0.292027975	0.204786938	-2.264445093	
ZNF501	-0.291971193	0.204786938	-2.263963755	
ZNF428	0.292045147	0.204786938	2.264590659	
SGMS1	-0.29215511	0.204786938	-2.265522902	
ACSM2B	-0.291949631	0.204786938	-2.263780987	
CHCHD10	0.291876714	0.204786938	2.263162923	
CYP39A1	-0.291909292	0.204786938	-2.263439061	
PGD	-0.291919454	0.204786938	-2.263525197	
ATP6V1B1	0.29214079	0.204786938	2.265401497	
POLB	-0.291940571	0.204786938	-2.263704187	
GPR172B	0.292123182	0.204786938	2.265252209	
BRUNOL6	0.292169083	0.204786938	2.265641364	
SMS	-0.292148404	0.204786938	-2.265466046	
UBE2H	-0.292105746	0.204786938	-2.265104396	
VASP	0.29185772	0.204786938	2.263001938	
EFTUD1	-0.291949579	0.204786938	-2.263780542	
ZNF671	0.291964101	0.204786938	2.263903642	
CTSF	0.291939471	0.204786938	2.263694863	
RQCD1	-0.29186416	0.204786938	-2.263056519	yes
CRH	0.291767731	0.20478873	2.262239243	yes
EFNA2	0.291755939	0.20478873	2.262139309	
SCFD1	-0.291799774	0.20478873	-2.262510812	
DPY19L1	-0.291821531	0.20478873	-2.262695215	

HOXB2	0.291815276	0.20478873	2.262642194	
UBL5	0.291745856	0.20478873	2.262053854	
CD109	-0.291577275	0.20498954	-2.260625266	
CREM	-0.291485453	0.20498954	-2.259847256	
DSG3	-0.291473146	0.20498954	-2.259742982	
IMMP1L	-0.291507644	0.20498954	-2.260035271	
FAM126B	-0.291539799	0.20498954	-2.260307721	
RRM2B	-0.291516606	0.20498954	-2.260111208	
RASA1	-0.291652228	0.20498954	-2.261260406	
KIAA0895L	0.291557146	0.20498954	2.260454712	
UBE2G1	-0.291473774	0.20498954	-2.259748297	
CEP97	-0.291515474	0.20498954	-2.260101616	
ZNF552	-0.291674692	0.20498954	-2.261450769	
USP14	-0.291456473	0.20498954	-2.259601718	
ZNF276	0.291494199	0.20498954	2.259921354	
WIZ	0.291411186	0.205100219	2.259218026	
RASGRP2	0.291297862	0.205186958	2.258257981	yes
USP16	-0.291333364	0.205186958	-2.258558731	
SNORD44	-0.291312965	0.205186958	-2.258385924	
ACHE	0.291300692	0.205186958	2.258281962	yes
TARBP2	0.291333578	0.205186958	2.258560546	
CTDSPL2	-0.291226302	0.205406377	-2.257651804	
SNORD115-48	0.291189155	0.205483681	2.257337154	
B3GNT2	-0.291098614	0.20549657	-2.256570269	
PLK4	-0.291038675	0.20549657	-2.256062627	
SSX2IP	-0.291046129	0.20549657	-2.256125755	
DRD4	0.29106456	0.20549657	2.25628185	
MRPS10	-0.291044937	0.20549657	-2.256115661	yes
SCARNA4	0.291124566	0.20549657	2.25679008	yes
TFAP2B	0.291065221	0.20549657	2.256287446	
ZNF613	-0.291102694	0.20549657	-2.256604823	
TMEM123	-0.290915744	0.205517178	-2.255021572	
GLOD5	0.290978249	0.205517178	2.255550884	

ST20	0.291000932	0.205517178	2.255742981	
FAM35A	-0.290922124	0.205517178	-2.255075591	
BMP2K	-0.290896492	0.205517178	-2.254858544	
CDK5RAP2	-0.290911042	0.205517178	-2.254981748	
RB1	-0.29096541	0.205517178	-2.255442154	
COPB2	-0.290886689	0.205517178	-2.254775527	
C6orf162	-0.290852932	0.205580826	-2.254489683	
HELQ	-0.290799568	0.205725546	-2.254037826	
ACN9	-0.290752634	0.205843761	-2.253640441	
HDAC5	0.290597337	0.205962469	2.252325662	
CISH	0.290681191	0.205962469	2.253035567	
DONSON	-0.290664696	0.205962469	-2.252895914	
LOXL1	0.290643756	0.205962469	2.252718639	
TM9SF3	-0.290590322	0.205962469	-2.252266274	
GALNTL1	0.290577384	0.205962469	2.252156753	yes
TMEM49	-0.290680788	0.205962469	-2.253032154	
MIXL1	0.290594243	0.205962469	2.25229947	
FUSIP1	-0.290540782	0.206037757	-2.251846904	
NDUFA3	0.290522598	0.206037757	2.251692978	
LOC100133142	0.290177436	0.206155939	2.248771672	yes
LZTS1	0.290137588	0.206155939	2.248434477	
MSI2	-0.290050002	0.206155939	-2.247693368	
DUSP9	0.290153661	0.206155939	2.248570488	
E2F5	-0.290201453	0.206155939	-2.248974917	
C6orf1	0.290005368	0.206155939	2.247315719	
INPP5F	-0.290070301	0.206155939	-2.247865129	
MGC72080	-0.290268822	0.206155939	-2.249545032	
MGAT2	-0.289997534	0.206155939	-2.247249438	
OTUD6B	-0.289991421	0.206155939	-2.247197719	
HES4	0.290354182	0.206155939	2.250267459	
PYGL	-0.290085503	0.206155939	-2.247993758	
SNRNP70	0.29018763	0.206155939	2.248857937	
TAF10	0.290320954	0.206155939	2.249986233	

SERPING1	0.290374789	0.206155939	2.250441868	
ZNF75A	-0.290091286	0.206155939	-2.24804269	
TMEM38A	0.29018243	0.206155939	2.248813931	yes
NUDT18	0.289984158	0.206155939	2.24713627	
ZNF614	-0.290127275	0.206155939	-2.248347217	
AMN	0.29004616	0.206155939	2.247660864	
C21orf56	0.290115039	0.206155939	2.248243672	
RAX2	0.290279483	0.206155939	2.249635256	
ATAD1	-0.290102252	0.206155939	-2.248135478	
WASL	-0.290318838	0.206155939	-2.249968328	
UAP1L1	0.29035167	0.206155939	2.250246194	yes
VAPA	-0.290423437	0.206155939	-2.250853626	yes
ZNF764	0.290325378	0.206155939	2.250023676	
NCOR1	-0.290013378	0.206155939	-2.247383491	
RAB10	-0.28992092	0.206192566	-2.246601254	
SUB1	-0.289955526	0.206192566	-2.246894032	
NRBF2	-0.289934607	0.206192566	-2.246717048	
GIMAP8	0.289882778	0.206200501	2.246278574	
OTUD3	-0.289891089	0.206200501	-2.246348882	
CCDC9	0.28984589	0.20627811	2.245966515	yes
SMC4	-0.289699289	0.206670931	-2.244726428	
HRSP12	-0.289680129	0.206670931	-2.244564368	
CEBPD	0.289507149	0.206670931	2.243101383	
SIX2	0.289389391	0.206670931	2.242105584	
RAPGEF4	0.289448736	0.206670931	2.242607415	
SAMD8	-0.289076842	0.206670931	-2.239463104	
CSNK1G3	-0.289120685	0.206670931	-2.239833736	
ZMAT2	-0.289059105	0.206670931	-2.239313171	
KIAA2026	-0.289305688	0.206670931	-2.241397832	
DKC1	-0.289496983	0.206670931	-2.243015412	
ALCAM	-0.289596005	0.206670931	-2.24385286	
TFIP11	-0.289290384	0.206670931	-2.241268438	
MFSD8	-0.28925432	0.206670931	-2.240963522	

POT1	-0.289094092	0.206670931	-2.239608933
HACL1	-0.289201818	0.206670931	-2.240519635
CKAP2	-0.289232331	0.206670931	-2.240777611
MRPL46	-0.289206227	0.206670931	-2.240556917
HNRNPA2B1	-0.289155805	0.206670931	-2.240130633
HNRNPK	-0.289580206	0.206670931	-2.243719237
HNRNPU	-0.289048892	0.206670931	-2.239226836
LOC401431	0.289426633	0.206670931	2.242420508
MXRA7	0.289152862	0.206670931	2.240105752
MYLK	0.289359449	0.206670931	2.241852406
NPM1	-0.289530238	0.206670931	-2.243296644
YBX2	0.289176923	0.206670931	2.240309171
WBP11	-0.289400369	0.206670931	-2.242198419
PRPF39	-0.289088414	0.206670931	-2.239560932
KLHL9	-0.289223642	0.206670931	-2.240704148
GOLPH3	-0.289343413	0.206670931	-2.241716808
PAPD5	-0.289189177	0.206670931	-2.240412766
GPBP1	-0.289257607	0.206670931	-2.240991309
SRP54	-0.289257726	0.206670931	-2.240992316
TRAF2	0.289413172	0.206670931	2.242306681
EOMES	0.289207239	0.206670931	2.240565468
CIRH1A	-0.289191424	0.206670931	-2.240431766
C19orf2	-0.289632914	0.206670931	-2.244165023
COPS2	-0.289476254	0.206670931	-2.242840121
CD151	0.289095212	0.206670931	2.239618401
RNF144A	0.289535449	0.206670931	2.24334072
DNAJC2	-0.288975736	0.206677616	-2.23860846
ASPH	-0.28900277	0.206677616	-2.238836977
SNX14	-0.288977945	0.206677616	-2.238627135
CEP76	-0.289013408	0.206677616	-2.238926895
hCG_1771830	0.288957263	0.206680101	2.238452318
RAB18	-0.288924775	0.206740465	-2.238177725
CXorf55	0.288845351	0.206839023	2.23750645

PDIK1L	-0.28881165	0.206839023	-2.237221626	yes
FHL3	0.288854497	0.206839023	2.237583746	
TOMM7	0.288829389	0.206839023	2.237371541	
ZNF628	0.288833381	0.206839023	2.237405281	
JOSD2	0.288673182	0.20708699	2.236051479	
MRPL55	0.288691089	0.20708699	2.236202794	
DLEU7	0.288626865	0.20708699	2.2356601	
IQSEC2	0.288651253	0.20708699	2.235866178	
TMED7	-0.288661215	0.20708699	-2.235950355	
DPY30	-0.288631862	0.20708699	-2.235702329	yes
DPM1	-0.28863268	0.20708699	-2.235709235	
ZC3H8	-0.288607847	0.207092013	-2.235499403	
LIN52	-0.288568696	0.207180248	-2.2351686	
NGLY1	-0.288513586	0.207334513	-2.234702969	
DLEU2	-0.288473532	0.207426589	-2.234364567	
ARIH1	-0.288402903	0.207603146	-2.233767873	
THY1	0.288377514	0.207603146	2.233553396	yes
ARHGAP11B	-0.288382757	0.207603146	-2.233597687	
PARP10	0.288308193	0.207816569	2.232967805	
GGT7	0.288217517	0.2078516	2.23220188	
LOC442461	0.28821975	0.2078516	2.232220737	
NFE2	0.28824791	0.2078516	2.232458598	yes
PSPC1	-0.288278691	0.2078516	-2.232718602	
CANX	-0.288210935	0.2078516	-2.232146279	
GLYATL1	0.288190149	0.207864194	2.231970715	
TTC28	0.288130731	0.207971404	2.231468869	
ZNF841	-0.288124509	0.207971404	-2.231416317	
CLDN10	-0.288111059	0.207971404	-2.231302729	
CDKL3	-0.288072924	0.208055961	-2.230980656	
THRA	0.2880337	0.208071651	2.230649399	
C2orf49	-0.28804987	0.208071651	-2.230785958	
ADAM10	-0.287857145	0.208363276	-2.229158513	
FAM135A	-0.287899048	0.208363276	-2.229512331	

SBF1	0.287900823	0.208363276	2.229527322
FKBPL	0.287861933	0.208363276	2.229198945
RPS28P6	0.287896828	0.208363276	2.229493586
BCAR1	0.28785983	0.208363276	2.229181187
KLHL12	-0.287794047	0.208514126	-2.228625756
TXNRD1	-0.287785412	0.208514126	-2.228552844
TNPO3	-0.287699093	0.208579039	-2.22782408
FXYD5	0.287731593	0.208579039	2.228098466
SH3RF1	-0.287714671	0.208579039	-2.227955597
FDXACB1	-0.287730254	0.208579039	-2.228087157
DLC1	0.287663903	0.208638435	2.227527
C6orf141	0.287649471	0.208638435	2.227405162
TRGV5	0.287551003	0.20882746	2.226573936
GFI1B	0.287553949	0.20882746	2.226598803
RBM18	-0.287572054	0.20882746	-2.226751635
HIGD1B	0.287477922	0.208984514	2.225957065
APBA3	0.287491156	0.208984514	2.226068771
BBS10	-0.287456648	0.208999672	-2.225777499
METAP2	-0.287435553	0.209009733	-2.225599457
MRPS35	-0.28741899	0.209009733	-2.22545966
SKIV2L2	-0.287344468	0.209246226	-2.224830705
DDX21	-0.287289319	0.20940234	-2.224365278
MTF2	-0.287261318	0.209437033	-2.224128979
FLVCR1	-0.287193002	0.209437033	-2.223552491
FAM33A	-0.287213112	0.209437033	-2.223722188
NFKBIL1	0.287231014	0.209437033	2.223873256
MARK4	0.287198291	0.209437033	2.223597119
QRFP	0.287111191	0.209704304	2.222862166
CCDC124	0.287069851	0.209745156	2.222513353
CLK2	0.287043975	0.209745156	2.222295035
DSC3	-0.287061437	0.209745156	-2.222442364
NIP7	-0.287013536	0.209745156	-2.222038214
ZNF45	-0.287016104	0.209745156	-2.222059886

DTX3	0.286990816	0.209766663	2.221846529	
CEACAM7	-0.286857703	0.210097138	-2.220723558	
SNORA2B	-0.286849532	0.210097138	-2.220654634	
LRRC31	-0.2868413	0.210097138	-2.220585188	
EEF1E1	-0.286881674	0.210097138	-2.220925776	
ZNF653	0.286749271	0.210137967	2.219808904	
FUT8	-0.286760021	0.210137967	-2.219899582	
MAOA	-0.286758404	0.210137967	-2.219885939	
MOCS1	0.286743887	0.210137967	2.219763497	
NME1	-0.286751432	0.210137967	-2.219827131	
MEP1A	0.286676184	0.210259554	2.219192454	
RSRC1	-0.286662201	0.210259554	-2.219074518	
ZNF562	-0.286673959	0.210259554	-2.219173684	
C7orf46	-0.286552937	0.210423452	-2.218153011	
RBP1	0.286594627	0.210423452	2.218504605	
SNORA23	0.2865533	0.210423452	2.218156072	
TXN	-0.286570246	0.210423452	-2.218298987	
SEC11B	-0.286268636	0.210801495	-2.215755741	
TMEM154	-0.286389128	0.210801495	-2.216771671	yes
FAP	0.286317609	0.210801495	2.216168641	
FOXL1	0.286273264	0.210801495	2.215794758	
ZBTB7A	0.28634209	0.210801495	2.216375051	
SCOC	-0.286379337	0.210801495	-2.216689108	
PBLD	-0.286349968	0.210801495	-2.216441475	
FASTKD1	-0.286278997	0.210801495	-2.215843088	
DCTN5	-0.286252899	0.210801495	-2.215623063	
LOC91431	-0.286256139	0.210801495	-2.215650376	
TM9SF2	-0.286272311	0.210801495	-2.215786718	
WTAP	-0.286283794	0.210801495	-2.215883534	
SNHG10	0.286231732	0.210817131	2.2154446	
AHDC1	0.28606333	0.210819283	2.214024956	
C11orf67	0.286057277	0.210819283	2.213973935	
LOC375295	0.286115976	0.210819283	2.214468742	yes

LOC440944	-0.286102191	0.210819283	-2.214352541	
FAR2	-0.286092768	0.210819283	-2.214273107	
PSG6	0.286085464	0.210819283	2.214211536	
SC5DL	-0.286088349	0.210819283	-2.214235854	
CALB1	0.286079344	0.210819283	2.214159946	
SESN2	0.286060979	0.210819283	2.214005143	
LRRCC1	-0.28606298	0.210819283	-2.214022004	
GNAI3	-0.286026751	0.210840522	-2.213716622	
EIF2B3	-0.285985089	0.210840522	-2.213365453	
ORMDL1	-0.286005873	0.210840522	-2.213540641	
KIAA0232	-0.285982748	0.210840522	-2.213345723	yes
DARS	-0.285945574	0.21092322	-2.213032394	
EMP3	0.285899786	0.210989563	2.21264648	
RP5-1077B9.4	0.285877655	0.210989563	2.212459961	
TCL1B	0.285881959	0.210989563	2.21249623	
C6orf115	-0.285853248	0.21101909	-2.212254264	
SNORD45A	-0.285810264	0.211126166	-2.211892007	
SPHK1	0.285773306	0.211208134	2.211580551	yes
HBS1L	-0.285674378	0.211240945	-2.210746907	
DDX42	-0.285510465	0.211240945	-2.209365822	
KRBA2	-0.285482469	0.211240945	-2.209129957	
FAM43B	0.285502615	0.211240945	2.209299689	
MEGF8	0.285547173	0.211240945	2.209675098	
GALK1	0.285402811	0.211240945	2.20845888	
C11orf20	0.285493845	0.211240945	2.2092258	yes
GALT	0.28553952	0.211240945	2.209610617	
PNKD	0.285537155	0.211240945	2.209590692	
BREA2	-0.285516733	0.211240945	-2.209418633	
FHOD1	0.285424255	0.211240945	2.208639531	
SUFU	0.28574573	0.211240945	2.211348164	
BTBD2	0.285631694	0.211240945	2.210387244	
NDUFA4L2	0.28572584	0.211240945	2.21118056	
VAR52	0.285625066	0.211240945	2.210331396	

THOC2	-0.285418911	0.211240945	-2.208594505	
SFRS1	-0.285464323	0.211240945	-2.208977086	
MPPED1	0.285557357	0.211240945	2.209760903	
ZNF165	-0.285692519	0.211240945	-2.210899773	
CBLL1	-0.285565365	0.211240945	-2.209828374	yes
CALN1	0.285405737	0.211240945	2.208483527	
UIMC1	-0.285375975	0.211281076	-2.208232802	
CBARA1	-0.285319112	0.211290186	-2.207753805	
RPS7P4	0.285299562	0.211290186	2.207589125	
RTTN	-0.285290815	0.211290186	-2.207515447	
UCN2	0.285287788	0.211290186	2.207489946	
S1PR2	0.285330583	0.211290186	2.207850434	
GAMT	0.285232754	0.211376369	2.207026389	
TSNAX	-0.285248147	0.211376369	-2.207156042	
C14orf49	0.285113471	0.211455431	2.206021739	
PLAC2	0.285152067	0.211455431	2.206346794	
LMAN1	-0.285108392	0.211455431	-2.205978957	
ANKIB1	-0.285093654	0.211455431	-2.205854838	
FLJ36848	0.285108309	0.211455431	2.205978266	
DEK	-0.285176605	0.211455431	-2.206553466	
ZBTB22	0.285156234	0.211455431	2.206381892	
ANKAR	-0.28507198	0.211474319	-2.20567231	
C3orf35	-0.285002974	0.211547722	-2.205091183	
ARF4	-0.285003964	0.211547722	-2.205099517	
C13orf1	-0.285034095	0.211547722	-2.205353255	
FLJ22184	0.28495879	0.211660597	2.204719116	
MFN1	-0.284874103	0.21194266	-2.204006012	
C7orf44	-0.284821073	0.212092683	-2.203559509	
GDI2	-0.284778575	0.212198766	-2.203201692	
DLG1	-0.284679271	0.212538006	-2.202365658	
PIGB	-0.28466325	0.212538006	-2.202230786	
SNX26	0.284620989	0.212613355	2.201875019	
ACP1	-0.284611033	0.212613355	-2.201791211	

PDCD6IP	-0.284563323	0.212664397	-2.201389596	yes
TUBA1B	0.284326807	0.212664397	2.199398906	
ATG7	-0.284259334	0.212664397	-2.198831081	
AKAP13	-0.284520567	0.212664397	-2.201029692	
WDFY2	-0.284251109	0.212664397	-2.198761864	
SEZ6	0.284269492	0.212664397	2.198916562	
LIX1L	0.284360201	0.212664397	2.199679948	yes
C15orf43	0.2844299	0.212664397	2.200266551	
FUT1	0.284287748	0.212664397	2.199070197	
RPAP1	0.284285899	0.212664397	2.199054633	
GDF2	0.284503827	0.212664397	2.200888792	
PDCD4	-0.284339741	0.212664397	-2.199507756	
APOE	0.284516998	0.212664397	2.200999651	
NCL	-0.284353427	0.212664397	-2.199622935	
PGM5	0.284298339	0.212664397	2.19915932	
SERPINB13	-0.284261491	0.212664397	-2.198849231	
ABCD3	-0.284326406	0.212664397	-2.199395531	
C16orf58	0.284322974	0.212664397	2.199366643	
DLK2	0.284240686	0.212664397	2.198674151	yes
BAT4	0.284488095	0.212664397	2.200756373	
LRRTM4	0.284358894	0.212664397	2.199668942	
SRFBP1	-0.284194673	0.212683789	-2.198286956	
FAM162B	0.284204536	0.212683789	2.198369954	
SLC8A3	0.284185055	0.212683789	2.19820602	
SUPT7L	-0.284139639	0.212802699	-2.197823864	
LOC642776	0.284099338	0.21290026	2.197484765	
ARSA	0.284043623	0.213062407	2.197015995	
SEMA6C	0.283994231	0.213127059	2.196600433	
PUS7L	-0.283996759	0.213127059	-2.196621709	
ECD	-0.283828563	0.213181891	-2.195206745	
HSF1	0.283898281	0.213181891	2.195793227	
MVD	0.283865326	0.213181891	2.195515999	
ATP6V1C1	-0.283952717	0.213181891	-2.196251174	

PPP1CC	-0.283843688	0.213181891	-2.195333974	
HDAC8	-0.283881424	0.213181891	-2.195651418	
NECAB3	0.28382959	0.213181891	2.195215383	
ZFP36L2	0.283938094	0.213181891	2.196128154	
STXBP3	-0.283844158	0.213181891	-2.195337927	
C8orf79	-0.28379751	0.213241032	-2.194945531	
CDC42EP1	0.283741499	0.213306954	2.194474401	
MAK16	-0.283752443	0.213306954	-2.194566447	
TMPRSS11D	-0.283731005	0.213306954	-2.194386132	
EPM2AIP1	-0.283709572	0.213325888	-2.194205856	
SH3RF3	0.283674047	0.21340387	2.193907056	
CROT	-0.28365612	0.213408154	-2.193756279	
LENG8	0.283459338	0.213820275	2.192101382	
COL8A2	0.283482183	0.213820275	2.192293488	yes
NQO1	-0.283439582	0.213820275	-2.191935256	yes
C22orf9	0.283450957	0.213820275	2.192030905	
CCDC28A	-0.283444135	0.213820275	-2.191973544	
KIAA1429	-0.283528076	0.213820275	-2.192679426	
METTL9	-0.283467936	0.213820275	-2.19217368	
TRUB1	-0.283383644	0.213881768	-2.191464886	
FOXO1	0.283401535	0.213881768	2.191615325	
RESP18	0.283374317	0.213881768	2.191386462	
COX8A	0.283326624	0.213940403	2.19098545	
GART	-0.28332888	0.213940403	-2.19100442	
CDC34	0.28330769	0.213949138	2.190826259	
LOC100130100	0.283138069	0.214516759	2.189400213	
C7orf11	-0.283108362	0.214516759	-2.189150485	
PIK3R5	0.283152306	0.214516759	2.189519899	
ARHGAP11A	-0.283105142	0.214516759	-2.189123421	
PYDC1	0.283081516	0.214545305	2.188924812	
MPG	0.283050159	0.214606369	2.188661224	
TCP10L	0.28296785	0.214743638	2.18796937	
WBP1	0.282964375	0.214743638	2.187940162	

C1orf66	0.282989597	0.214743638	2.188152165	
ATF7IP	-0.282950229	0.214743638	-2.187821267	
ZNF511	0.282761714	0.215080004	2.186236914	
AP4E1	-0.282742449	0.215080004	-2.186075025	
ARCN1	-0.282755483	0.215080004	-2.186184552	
NPAT	-0.282805535	0.215080004	-2.186605179	
NIF3L1	-0.282745785	0.215080004	-2.186103058	
SNORA28	-0.282742979	0.215080004	-2.186079474	
MED14	-0.282735909	0.215080004	-2.186020067	
UBE3C	-0.282850574	0.215080004	-2.186983698	
AGTRAP	0.282700628	0.215157894	2.18572359	
USP26	0.28267148	0.215179471	2.185478657	
GORAB	-0.282661958	0.215179471	-2.185398643	
MYSM1	-0.282514264	0.215393355	-2.184157678	
UNC84B	0.282510634	0.215393355	2.184127175	
JARID2	-0.282516822	0.215393355	-2.184179167	
YJEFN3	0.282572436	0.215393355	2.184646437	
PSMD12	-0.282553692	0.215393355	-2.184488948	
CX3CL1	0.282514301	0.215393355	2.184157988	
HLA-DPB1	0.282452456	0.215497408	2.183638395	
PSMD11	-0.282466914	0.215497408	-2.183759864	
RNF187	0.282399553	0.215579322	2.18319396	
FBRS	0.282410821	0.215579322	2.183288614	
LOC100130285	0.282141545	0.215611339	2.18102673	
INMT	0.282227044	0.215611339	2.181744851	yes
GPN1	-0.282153284	0.215611339	-2.181125325	
DACT3	0.282172312	0.215611339	2.18128514	
TCL6	0.282161313	0.215611339	2.18119276	
SYPL2	0.282224617	0.215611339	2.18172447	
TMEM181	-0.282335971	0.215611339	-2.182659826	
TERC	0.282357333	0.215611339	2.18283928	
ZNF227	-0.2822235	0.215611339	-2.181715081	
NUBPL	-0.282365361	0.215611339	-2.182906718	

GRPEL1	-0.282157978	0.215611339	-2.181164747	
GPR101	0.282283889	0.215611339	2.182222333	
MED23	-0.282282158	0.215611339	-2.182207793	
KIAA0391	-0.282172807	0.215611339	-2.181289299	
DAZAP2	-0.282281361	0.215611339	-2.182201096	yes
LOC100128003	0.281979384	0.216224803	2.179664869	
ITGB8	-0.281942871	0.216237333	-2.179358253	
TMEM144	-0.281957862	0.216237333	-2.179484141	
TBC1D17	0.281926444	0.216237333	2.179220316	
BLOC1S3	0.281885161	0.216341326	2.178873659	yes
LQK1	0.281868446	0.216341624	2.178733302	
NENF	0.281817829	0.216414836	2.178308295	yes
ABCD4	0.281833952	0.216414836	2.178443675	
KIAA2018	-0.281717359	0.216527537	-2.177464754	yes
HARBI1	-0.281694739	0.216527537	-2.177274854	
INTS8	-0.28172858	0.216527537	-2.177558964	
PSKH1	0.281718294	0.216527537	2.177472609	
COG6	-0.281691409	0.216527537	-2.177246892	
LIPK	0.281727565	0.216527537	2.17755044	
PIGN	-0.281653564	0.216547111	-2.176929178	
TGFB3	0.281659866	0.216547111	2.176982081	
NUAK1	0.281599931	0.216703544	2.176478935	
EXOC4	-0.281579972	0.216717755	-2.176311385	
CENPF	-0.281540727	0.216736769	-2.175981948	
USP54	-0.281469166	0.216736769	-2.175381276	
PLA1A	0.281443838	0.216736769	2.175168684	
C5orf22	-0.281490569	0.216736769	-2.175560922	
PTMS	0.281524142	0.216736769	2.175842734	yes
CRTC3	0.281459296	0.216736769	2.175298432	
TPST1	-0.281442862	0.216736769	-2.17516049	
FRMPD4	0.281504366	0.216736769	2.175676739	
CTAGE4	-0.281347788	0.216835818	-2.174362528	
KLHDC8B	0.28136598	0.216835818	2.17451521	

C3orf19	-0.281321375	0.216835818	-2.174140854	
LOC541471	-0.281373457	0.216835818	-2.174577959	
C17orf75	-0.281402288	0.216835818	-2.174819944	yes
SNORA55	0.281320137	0.216835818	2.174130465	
NUP98	-0.281286012	0.216910142	-2.173844073	
GJD3	0.281225828	0.216996518	2.173339008	
HABP4	0.281169363	0.216996518	2.172865179	
OR2J2	0.281173897	0.216996518	2.172903227	
GSTM1L	0.28116019	0.216996518	2.172788205	
KCTD17	0.281205792	0.216996518	2.173170872	
LHX3	0.281149964	0.216996518	2.172702395	
KIAA0101	-0.281200953	0.216996518	-2.173130266	
GTF2H4	0.281042289	0.217265129	2.17179892	
PP8961	0.281036925	0.217265129	2.171753914	
DOCK5	-0.281049909	0.217265129	-2.171862849	
WAPAL	-0.280973221	0.217413355	-2.17121943	
LYL1	0.280920445	0.217413355	2.17077666	
TRIM54	0.280919475	0.217413355	2.170768519	yes
C1QA	0.280927102	0.217413355	2.170832511	
FAM115A	0.280958918	0.217413355	2.171099431	yes
ADD3	-0.280888611	0.217421924	-2.17050959	
NDFIP2	-0.280884517	0.217421924	-2.17047525	
CPB1	0.280853654	0.217482846	2.170216339	
C7orf50	0.280833471	0.217498615	2.170047021	
PAK2	-0.280801491	0.217564305	-2.169778756	
DNM1	0.280756582	0.217615309	2.169402046	
ISLR	0.280740265	0.217615309	2.169265179	
RGS21	0.280740104	0.217615309	2.169263829	
POMGNT1	0.280702362	0.21770547	2.168947248	
ANKRD50	-0.280666148	0.217789202	-2.168643495	
SSBP1	-0.280633612	0.217857391	-2.168370611	
MICALL2	0.280593673	0.217956966	2.16803564	
FCHO2	-0.280554902	0.21796249	-2.167710473	

TMEM90A	0.280543115	0.21796249	2.167611622	
JOSD1	-0.280561079	0.21796249	-2.167762275	
KLF2	0.280489829	0.218014676	2.167164748	
ZNF366	0.280475196	0.218014676	2.167042034	
LOC347549	0.28046518	0.218014676	2.166958035	
TGFB1	0.28047732	0.218014676	2.167059846	
ATF6	-0.280444178	0.218033334	-2.166781917	
SH3BGRL2	-0.280427993	0.218033334	-2.166646193	
MAGEH1	0.280368563	0.218064973	2.166147845	
SNORD50B	-0.280378915	0.218064973	-2.166234655	
PLA2G6	0.280380635	0.218064973	2.166249071	
CCDC45	-0.280355009	0.218064973	-2.166034198	
METTL14	-0.280320262	0.218067487	-2.165742846	
JAM2	0.280336304	0.218067487	2.165877357	
SOCS1	0.280305326	0.218067487	2.165617611	
DIMT1L	-0.280235061	0.218223958	-2.165028471	
RSPO4	0.280249541	0.218223958	2.165149882	
C5orf30	-0.280219323	0.218223958	-2.164896525	
FANCF	-0.280194031	0.21826186	-2.16468448	yes
UBE4B	-0.280044134	0.218310876	-2.163427846	
MRPL3	-0.28004984	0.218310876	-2.163475676	
PSTK	-0.279874262	0.218310876	-2.162003966	
CCDC52	-0.279859963	0.218310876	-2.161884121	
DIP2C	0.279872257	0.218310876	2.16198716	
TMEM131	-0.280104883	0.218310876	-2.163937108	yes
GLT8D3	-0.279960323	0.218310876	-2.162725314	
UBXN1	0.279961734	0.218310876	2.162737138	
CEND1	0.279856469	0.218310876	2.161854838	
ATP8B1	-0.27996032	0.218310876	-2.162725288	
PLOD1	0.279913252	0.218310876	2.162330768	
ATP7B	-0.279874911	0.218310876	-2.162009408	
AGGF1	-0.280046044	0.218310876	-2.163443862	
SLAIN2	-0.280083062	0.218310876	-2.163754175	

NSUN3	-0.280012885	0.218310876	-2.163165901	
CCDC136	0.27989743	0.218310876	2.162198152	
ST3GAL3	0.279940232	0.218310876	2.162556905	
C21orf122	0.279996444	0.218310876	2.163028082	
GTPBP10	-0.279909018	0.218310876	-2.162295281	
ATG5	-0.27987774	0.218310876	-2.162033117	
BAT2D1	-0.279837885	0.218320733	-2.161699084	
LOC729135	0.279799672	0.218413695	2.161378815	
HTATIP2	-0.279783231	0.218414513	-2.161241029	
RTN4	-0.279729212	0.218574463	-2.160788325	
NPPC	0.279617264	0.218911245	2.159850206	
ETNK1	-0.279629804	0.218911245	-2.159955289	
RHOA	-0.279521993	0.219108776	-2.159051929	
UEVLD	-0.279523243	0.219108776	-2.159062402	
PRPF4	-0.279543459	0.219108776	-2.159231784	
ZNF638	-0.279489884	0.219125378	-2.158782899	
BIRC2	-0.279435863	0.219125378	-2.158330292	
LIPM	0.279413977	0.219125378	2.158146929	
OPRK1	0.279394099	0.219125378	2.157980401	yes
PTPRH	-0.279388384	0.219125378	-2.15793252	
RANBP17	-0.279449675	0.219125378	-2.158446012	
TWIST1	0.279415203	0.219125378	2.158157201	
URM1	0.279446811	0.219125378	2.158422013	
FZR1	0.279343148	0.219248587	2.157553547	
SNORD83A	0.279241791	0.219279094	2.156704481	
CSNK2A2	-0.279148627	0.219279094	-2.155924123	
PRUNE2	0.279171582	0.219279094	2.156116392	
VPS13A	-0.279253445	0.219279094	-2.156802108	
P4HA3	0.279202156	0.219279094	2.156372487	
CDC40	-0.279146725	0.219279094	-2.15590819	
C12orf48	-0.279141946	0.219279094	-2.155868157	
ZNF512B	0.279263235	0.219279094	2.156884117	
HPS6	0.279259266	0.219279094	2.156850869	

SETDB2	-0.279211914	0.219279094	-2.15645422	
CD14	0.279294737	0.219279094	2.157148001	
MED21	-0.279173931	0.219279094	-2.156136065	
ENO3	0.279110349	0.219344649	2.155603512	
RASGRP4	0.279064544	0.21938	2.15521988	
SLC2A12	-0.279055802	0.21938	-2.155146661	
C19orf10	0.279039299	0.21938	2.155008449	
CDC42SE2	-0.27902741	0.21938	-2.154908879	
JHDM1D	-0.279021369	0.21938	-2.154858285	yes
GPHN	-0.278964301	0.219404465	-2.154380357	
C10orf111	-0.278945839	0.219404465	-2.154225743	
LY6K	0.278949544	0.219404465	2.154256776	
C11orf79	-0.278937223	0.219404465	-2.154153589	
DTNBP1	-0.278935058	0.219404465	-2.15413546	
TFG	-0.278845969	0.219577559	-2.153389438	
RSPO1	0.278863046	0.219577559	2.153532433	
UGT1A6	-0.278861912	0.219577559	-2.153522935	
SOCS4	-0.278723114	0.219615719	-2.15236076	
ATAD3C	0.278723177	0.219615719	2.152361286	
GLRX	-0.278765724	0.219615719	-2.152717521	
IGLL1	0.278644212	0.219615719	2.151700156	
MTERFD1	-0.278784705	0.219615719	-2.15287645	
FBXW7	-0.27866131	0.219615719	-2.15184331	
YLPM1	-0.278691218	0.219615719	-2.152093704	
ST8SIA4	-0.27865663	0.219615719	-2.151804124	
GLT25D1	0.278655234	0.219615719	2.151792435	
TSEN2	-0.27876572	0.219615719	-2.15271749	
DGCR6L	0.278700619	0.219615719	2.152172416	
CAMK2N2	0.278807056	0.219615719	2.153063599	
FAM172A	-0.278619098	0.219654208	-2.151489909	
RILP	0.278582473	0.219741548	2.151183291	
OCLM	-0.278558966	0.219773265	-2.150986503	
SNORA38B	0.278541184	0.219780713	2.150837642	

MAN1A2	-0.278517099	0.219812381	-2.150636025
RPS2P20	0.278501678	0.219812381	2.150506933
RNF217	-0.278484207	0.21981856	-2.150360683
C9orf84	-0.278420651	0.219843854	-2.149828683
DYNC1I2	-0.278435071	0.219843854	-2.149949381
SIRT3	0.278375706	0.219843854	2.149452483
GALK2	-0.278366254	0.219843854	-2.149373372
ZNF747	0.278435495	0.219843854	2.149952937
USP30	-0.278402642	0.219843854	-2.149677943
NAT1	-0.278387917	0.219843854	-2.149554687
DOCK3	0.278345267	0.219865078	2.149197715
CACNA1F	0.278318336	0.219904221	2.148972306
ZCCHC9	-0.278304085	0.219904221	-2.148853034
LEPREL2	0.278246909	0.21995889	2.148374509
ZBTB1	-0.278231754	0.21995889	-2.148247681
TMEM87A	-0.278227335	0.21995889	-2.148210702
ZBTB16	0.278271911	0.21995889	2.14858376
KCNQ1	0.278109298	0.220392186	2.147222909
SSX10	0.277851891	0.22081258	2.145069179
ZBTB6	-0.27785098	0.22081258	-2.145061555
ABCB8	0.277902203	0.22081258	2.1454901
OR6K6	0.277879201	0.22081258	2.145297656
KIAA0892	0.277867327	0.22081258	2.145198316
MNAT1	-0.277945352	0.22081258	-2.145851112
PGK1	-0.277985159	0.22081258	-2.146184172
CCDC21	-0.277935002	0.22081258	-2.145764517
BRCA1	-0.277899893	0.22081258	-2.14547077
TFDP2	-0.277867392	0.22081258	-2.14519886
CA9	0.277827917	0.220842949	2.144868614
C1orf35	0.27770182	0.221278516	2.143813763
CD74	0.27769374	0.221278516	2.143746167
LBX1	0.27764645	0.221292205	2.143350605
POLG2	-0.2775837	0.221292205	-2.142825745

OR4B1	0.277611124	0.221292205	2.143055126	
PCP2	0.277579206	0.221292205	2.142788159	yes
DHDH	0.277611253	0.221292205	2.143056203	
HMGA1	0.277672983	0.221292205	2.143572543	
ABHD10	-0.277610145	0.221292205	-2.143046936	
CPSF6	-0.277494814	0.22158404	-2.142082329	
ADORA2B	-0.277462445	0.221654301	-2.14181162	
EMD	0.277422396	0.221689628	2.141476692	
MARCH4	0.277437015	0.221689628	2.141598948	
WBSR17	0.277329994	0.222016071	2.140703979	
VT11B	-0.277241463	0.222317561	-2.139963705	
MICAL1	0.277227645	0.222317561	2.139848166	
hCG_2004198	0.277111147	0.222319587	2.138874133	
ARPC3	-0.27719491	0.222319587	-2.139574465	
ADAM8	0.277052808	0.222319587	2.138386404	
MFSD10	0.277107551	0.222319587	2.138844076	
B3GALT6	0.277061792	0.222319587	2.138461514	
YDJC	0.277129271	0.222319587	2.139025662	
HEXDC	0.277060434	0.222319587	2.138450159	yes
MT1DP	0.277083597	0.222319587	2.138643806	
NUP133	-0.277107494	0.222319587	-2.138843598	
RAD18	-0.277197341	0.222319587	-2.139594787	
TRIP12	-0.277094681	0.222319587	-2.138736473	
LTBR	0.277027334	0.222360782	2.138173443	
MPP7	-0.276979129	0.222366043	-2.137770473	
GSTA1	-0.276978642	0.222366043	-2.137766401	
SENP1	-0.276978791	0.222366043	-2.137767642	
LOC646049	0.276952632	0.222409592	2.137548971	
COX6B2	0.276913215	0.222510427	2.137219481	
SSR1	-0.276875696	0.222603199	-2.13690586	
NOL11	-0.276802594	0.222831795	-2.136294842	
FBXO2	0.276775845	0.222831795	2.136071279	
CYHR1	0.276774818	0.222831795	2.136062692	

ZNF816A	-0.27672388	0.222866807	-2.135636964	
CPSF3L	0.276744942	0.222866807	2.13581299	
ALPK1	-0.27671926	0.222866807	-2.135598355	yes
LOC100131138	0.276637017	0.222881218	2.134911032	
ASPRV1	0.27665454	0.222881218	2.135057467	
LEKR1	-0.276642755	0.222881218	-2.134958978	
INPP5E	0.276670687	0.222881218	2.135192408	
C6orf100	0.276639999	0.222881218	2.134935951	
TXNL4B	-0.276505644	0.22328662	-2.133813225	
PPP2R2D	-0.27649497	0.22328662	-2.133724032	
LOC644538	0.276504664	0.22328662	2.133805037	
CTSZ	0.276462886	0.223289087	2.133455947	
NKX6-2	0.276465176	0.223289087	2.133475081	
SLC35A1	-0.276363476	0.22340662	-2.132625349	
CATSPER2	-0.276335398	0.22340662	-2.132390767	
PPAPDC2	-0.276364181	0.22340662	-2.13263124	
ATP5F1	-0.276316777	0.22340662	-2.132235194	
CYB5R2	-0.276365325	0.22340662	-2.132640803	
TAF11	-0.276309549	0.22340662	-2.132174812	
ATPBD4	-0.276361024	0.22340662	-2.132604864	
SPSB3	0.276315535	0.22340662	2.132224821	
TRAF3IP2	-0.276278312	0.223473055	-2.131913848	
SNAPC4	0.276248331	0.223495582	2.131663379	
MLLT10	-0.276241624	0.223495582	-2.131607356	
PGLYRP2	0.276178027	0.223700681	2.131076085	
DPF1	0.276162301	0.223700769	2.130944716	
SNORD6	-0.276130567	0.223769457	-2.130679637	
GADD45GIP1	0.276108033	0.223798747	2.130491405	
ZNF300	-0.276090437	0.223806891	-2.13034443	
CCDC15	-0.276070783	0.223823871	-2.130180263	
BRCC3	-0.276051195	0.223840582	-2.130016654	
TMEM174	0.276006503	0.223927905	2.129643371	
REPIN1	0.275999454	0.223927905	2.129584497	

C1orf216	0.27594773	0.224082444	2.129152502	
PPAT	-0.275919883	0.224134645	-2.128919931	
VPS35	-0.275855524	0.224343534	-2.12838245	
FGF13	-0.275818853	0.224427966	-2.128076214	
TBC1D29	0.275747151	0.224427966	2.127477472	
TRMT2A	0.27574076	0.224427966	2.1274241	
HOXB5	0.275799446	0.224427966	2.127914156	
C9orf127	0.275771931	0.224427966	2.127684387	
EXOSC10	-0.275710589	0.224427966	-2.12717217	
PDCD2L	-0.275716177	0.224427966	-2.127218833	
AKR1C3	-0.275747452	0.224427966	-2.127479984	
FADS3	0.2756401	0.224462074	2.126583609	yes
FLJ46838	0.275647886	0.224462074	2.126648617	yes
ZCCHC10	-0.275668404	0.224462074	-2.126819931	
CCDC132	-0.275680785	0.224462074	-2.126923311	
ZNF500	0.275593642	0.224583776	2.126195717	
PRPS1	-0.275580496	0.224583776	-2.126085959	
HOXA3	0.275542487	0.224679901	2.125768629	
EXOC5	-0.275406792	0.224836691	-2.124635816	
F10	0.275375221	0.224836691	2.124372279	
ASTE1	-0.275473248	0.224836691	-2.125190588	
LMOD2	0.27539041	0.224836691	2.124499067	
CAND1	-0.275403401	0.224836691	-2.124607515	
EAF2	-0.275395392	0.224836691	-2.124540657	
RRAS	0.275365555	0.224836691	2.124291588	
MRPL1	-0.275375176	0.224836691	-2.124371903	
NARG2	-0.275458907	0.224836691	-2.12507087	
RPUSD1	0.275235708	0.224876738	2.123207769	
ZBTB12	0.275310112	0.224876738	2.123828797	
DPP7	0.275219056	0.224876738	2.123068784	
KCNMB1	0.275268417	0.224876738	2.123480776	
NTF4	0.275320239	0.224876738	2.123913328	
IRAK4	-0.275197844	0.224876738	-2.122891748	

ATR	-0.275178275	0.224876738	-2.122728422	
ZBTB4	0.275283212	0.224876738	2.123604265	
RYR2	0.27525071	0.224876738	2.123332982	
UGP2	-0.275194336	0.224876738	-2.122862466	
MED7	-0.275290178	0.224876738	-2.123662415	
SLC25A44	-0.275169467	0.224876738	-2.122654915	
KLRA1	-0.275148558	0.22489332	-2.122480406	
NAB2	0.27513453	0.22489332	2.122363337	
CEBPZ	-0.275093643	0.224987066	-2.122022112	
C3orf63	-0.275067299	0.224987066	-2.121802267	
HOXD1	0.275043372	0.224987066	2.121602595	
FBXO40	0.27503507	0.224987066	2.121533309	
PIR	-0.275065503	0.224987066	-2.121787273	
GOSR2	-0.274979475	0.225159172	-2.121069384	
PRDM4	-0.274898393	0.225170866	-2.12039282	yes
LOC283711	0.2749298	0.225170866	2.120654881	
GTF2H1	-0.274884922	0.225170866	-2.120280421	
NEK1	-0.274883738	0.225170866	-2.120270541	
CASKIN2	0.274928622	0.225170866	2.120645051	
MAF1	0.274902394	0.225170866	2.120426204	
RIT1	-0.274862689	0.22519474	-2.120094916	
SBNO1	-0.274837324	0.225196224	-2.119883283	
ZNF140	-0.274831376	0.225196224	-2.119833653	
RIPPLY2	0.27479478	0.225286912	2.119528321	
FRMD3	0.274774313	0.225308351	2.119357565	
ASB8	-0.274716972	0.225327492	-2.118879182	
C9orf72	-0.27473461	0.225327492	-2.119026326	
GCHFR	0.27471419	0.225327492	2.118855978	
COL5A3	0.274700033	0.225327492	2.118737867	
PHF20L1	-0.274683393	0.225327492	-2.118599049	
THAP9	-0.27467708	0.225327492	-2.118546391	
CASP12	0.274535903	0.225469655	2.117368727	
CRHBP	0.274542691	0.225469655	2.117425348	yes

LOC283588	-0.274539772	0.225469655	-2.117401	
ITPK1	0.274554695	0.225469655	2.117525476	
C5orf28	-0.274627598	0.225469655	-2.118133602	
SNIP1	0.27455463	0.225469655	2.117524934	
DDX23	-0.274610394	0.225469655	-2.117990088	
MRPL21	0.274387587	0.225643247	2.116131668	
WDR72	-0.274414077	0.225643247	-2.116352606	
RPL13P12	0.274397243	0.225643247	2.116212207	
TRNAU1AP	-0.27446551	0.225643247	-2.116781577	
C12orf4	-0.274441757	0.225643247	-2.116583468	
SNORD101	-0.274399262	0.225643247	-2.116229039	
C4orf41	-0.274404099	0.225643247	-2.116269387	
NPM2	0.274206643	0.225756976	2.114622695	
KLHDC7B	0.274168015	0.225756976	2.114300598	
DTX2	-0.274064683	0.225756976	-2.113439001	
DYNLL2	0.274223239	0.225756976	2.114761087	
TECPR1	0.274102465	0.225756976	2.113754024	
SNORD35A	0.274133182	0.225756976	2.114010142	
GPR3	0.274107884	0.225756976	2.113799206	
MAGOH	-0.27415782	0.225756976	-2.114215587	
GLRA4	0.274261222	0.225756976	2.115077832	
PLXNA1	0.274058136	0.225756976	2.113384412	
RHBDL2	-0.274097963	0.225756976	-2.113716489	
STRBP	-0.274235194	0.225756976	-2.114860786	yes
CASS4	0.274159609	0.225756976	2.114230504	
WDR48	-0.274053781	0.225756976	-2.113348105	
NR2E1	0.274323876	0.225756976	2.115600332	
THAP7	0.274201461	0.225756976	2.114579488	
C12orf29	-0.274290999	0.225756976	-2.115326154	
TRIP13	-0.274110043	0.225756976	-2.113817212	yes
CLSTN3	0.274163257	0.225756976	2.114260922	
LCMT2	-0.274296695	0.225756976	-2.115373648	
PSMC2	-0.27400478	0.225805432	-2.112939557	

SLC25A1	0.27399725	0.225805432	2.112876782
TAF1B	-0.273996521	0.225805432	-2.112870705
SNORD20	-0.273952929	0.225926851	-2.112507279
MIA3	-0.273930876	0.225955795	-2.112323419
C20orf118	0.273886616	0.225969066	2.111954451
RPGRIP1	0.273893244	0.225969066	2.1120097
BCAS1	-0.273881861	0.225969066	-2.111914805
ATMIN	-0.273849299	0.22602618	-2.111643359
CAPN7	-0.273833284	0.22602618	-2.111509861
SNORD54	-0.27380738	0.22602618	-2.111293924
LILRA5	0.273818091	0.22602618	2.111383215
SFPQ	-0.273775051	0.226099379	-2.111024446
KLHL20	-0.273714934	0.22629204	-2.110523346
C12orf66	-0.273664367	0.226443756	-2.11010187
SH2D6	0.273640645	0.226480058	2.109904161
ADAMTS18	0.273588565	0.226572667	2.1094701
NEB	-0.273595426	0.226572667	-2.109527285
SNORD116-14	0.273442232	0.22707125	2.108250617
CDKAL1	-0.273447937	0.22707125	-2.108298152
LOC729974	0.273423814	0.227084817	2.108097137
LOC220077	0.273323254	0.22711675	2.107259207
NFYC	-0.273295976	0.22711675	-2.107031929
PLLP	0.273369518	0.22711675	2.107644702
POMP	-0.273245467	0.22711675	-2.106611092
MAP1S	0.273298814	0.22711675	2.107055574
ERBB2IP	-0.273233442	0.22711675	-2.106510902
LOC647086	0.27325539	0.22711675	2.106693767
SLC30A5	-0.27325063	0.22711675	-2.106654108
LLPH	-0.273306568	0.22711675	-2.10712018
SPSB2	0.273381	0.22711675	2.107740373
RNMT	-0.273372029	0.22711675	-2.107665625
UBAP2L	-0.273264001	0.22711675	-2.106765516
DEF6	0.273214123	0.227134388	2.106349952

MAP4K5	-0.273009408	0.227362804	-2.104644537	
SMPX	0.272980913	0.227362804	2.104407175	
ZADH2	-0.272963508	0.227362804	-2.104262203	
SYCN	0.273114032	0.227362804	2.105516082	
AQP4	-0.273007851	0.227362804	-2.104631568	
KCNC3	0.272985936	0.227362804	2.104449017	
PCCA	-0.272967874	0.227362804	-2.104298564	
TCEB3B	0.272994224	0.227362804	2.104518051	
DHX32	-0.273093227	0.227362804	-2.105342769	yes
RAB25	-0.272973927	0.227362804	-2.104348984	
JARID1A	-0.272967216	0.227362804	-2.104293083	
SLC4A3	0.273143805	0.227362804	2.105764121	
USP9X	-0.273105626	0.227362804	-2.105446059	
POLQ	-0.272915254	0.227439956	-2.103860274	
ALG11	-0.27292406	0.227439956	-2.10393362	
ZC3HAV1	-0.272889875	0.227483953	-2.103648889	
CIB2	0.272852201	0.227511109	2.103335102	
BRD4	0.272847614	0.227511109	2.103296901	
GSTM1	0.272824409	0.227511109	2.103103633	
FAM3A	0.27282293	0.227511109	2.103091313	
GRIN2A	0.272794737	0.227567303	2.102856517	
PIK3R3	-0.272765873	0.227626419	-2.102616125	
RAD51L1	-0.272739317	0.227675603	-2.102394965	
DNAJB9	-0.272616162	0.228076232	-2.101369401	
NCOR2	0.272623643	0.228076232	2.101431694	
GBGT1	0.272569727	0.228088835	2.100982744	
PDZD4	0.2725948	0.228088835	2.101191521	
RUNX1T1	0.272567831	0.228088835	2.100966951	
CLCN3	-0.272530554	0.228184443	-2.100656563	
IQSEC3	0.272492705	0.228217241	2.100341426	
WDR44	-0.272507063	0.228217241	-2.100460969	
SLC19A2	-0.272147567	0.228439392	-2.097468205	
RRH	-0.27226893	0.228439392	-2.098478429	

COP5	-0.272221825	0.228439392	-2.098086317	
ESM1	0.272035859	0.228439392	2.096538439	
KPTN	0.272114319	0.228439392	2.097191463	
C19orf28	0.272018824	0.228439392	2.096396658	
CPEB2	-0.272182381	0.228439392	-2.097757984	
DNAJC16	-0.272286823	0.228439392	-2.098627381	yes
DICER1	-0.272175763	0.228439392	-2.097702902	
SH3BP1	0.272043611	0.228439392	2.096602956	
PAN3	-0.272297072	0.228439392	-2.098712699	
GTF2I	-0.272274882	0.228439392	-2.098527976	
HAGH	0.272012955	0.228439392	2.096347814	
HRG	0.272181046	0.228439392	2.097746874	
TPRXL	-0.272156399	0.228439392	-2.097541721	
MYH11	0.272031006	0.228439392	2.096498047	
NRGN	0.272099202	0.228439392	2.097065642	yes
PSEN1	-0.272019589	0.228439392	-2.096403033	
PSMA1	-0.272269863	0.228439392	-2.098486203	
RASSF10	0.272252886	0.228439392	2.098344874	
SPAST	-0.27207102	0.228439392	-2.096831082	
UBE2N	-0.272105776	0.228439392	-2.097120357	
METT10D	-0.272014086	0.228439392	-2.096357229	
FRMD8	0.272004131	0.228439392	2.09627438	
TMEM175	0.27239322	0.228439392	2.099513135	
NEURL4	0.272335705	0.228439392	2.099034316	
SLC16A7	-0.272301241	0.228439392	-2.098747411	
PPIG	-0.272037672	0.228439392	-2.096553527	
RPH3AL	0.272305212	0.228439392	2.098780469	
CDX1	0.271975185	0.228447011	2.096033475	yes
CLTA	-0.271961285	0.228447011	-2.095917797	
MAPK8IP2	0.27194445	0.228447011	2.095777696	
AFAP1L2	0.271942302	0.228447011	2.09575982	
HNRNPC	-0.271926448	0.228450665	-2.095627883	
AP2B1	-0.271866803	0.228459874	-2.095131536	

C5orf51	-0.27186923	0.228459874	-2.095151729	
ZC3H15	-0.2718942	0.228459874	-2.095359519	
LOC647302	-0.27186432	0.228459874	-2.095110867	
TMEM121	0.271846155	0.228473569	2.094959709	
LOC100133388	0.271780336	0.228474456	2.094412021	yes
COQ7	-0.27170524	0.228474456	-2.093787177	
STAM2	-0.271605802	0.228474456	-2.092959856	yes
NISCH	0.271717136	0.228474456	2.093886153	
EFHA1	-0.271614761	0.228474456	-2.093034392	
CCT5	-0.271657716	0.228474456	-2.093391767	
NUDT14	0.271591655	0.228474456	2.092842156	
GNA12	0.27181128	0.228474456	2.094669509	
GOLGA1	-0.271605631	0.228474456	-2.092958435	
ATAD2B	-0.271713709	0.228474456	-2.093857644	
EXD2	-0.271751148	0.228474456	-2.094169157	
CSGALNACT1	0.271750556	0.228474456	2.094164233	
TMPRSS4	-0.27160894	0.228474456	-2.092985962	
BACH1	-0.271671956	0.228474456	-2.093510244	
SCN4B	0.271603817	0.228474456	2.092943339	
SPTB	0.271684376	0.228474456	2.093613585	yes
MINA	-0.271776896	0.228474456	-2.094383399	
NUP62CL	-0.27157509	0.228481514	-2.092704344	
DYSFIP1	0.271499982	0.228548019	2.092079518	
STX12	-0.271504259	0.228548019	-2.092115096	
SAC3D1	0.271506353	0.228548019	2.092132514	
MINK1	0.271542635	0.228548019	2.092434342	
CLRN3	0.2714472	0.228646998	2.091640444	
KCNAB3	0.271455556	0.228646998	2.091709948	
DHX57	-0.271395987	0.228754987	-2.091214436	
RAPGEF2	-0.271392346	0.228754987	-2.091184154	
TNFRSF10C	0.271341977	0.228907976	2.090765189	
C12orf61	0.271304211	0.228978971	2.09045107	
DDX59	-0.27129573	0.228978971	-2.090380531	

SLC2A6	0.271166539	0.229086924	2.089306069	yes
C21orf99	0.271209412	0.229086924	2.08966262	
FKBP8	0.271197894	0.229086924	2.089566832	
MTCH1	0.271167276	0.229086924	2.089312192	
MOBK1B	-0.271230316	0.229086924	-2.089836476	
YWHAE	-0.271190529	0.229086924	-2.089505581	yes
ERI1	-0.271198774	0.229086924	-2.08957415	
API5	-0.271130484	0.22917836	-2.089006224	
SNORA1	-0.27104618	0.22947823	-2.088305168	
NSUN2	-0.270992704	0.229495753	-2.087860496	
SFRS7	-0.271025581	0.229495753	-2.088133874	
LOC654342	0.271005129	0.229495753	2.087963809	
KLF5	-0.270982679	0.229495753	-2.087777136	
FLJ38576	0.270966992	0.229499355	2.087646702	
SH3D19	-0.27090268	0.229602426	-2.087111966	
NGFRAP1	0.270898596	0.229602426	2.087078011	
KNG1	0.270927032	0.229602426	2.087314443	
LOC100133425	-0.270844666	0.229771383	-2.086629617	
FZD2	0.270811497	0.229850637	2.086353859	
ESF1	-0.270794227	0.229861164	-2.086210273	
AP2S1	0.270770836	0.22989817	2.086015815	
PRO0628	-0.270635104	0.229997272	-2.084887471	
NXPH3	0.270664364	0.229997272	2.0851307	
C2orf60	-0.270572907	0.229997272	-2.084370468	
COX10	-0.270694025	0.229997272	-2.085377263	
C20orf151	0.270640891	0.229997272	2.084935575	
LCA5L	-0.270595617	0.229997272	-2.084559239	
ANKRD46	-0.270488979	0.229997272	-2.083672885	
NKX2-3	0.270529209	0.229997272	2.084007258	
ABCA12	-0.27048876	0.229997272	-2.08367106	
C10orf114	0.27043718	0.229997272	2.083242363	
NP	-0.270437814	0.229997272	-2.083247638	
AK3	-0.270486966	0.229997272	-2.083656153	

PMS2	-0.270689021	0.229997272	-2.08533567	
PPP3R1	-0.270643211	0.229997272	-2.084954862	
C11orf30	-0.270568444	0.229997272	-2.084333378	yes
MLL3	-0.27044641	0.229997272	-2.083319082	
CCDC90B	-0.270476161	0.229997272	-2.083566345	
SCARNA16	0.270529646	0.229997272	2.084010894	yes
CCDC6	-0.270524219	0.229997272	-2.083965783	
SLC25A21	-0.270570406	0.229997272	-2.084349683	
TMEM116	-0.270684985	0.229997272	-2.08530212	
TBPL1	-0.270405321	0.230071176	-2.082977587	
hCG_2018279	0.270323779	0.230226877	2.082299925	
TSHZ1	-0.270148273	0.230226877	-2.080841544	
CLGN	-0.270183802	0.230226877	-2.081136757	
MGAT4A	-0.270174385	0.230226877	-2.081058507	
GNAQ	-0.27020271	0.230226877	-2.081293869	
LAMA5	0.270161463	0.230226877	2.080951134	
PIK3C3	-0.270325707	0.230226877	-2.082315949	
C1orf26	-0.270319759	0.230226877	-2.082266519	
PRRG2	0.270219847	0.230226877	2.081436263	
HEG1	0.270175487	0.230226877	2.081067667	
RPL3L	0.270260723	0.230226877	2.081775932	
TARS	-0.270190363	0.230226877	-2.081191274	
C14orf138	-0.270267212	0.230226877	-2.081829854	
APOL5	0.270188572	0.230226877	2.081176388	
WDR75	-0.270205903	0.230226877	-2.081320398	
PP13439	-0.270052117	0.230291494	-2.080042612	
PNMA3	0.270064139	0.230291494	2.080142498	
C3orf54	0.270045119	0.230291494	2.079984471	
PAFAH2	-0.270045115	0.230291494	-2.079984446	
APOL3	0.270047164	0.230291494	2.080001463	
C1orf124	-0.27010209	0.230291494	-2.080457811	
SHPRH	-0.269933833	0.230709237	-2.079059931	
ADPRH	0.26988191	0.230870417	2.078628591	

TRAPPC4	-0.269856075	0.230906152	-2.078413983	
SELP	0.269844281	0.230906152	2.078316012	
NSAP11	-0.269811864	0.230919373	-2.078046735	
FAM50A	0.269812513	0.230919373	2.078052129	
FAM101B	0.26978634	0.230966346	2.077834719	yes
RBMX	0.269747519	0.23102235	2.077512265	
CSDE1	-0.269744063	0.23102235	-2.07748356	
MAN1B1	0.269682155	0.231189502	2.076969367	
STRN4	0.269667049	0.231189502	2.076843898	
REN	0.269661481	0.231189502	2.076797657	yes
ZNF234	-0.269536658	0.231558872	-2.075760998	
FAM102B	-0.269534002	0.231558872	-2.075738942	
LOC645106	0.26953231	0.231558872	2.075724896	
DHX8	-0.269485493	0.231588556	-2.075336107	
SLC35C2	0.269481514	0.231588556	2.075303065	
GPRC5B	0.269490815	0.231588556	2.075380303	
NUP155	-0.269454831	0.23164078	-2.075081488	
ABCB9	0.269358193	0.231964621	2.074279049	
EXOC3L	0.269350943	0.231964621	2.074218851	
FOXH1	0.269328188	0.231999871	2.07402991	
TXNRD2	0.269290779	0.232024876	2.073719302	
AK3L1	0.269263905	0.232024876	2.073496183	
PTPN2	-0.269293612	0.232024876	-2.073742829	
ZBED5	-0.269272129	0.232024876	-2.073564465	
UBE2K	-0.269202909	0.23205681	-2.072989772	
ZNF705A	0.269211538	0.23205681	2.073061405	
PCDHGA2	0.269218267	0.23205681	2.073117273	
TP53I11	0.269198078	0.23205681	2.072949662	
LRRC8D	-0.269156976	0.232108418	-2.072608437	
CCNB1	-0.269160415	0.232108418	-2.072636986	
INTS12	-0.269118268	0.232150057	-2.072287094	
RBM4B	-0.269103584	0.232150057	-2.072165197	
SNRNP40	-0.269113852	0.232150057	-2.072250438	

SNAP23	-0.269074573	0.232212672	-2.071924364	
MYO18A	0.269054036	0.232238491	2.071753887	
SNORA73A	0.2690219	0.232314716	2.071487132	
MMADHC	-0.268894577	0.232614592	-2.0704303	
VSIG1	-0.268907011	0.232614592	-2.070533501	
PRIM1	-0.26891858	0.232614592	-2.070629529	
CCDC86	0.268916572	0.232614592	2.07061286	
FLJ46020	-0.268872271	0.232621747	-2.070245169	
MBTPS2	-0.268849209	0.232621747	-2.070053758	
NIT2	-0.268863235	0.232621747	-2.070170168	
KCTD6	-0.268828003	0.232650612	-2.069877757	
ZNF625	0.26876901	0.232780499	2.069388165	
GIN51	-0.268776074	0.232780499	-2.069446788	
VDAC3	-0.2687541	0.232782022	-2.069264428	yes
BOLA1	0.268725852	0.232841582	2.069030001	
LOC100129503	0.268707121	0.232859753	2.06887456	
LOC100131860	-0.268646151	0.232871872	-2.06836861	
CSNK2A1P	-0.268647614	0.232871872	-2.068380754	
ZDHHC21	-0.26867691	0.232871872	-2.068623856	
FBF1	0.268671777	0.232871872	2.068581264	
CDK3	0.268604985	0.232987718	2.068027018	
UQCR	0.268583866	0.233016365	2.067851776	
SKP1	-0.2685642	0.233023691	-2.067688595	
FLYWCH1	0.268553119	0.233023691	2.067596653	
SNORD31	-0.268534049	0.233043461	-2.067438419	
VASH2	0.268498616	0.233077896	2.067144427	
TMEM101	0.268497091	0.233077896	2.067131774	
SNX6	-0.268466994	0.233145694	-2.066882064	
ZNF385D	0.268396699	0.233388563	2.066298856	
NPAS3	0.26838074	0.233394855	2.066166454	
UNC13B	-0.268162285	0.233512704	-2.064354282	
FANCG	0.268154057	0.233512704	2.064286031	
LOC221442	-0.268173371	0.233512704	-2.064446235	

FIGF	-0.268182085	0.233512704	-2.064518517	
OBP2A	0.268194875	0.233512704	2.064624609	
HOXA9	0.26822763	0.233512704	2.064896313	
MCF2	0.268066879	0.233512704	2.063562956	
INSIG2	-0.268304663	0.233512704	-2.065535325	
LOC554206	0.268079542	0.233512704	2.063667982	
ZCCHC8	-0.268223362	0.233512704	-2.064860907	
NUP107	-0.268064045	0.233512704	-2.063539449	
SRF	0.268163274	0.233512704	2.064362485	
SSFA2	-0.268125934	0.233512704	-2.064052771	
ASPSCR1	0.26808863	0.233512704	2.063743358	
HYI	0.268266002	0.233512704	2.065214615	
SPATA22	0.268318985	0.233512704	2.065654135	
VAMP4	-0.268295299	0.233512704	-2.06545765	
H1FX	0.268244639	0.233512704	2.065037404	
PYGO2	0.268139741	0.233512704	2.064167286	
ZMYM5	-0.268072964	0.233512704	-2.063613423	
HSPB6	0.268046569	0.233525883	2.063394507	
E4F1	0.268000155	0.23356823	2.06300957	
FUT4	0.267993514	0.23356823	2.062954488	
THSD1P	-0.268004852	0.23356823	-2.063048521	
DENND1A	0.267948794	0.233637234	2.062583616	
ZNF225	-0.267954153	0.233637234	-2.062628056	
FLT1	0.267914471	0.233723854	2.062298978	
STAG3	0.267866083	0.233871786	2.061897709	
PDGFB	0.267823077	0.23399633	2.061541093	yes
PUSL1	0.267776516	0.234073547	2.061155004	
FBXW5	0.26777861	0.234073547	2.061172366	
CEP152	-0.267726391	0.234164748	-2.060739388	
RPAP2	-0.267712347	0.234164748	-2.060622944	
NUMBL	0.267720465	0.234164748	2.060690247	
HMGB1	-0.267666901	0.234174439	-2.060246133	
ABCG4	0.267695099	0.234174439	2.06047993	

SCYE1	-0.267678518	0.234174439	-2.060342458	
ANKRD5	-0.267649351	0.234188163	-2.060100629	
TAS2R50	-0.267542788	0.23459026	-2.059217159	
KIR3DX1	0.267478829	0.2348067	2.058686945	
S1PR1	0.267462415	0.234815503	2.058550876	
FGFR1OP	-0.267429969	0.234831476	-2.05828192	
C1R	0.267438538	0.234831476	2.058352953	
CYB5B	-0.267396613	0.23491434	-2.058005425	
TSPAN32	0.267332172	0.234921907	2.057471277	
AP4B1	-0.267309566	0.234921907	-2.057283902	
NIPBL	-0.267308602	0.234921907	-2.057275914	
CRIM1	0.267340923	0.234921907	2.057543814	
UBE3A	-0.267365824	0.234921907	-2.05775021	
ACVR2A	-0.267353425	0.234921907	-2.057647437	
TCEA2	0.267254569	0.23509523	2.056828072	
ZNF200	0.267219624	0.235122383	2.056538452	
SPRY4	0.267224592	0.235122383	2.056579624	
TTK	-0.267189295	0.235192183	-2.056287092	
MAPK9	-0.267148795	0.235306489	-2.055951441	
FNTA	-0.267053072	0.235662541	-2.055158186	
HOOK3	-0.267033945	0.235683421	-2.05499969	
SF3B1	-0.266955081	0.235903109	-2.054346203	
NUBP1	-0.26696838	0.235903109	-2.054456398	
BMP1	0.266901952	0.236073067	2.053905982	
OTUD4	-0.266851835	0.236229906	-2.053490745	yes
SPHK2	0.266831209	0.236257439	2.053319856	
KIF18B	0.266740648	0.236273384	2.052569581	
SEP10	-0.266791946	0.236273384	-2.052994566	
NECAP1	-0.266730338	0.236273384	-2.052484169	
PLD1	-0.266759439	0.236273384	-2.052725254	
PHIP	-0.266727218	0.236273384	-2.052458316	
C14orf118	-0.266773195	0.236273384	-2.052839215	
ZBED3	0.266764124	0.236273384	2.052764069	

ACTR3	-0.266638499	0.236379719	-2.051723365	
CRYGA	0.26653009	0.236379719	2.050825381	
FGG	0.26648755	0.236379719	2.050473033	
FOXC1	0.266474143	0.236379719	2.050361984	
MAPK8IP3	0.266501001	0.236379719	2.050584438	
KANK3	0.266530521	0.236379719	2.050828947	
ERC2	0.266593493	0.236379719	2.051350563	
SNORA68	0.266603033	0.236379719	2.05142958	
STXBP6	-0.266536166	0.236379719	-2.050875705	
FLJ45422	0.266553942	0.236379719	2.051022946	
PI15	-0.266553957	0.236379719	-2.051023069	
POLK	-0.266518095	0.236379719	-2.050726026	
UBE2V2	-0.266635607	0.236379719	-2.05169941	
B3GALT4	0.266546266	0.236379719	2.050959364	
SLC6A5	0.266662108	0.236379719	2.05191894	
ARNT2	0.266496617	0.236379719	2.050548127	
ALDH16A1	0.266430605	0.236393369	2.050001391	
RHOQ	0.26644803	0.236393369	2.050145704	
MIF4GD	0.266413945	0.236393369	2.049863404	
AGXT2L1	0.266423124	0.236393369	2.049939426	
PNPLA6	0.266156511	0.236408662	2.047731541	
FASTK	0.266192505	0.236408662	2.048029592	
ADAMTS6	0.266083175	0.236408662	2.047124322	
C6orf192	-0.266223182	0.236408662	-2.048283615	
MTPN	-0.266155246	0.236408662	-2.047721073	
OTOS	0.26613782	0.236408662	2.047576776	
SNX13	-0.266106335	0.236408662	-2.047316087	
FRK	-0.266095745	0.236408662	-2.047228401	yes
ANKRD2	0.26638627	0.236408662	2.0496342	
VSX2	0.26634019	0.236408662	2.049252576	
C9orf119	0.266271516	0.236408662	2.048683864	
KRT18	-0.266107615	0.236408662	-2.04732668	
RHOC	0.26615262	0.236408662	2.047699327	

C15orf53	0.266162826	0.236408662	2.047783833	
ATP5G2	0.26616162	0.236408662	2.047773848	
PHKB	-0.266363048	0.236408662	-2.049441884	
ATP7A	-0.266083264	0.236408662	-2.047125061	
PRPSAP2	-0.266304905	0.236408662	-2.048960369	
RPL37	-0.266336954	0.236408662	-2.049225782	
MAP3K7	-0.266301488	0.236408662	-2.048932072	
SNORA16A	0.266195724	0.236408662	2.048056242	
SNHG3-RCC1	-0.266122422	0.236408662	-2.047449286	
NUDCD1	-0.266110814	0.236408662	-2.047353169	
C13orf31	-0.266030924	0.236476036	-2.046691705	
VPS41	-0.266025217	0.236476036	-2.046644459	
ZMAT4	0.266025933	0.236476036	2.046650387	
POLR1C	-0.265946116	0.236760419	-2.04598957	yes
RNF146	-0.265902901	0.236887675	-2.045631814	
FBXO3	-0.265874564	0.236902433	-2.045397228	
C20orf199	-0.265871173	0.236902433	-2.045369154	
SMARCD2	0.265853174	0.236919191	2.045220155	
WNT11	0.2657986	0.237034201	2.044768399	
RP1L1	0.265806017	0.237034201	2.044829791	
C2orf82	0.265760336	0.237139891	2.044451663	
UBLCP1	-0.265721756	0.237188065	-2.044132321	
RHOBTB2	0.265721024	0.237188065	2.044126264	
MAP3K15	0.265668638	0.237355811	2.04369267	
ERCC4	-0.265636121	0.237436402	-2.043423534	
PFDN2	0.26559252	0.237527213	2.04306267	
PTGER1	0.265587127	0.237527213	2.043018037	yes
USP15	-0.265572863	0.2375277	-2.042899987	
SLC38A10	0.265543327	0.237595276	2.042655541	
MAP9	-0.26552352	0.23762013	-2.042491627	
HLA-DOA	0.265439287	0.237679592	2.041794554	
ATP5G1	0.265464876	0.237679592	2.042006314	
C1orf63	-0.265494471	0.237679592	-2.042251225	

ATP8B2	0.265464519	0.237679592	2.04200336	
TTC35	-0.26544272	0.237679592	-2.041822967	
PSMD14	-0.265361754	0.237930787	-2.041152976	
POM121L2	0.265353859	0.237930787	2.041087653	
ZMYND19	0.265280604	0.237979152	2.040481514	
MOBK13	-0.265263504	0.237979152	-2.040340025	
ATP2C1	-0.265258137	0.237979152	-2.040295623	
CRIPAK	-0.265294738	0.237979152	-2.040598463	
C21orf45	-0.26530108	0.237979152	-2.040650935	
SNORA71D	0.265278084	0.237979152	2.040460661	
INO80E	0.265205682	0.238147732	2.039861624	
DHRS13	0.265067293	0.238399111	2.038716726	
FCN2	0.26508079	0.238399111	2.038828383	
NCAPD3	-0.265115295	0.238399111	-2.039113832	
ATP5C1	-0.265020764	0.238399111	-2.038331822	
C1orf21	-0.265105249	0.238399111	-2.039030729	
C6orf62	-0.265007569	0.238399111	-2.038222665	
STK24	-0.265037686	0.238399111	-2.038471807	
LDB2	0.265102661	0.238399111	2.039009318	
CHD1L	-0.265032413	0.238399111	-2.038428184	
RICS	-0.265016461	0.238399111	-2.038296227	yes
UCHL5IP	0.264986039	0.23843188	2.038044569	
KRR1	-0.264970889	0.238436593	-2.037919254	
C10orf10	0.264894459	0.238673683	2.037287051	
TTC17	-0.264888868	0.238673683	-2.037240807	
WDR31	-0.264873495	0.238679407	-2.037113659	
ZNF155	-0.264841298	0.238759223	-2.036847356	
SSTR2	0.264816701	0.238805594	2.036643917	
KIAA1614	0.264800258	0.23881607	2.036507918	
PLEKHG2	0.264769842	0.238888101	2.036256359	
ZNF828	-0.264717059	0.239058713	-2.035819834	
CCDC144NL	0.264678893	0.239103018	2.035504199	
PCNXL3	0.264689006	0.239103018	2.035587835	

KCNQ2	0.264658393	0.239131433	2.035334671	
LOC441268	0.264528673	0.239641694	2.034261986	
BRWD1	-0.264495524	0.239726016	-2.033987891	
LOC100133333	-0.264456629	0.239729905	-2.033666297	yes
RABAC1	0.264452501	0.239729905	2.03363216	
RAP1GDS1	-0.264464161	0.239729905	-2.033728573	
CMTM1	0.26433989	0.240133626	2.032701118	
TOMM20L	0.264333046	0.240133626	2.032644533	
RG9MTD3	-0.264272593	0.24023623	-2.032144764	
IL4I1	0.264280395	0.24023623	2.032209259	
PIP4K2B	0.264267729	0.24023623	2.032104551	
C2orf86	-0.264236197	0.240259627	-2.031843885	yes
SLC29A3	0.264234377	0.240259627	2.031828835	
DRAP1	0.264214594	0.240285083	2.031665298	
UNQ6126	0.264192273	0.240321776	2.031480785	
LARP7	-0.264140495	0.240444669	-2.031052774	
TULP2	0.26413645	0.240444669	2.031019343	
SFRS16	0.264068245	0.240498446	2.030455576	
COL11A2	0.264068839	0.240498446	2.030460484	
AZI2	-0.264080933	0.240498446	-2.030560444	
TNFRSF1A	0.264074458	0.240498446	2.030506927	
ARL8B	-0.26401238	0.240683688	-2.029993837	
AKAP10	-0.263951604	0.240709817	-2.029491523	
SRPK3	0.263950477	0.240709817	2.029482214	
PCDHB3	-0.263974195	0.240709817	-2.029678231	
DCLRE1A	-0.263978759	0.240709817	-2.029715957	
ACSL3	-0.263837698	0.240913201	-2.028550173	
BCL9L	0.263860433	0.240913201	2.028738053	
DDX51	0.263862562	0.240913201	2.028755649	
PLEKHA3	-0.263837585	0.240913201	-2.028549243	
HELZ	-0.263834599	0.240913201	-2.028524561	
RHBDD3	0.263744507	0.241192539	2.027780083	
KRTAP5-3	0.263743585	0.241192539	2.027772464	

CRCP	-0.263698187	0.241331824	-2.027397339	
C1orf55	-0.263654213	0.241340934	-2.027033994	
ARMC8	-0.263660317	0.241340934	-2.027084428	
SOX11	0.263672155	0.241340934	2.027182241	
PHLPP	-0.263565739	0.241543189	-2.026302996	
PHF2	0.263561417	0.241543189	2.026267291	
SAMD9	-0.263552749	0.241543189	-2.026195673	
IFT74	-0.26358889	0.241543189	-2.026494276	
DHX9	-0.263536209	0.241552164	-2.026059028	
NUP43	-0.263508861	0.241552164	-2.025833085	
NUDT9	-0.263512668	0.241552164	-2.025864533	
LASS6	-0.263316497	0.241729401	-2.024243988	yes
GPR17	0.263330099	0.241729401	2.024356341	
ANKRD13D	0.263364461	0.241729401	2.024640189	
KCNK3	0.263399212	0.241729401	2.024927253	
ME2	-0.263331356	0.241729401	-2.024366723	
ORC5L	-0.263338437	0.241729401	-2.024425218	
PRDX1	-0.263353786	0.241729401	-2.024552005	
KIAA1217	-0.263433147	0.241729401	-2.025207591	
ZNF410	-0.263355723	0.241729401	-2.024568004	yes
EVI5	-0.263393114	0.241729401	-2.024876882	
HIST1H4D	0.263315613	0.241729401	2.024236681	
C17orf101	0.263292256	0.241732858	2.024043749	
DCUN1D5	-0.263273086	0.241732858	-2.023885404	
HERC3	-0.263273275	0.241732858	-2.023886969	
ATP6V1E2	-0.263197253	0.242007599	-2.023259053	
SNORD116-23	0.263098436	0.242237614	2.02244292	
GIGYF1	0.263111639	0.242237614	2.02255196	
BMP4	0.263102676	0.242237614	2.022477936	
NUP37	-0.263089823	0.242237614	-2.022371786	
ACAP3	0.263063679	0.242291994	2.022155875	
HNRNPH3	-0.263036565	0.242350698	-2.021931964	
NEFM	0.262999769	0.242452452	2.021628095	

CSTB	-0.26295633	0.242486642	-2.021269378	yes
VPS33A	-0.262958141	0.242486642	-2.021284339	
FXR1	-0.262936514	0.242486642	-2.021105748	
SCRT2	0.262936577	0.242486642	2.021106271	
BET1	-0.262907372	0.242554454	-2.020865109	
COL3A1	0.262870087	0.242653251	2.020557236	
LOC285943	0.262857386	0.242653251	2.020452363	
FGF4	0.262805108	0.242824013	2.020020715	
PHF3	-0.262747431	0.242895446	-2.019544508	
RPL4	-0.262771806	0.242895446	-2.019745757	
DHX34	0.262755607	0.242895446	2.019612008	
HES3	0.262714918	0.2429784	2.019276074	yes
EPS8	-0.262519333	0.243024815	-2.01766146	yes
TSGA10IP	0.262542785	0.243024815	2.017855053	
EML4	-0.262567099	0.243024815	-2.018055757	
TMOD4	0.262632063	0.243024815	2.018592048	
DHRS4L2	-0.262531182	0.243024815	-2.017759273	
TMEM179B	0.26262658	0.243024815	2.01854679	
VPS28	0.26267378	0.243024815	2.018936447	
PIK3CA	-0.26261443	0.243024815	-2.018446486	
DEF8	0.262569058	0.243024815	2.018071929	
C15orf39	0.262519917	0.243024815	2.017666282	
TEF	0.262510625	0.243024815	2.017589578	
MOGAT2	0.262514778	0.243024815	2.017623861	
FUBP3	-0.262658715	0.243024815	-2.018812075	
DNAJC6	-0.262685936	0.243024815	-2.019036802	
ATF1	-0.262496764	0.243024971	-2.017475162	
LAMP2	-0.26244634	0.243046466	-2.017058946	
ARL2	0.262450862	0.243046466	2.017096275	
NRARP	0.262436655	0.243046466	2.016979008	
LGR6	0.262476875	0.243046466	2.017310991	
CYP2W1	0.262404795	0.243075491	2.016716032	
MFAP5	0.262402507	0.243075491	2.01669715	

hCG_24312	0.262362457	0.243192204	2.01636659
HNRPDL	-0.262323525	0.243303988	-2.016045271
TRIM34	-0.26229271	0.243379695	-2.015790944
ANKS3	0.262245365	0.243388757	2.015400213
SLC44A1	-0.262235486	0.243388757	-2.015318686
RRM1	-0.262272479	0.243388757	-2.015623983
HOMER1	-0.262243015	0.243388757	-2.015380817
NOL8	-0.262206104	0.243458147	-2.015076205
LOC100129532	0.262188199	0.243476472	2.014928446
FBXL5	-0.262173468	0.24348068	-2.014806887
ADAM5P	0.262066367	0.243821436	2.013923106
SOX1	0.262065465	0.243821436	2.013915656
AP1M1	0.2620556	0.243821436	2.013834256
METTL6	-0.262016365	0.243864195	-2.013510521
ZNF565	-0.262004678	0.243864195	-2.013414091
PRKAG1	-0.262012362	0.243864195	-2.013477495
NT5C3L	0.261972284	0.243885838	2.013146811
ISL1	-0.261972888	0.243885838	-2.013151793
TRPM1	0.261944042	0.243950344	2.012913791
PWWP2A	0.261919901	0.243996593	2.012714616
LOC100129540	0.261889284	0.244071721	2.012462016
MBP	-0.261824924	0.24429734	-2.011931044
CSNK2B	-0.261796964	0.244333683	-2.011700383
DPP9	0.261789265	0.244333683	2.01163687
CD2BP2	0.261753914	0.24441802	2.011345239
PDXDC1	-0.261742858	0.24441802	-2.01125404
BOD1L	-0.261648357	0.244778491	-2.010474506
RIMBP3C	0.261621868	0.244835402	2.010256014
ITSN1	-0.261608041	0.244835765	-2.010141966
MREG	-0.261583846	0.244882456	-2.009942402
XKRX	-0.261550334	0.244970793	-2.009665994
C8orf45	-0.261513972	0.245008299	-2.009366082
FLJ35776	-0.261500734	0.245008299	-2.0092569

IGSF8	0.261514015	0.245008299	2.009366437	
PGBD3	-0.261452857	0.24516091	-2.008862046	
NSUN6	-0.261396947	0.24532607	-2.008400956	
TRIM24	-0.261388464	0.24532607	-2.008330996	
NSMCE4A	-0.261342833	0.245407398	-2.007954697	
ATPGD1	0.261356371	0.245407398	2.008066333	
C17orf76	0.261261167	0.245711485	2.007281259	
PDS5B	-0.261225754	0.245808626	-2.006989252	
ZNF136	-0.261181004	0.245886177	-2.006620271	
FOXP2	-0.261188443	0.245886177	-2.006681606	
BAHCC1	0.261117416	0.245981061	2.006095979	
PTCD2	-0.261104982	0.245981061	-2.005993465	
TRIM46	0.261119576	0.245981061	2.006113789	
TOMM70A	-0.261125474	0.245981061	-2.006162419	
RBPMS	0.261078486	0.246038377	2.00577501	
CNOT7	-0.26096707	0.246340549	-2.004856474	yes
GNPAT	-0.26095628	0.246340549	-2.004767523	
DDX18	-0.260986149	0.246340549	-2.005013761	
CHST3	0.260978852	0.246340549	2.004953599	
CCT4	-0.260883107	0.246423127	-2.004164318	
HTR1B	0.260901783	0.246423127	2.004318271	
UCKL1	0.260902158	0.246423127	2.004321359	
SUCLG2	-0.26089175	0.246423127	-2.004235567	
BRD3	0.260856029	0.246473169	2.003941108	
FZD6	-0.260844585	0.246473169	-2.003846773	
SPTLC1	-0.26078305	0.246626503	-2.003339555	
HTR7P	0.260790031	0.246626503	2.0033971	
FBXO18	-0.26076863	0.246629846	-2.0032207	
CENPB	0.260602781	0.246689384	2.001853786	
OLFML2A	0.260584373	0.246689384	2.00170208	
KIAA0907	-0.260576187	0.246689384	-2.001634622	
ELMOD2	-0.260682909	0.246689384	-2.002514173	
STAU2	-0.260526516	0.246689384	-2.001225282	

AQP11	0.260658622	0.246689384	2.002314004	
CCDC18	-0.260642757	0.246689384	-2.002183249	
APRT	0.260566179	0.246689384	2.001552144	
ZNF793	-0.260534726	0.246689384	-2.00129294	
KIAA1680	-0.260670257	0.246689384	-2.002409891	
NFATC4	0.260523308	0.246689384	2.001198848	yes
PPP4R4	-0.260577649	0.246689384	-2.001646667	
SLC35F5	-0.260552035	0.246689384	-2.001435578	
TSC22D4	0.260722488	0.246689384	2.002840378	
HAT1	-0.260614888	0.246689384	-2.001953562	
ZNF835	0.260609507	0.246689384	2.001909221	
ULK2	-0.260626472	0.246689384	-2.002049034	
HRCT1	0.26049371	0.246761018	2.000954935	
CA5B	-0.260426715	0.247000481	-2.000402878	
SNORA9	0.260381666	0.247141565	2.000031673	
PANK4	0.260332233	0.247302407	1.999624363	
TMEM150	0.260128974	0.247305566	1.997949764	yes
PM20D1	0.260127506	0.247305566	1.997937672	
FAF2	-0.260199982	0.247305566	-1.998534749	
RANBP6	-0.260245339	0.247305566	-1.998908434	
HIST1H1C	0.260151818	0.247305566	1.998137955	
NME2	0.260142418	0.247305566	1.998060519	
NPAS1	0.260220409	0.247305566	1.998703038	
LOC492303	0.260259902	0.247305566	1.999028416	
TNFRSF11B	0.260142227	0.247305566	1.998058939	
C1orf112	-0.260280804	0.247305566	-1.99920063	
CABC1	0.260275133	0.247305566	1.999153906	
ODF2L	-0.260255619	0.247305566	-1.998993129	
LRFN1	0.260158477	0.247305566	1.998192811	
ARHGAP28	0.260174086	0.247305566	1.998321405	
IQGAP1	-0.26029061	0.247305566	-1.999281418	
C14orf28	-0.260040002	0.247403971	-1.997216829	
DCTD	-0.260042472	0.247403971	-1.997237179	

TYMP	0.260054454	0.247403971	1.997335878	
NEDD4L	-0.260008793	0.247403971	-1.996959754	
RNF167	0.260079605	0.247403971	1.997543069	
HSD17B14	0.259997022	0.247403971	1.996862794	yes
SMARCE1	-0.260015744	0.247403971	-1.997017015	
HSDL2	-0.260009089	0.247403971	-1.996962195	
MED16	0.259847247	0.24759408	1.995629153	
SYNCRIP	-0.259865699	0.24759408	-1.995781129	
FAM109A	0.259820283	0.24759408	1.995407076	
C14orf145	-0.259816533	0.24759408	-1.995376192	
PPAPDC1A	0.259876685	0.24759408	1.995871613	
OR4D9	0.259924713	0.24759408	1.99626719	
ADAM11	0.259861161	0.24759408	1.99574375	
PPP3CC	-0.259785157	0.24759408	-1.995117787	
MEG3	0.259765083	0.24759408	1.994952468	
PDXP	0.259895979	0.24759408	1.99603052	
SPRR1B	-0.259904201	0.24759408	-1.996098244	
CPNE3	-0.259774372	0.24759408	-1.995028961	
RNF8	-0.259787286	0.24759408	-1.995135316	
C12orf23	-0.25981988	0.24759408	-1.995403757	
COL6A3	0.259711624	0.247651984	1.99451221	
LIPH	-0.259714594	0.247651984	-1.99453667	
TPM1	0.259719943	0.247651984	1.994580719	
CHTF18	0.259684961	0.247711016	1.994292634	
PUS7	-0.259656465	0.247763347	-1.994057973	
RBM26	-0.259646282	0.247763347	-1.993974122	
TBL1X	-0.259581452	0.247933194	-1.993440277	
TIFA	-0.259590036	0.247933194	-1.993510962	
HEY2	-0.25954315	0.248044616	-1.99312489	
AGPAT1	0.259528515	0.248049701	1.993004389	
RNF103	-0.25948508	0.248184248	-1.992646757	
RPP14	-0.259436107	0.248283061	-1.992243535	
C5orf33	-0.259439027	0.248283061	-1.99226758	

FLCN	0.259382719	0.248462496	1.991803989
MBNL2	-0.259214391	0.248467486	-1.990418252
BRD8	-0.259167461	0.248467486	-1.990031941
CDC42EP5	0.259328912	0.248467486	1.991361009
MED4	-0.259166026	0.248467486	-1.990020132
NRBP2	0.259221928	0.248467486	1.990480294
LOC387720	0.259230611	0.248467486	1.990551771
MYO1B	-0.259296347	0.248467486	-1.991092917
NSF	-0.259352738	0.248467486	-1.991557158
TRNT1	-0.259214142	0.248467486	-1.990416207
BARHL1	0.259174773	0.248467486	1.990092133
PPM1H	-0.259178524	0.248467486	-1.990123009
ARID4A	-0.259269742	0.248467486	-1.990873901
RTKN	0.259218151	0.248467486	1.990449207
FABP12	0.259236975	0.248467486	1.990604159
XPNPEP1	-0.259361648	0.248467486	-1.991630517
ATG10	-0.259305254	0.248467486	-1.991166249
IFITM3	0.259028674	0.248560255	1.988889596
OLFM1	0.258854666	0.248560255	1.98745753
DDX17	-0.258879113	0.248560255	-1.987658708
TMED1	0.259087111	0.248560255	1.989370569
COX11	-0.258845214	0.248560255	-1.987379743
TCEAL6	0.258951666	0.248560255	1.988255798
MKRN1	-0.258948712	0.248560255	-1.988231489
CENPI	-0.258959905	0.248560255	-1.988323609
HSN2	-0.258913685	0.248560255	-1.987943221
ATP1B2	0.258919156	0.248560255	1.987988244
NTSR1	0.259063723	0.248560255	1.989178071
PAX9	-0.25911612	0.248560255	-1.989609342
REEP2	0.258973445	0.248560255	1.988435046
FAM29A	-0.258839414	0.248560255	-1.987332017
TMEM19	-0.258980562	0.248560255	-1.98849362
MRPS14	-0.258836666	0.248560255	-1.987309398

RMND5A	-0.258895897	0.248560255	-1.987796831	yes
UAP1	-0.258839133	0.248560255	-1.987329705	
C20orf195	0.259071066	0.248560255	1.989238511	
ALG12	0.258921957	0.248560255	1.988011296	
NARS2	-0.25907364	0.248560255	-1.989259696	
NIPA2	-0.258928516	0.248560255	-1.98806528	
B4GALT6	-0.258888867	0.248560255	-1.987738978	
LOC100133315	-0.258725532	0.248679041	-1.986394905	
WDR47	-0.258669968	0.248679041	-1.985937707	yes
HECW1	0.258731838	0.248679041	1.986446786	
MFAP1	-0.258768955	0.248679041	-1.98675221	
PDE4D	-0.25878198	0.248679041	-1.986859388	
LYRM1	-0.258679353	0.248679041	-1.98601493	
TCEB1	-0.258678328	0.248679041	-1.986006496	
THBS2	0.258663059	0.248679041	1.98588086	
FAM176A	0.25872318	0.248679041	1.986375547	
NLRC5	0.258754954	0.248679041	1.986637001	
IL17RC	0.258710064	0.248679041	1.986267628	
TMEM106B	-0.258623251	0.248737816	-1.985553325	
SLC25A22	0.258634513	0.248737816	1.985645989	
SNORD115-34	0.258486212	0.248786063	1.984425872	
KLC3	0.258568665	0.248786063	1.985104218	
DOLK	0.258562508	0.248786063	1.985053559	
SWAP70	-0.258515883	0.248786063	-1.984669968	
PSD3	-0.258598201	0.248786063	-1.985347224	yes
HARS2	-0.258548529	0.248786063	-1.984938555	
PLA2G2C	0.258481942	0.248786063	1.984390745	
COPS7B	0.258479037	0.248786063	1.984366846	
SYPL1	-0.258517446	0.248786063	-1.98468283	
THNSL1	-0.258479073	0.248786063	-1.984367143	
PRDX3	-0.258454368	0.248796213	-1.984163903	
RPS16P10	0.258450113	0.248796213	1.9841289	
LBA1	0.258435122	0.248803682	1.984005575	

COMMD2	-0.258408071	0.248805491	-1.983783041	yes
ZNF215	-0.258409439	0.248805491	-1.9837943	
DYRK1B	0.258382815	0.248859091	1.983575284	
PHLDA3	0.258346991	0.248885252	1.983280601	
IPO5	-0.258337042	0.248885252	-1.983198763	
SFRS2	-0.25834501	0.248885252	-1.983264299	
GNLY	0.257854417	0.249017348	1.979229597	
RALBP1	-0.258293613	0.249017348	-1.98284153	
CLDND2	0.257960497	0.249017348	1.980101874	
EMID1	0.258199625	0.249017348	1.982068461	
DCST1	0.257828805	0.249017348	1.979019006	
DAD1	-0.258065272	0.249017348	-1.980963498	
TIMM8A	-0.258206537	0.249017348	-1.982125319	
EYA3	-0.257918668	0.249017348	-1.979757914	
FLJ37078	0.257805604	0.249017348	1.97882824	
USP33	-0.258035469	0.249017348	-1.980718406	
SR140	-0.257818281	0.249017348	-1.978932479	
ASPHD1	0.258195285	0.249017348	1.982032769	
C16orf65	0.257979613	0.249017348	1.980259067	
PRKD2	0.257937148	0.249017348	1.979909872	
HMGCR	-0.257822023	0.249017348	-1.978963246	
FAM73A	-0.257920253	0.249017348	-1.979770946	
KCNG1	0.258135782	0.249017348	1.981543382	
KCNMA1	0.258235184	0.249017348	1.982360932	
LBR	-0.258025601	0.249017348	-1.980637254	
MDK	0.257994131	0.249017348	1.98037846	
STGC3	0.2582466	0.249017348	1.982454834	
P4HA1	-0.258202903	0.249017348	-1.982095428	
PAEP	0.257921986	0.249017348	1.9797852	
SRRT	0.257959687	0.249017348	1.980095214	
NDUFB11	0.257803593	0.249017348	1.978811711	
RC3H2	-0.257813702	0.249017348	-1.978894823	
GPATCH1	-0.25797334	0.249017348	-1.980207485	

ASH1L	-0.257942434	0.249017348	-1.979953337
PRSS2	0.257820132	0.249017348	1.978947696
ZNF687	0.25811208	0.249017348	1.981348446
REG1B	0.258187266	0.249017348	1.981966818
RPL7A	0.257865698	0.249017348	1.979322352
MRPL23	0.25821094	0.249017348	1.98216153
TRIM48	0.257862391	0.249017348	1.979295162
TNFAIP8L2	0.257983806	0.249017348	1.980293555
BRSK1	0.258163964	0.249017348	1.981775163
IL1F10	0.258108911	0.249017348	1.981322388
MTMR2	-0.257816877	0.249017348	-1.978920933
TMEM160	0.257787671	0.249029494	1.978680797
C20orf141	0.257680805	0.249154245	1.977802184
FREM1	0.257661616	0.249154245	1.977644421
SYNPO2	0.257630458	0.249154245	1.977388275
DPYSL2	0.257711565	0.249154245	1.978055068
LUC7L2	-0.257605301	0.249154245	-1.977181464
WDR12	-0.257684881	0.249154245	-1.97783569
PTK2	-0.257648081	0.249154245	-1.977533151
RPL21P93	0.257720033	0.249154245	1.978124692
FAM117A	0.257627956	0.249154245	1.977367705
VANGL1	-0.257601477	0.249154245	-1.977150021
LHX4	0.25761976	0.249154245	1.977300322
DGCR2	0.257718916	0.249154245	1.978115507
MAZ	0.257586837	0.249160781	1.977029672
ADAMTS7	0.257530358	0.249251565	1.976565389
OR10J5	0.257532942	0.249251565	1.976586636
ZNF746	0.257441092	0.249251565	1.975831625
ZNF782	-0.257458342	0.249251565	-1.975973415
RICTOR	-0.257484404	0.249251565	-1.976187643
ANAPC13	-0.257428723	0.249251565	-1.975729959
RRP15	-0.25750341	0.249251565	-1.976343878
CRLS1	-0.257447962	0.249251565	-1.975888096

NBEAL1	-0.257421747	0.249251565	-1.975672622	yes
C9orf89	0.257456199	0.249251565	1.975955805	
TMEM25	0.257447342	0.249251565	1.975882998	
ACAP2	-0.257399238	0.249293516	-1.975487611	
POLR3A	-0.257334889	0.249438065	-1.974958717	
TSEN54	0.257332313	0.249438065	1.974937546	
KHK	0.257320181	0.249438065	1.97483783	
RANBP2	-0.257314417	0.249438065	-1.974790458	
GAL3ST3	0.257241343	0.249706993	1.974189899	
LRRC42	-0.257208238	0.249796622	-1.973917832	
IFT80	-0.257170977	0.249904946	-1.973611622	
DGKH	-0.257153116	0.249926154	-1.973464845	
CEBPA	0.257122533	0.249963384	1.973213529	
SH2B2	0.257092294	0.249963384	1.972965043	
DARS2	-0.257095097	0.249963384	-1.972988074	
TXNL1	-0.257103495	0.249963384	-1.973057084	

genename	r-value	FDR	t-value	CMH-associated
ITGA7	0.536578292	0.111418002	4.71572977	yes
LIMS2	0.552008176	0.111418002	4.90958529	yes
ADAM33	0.543751839	0.111418002	4.80499318	yes
SNORD115-7	0.475460927	0.124993705	4.008144767	
RAMP3	0.479578615	0.124993705	4.053167617	
SPEG	0.472042772	0.124993705	3.971029487	yes
IVNS1ABP	-0.472855924	0.124993705	-3.979837879	yes
LILRA3	0.498061345	0.124993705	4.259651431	
HSPA12B	0.471340968	0.124993705	3.963437759	
TDRD9	0.459296515	0.124993705	3.834627107	
NIPA1	-0.497929727	0.124993705	-4.258154605	
TMEM170A	-0.455821795	0.124993705	-3.79797194	
COL5A1	0.460380255	0.124993705	3.846105049	yes
COL6A2	0.487255014	0.124993705	4.138035667	yes
LIN54	-0.469735434	0.124993705	-3.946106312	
CXorf39	-0.488507901	0.124993705	-4.152005308	yes
TIGD2	-0.476494743	0.124993705	-4.019416233	
DMPK	0.490491227	0.124993705	4.174188371	
ZCCHC24	0.46875438	0.124993705	3.935540764	
VASH1	0.456276363	0.124993705	3.802754679	
SLC4A1AP	-0.470363344	0.124993705	-3.952878476	
SEP8	0.474014511	0.124993705	3.992410796	
FAM168A	0.457418676	0.124993705	3.81479014	
CAMTA1	0.471324629	0.124993705	3.96326113	
ADAT1	-0.457959205	0.124993705	-3.820493492	yes
MKRN2	-0.460877423	0.124993705	-3.851377866	
EBF3	0.462590847	0.124993705	3.869585305	yes
CLIP3	0.462232137	0.124993705	3.865768973	
RBPM52	0.486270428	0.124993705	4.1270811	
C10orf113	-0.459040805	0.124993705	-3.831922039	
C7orf59	0.486299445	0.124993705	4.127403646	
ARHGAP6	0.470041698	0.124993705	3.949408476	

LOC400986	-0.457300498	0.124993705	-3.813543907	
MGC57346	-0.464959221	0.124993705	-3.894843398	
MFAP2	0.468011567	0.124993705	3.927553392	
NBL1	0.488505715	0.124993705	4.151980906	
PKP2	-0.508947564	0.124993705	-4.38483621	
JPH2	0.463921649	0.124993705	3.883764903	yes
PITPNM2	0.494867308	0.124993705	4.223437277	yes
REL	-0.465152837	0.124993705	-3.896912957	
FKBP10	0.515567669	0.124993705	4.4623414	yes
RNY5	0.497980757	0.124993705	4.258734897	
SGCA	0.458668042	0.124993705	3.827980866	
ST3GAL2	0.461162532	0.124993705	3.854403726	yes
SMTN	0.476506852	0.124993705	4.01954838	yes
TACR2	0.47002751	0.124993705	3.949255465	
TBX2	0.5129964	0.124993705	4.432111004	yes
TIE1	0.46842265	0.124993705	3.931972395	
C13orf34	-0.482662205	0.124993705	-4.087110923	
DYSF	0.466512128	0.124993705	3.911462573	yes
RNASEH2C	0.494076566	0.124993705	4.214506958	
SHANK3	0.455321021	0.124993705	3.792707384	yes
SYDE1	0.455813825	0.124993705	3.797888116	yes
DCHS1	0.482533369	0.124993705	4.085688794	
TNFSF12	0.507560035	0.124993705	4.368726024	
NAPG	-0.474067477	0.124993705	-3.992986208	
CHMP4C	-0.45659537	0.124993705	-3.806113352	
PDLIM7	0.478354087	0.124993705	4.03974262	yes
CLINT1	-0.459415376	0.124993705	-3.835884902	
CDH23	0.454767947	0.125207071	3.786898292	yes
RAMP2	0.446769841	0.126807835	3.703501686	
MRVI1	0.452942665	0.126807835	3.76776593	
PROCR	0.446438119	0.126807835	3.700067074	
CYP3A5	-0.446987792	0.126807835	-3.705759362	
DCLK2	0.45011862	0.126807835	3.738281937	

FLNC	0.453192826	0.126807835	3.770384542	
EFEMP2	0.449185941	0.126807835	3.728575443	yes
MGAT3	0.447140474	0.126807835	3.707341431	
CALHM2	0.448317425	0.126807835	3.719550436	
APTX	-0.449216486	0.126807835	-3.728893084	yes
DBNDD2	0.4522809	0.126807835	3.760844155	
WFDC1	0.447800072	0.126807835	3.714180745	yes
SOD3	0.44890403	0.126807835	3.72564458	
TGFB111	0.452303071	0.126807835	3.761075919	yes
TLE4	-0.44788691	0.126807835	-3.715081728	yes
GHDC	0.450442853	0.126807835	3.741659854	
C8orf76	-0.450111638	0.126807835	-3.738209213	
TSPAN18	0.447979786	0.126807835	3.716045502	
HMGXB4	-0.443391511	0.128720643	-3.668611579	
HSPB7	0.442910713	0.128720643	3.663661981	
NHSL2	0.442528064	0.128720643	3.659725584	
ZNF295	-0.443177055	0.128720643	-3.666403369	
PDE2A	0.443484661	0.128720643	3.66957097	
PEX13	-0.442008732	0.128720643	-3.654387082	yes
PPM1B	-0.444604066	0.128720643	-3.681111828	
MAPK6	-0.44444036	0.128720643	-3.679422705	
SNORA42	0.444997329	0.128720643	3.68517138	
SYT15	0.442284836	0.128720643	3.657224746	
CNTNAP1	0.441901266	0.128720643	3.65328295	yes
COL4A6	0.434041668	0.128827337	3.573054609	
COX7A1	0.434276026	0.128827337	3.575432125	
SELM	0.435919622	0.128827337	3.592131296	yes
CSNK2A1	-0.440839298	0.128827337	-3.642382521	yes
AEBP1	0.434798583	0.128827337	3.580736593	
ADCY4	0.433529727	0.128827337	3.567864183	
OAF	0.434427841	0.128827337	3.576972744	
SETBP1	0.440085044	0.128827337	3.634652123	
MAGI3	-0.433688733	0.128827337	-3.569475838	

DTWD2	-0.437432211	0.128827337	-3.607538606	
REM1	0.440644382	0.128827337	3.640383905	
C18orf8	-0.439223787	0.128827337	-3.625836704	
MACC1	-0.435274853	0.128827337	-3.585575078	
EGFL7	0.434144573	0.128827337	3.574098457	yes
RASL12	0.434791913	0.128827337	3.580668859	yes
ZCCHC17	-0.437013787	0.128827337	-3.603272741	
RBM47	-0.439198028	0.128827337	-3.625573241	
TADA2L	-0.436717944	0.128827337	-3.600258338	
SNORD7	-0.436051189	0.128827337	-3.593469942	
TPM3	-0.438641033	0.128827337	-3.619878939	
VRK2	-0.434241696	0.128827337	-3.575083807	yes
DSCC1	-0.436981275	0.128827337	-3.602941398	
SLTM	-0.436434759	0.128827337	-3.597374273	
CBFB	-0.441261682	0.128827337	-3.646715747	yes
CCDC109A	-0.436690609	0.128827337	-3.59997989	yes
ACVRL1	0.435701745	0.128827337	3.589915088	yes
HTRA3	0.436936538	0.128827337	3.602485495	
SEC23IP	-0.430957248	0.133025	-3.541846669	yes
NFXL1	-0.430685452	0.133025	-3.539104	
ERCC6	-0.430624601	0.133025	-3.538490126	
KANK2	0.430967511	0.133025	3.541950257	
GPR124	0.431452353	0.133025	3.546845774	yes
SH3YL1	-0.430867773	0.133025	-3.54094366	
SCARF1	0.43077981	0.133025	3.540056028	
LOC100131507	0.429593343	0.135151555	3.528095531	
AFF4	-0.429720871	0.135151555	-3.529380037	
PAPSS1	-0.429164137	0.135871928	-3.523774331	
MUSTN1	0.428565515	0.136246122	3.517752363	
YIPF1	-0.428621673	0.136246122	-3.518317048	
SNORD51	-0.427838236	0.138256385	-3.510443762	
EHD2	0.427109835	0.139231593	3.50313226	
RIOK3	-0.427219496	0.139231593	-3.504232471	

LOC100132564	0.409900827	0.140097373	3.332754731	
FRAT1	0.416323108	0.140097373	3.395818274	yes
TSPAN5	-0.414180872	0.140097373	-3.374715214	
MPHOSPH10	-0.403876837	0.140097373	-3.274144089	
INADL	-0.406946899	0.140097373	-3.303949837	yes
CDKN2D	0.413717406	0.140097373	3.370158565	
MYL9	0.39957141	0.140097373	3.23256702	
NEBL	-0.406260158	0.140097373	-3.297271016	yes
POLR3C	-0.416807249	0.140097373	-3.400596979	yes
NES	0.422177881	0.140097373	3.453844488	yes
ARID5A	0.400691367	0.140097373	3.24335762	
NUPL2	-0.416478666	0.140097373	-3.397353323	
BAZ1A	-0.401495024	0.140097373	-3.251111382	yes
PRAF2	0.419109264	0.140097373	3.423367017	
AP1GBP1	-0.413478196	0.140097373	-3.367807969	
SYNPO	0.414477379	0.140097373	3.377632041	
TMEM200A	-0.413035466	0.140097373	-3.363459697	
C1QTNF1	0.420823745	0.140097373	3.440377546	yes
C1QTNF5	0.404490336	0.140097373	3.280089623	yes
GEFT	0.412618011	0.140097373	3.359362292	yes
CPXM2	0.404948794	0.140097373	3.284536078	
TC2N	-0.400358949	0.140097373	-3.240153025	yes
LEO1	-0.404614136	0.140097373	-3.281290031	
TMEM219	0.401309028	0.140097373	3.249316086	
ZNF792	0.420338201	0.140097373	3.435555605	
TDRD10	0.414775877	0.140097373	3.380569761	
COL4A2	0.400507179	0.140097373	3.241581812	yes
COL6A1	0.422930714	0.140097373	3.461343602	yes
MBOAT2	-0.399282938	0.140097373	-3.229790439	
TRAM1L1	0.424813522	0.140097373	3.480136904	yes
TMEM71	-0.417179652	0.140097373	-3.40427516	
FAM65C	0.407695169	0.140097373	3.311234689	
PTGR2	-0.401837417	0.140097373	-3.254417551	

NOTUM	0.4125153	0.140097373	3.358354556	
RC3H1	-0.39773207	0.140097373	-3.214882619	yes
CLEC14A	0.408408291	0.140097373	3.318184795	yes
DENND2C	-0.40080457	0.140097373	-3.244449277	
ACE	0.412930461	0.140097373	3.362428807	
ATN1	0.400604483	0.140097373	3.242519889	
DSP	-0.40178846	0.140097373	-3.253944715	
ENG	0.409751883	0.140097373	3.331299321	
F2RL1	-0.403672222	0.140097373	-3.272162308	
FABP3	0.400705847	0.140097373	3.243497244	
RTKN2	-0.399291668	0.140097373	-3.229874449	
FBLN2	0.407804307	0.140097373	3.312297875	
SLC16A9	-0.40319887	0.140097373	-3.267579931	
FCGRT	0.402229745	0.140097373	3.258207881	
COG2	-0.408897287	0.140097373	-3.322954779	
ITGA11	0.402906693	0.140097373	3.264753017	
IKZF2	-0.414508752	0.140097373	-3.377940741	yes
ARHGEF15	0.407377569	0.140097373	3.308141681	yes
NT5C2	-0.420605361	0.140097373	-3.438208327	
IGSF9B	0.410709688	0.140097373	3.340664152	
ZNF423	0.401131419	0.140097373	3.24760218	
CAMTA2	0.418297066	0.140097373	3.415324191	
PLXND1	0.411127776	0.140097373	3.344756133	yes
TGDS	-0.413223565	0.140097373	-3.365306755	
BRWD3	-0.416792251	0.140097373	-3.400448891	
BCL6B	0.405385861	0.140097373	3.288777834	
RAB11FIP5	0.420749292	0.140097373	3.439637919	
KAT2A	0.410425864	0.140097373	3.337887707	
GDF10	0.422207131	0.140097373	3.454135693	
ATP5S	-0.423651731	0.140097373	-3.468533973	
PTRF	0.41759412	0.140097373	3.408371242	yes
ZNF326	-0.405339112	0.140097373	-3.288324003	
LOC284837	0.417546179	0.140097373	3.407897319	

MCTS1	-0.403749043	0.140097373	-3.272906279	
GNL2	-0.400782861	0.140097373	-3.244239913	
HIVEP1	-0.400549781	0.140097373	-3.241992508	
ACACB	0.419260263	0.140097373	3.424863392	
HOXB4	0.4028619	0.140097373	3.264319732	
HSF2	-0.399984741	0.140097373	-3.236547384	
SLC10A5	-0.413888774	0.140097373	-3.371843035	
IMPA1	-0.420550062	0.140097373	-3.437659158	yes
ITGB3	0.413470177	0.140097373	3.367729187	
KCNC4	0.415689922	0.140097373	3.389573706	
PEAR1	0.410027464	0.140097373	3.333992421	yes
SLC26A5	-0.405967005	0.140097373	-3.294422034	
KIFC3	0.420460159	0.140097373	3.436766428	
LOC387763	0.410224019	0.140097373	3.33591392	
LOC389813	0.399263035	0.140097373	3.229598907	
RPSA	-0.408868439	0.140097373	-3.322673285	
STX19	-0.422481422	0.140097373	-3.456867076	
MDM2	-0.40032294	0.140097373	-3.239805979	
MN1	0.398401826	0.140097373	3.221316663	yes
BCL2L15	-0.398839074	0.140097373	-3.225520409	
NOTCH4	0.421708663	0.140097373	3.449174917	
OCLN	-0.403580573	0.140097373	-3.271274837	
KLRF1	-0.421093488	0.140097373	-3.443057918	
PDE4A	0.413668612	0.140097373	3.369679024	
ASB2	0.404422687	0.140097373	3.279433767	
PEX7	-0.404032715	0.140097373	-3.275654237	
PFKFB2	-0.407992512	0.140097373	-3.314131718	
PLRG1	-0.399377319	0.140097373	-3.230698742	
PPIL3	-0.414256289	0.140097373	-3.375456988	
LOC100133422	-0.41587641	0.140097373	-3.391412257	yes
ROBO4	0.407213304	0.140097373	3.306542531	yes
FLJ10404	0.411435477	0.140097373	3.347769335	yes
QRICH1	-0.422547856	0.140097373	-3.457528795	

ZWILCH	-0.400344783	0.140097373	-3.240016495	
RALGPS2	-0.425948674	0.140097373	-3.491494046	yes
TMEM39B	0.399171022	0.140097373	3.228713536	
PRPF38B	-0.398372484	0.140097373	-3.221034656	
LARP2	-0.408288149	0.140097373	-3.317013379	
RFWD3	-0.398141711	0.140097373	-3.218817128	
C4orf43	-0.402188182	0.140097373	-3.257806241	
PRKAR1B	0.42556921	0.140097373	3.487695289	
UBAP2	-0.401113521	0.140097373	-3.247429491	
ECHDC1	-0.41280451	0.140097373	-3.361192504	yes
MAPK11	0.399424154	0.140097373	3.23114952	yes
PAPOLB	0.400270331	0.140097373	3.239298981	
MRPS22	-0.424073351	0.140097373	-3.472742325	
SHROOM4	0.418807423	0.140097373	3.420376859	yes
STARD9	0.424473676	0.140097373	3.476740658	
FBRSL1	0.409658259	0.140097373	3.330384631	yes
RAB3IL1	0.400011706	0.140097373	3.23680714	
RPS6KB1	-0.405631068	0.140097373	-3.291158755	
RPS9	0.413386008	0.140097373	3.366902304	
CLEC11A	0.399537612	0.140097373	3.23224165	yes
TNN	0.409586463	0.140097373	3.329683288	
SH3BP2	0.410051776	0.140097373	3.334230068	yes
FAM113A	0.397709144	0.140097373	3.21466249	
VWA1	0.41939641	0.140097373	3.426212886	yes
SKI	0.421946555	0.140097373	3.45154195	
GRAMD3	-0.406076485	0.140097373	-3.29548586	
SNORA58	0.41586268	0.140097373	3.391276872	
SNORA60	0.398129595	0.140097373	3.218700724	
TSPAN4	0.425262583	0.140097373	3.484627336	
TNS1	0.399017433	0.140097373	3.227235917	
TNXB	0.411237001	0.140097373	3.345825571	
TP53BP2	-0.397820369	0.140097373	-3.215730521	
TPD52	-0.418077627	0.140097373	-3.413152888	

LOC730241	0.415111941	0.140097373	3.383878774	
MAP3K12	0.402989038	0.140097373	3.265549608	
SECISBP2	-0.404071192	0.140097373	-3.276027051	yes
C2orf47	-0.42139353	0.140097373	-3.446040666	
FAM118B	-0.407636565	0.140097373	-3.310663849	
C3orf52	-0.413735971	0.140097373	-3.37034103	yes
C15orf29	-0.398398237	0.140097373	-3.221282167	
ZNF703	0.423015558	0.140097373	3.462189301	
NAT13	-0.424950857	0.140097373	-3.481509866	
COQ10B	-0.419308795	0.140097373	-3.425344413	
STAM	-0.397985224	0.140097373	-3.217313843	
COIL	-0.397885537	0.140097373	-3.21635637	
PLVAP	0.40100494	0.140097373	3.246381941	yes
RIOK1	-0.413919337	0.140097373	-3.3721435	
IMMP2L	-0.403855112	0.140097373	-3.273933643	
EMILIN2	0.398643114	0.140097373	3.223636106	
USP42	-0.398607577	0.140097373	-3.223294448	yes
WDR24	0.425606306	0.140097373	3.488066554	
RPAIN	-0.412802947	0.140097373	-3.361177167	
MCM8	-0.410443961	0.140097373	-3.338064708	
RTN4IP1	-0.406448509	0.140097373	-3.299102135	
ZNF496	0.4053873	0.140097373	3.288791803	
PPFIA1	-0.424385053	0.140097373	-3.475855308	
NKD1	0.403251343	0.140097373	3.26808775	yes
RTCD1	-0.402130119	0.140097373	-3.25724518	yes
EIF3A	-0.414582261	0.140097373	-3.378664101	
CACNA1H	0.409545468	0.140097373	3.329282859	
STBD1	0.399122181	0.140097373	3.22824362	
MAP3K14	0.411186744	0.140097373	3.345333474	
ANKRD40	0.415545136	0.140097373	3.388146636	
MYOM2	0.416034453	0.140097373	3.392970776	
WDR20	-0.415361472	0.140097373	-3.386336828	
GPR52	-0.403423803	0.140097373	-3.269757042	

ZBTB47	0.398508382	0.140097373	3.222340863	
TRIP4	-0.41653899	0.140097373	-3.397948701	yes
SYTL4	-0.424636676	0.140097373	-3.478369373	
PPP1R14A	0.411210731	0.140097373	3.345568345	
CHST10	0.398100985	0.140097373	3.218425863	yes
SCARB1	0.410343254	0.140097373	3.337079821	
BAG5	-0.400576773	0.140097373	-3.242252731	
CD40	0.405664762	0.140097373	3.291485987	
ADAMTSL2	0.411524684	0.140097373	3.348643167	
SART3	-0.404726322	0.140097373	-3.282378019	
BMS1	-0.398930824	0.140097373	-3.226402836	
SV2A	0.404455209	0.140097373	3.279749056	
ROD1	-0.402263563	0.140097373	-3.258534704	yes
LOC100128868	-0.395784602	0.14343078	-3.196208804	
ADAMTS8	0.395773119	0.14343078	3.196098847	
ICK	-0.396597238	0.14343078	-3.203994738	
RASSF3	0.396486035	0.14343078	3.202928767	
C9orf142	0.39674734	0.14343078	3.205433849	yes
LOC100133424	-0.395912703	0.14343078	-3.197435553	
RPS19	0.395732797	0.14343078	3.195712756	
HORMAD1	-0.395884193	0.14343078	-3.197162513	
FUBP1	-0.396116165	0.14343078	-3.199384459	
ESAM	0.395944598	0.14343078	3.197741033	
SMARCD3	0.395565925	0.143650323	3.194115161	yes
LOC100128576	-0.39026611	0.143875608	-3.143569377	
LOC100130174	0.390488685	0.143875608	3.14568465	
SEMA6B	0.392688246	0.143875608	3.166623627	yes
B3GNT1	0.39312315	0.143875608	3.17077134	
NTN5	0.391276423	0.143875608	3.153176278	
C20orf94	-0.392381683	0.143875608	-3.163701434	
OR10A5	0.392100103	0.143875608	3.161018466	
CST1	0.392427443	0.143875608	3.16413754	
LOC150763	0.392748031	0.143875608	3.167193652	

PPP4R2	-0.390665098	0.143875608	-3.14736168	
CCNY	-0.390521356	0.143875608	-3.145995196	yes
STAB1	0.393418133	0.143875608	3.173586042	
FAM89B	0.390605214	0.143875608	3.146792362	
SGK3	-0.393748402	0.143875608	-3.176738818	
TES	-0.393968349	0.143875608	-3.178839254	
LRRC32	0.390353108	0.143875608	3.144396098	
DENND2A	0.391244545	0.143875608	3.15287295	
HCCS	-0.393139288	0.143875608	-3.170925297	yes
LOC339483	0.391428198	0.143875608	3.154620639	
FAM70B	0.392282851	0.143875608	3.162759615	yes
NPR1	0.39194702	0.143875608	3.159560299	
SEPSECS	-0.391243315	0.143875608	-3.152861245	
PPP1R12C	0.391940285	0.143875608	3.159496152	yes
PRKACA	0.394620444	0.143875608	3.185070401	
C12orf11	-0.39301724	0.143875608	-3.169761037	
NXT2	-0.390644226	0.143875608	-3.147163241	yes
FEM1C	-0.390400829	0.143875608	-3.144849616	
PTGS1	0.392403113	0.143875608	3.163905663	
NLGN2	0.394802639	0.143875608	3.186812407	
RPS6KA2	0.392272753	0.143875608	3.162663396	
BGN	0.392847995	0.143875608	3.168146877	
FN3K	0.393460493	0.143875608	3.173990333	
LOC646316	-0.393281042	0.143875608	-3.172277789	
TBP	-0.394663846	0.143875608	-3.185485338	
TCF3	0.390374513	0.143875608	3.144599515	
UGT8	-0.392321768	0.143875608	-3.163130463	
ZNF189	-0.390650001	0.143875608	-3.147218144	
GRRP1	0.394067157	0.143875608	3.179783056	
SCUBE1	0.393612132	0.143875608	3.175437795	
FIP1L1	-0.391598481	0.143875608	-3.1562415	
ITCH	-0.390788571	0.143875608	-3.148535693	
REPS1	-0.393574865	0.143875608	-3.175082037	

EAF1	-0.394680222	0.143875608	-3.1856419	
RGS11	0.390706672	0.143875608	3.147756952	yes
ADAMTSL1	0.391921953	0.143875608	3.159321557	yes
ADAMTS2	0.393185332	0.143875608	3.171364577	
GOSR1	-0.39276428	0.143875608	-3.16734859	
BZW1	-0.391200055	0.143875608	-3.152449637	
VPRBP	-0.390299111	0.143875608	-3.143882964	
ARHGEF17	0.393740769	0.143875608	3.176665937	
HSPG2	0.390164866	0.143887294	3.142607399	
RMRP	0.389969418	0.144272414	3.140750728	
ZDHC13	-0.38953497	0.145610053	-3.136625444	yes
ABI1	-0.386790282	0.146776845	-3.110620212	yes
LOC100127980	-0.389122954	0.146776845	-3.132715444	
TOM1L1	-0.386762776	0.146776845	-3.11036009	
SORBS3	0.382438816	0.146776845	3.069589884	
CDK7	-0.382171814	0.146776845	-3.06708014	
RAPGEF3	0.384376055	0.146776845	3.087826419	yes
CHD2	-0.383550264	0.146776845	-3.080046866	
EMILIN1	0.382746609	0.146776845	3.072484167	
SLC46A1	0.384889552	0.146776845	3.092668324	
C16orf42	0.386015563	0.146776845	3.103297591	
CPT1C	0.381749701	0.146776845	3.063114236	
SHE	0.386152919	0.146776845	3.104595312	
COL1A1	0.382982317	0.146776845	3.074701416	
COL15A1	0.387115642	0.146776845	3.113697813	
PNCK	0.380837238	0.146776845	3.054548964	yes
RBM2FP	0.383883208	0.146776845	3.083182399	
SASS6	-0.383540757	0.146776845	-3.079957349	
C14orf147	-0.387806079	0.146776845	-3.120233236	
MPZL3	-0.380708592	0.146776845	-3.053342216	
ABCA2	0.388104258	0.146776845	3.123057591	
ERCC5	-0.382698657	0.146776845	-3.072033179	
PHACTR1	0.383470745	0.146776845	3.079298191	

C7orf27	0.382745954	0.146776845	3.072478001	
SMC5	-0.383246037	0.146776845	-3.07718301	
FLT4	0.388698821	0.146776845	3.128692765	yes
TENC1	0.380689674	0.146776845	3.05316477	
ALPPL2	0.381769522	0.146776845	3.063300404	
BRI3	0.387764042	0.146776845	3.119835149	
NGDN	-0.381046381	0.146776845	-3.056511265	
GPR110	-0.385556043	0.146776845	-3.098957874	
SNORD4B	-0.386143036	0.146776845	-3.104501931	
SNORD52	-0.382216852	0.146776845	-3.06750342	
SNORD50A	0.381135054	0.146776845	3.057343407	
CCDC59	-0.387877792	0.146776845	-3.120912395	
ANXA1	-0.38631417	0.146776845	-3.106119099	
ZBTB8OS	-0.381316323	0.146776845	-3.059044819	
IDE	-0.385664573	0.146776845	-3.09998259	
ITGA9	0.383375959	0.146776845	3.078405888	
KPNA1	-0.382417259	0.146776845	-3.069387221	
KRAS	-0.380809555	0.146776845	-3.054289275	yes
LAMB2	0.383056034	0.146776845	3.075394999	
C14orf181	0.381013711	0.146776845	3.056204696	
MAP3K11	0.385010762	0.146776845	3.09381173	yes
ATOX1	0.384978364	0.146776845	3.093506092	
NFX1	-0.388462683	0.146776845	-3.126454142	yes
NOS3	0.385710668	0.146776845	3.100417848	
PAWR	-0.382791257	0.146776845	-3.072904103	
TAOK3	-0.381012001	0.146776845	-3.05618865	
PDE3A	0.386830405	0.146776845	3.110999664	
ATP6V1H	-0.383345791	0.146776845	-3.078121918	
DPH5	-0.385658675	0.146776845	-3.099926891	
PKD1	0.385949298	0.146776845	3.102671612	
PLA2G4A	-0.382764496	0.146776845	-3.072652398	
STX18	-0.382563439	0.146776845	-3.07076161	
CSNK1G1	-0.384976535	0.146776845	-3.093488837	

MIOS	-0.38426955	0.146776845	-3.086822573	
DKFZP434I0714	-0.381549919	0.146776845	-3.061237991	
RBM35A	-0.387800957	0.146776845	-3.120184729	
PI4K2B	-0.383115691	0.146776845	-3.075956353	
IMPACT	-0.381779955	0.146776845	-3.063398403	
RP5-1022P6.2	-0.385671122	0.146776845	-3.100044423	
DIABLO	-0.386762433	0.146776845	-3.110356852	
GRAMD1A	0.384994921	0.146776845	3.093662291	
PYGM	0.385761016	0.146776845	3.100893302	
RAB27B	-0.385096385	0.146776845	-3.094619557	
MAK10	-0.381474077	0.146776845	-3.060525854	yes
SMAP1	-0.383441476	0.146776845	-3.079022647	
CENPK	-0.388929922	0.146776845	-3.130884346	
TINAGL1	0.384555729	0.146776845	3.089520226	
SNORA19	-0.380970164	0.146776845	-3.055796088	
MPP5	-0.385126608	0.146776845	-3.094904721	
UNKL	0.386178031	0.146776845	3.104832594	yes
USP46	-0.384807991	0.146776845	-3.091899035	yes
PINK1	0.382886652	0.146776845	3.073801436	
SNCG	0.381845264	0.146776845	3.064011884	
SNORA29	-0.383958138	0.146776845	-3.083888253	
TEC	-0.385914339	0.146776845	-3.102341393	
LOC728844	-0.383191658	0.146776845	-3.076671237	
ZNF207	-0.384142186	0.146776845	-3.085622321	
ZNF655	-0.384011485	0.146776845	-3.08439083	
FAM65A	0.38738711	0.146776845	3.116266693	yes
MMRN2	0.384017059	0.146776845	3.084443345	
C4orf29	-0.387410306	0.146776845	-3.116486239	
ADAMTS10	0.387835498	0.146776845	3.120511838	yes
HIST3H3	0.382137703	0.146776845	3.06675957	
NUDT12	-0.385228566	0.146776845	-3.095866819	
UTP23	-0.381680005	0.146776845	-3.062459625	
LCOR	-0.386840148	0.146776845	-3.111091807	yes

TUBB6	0.382122344	0.146776845	3.06661523	yes
FIZ1	0.385564405	0.146776845	3.099036813	
HIST1H2BK	-0.388214617	0.146776845	-3.124103209	
AGPS	-0.381716431	0.146776845	-3.062801748	
EIF3J	-0.38105442	0.146776845	-3.056586702	
SNX21	0.38778719	0.146776845	3.120054353	
SYNGR1	0.38136672	0.146776845	3.05951793	
ZNF670	-0.382857793	0.146776845	-3.07352996	
SDC3	0.383936241	0.146776845	3.083681966	
AHCYL1	-0.376479421	0.147306678	-3.013785435	
VAMP5	0.376732243	0.147306678	3.016143943	
MRPS30	-0.378554289	0.147306678	-3.03316462	
ADCY5	0.378259871	0.147306678	3.030411525	
MED8	-0.376096074	0.147306678	-3.010210782	
ADCYAP1R1	0.377683067	0.147306678	3.025020967	
COL4A1	0.377407798	0.147306678	3.022449872	yes
AASDH	-0.376770295	0.147306678	-3.016498983	
FAM69B	0.377646289	0.147306678	3.024677402	yes
UPRT	-0.376419642	0.147306678	-3.01322788	
FAM76B	-0.377700897	0.147306678	-3.025187536	
C1orf58	-0.376553576	0.147306678	-3.014477128	yes
TMEM56	-0.376455856	0.147306678	-3.013565639	
LOC149643	-0.377133444	0.147306678	-3.019888253	
PAQR3	-0.379341639	0.147306678	-3.040532375	
PPTC7	-0.376327325	0.147306678	-3.012366948	
DBN1	0.376072079	0.147306678	3.009987097	yes
DENND1B	-0.378933984	0.147306678	-3.036716719	
C9orf25	0.375934096	0.147306678	3.008700908	
CIC	0.379439134	0.147306678	3.041445244	
ANP32C	0.376568768	0.147306678	3.01461884	
LOC26010	-0.378025608	0.147306678	-3.028221714	
RNU5F	0.376035198	0.147306678	3.009643292	
GCLC	-0.376335165	0.147306678	-3.012440055	yes

GTF2F2	-0.379043624	0.147306678	-3.037742747	
IPP	-0.376665226	0.147306678	-3.015518679	yes
KIF3C	0.377285113	0.147306678	3.021304262	
LGALS1	0.379571229	0.147306678	3.04268226	
MFG8	0.37603917	0.147306678	3.009680324	
NAP1L4	-0.378284189	0.147306678	-3.030638886	
NEUROD2	0.378426121	0.147306678	3.031965994	
SHANK1	0.37612185	0.147306678	3.010451084	
SNX7	-0.379894852	0.147306678	-3.045713777	
PPHLN1	-0.37720868	0.147306678	-3.020590629	
NLK	-0.377504309	0.147306678	-3.023351209	
PIK3CB	-0.377591668	0.147306678	-3.024167175	
SEP4	0.376795943	0.147306678	3.016738309	yes
ING3	-0.378616735	0.147306678	-3.033748689	
KLHL28	-0.378090931	0.147306678	-3.028832261	
RASIP1	0.376224729	0.147306678	3.011410273	yes
C10orf118	-0.376970609	0.147306678	-3.018368318	
PPP2R2A	-0.377875048	0.147306678	-3.026814684	
KIRREL	0.377066246	0.147306678	3.019260971	
UTP3	-0.377016096	0.147306678	-3.018792866	
RAD23B	-0.376376631	0.147306678	-3.012826752	
RFNG	0.379262076	0.147306678	3.039787501	
RINT1	-0.377172444	0.147306678	-3.020252342	
ACBD3	-0.379561703	0.147306678	-3.042593043	
SLC5A4	0.376799691	0.147306678	3.016773284	
SNORD45C	-0.380096004	0.147306678	-3.047598714	
TMF1	-0.378576019	0.147306678	-3.033367862	
CACNA1C	0.375937678	0.147306678	3.008734295	
CXorf36	0.377791896	0.147306678	3.026037723	
RIN3	0.378977891	0.147306678	3.037127588	
WNT10A	0.37862721	0.147306678	3.033846662	
LOC81691	-0.379793471	0.147306678	-3.044763957	
SGK196	-0.376574467	0.147306678	-3.014671997	

CORO6	0.379712226	0.147306678	3.044002876	
MBD2	-0.375846249	0.147306678	-3.007882182	
PLAA	-0.377492702	0.147306678	-3.023242805	
MTFR1	-0.378392816	0.147306678	-3.031654555	
USP6NL	-0.375801491	0.147306678	-3.007465068	yes
CKAP5	-0.379042547	0.147306678	-3.037732666	
RASEF	-0.37521187	0.147664865	-3.001972591	
RBM34	-0.375275575	0.147664865	-3.002565812	
SLC6A17	0.375304743	0.147664865	3.002837447	yes
SAR1B	-0.375322443	0.147664865	-3.003002282	
PLEKHB2	-0.375576184	0.147664865	-3.005365771	
ZCCHC6	-0.375543059	0.147664865	-3.005057184	
RUSC2	0.375327196	0.147664865	3.003046546	yes
LIAS	-0.374586064	0.147964431	-2.996147674	yes
AP1G1	-0.373788991	0.147964431	-2.988735529	
DES	0.374384783	0.147964431	2.994275192	
PSME4	-0.374107617	0.147964431	-2.991697567	
GGT5	0.374372889	0.147964431	2.994164558	yes
HOXB3	0.374483016	0.147964431	2.995188976	
COPZ2	0.374954284	0.147964431	2.999574434	yes
CD320	0.373744478	0.147964431	2.988321814	
SOX18	0.374560082	0.147964431	2.995905941	
PCBP4	0.373815851	0.147964431	2.988985173	yes
MCOLN1	0.374782336	0.147964431	2.997974037	
KCNK15	0.374414244	0.147964431	2.99454923	
TAGLN	0.373998472	0.147964431	2.990682789	
SNORD75	-0.37382488	0.147964431	-2.989069099	
NRIP1	-0.374075265	0.147964431	-2.991396761	
CASP8	-0.37430467	0.147964431	-2.993530049	
RPPH1	0.374652299	0.147964431	2.996763952	
ACTN1	0.37421884	0.147964431	2.992731823	
CRADD	-0.374379139	0.147964431	-2.994222698	
FAM38A	0.373861078	0.147964431	2.989405565	

EIF4G2	-0.373580319	0.148334849	-2.986796313	yes
ELF1	-0.373212704	0.148472627	-2.983381307	yes
NSMCE2	-0.37325077	0.148472627	-2.98373485	
ARSB	0.373136719	0.148472627	2.982675641	
TFB1M	-0.37324649	0.148472627	-2.9836951	
STK31	-0.373137151	0.148472627	-2.98267965	
OXSR1	-0.373422769	0.148472627	-2.985332529	
CYGB	0.373006045	0.148716647	2.981462237	
PIBF1	-0.372184703	0.148792996	-2.973840223	
WTIP	0.372345669	0.148792996	2.975333334	yes
DLAT	-0.372456052	0.148792996	-2.976357426	yes
EPHB4	0.372569266	0.148792996	2.977407936	
FLT3LG	0.371723399	0.148792996	2.969562895	
PIP5K1C	0.372694607	0.148792996	2.978571152	
RASD2	0.372385859	0.148792996	2.975706191	
PGBD2	-0.372334362	0.148792996	-2.975228442	
PSMC3IP	-0.37174409	0.148792996	-2.969754691	
DNTTIP2	-0.372568348	0.148792996	-2.977399415	
TMEM119	0.371988809	0.148792996	2.97202353	
ILK	0.372858355	0.148792996	2.980091081	
ATP1B1	-0.372774096	0.148792996	-2.979308938	
C20orf111	-0.371770742	0.148792996	-2.970001757	
PODXL	0.372237258	0.148792996	2.974327688	
KIF16B	-0.371954751	0.148792996	-2.97170773	
LST1	0.371720541	0.148792996	2.969536406	
C9orf82	-0.371840825	0.148792996	-2.970651459	
NDEL1	-0.371723591	0.148792996	-2.969564671	
EZH2	-0.371388556	0.148872335	-2.966459749	
NCBP1	-0.371311664	0.148872335	-2.965747342	
RENBP	0.371307742	0.148872335	2.965711007	
ZNF131	-0.371441257	0.148872335	-2.966948064	
CAPNS1	-0.371423449	0.148872335	-2.966783055	
HYAL2	0.371600161	0.148872335	2.968420635	

SLC25A13	-0.370786619	0.14888591	-2.960884689	
PODN	0.37085808	0.14888591	2.96154633	
NACC2	0.370922547	0.14888591	2.96214326	
ADRA2C	0.371207482	0.14888591	2.964782207	yes
HELLS	-0.371012451	0.14888591	-2.962975805	
HSPA14	-0.37084253	0.14888591	-2.961402351	
C1orf103	-0.371145479	0.14888591	-2.964207878	
CA12	-0.371058401	0.14888591	-2.96340136	
ATP6VOE2	0.370335212	0.149119342	2.956706657	
ARID2	-0.370214386	0.149119342	-2.955588763	yes
LNX2	-0.370443463	0.149119342	-2.957708367	
OSTF1	-0.370557974	0.149119342	-2.958768147	
HIST2H2BF	-0.37024675	0.149119342	-2.955888179	
RADIL	0.370247495	0.149119342	2.955895075	
SMO	0.370273919	0.149119342	2.95613955	
FAM104A	-0.370376487	0.149119342	-2.957088587	
RPL18AP6	0.369915477	0.149352472	2.952823954	
PARVB	0.369948805	0.149352472	2.953132171	yes
MAN1C1	0.369771634	0.149352472	2.951493826	
CA11	0.369841165	0.149352472	2.952136754	
POF1B	-0.369743281	0.149352472	-2.951231679	
PLOD3	0.369966487	0.149352472	2.9532957	
DUSP27	0.369710928	0.149352472	2.950932551	
HNRNPM	-0.369580735	0.149611682	-2.949728957	
RMI1	-0.369304242	0.150437342	-2.947173542	
SHC2	0.369239536	0.150444753	2.946575639	
SNORD116-6	0.364279255	0.150614697	2.900887952	
TANK	-0.368280239	0.150614697	-2.937717312	
LOC100131054	0.367190347	0.150614697	2.927666212	
PDCD6	-0.367465461	0.150614697	-2.930202026	
RAMP1	0.365945373	0.150614697	2.916201983	yes
DLEU1	-0.366834905	0.150614697	-2.924391314	
MAP3K7IP1	0.366379979	0.150614697	2.920201959	

VASN	0.368499577	0.150614697	2.939741764	yes
ZNF618	0.363407638	0.150614697	2.892889347	
ATG4A	-0.363331649	0.150614697	-2.892192434	
GIPC3	0.367521795	0.150614697	2.930721388	
NDUFA11	0.369041447	0.150614697	2.944745556	
COL8A1	0.367881117	0.150614697	2.934034941	
AP1S3	-0.367257805	0.150614697	-2.928287916	
C20orf160	0.365556769	0.150614697	2.912627272	yes
MIB2	0.364801953	0.150614697	2.905688838	
PARP4	-0.364540335	0.150614697	-2.903285532	
CSNK1A1	-0.364174558	0.150614697	-2.899926712	yes
CSTF3	-0.362875452	0.150614697	-2.888009922	
TMEM65	-0.368750252	0.150614697	-2.942056136	
DLG4	0.364525535	0.150614697	2.903149594	
LPAR1	-0.363267036	0.150614697	-2.891599899	
ZUFSP	-0.364066396	0.150614697	-2.89893379	
SETD1B	0.365211383	0.150614697	2.909451579	yes
AVL9	-0.367129183	0.150614697	-2.927102571	
FLNA	0.364513649	0.150614697	2.903040429	
ARL6IP1	-0.366993463	0.150614697	-2.925852019	
ANGEL1	0.364988588	0.150614697	2.907403806	
DULLARD	0.368926785	0.150614697	2.943686441	
GABBR1	0.363512928	0.150614697	2.8938551	
MAP3K7IP3	-0.364677669	0.150614697	-2.904547022	yes
IFFO1	0.363280151	0.150614697	2.89172017	
OLFML2B	0.366457621	0.150614697	2.920916778	
PELP1	0.36509046	0.150614697	2.908340073	
KIAA1274	0.36428811	0.150614697	2.90096926	
GPR133	0.368431986	0.150614697	2.939117847	
LOC283398	-0.363222923	0.150614697	-2.891195389	
C3orf23	-0.364546445	0.150614697	-2.903341653	
GRIK2	-0.368864878	0.150614697	-2.943114683	
GSK3B	-0.36645357	0.150614697	-2.920879481	yes

TMOD3	-0.367144673	0.150614697	-2.92724531	yes
LMCD1	0.363480345	0.150614697	2.893556227	yes
ANXA2	-0.362941497	0.150614697	-2.888615284	yes
HIC1	0.363515249	0.150614697	2.893876392	
HPCAL1	0.367599925	0.150614697	2.931441751	
EVX2	0.368117011	0.150614697	2.936211113	yes
ZBTB41	-0.366925966	0.150614697	-2.92523017	
HDDC3	0.363499655	0.150614697	2.893733348	
CA13	-0.366298369	0.150614697	-2.919450676	
SAMD12	-0.368736153	0.150614697	-2.941925953	
C8orf82	0.366965383	0.150614697	2.925593312	yes
MFNG	0.363546921	0.150614697	2.894166922	
MTF1	-0.367803713	0.150614697	-2.933321017	yes
NID1	0.363599515	0.150614697	2.894649407	
ROR2	0.364290939	0.150614697	2.900995234	
PARD6A	0.363087244	0.150614697	2.889951378	
FIS1	0.36410674	0.150614697	2.899304133	
TUBD1	-0.366607357	0.150614697	-2.922295543	
AIG1	-0.363979571	0.150614697	-2.898136844	yes
ANAPC7	-0.367199716	0.150614697	-2.92775256	
ISYNA1	0.368964549	0.150614697	2.944035242	
FAM49B	-0.367011618	0.150614697	-2.926019293	
TRMT6	-0.362874135	0.150614697	-2.887997851	
PIGA	-0.36641853	0.150614697	-2.92055687	
PLCG1	0.363220392	0.150614697	2.891172183	
PRR13	0.363164737	0.150614697	2.890661872	
TET2	-0.368436371	0.150614697	-2.939158325	yes
PRKAA1	-0.364650373	0.150614697	-2.904296278	
SMEK1	-0.366052538	0.150614697	-2.917188087	
SLC2A4RG	0.364920187	0.150614697	2.906775227	
CHMP1B	-0.364023327	0.150614697	-2.898538461	
SEPN1	0.362937241	0.150614697	2.888576278	
PLEKHA4	0.367280712	0.150614697	2.928499042	

PXN	0.365958924	0.150614697	2.916326676	
RAB5A	-0.362832776	0.150614697	-2.887618777	
ZNF350	-0.367021728	0.150614697	-2.926112435	
HIF3A	0.366753974	0.150614697	2.923645845	
RPS18P9	0.363041595	0.150614697	2.889532876	
ARMCX5	-0.363416063	0.150614697	-2.892966623	
RSRC2	-0.367428689	0.150614697	-2.92986304	
SLC12A4	0.365607083	0.150614697	2.913089998	
SLC15A2	-0.367363085	0.150614697	-2.929258292	yes
MTMR9	-0.362966858	0.150614697	-2.888847757	
SNAPC2	0.367193016	0.150614697	2.92769081	yes
TACR1	0.36459899	0.150614697	2.90382428	
ZNF184	-0.363216511	0.150614697	-2.891136599	
C9orf16	0.366407913	0.150614697	2.920459126	
ATHL1	0.365873119	0.150614697	2.9155372	
PLEKHO2	0.364744634	0.150614697	2.905162219	
LBH	0.36367449	0.150614697	2.895337255	
SF3A2	0.36358877	0.150614697	2.894550833	
TCF7L1	0.366356894	0.150614697	2.91998943	
PCBD2	-0.364499912	0.150614697	-2.902914264	
EEA1	-0.368933213	0.150614697	-2.943745811	
TEAD2	0.364116247	0.150614697	2.899391402	
USP38	-0.363926623	0.150614697	-2.897650885	yes
LNX1	-0.364800656	0.150614697	-2.905676923	
LOC84740	0.363014854	0.150614697	2.889287736	
C1orf170	0.363585308	0.150614697	2.894519067	
CAMK1	0.366514043	0.150614697	2.921436284	
WISP1	0.367462277	0.150614697	2.930172671	
SESTD1	-0.36377137	0.150614697	-2.896226163	
ZW10	-0.367025953	0.150614697	-2.926151368	
RAB9P1	0.365146167	0.150614697	2.908852107	
EIF2AK3	-0.367142018	0.150614697	-2.927220844	
VPS4B	-0.366835964	0.150614697	-2.924401063	

N4BP1	-0.367695096	0.150614697	-2.932319322	yes
RAB11FIP3	0.363478874	0.150614697	2.893542736	
GOLGA5	-0.364831111	0.150614697	-2.90595674	
MED31	-0.362710521	0.150872854	-2.886498382	
C10orf18	-0.362623035	0.150991252	-2.885696736	
MAGI2	0.362570816	0.150991252	2.885218283	
SIPA1	0.362446902	0.151256853	2.884083061	
KHDRBS1	-0.36185523	0.151472809	-2.87866495	
SEC24A	-0.362218447	0.151472809	-2.881990559	
TTC39C	-0.361362988	0.151472809	-2.874160406	yes
SLC44A3	-0.361220122	0.151472809	-2.872853539	
YTHDF3	-0.361439449	0.151472809	-2.874859917	
GYPE	0.361230493	0.151472809	2.872948398	
CCDC36	0.361831911	0.151472809	2.878451492	
ITGB5	0.361213384	0.151472809	2.87279191	
LOC401010	0.362182559	0.151472809	2.881661902	
SMAD6	0.361365702	0.151472809	2.874185228	
ADAP2	0.361231218	0.151472809	2.872955032	
APOB48R	0.361364232	0.151472809	2.874171786	
LANCL2	-0.361847878	0.151472809	-2.878597652	
BCCIP	-0.361880952	0.151472809	-2.878900408	
RAP2C	-0.362077664	0.151472809	-2.880701369	
RPL13AP3	0.361297073	0.151472809	2.873557421	
TFE3	0.361530077	0.151472809	2.87568914	
NLRX1	0.361450998	0.151472809	2.874965585	
GGNBP2	-0.361744079	0.151472809	-2.877647554	
BXDC5	-0.361288585	0.151472809	-2.873479771	
MCEE	-0.361418324	0.151472809	-2.874666646	
OXNAD1	-0.361736994	0.151472809	-2.877582713	yes
MORF4L2	-0.36108412	0.151763973	-2.871609687	yes
LOC100133404	0.360964348	0.151879644	2.87051444	yes
IRF2BP1	0.360948364	0.151879644	2.870368286	yes
SLC29A1	0.360499721	0.152283258	2.866267243	

GTPBP4	-0.360475456	0.152283258	-2.866045496	
PGGT1B	-0.360498127	0.152283258	-2.866252675	
FANCI	-0.360726854	0.152283258	-2.86834318	
CCBL2	-0.360577451	0.152283258	-2.866977604	
TPM2	0.360728347	0.152283258	2.868356822	
SLC10A7	-0.360488822	0.152283258	-2.866167645	
C14orf132	0.360369665	0.152487813	2.865078825	
SNORD30	-0.360308049	0.152523945	-2.864515868	
MOC33	-0.360254186	0.152530693	-2.864023769	yes
CDKN1C	0.359699389	0.152854722	2.858957082	
ARFGEF2	-0.359597477	0.152854722	-2.858026744	
PRKCDBP	0.359835212	0.152854722	2.860197162	
JMJD2C	-0.359448823	0.152854722	-2.856669927	
RTF1	-0.359450809	0.152854722	-2.856688049	
IBTK	-0.359694384	0.152854722	-2.858911386	
PABPC1	-0.359909113	0.152854722	-2.860871975	
GNL1	0.359984938	0.152854722	2.861564429	
SLC45A1	0.359723643	0.152854722	2.859178506	yes
AXL	0.359455074	0.152854722	2.856726973	
SNRPD1	-0.359446051	0.152854722	-2.856644621	
CDC23	-0.359515548	0.152854722	-2.857278914	
TBX4	0.359884496	0.152854722	2.860647187	
NPEPPS	-0.35988916	0.152854722	-2.860689771	
FAM108B1	-0.359274777	0.153313553	-2.855081655	
TXNDC9	-0.358652521	0.153418942	-2.84940602	
ADCY3	0.358023681	0.153418942	2.843674757	
PTP4A3	0.358675437	0.153418942	2.849614962	
ERI2	-0.357984108	0.153418942	-2.843314235	
MTERFD2	-0.358316852	0.153418942	-2.846346174	
PUS10	-0.358470617	0.153418942	-2.847747685	
HEBP2	-0.3580397	0.153418942	-2.843820696	yes
SNORD53	-0.358802425	0.153418942	-2.850772903	
TESSP2	0.358448018	0.153418942	2.847541685	

IER5L	0.358164786	0.153418942	2.844960404	
LTBP3	0.358233241	0.153418942	2.845584199	
POLR1D	-0.358288273	0.153418942	-2.846085707	
DYNC1LI1	-0.358085513	0.153418942	-2.844238099	
SS18L2	-0.358515032	0.153418942	-2.848152557	
GFOD1	0.358977217	0.153418942	2.852367043	
CABP4	0.358008446	0.153418942	2.843535955	
CHD8	-0.358370272	0.153418942	-2.846833043	
RPS6KA3	-0.358236894	0.153418942	-2.845617485	
MOP-1	-0.358953885	0.153418942	-2.852154236	
TBX3	0.358341776	0.153418942	2.846573329	
C16orf57	0.358893888	0.153418942	2.851607024	
FLJ14213	0.359175277	0.153418942	2.854173821	
ZNF414	0.35821708	0.153418942	2.845436922	
SCRN2	0.358663018	0.153418942	2.849501721	
NUPL1	-0.358316902	0.153418942	-2.846346629	yes
XRCC4	-0.357926896	0.153447178	-2.842793049	
CYTH3	0.357864548	0.153495209	2.842225118	
RNF166	0.357494271	0.154711901	2.838853137	
SNORD102	-0.357447285	0.154711901	-2.838425365	
COPB1	-0.357378076	0.1547171	-2.83779531	
C2orf29	-0.357346691	0.1547171	-2.837509611	
AQP1	0.357265028	0.154840455	2.83676628	
CLIP1	-0.356918528	0.155793746	-2.833613108	yes
VIP	0.35695837	0.155793746	2.833975606	
LOC116236	0.356568708	0.15581288	2.830431089	
C10orf46	-0.356779968	0.15581288	-2.832352581	yes
RCAN1	0.356598312	0.15581288	2.830700316	
C20orf200	0.356671676	0.15581288	2.83136756	
SLC2A8	0.356850312	0.15581288	2.832992496	
NUP88	-0.356706756	0.15581288	-2.83168663	
ADAMTSL4	0.356581411	0.15581288	2.830546615	
NFE2L2	-0.356408433	0.156242324	-2.828973657	

ITGA5	0.356279022	0.156406085	2.827797091	
PRR16	0.356268089	0.156406085	2.827697692	
TAS2R44	-0.35621245	0.156432058	-2.827191902	
FLOT1	0.356083471	0.156742146	2.826019548	
STAMBP	-0.356019178	0.15680204	-2.825435224	
CCDC75	-0.355962246	0.156833609	-2.824917838	
DHRS9	-0.355457547	0.156909629	-2.820332812	yes
MMAA	-0.355813927	0.156909629	-2.823570118	
ADAMTS15	0.355518583	0.156909629	2.820887156	
ZFP30	-0.355838289	0.156909629	-2.823791471	
HNF4G	-0.35559521	0.156909629	-2.821583157	
TMEM41B	-0.355491459	0.156909629	-2.820640806	
LOC645139	-0.355679852	0.156909629	-2.822352036	
TRPS1	-0.355748668	0.156909629	-2.82297721	
ARRDC4	-0.355657506	0.156909629	-2.822149035	
PPM1F	0.355503931	0.156909629	2.820754084	
IARS	-0.355370206	0.157025055	-2.819539638	
REV1	-0.355331318	0.157025055	-2.81918651	
SEMA4F	0.354607211	0.158162295	2.812614175	
RBCK1	0.354930711	0.158162295	2.815549698	
CHML	-0.354941268	0.158162295	-2.815645514	
SPTY2D1	-0.354680443	0.158162295	-2.813278605	
SERINC5	-0.354471415	0.158162295	-2.811382275	
ERO1L	-0.354483975	0.158162295	-2.811496203	
ERGIC2	-0.354418099	0.158162295	-2.810898667	
MRPS21	-0.354387973	0.158162295	-2.810625418	yes
FBLIM1	0.354271957	0.158162295	2.809573219	
SAPS3	-0.354582476	0.158162295	-2.812389777	yes
RIOK2	-0.354567944	0.158162295	-2.812257936	
NUFIP2	-0.354480877	0.158162295	-2.811468109	yes
CLEC3B	0.354284246	0.158162295	2.809684661	yes
PRR14	0.354777807	0.158162295	2.814162067	
AOC3	0.354828803	0.158162295	2.814624838	

LRRFIP2	-0.354302397	0.158162295	-2.809849281	
POM121	0.354226234	0.158162295	2.809158582	
LCN10	0.354010093	0.158652795	2.807198813	yes
PPARD	0.354005535	0.158652795	2.807157496	
CDH5	0.353672299	0.159032326	2.804137043	
SGOL2	-0.353741064	0.159032326	-2.804760232	
CD93	0.353682166	0.159032326	2.804226464	
ERP44	-0.353706157	0.159032326	-2.804443879	
AGFG1	-0.353803733	0.159032326	-2.805328218	
ACADSB	-0.353543156	0.159093501	-2.802966816	
ZNF805	-0.353468723	0.159093501	-2.802292427	
VTA1	-0.35348998	0.159093501	-2.802485023	yes
WEE1	-0.353575712	0.159093501	-2.803261803	
C6orf174	0.353409447	0.159141942	2.801755413	
AHCYL2	-0.35329455	0.159300318	-2.800714607	
CTDSP1	0.353252883	0.159300318	2.800337191	
USP7	-0.353228554	0.159300318	-2.800116837	
SSX3	0.352715681	0.159416505	2.795473032	
CEBPG	-0.352841082	0.159416505	-2.796608209	
TMEM182	-0.352679371	0.159416505	-2.795144373	
ELN	0.352594869	0.159416505	2.794379561	
CBX7	0.352517719	0.159416505	2.793681362	
LOC285550	-0.352954897	0.159416505	-2.79763865	
ZNF643	0.353036367	0.159416505	2.798376345	
CLDN5	0.352662972	0.159416505	2.794995946	
DAP3	-0.352459986	0.159416505	-2.793158924	yes
GSDMD	0.352365562	0.159416505	2.79230454	
NARG1	-0.352516591	0.159416505	-2.793671157	
PCGF6	0.352401847	0.159416505	2.792632847	
LZTS2	0.35313572	0.159416505	2.799276058	
FNDC1	0.352520942	0.159416505	2.79371053	
HDGF2	0.352623355	0.159416505	2.79463738	
MFSD9	-0.353094452	0.159416505	-2.798902334	

CENPL	-0.352441085	0.159416505	-2.792987891	
C14orf43	0.352934441	0.159416505	2.797453437	
SNORD116-4	0.351703377	0.159418447	2.786315588	
C17orf69	-0.351884785	0.159418447	-2.787955806	
UBXN4	-0.352056717	0.159418447	-2.78951068	
GNL3	-0.35204574	0.159418447	-2.789411399	
GTPBP8	-0.351765147	0.159418447	-2.786874047	
FOXI2	0.351894033	0.159418447	2.788039435	
MRPL30	-0.351681837	0.159418447	-2.786120853	
TERF2IP	-0.351719475	0.159418447	-2.786461122	
MUDENG	-0.351682586	0.159418447	-2.786127622	yes
S100A10	-0.352142939	0.159418447	-2.790290556	
SHB	0.352084867	0.159418447	2.789765285	
THOP1	0.352178189	0.159418447	2.790609415	
XRCC5	-0.351843591	0.159418447	-2.787583316	
MIS12	-0.352127469	0.159418447	-2.790150624	yes
COL18A1	0.352024838	0.159418447	2.789222356	
ASB7	-0.351578247	0.159494722	-2.785184416	
PCGF2	0.351571862	0.159494722	2.7851267	
LMOD1	0.351307028	0.159823874	2.782733195	
PIGW	-0.351313328	0.159823874	-2.782790127	
RARS2	-0.351406704	0.159823874	-2.783633948	
TCEB3	-0.351390396	0.159823874	-2.783486571	
SIVA1	0.351190952	0.159992432	2.781684372	
C2orf7	0.351173868	0.159992432	2.781530017	
LOC100130019	-0.351091859	0.160001646	-2.780789111	
C1orf107	-0.351081799	0.160001646	-2.780698227	
MARCH5	-0.35092984	0.160419379	-2.779325572	
MEGF6	0.350835745	0.160611966	2.778475737	
C4orf34	-0.350744529	0.160793613	-2.777651996	
METT5D1	-0.35068107	0.160866994	-2.777078962	
DAPK3	0.35057501	0.161107238	2.776121354	
MRC2	0.350455206	0.161401769	2.775039793	yes

IL2	0.35031619	0.161422893	2.77378499	
OAT	-0.350382205	0.161422893	-2.774380839	
DDX46	-0.350345345	0.161422893	-2.774048135	
KCNK1	-0.350220102	0.161521013	-2.772917796	
SNORA36A	0.350157899	0.161521013	2.772356459	
TLE2	0.350175271	0.161521013	2.772513226	
HBII-52-27	0.35004685	0.161527024	2.771354431	
PCDHGA5	0.350023478	0.161527024	2.771143559	
TMEM185B	0.350045901	0.161527024	2.771345868	
RANBP9	-0.349889265	0.161626881	-2.769932728	
C16orf63	-0.349679809	0.161626881	-2.768043475	
FGD5	0.349408657	0.161626881	2.765598431	
CALML6	0.349389757	0.161626881	2.765428034	
APLNR	0.348869524	0.161626881	2.760739283	
SDR16C5	-0.349348269	0.161626881	-2.765054003	
DAAM2	0.348881224	0.161626881	2.760844697	yes
MORC3	-0.348775273	0.161626881	-2.759890133	
SGEF	-0.349714232	0.161626881	-2.76835393	
HOXB6	0.349540793	0.161626881	2.766789832	yes
LOC387825	0.34892803	0.161626881	2.761266443	
SULT6B1	0.34939679	0.161626881	2.765491437	
OSBP	-0.348797457	0.161626881	-2.76008999	
C14orf129	-0.349514696	0.161626881	-2.766554517	
RTEL1	0.349696515	0.161626881	2.768194139	
PHKA1	-0.349184116	0.161626881	-2.763574282	
REST	-0.349852236	0.161626881	-2.769598703	
RGS3	0.349049717	0.161626881	2.762362995	
SRL	0.349208933	0.161626881	2.763797977	
CCDC90A	-0.34920045	0.161626881	-2.763721508	
SNORA5C	0.349405968	0.161626881	2.765574184	
SPATA5L1	-0.349126187	0.161626881	-2.763052171	
TMEM14B	-0.348835519	0.161626881	-2.760432906	yes
DUSP11	-0.349183525	0.161626881	-2.763568957	

EIF2B2	-0.349079507	0.161626881	-2.762631461	
USP10	-0.348997616	0.161626881	-2.761893477	yes
VPS26A	-0.348781582	0.161626881	-2.759946969	
USP3	-0.348889605	0.161626881	-2.760920218	
SH2D3C	0.348450726	0.161971551	2.756966856	
TSPYL3	0.348528615	0.161971551	2.757668317	
HTRA2	0.348555467	0.161971551	2.757910163	
TBC1D8B	-0.348398686	0.161971551	-2.756498228	
EED	-0.348499192	0.161971551	-2.757403332	
MYOCD	0.348386193	0.161971551	2.75638573	
CTR9	-0.348549601	0.161971551	-2.757857329	
PACS2	0.348211172	0.162349899	2.754809856	
SLC9A8	-0.348173044	0.162349899	-2.754466601	
C5orf43	-0.348131582	0.162349899	-2.754093347	
TMEM156	-0.348118353	0.162349899	-2.753974267	
PBRM1	-0.348032637	0.16235136	-2.753202689	yes
SHCBP1	-0.348057259	0.16235136	-2.75342432	
UNQ565	-0.347368503	0.162812549	-2.747227157	
JARID1B	-0.347582517	0.162812549	-2.749152234	
CYP2C18	-0.347816538	0.162812549	-2.751257825	
GRASP	0.347018423	0.162812549	2.744079214	yes
SPIN3	0.346956837	0.162812549	2.74352557	
N6AMT2	-0.347288288	0.162812549	-2.746505747	
COTL1	0.347500129	0.162812549	2.74841109	
C10orf28	-0.3475062	0.162812549	-2.748465698	
GSPT1	-0.34778988	0.162812549	-2.751017944	
C15orf38	0.347775644	0.162812549	2.750889847	
ZNF321	-0.346904578	0.162812549	-2.743055792	
MAP3K4	-0.34686045	0.162812549	-2.742659142	
P2RX7	0.347079195	0.162812549	2.744625588	
TDP1	-0.346880986	0.162812549	-2.742843732	yes
MCTP2	-0.347134433	0.162812549	-2.74512224	
C3orf14	-0.346894932	0.162812549	-2.742969085	

ZSWIM6	-0.347395215	0.162812549	-2.74746741	
MCCC2	-0.346872688	0.162812549	-2.742769139	
GZF1	-0.346998347	0.162812549	-2.74389873	
STIL	-0.347304525	0.162812549	-2.746651773	
SNORD59B	-0.347618903	0.162812549	-2.749479579	
TMOD1	0.34703074	0.162812549	2.744189948	
TPP2	-0.347072998	0.162812549	-2.744569873	
SELI	-0.347394692	0.162812549	-2.747462706	
B4GALT4	-0.346919123	0.162812549	-2.743186539	
EXOSC9	-0.346765755	0.163019878	-2.741808021	
OSBPL3	-0.346672671	0.163087619	-2.740971471	yes
FLJ45717	0.346665144	0.163087619	2.740903827	
BTBD10	-0.346557664	0.163345666	-2.739938028	
INTS9	-0.346465084	0.163545675	-2.739106217	
MPHOSPH9	-0.345995196	0.163556871	-2.734885755	
ESCO1	-0.346179266	0.163556871	-2.736538762	
C5orf37	-0.34594761	0.163556871	-2.734458481	
SRPX2	-0.345840526	0.163556871	-2.733497051	
C11orf54	-0.346358244	0.163556871	-2.738146388	
GTF2E2	-0.345952291	0.163556871	-2.734500505	yes
SMAD7	0.345677205	0.163556871	2.732030939	
CITED1	0.345638121	0.163556871	2.731680135	
MBD3	0.345962633	0.163556871	2.734593365	
FBXO34	-0.345853472	0.163556871	-2.733613271	
LGR4	-0.346017188	0.163556871	-2.73508323	
GPAM	-0.345753063	0.163556871	-2.732711873	
SLC26A6	0.345710292	0.163556871	2.732327933	
TYROBP	0.346020034	0.163556871	2.735108788	
EFHD1	0.345759256	0.163556871	2.73276746	
CBR4	-0.345776292	0.163556871	-2.732920396	
KRIT1	-0.346223855	0.163556871	-2.736939244	
TAF1A	-0.345711149	0.163556871	-2.732335632	
UBE2M	0.346323627	0.163556871	2.737835427	

UTP14C	-0.346184298	0.163556871	-2.736583958	
C18orf25	-0.34548666	0.16367057	-2.730320804	
EPN1	0.345518374	0.16367057	2.730605406	
TAF9	-0.345507969	0.16367057	-2.730512032	
UCHL5	-0.345318571	0.164169663	-2.728812532	
ADK	-0.345061983	0.16417162	-2.726510717	
GLUD1	-0.345141021	0.16417162	-2.727219682	
PGM2L1	-0.345193169	0.16417162	-2.727687481	yes
RBM27	-0.345067759	0.16417162	-2.726562527	
RBBP6	-0.345033766	0.16417162	-2.726257628	
LOC728115	-0.345265056	0.16417162	-2.728332393	
CCDC28B	0.345147239	0.16417162	2.727275458	
COL16A1	0.344594138	0.164391153	2.72231554	
EFCAB3	0.344688849	0.164391153	2.723164634	
ZNF775	0.344895786	0.164391153	2.725020164	yes
LMO7	-0.344728876	0.164391153	-2.723523505	
MYO6	-0.344534322	0.164391153	-2.721779333	yes
GOLPH3L	-0.344537034	0.164391153	-2.721803643	yes
RAB27A	-0.34454972	0.164391153	-2.721917362	
SPI1	0.344635964	0.164391153	2.722690503	
MRP63	-0.344781027	0.164391153	-2.7239911	yes
KALRN	0.344669137	0.164391153	2.722987906	
ARHGAP12	-0.344604875	0.164391153	-2.722411798	
TMSB15A	0.344331522	0.16489806	2.719961664	
OFCC1	0.344324948	0.16489806	2.719902748	
DIS3	-0.344212783	0.165024077	-2.718897626	
NT5C	0.34423919	0.165024077	2.719134253	
CRIP1	-0.34416507	0.165054387	-2.718470101	
N4BP2	-0.344057742	0.165088936	-2.717508498	
TPR	-0.344036466	0.165088936	-2.717317894	
SLC39A13	0.344090667	0.165088936	2.717803479	
NPDC1	0.343782895	0.165816709	2.715046561	yes
PPP1R9B	0.343771896	0.165816709	2.714948052	

CHD7	-0.343681851	0.166014856	-2.714141662	yes
UBE2W	-0.343629528	0.166064283	-2.713673125	
LOC100132394	0.343520396	0.166219302	2.712695965	
NRAS	-0.343455501	0.166219302	-2.712114961	
POLR2H	-0.343431371	0.166219302	-2.711898945	yes
TMEM87B	-0.343473182	0.166219302	-2.712273258	
RPL31	-0.343326717	0.16647621	-2.710962098	
C14orf126	-0.343051438	0.166518975	-2.708498398	
LRRC8B	-0.343039214	0.166518975	-2.708389007	yes
NOVA2	0.343234464	0.166518975	2.710136356	
DDX47	-0.343213509	0.166518975	-2.709948808	
PSMA4	-0.343172768	0.166518975	-2.70958418	
FAHD1	-0.343066448	0.166518975	-2.708632708	
ANKRD32	-0.343044962	0.166518975	-2.708440446	
C5orf48	0.342924598	0.166816432	2.707363466	
SUPT16H	-0.342747893	0.167006857	-2.705782632	
CHEK2	-0.34254705	0.167006857	-2.703986257	
RNF141	-0.34269273	0.167006857	-2.705289202	
USP53	-0.342471241	0.167006857	-2.703308316	
FBXL12	0.342468964	0.167006857	2.703287954	
C1orf27	-0.342623147	0.167006857	-2.704666683	
KIAA1370	-0.34253309	0.167006857	-2.703861411	
RASGRF2	0.342568937	0.167006857	2.704182001	
SNTA1	0.342576125	0.167006857	2.704246285	yes
CAPN2	-0.342445051	0.167006857	-2.703074121	
MED17	-0.342793105	0.167006857	-2.70618708	
FANCD2	-0.342312294	0.167377966	-2.701887088	
NTHL1	0.342210469	0.167627046	2.700976752	
NAALADL1	0.341934196	0.167644738	2.698507368	
PAIP1	0.341405339	0.167644738	2.693782546	
KLHL2	-0.340732745	0.167644738	-2.687777763	
LRRC3B	0.340832058	0.167644738	2.688664115	
COL13A1	0.342025795	0.167644738	2.699326016	

CSF1	0.340836685	0.167644738	2.688705413	
CDAN1	0.341176048	0.167644738	2.691734955	
DDX3X	-0.340953339	0.167644738	-2.689746668	yes
CLN8	-0.341642377	0.167644738	-2.695899898	
WDR43	-0.341207544	0.167644738	-2.692016185	
METAP1	-0.341586074	0.167644738	-2.695396909	
ANGPTL2	0.340746957	0.167644738	2.68790459	
CXorf23	-0.340586076	0.167644738	-2.686468946	
THUMPD3	-0.341768737	0.167644738	-2.697028843	
TIPRL	-0.341979167	0.167644738	-2.698909277	
GSTM5	0.342087427	0.167644738	2.699876882	
ICAM2	0.340833958	0.167644738	2.688681069	
POL3S	0.340556911	0.167644738	2.686208719	
FOXK2	0.340773973	0.167644738	2.688145699	
ITGAM	0.340587863	0.167644738	2.68648489	
JUND	0.341592445	0.167644738	2.695453831	
KIF7	0.341579625	0.167644738	2.6953393	
C6orf120	-0.341543178	0.167644738	-2.695013726	
FAM148B	0.341188374	0.167644738	2.691845018	
NME3	0.341264852	0.167644738	2.692527925	
HDAC7	0.341884904	0.167644738	2.698066871	
TRIM33	-0.341319169	0.167644738	-2.693012978	
FNBP1L	-0.341622159	0.167644738	-2.695719271	
LRRC40	-0.340610534	0.167644738	-2.686687183	
GJC2	0.341245174	0.167644738	2.692352205	
RNF2	-0.341503146	0.167644738	-2.694656141	yes
RPL4P4	-0.340595943	0.167644738	-2.686556991	
ST13	-0.341852398	0.167644738	-2.697776396	
NR2F1	0.341112489	0.167644738	2.691167465	
THRB	-0.340758948	0.167644738	-2.688011609	
FASTKD3	-0.341181892	0.167644738	-2.691787141	
C1orf89	0.340946958	0.167644738	2.689689707	
CALCB	0.340981679	0.167644738	2.689999648	

ABTB1	0.342148496	0.167644738	2.700422755	
YIPF5	-0.34174373	0.167644738	-2.696805408	
C16orf13	0.341732778	0.167644738	2.696707555	
KCNQ4	0.342105717	0.167644738	2.700040366	
PUM1	-0.340908376	0.167644738	-2.689345308	
SNORD116-29	0.340322075	0.167686208	2.684113673	
AEBP2	-0.340211732	0.167686208	-2.683129468	
SNORD80	-0.340395375	0.167686208	-2.684767541	
GTF2B	-0.340170726	0.167686208	-2.682763741	
LOC407835	0.340388383	0.167686208	2.684705166	
C2orf56	-0.340415602	0.167686208	-2.684947991	
LPPR2	0.340255781	0.167686208	2.683522348	
CPEB4	-0.340172001	0.167686208	-2.682775112	
BLZF1	-0.340332626	0.167686208	-2.684207792	
CDC25B	0.340182676	0.167686208	2.682870318	
DAB2IP	0.339517577	0.167768959	2.676940796	
TSNARE1	0.340102689	0.167768959	2.682156973	
FOXF2	0.339683778	0.167768959	2.6784221	
NIACR1	0.339631476	0.167768959	2.677955915	
PALM	0.339560795	0.167768959	2.677325962	
PCOLCE	0.339863392	0.167768959	2.680023257	
HCFC1R1	0.3395688	0.167768959	2.677397305	
ARMC1	-0.339703512	0.167768959	-2.678597997	
RBM41	-0.340025575	0.167768959	-2.681469315	
SMARCC1	-0.339949857	0.167768959	-2.680794169	
TMEM204	0.339957436	0.167768959	2.680861744	
FAR1	-0.339535895	0.167768959	-2.677104048	
CUL4A	-0.339827228	0.167768959	-2.679700846	
PRKRA	-0.339538806	0.167768959	-2.677129992	
CCND3	0.339738363	0.167768959	2.678908661	
GGTLC2	0.339880706	0.167768959	2.680177618	
TGS1	-0.339709196	0.167768959	-2.678648666	
SLMO2	-0.339478951	0.167775617	-2.676596582	yes

C19orf71	0.339397129	0.16778218	2.675867461	
CD2AP	-0.339350973	0.16778218	-2.675456192	
C1GALT1	-0.339329822	0.16778218	-2.675267736	
SNX16	-0.339351553	0.16778218	-2.675461364	
CDK8	-0.338892591	0.167849663	-2.671373033	
RPL23AP7	0.338953085	0.167849663	2.671911775	
CD200R1	-0.338419183	0.167849663	-2.667158278	
EIF2S3	-0.338336465	0.167849663	-2.666422078	
SERPINB1	-0.338647761	0.167849663	-2.669193026	
FAM185A	-0.338347819	0.167849663	-2.666523125	
DOPEY1	-0.339013439	0.167849663	-2.672449312	yes
IPMK	-0.338572917	0.167849663	-2.668526726	yes
LHX6	0.338352451	0.167849663	2.666564346	
TUSC1	0.338842428	0.167849663	2.670926327	
ZNF260	-0.338427533	0.167849663	-2.667232595	
ZNF662	0.338378063	0.167849663	2.666792298	
TXNDC12	-0.338915592	0.167849663	-2.671577874	
SLC15A3	0.33843119	0.167849663	2.667265152	
AFTPH	-0.338389113	0.167849663	-2.666890646	yes
WHSC1L1	-0.338324784	0.167849663	-2.666318117	
ZNF280C	-0.338743362	0.167849663	-2.670044199	
METTL2B	-0.339183226	0.167849663	-2.673961696	
REXO1	0.338528784	0.167849663	2.668133858	yes
BAI2	0.338964817	0.167849663	2.672016266	
RAB3A	0.338348551	0.167849663	2.666529642	
MAPK12	0.338292564	0.167849663	2.666031373	
DKFZP779L1853	-0.338839604	0.167849663	-2.670901176	
VAMP2	0.339210514	0.167849663	2.674204789	
CASP3	-0.338689286	0.167849663	-2.669562728	
MAP4K3	-0.338340007	0.167849663	-2.666453601	
SERPINB11	-0.338982641	0.167849663	-2.672175005	
EIF5B	-0.339054357	0.167849663	-2.672813758	
C14orf101	-0.338220069	0.167992758	-2.665386251	

COPZ1	-0.338149129	0.16812992	-2.664755014	
LARP4	-0.337992822	0.168525135	-2.663364345	
SLC17A5	-0.337935852	0.168525135	-2.662857538	
PCIF1	0.337920971	0.168525135	2.662725162	
PPAPDC3	0.33786886	0.168525135	2.66226162	
PPIL4	-0.337879965	0.168525135	-2.662360406	
ADRA1D	0.337815382	0.168594386	2.661785955	
SPERT	0.337667771	0.168779588	2.660473146	
KIF5B	-0.337667463	0.168779588	-2.660470404	
MAN2A2	0.337534237	0.168779588	2.659285728	
MYL2	0.33749242	0.168779588	2.658913914	
PIN4	-0.337543789	0.168779588	-2.659370663	
ZFP62	-0.337535331	0.168779588	-2.659295456	
SRPK1	-0.337482177	0.168779588	-2.658822849	
PUS3	-0.337599219	0.168779588	-2.659863542	
SNORD115-38	0.337345806	0.16889563	2.657610462	
MKL1	0.337346499	0.16889563	2.657616617	
CCNC	-0.337388316	0.16889563	-2.657988365	
GIN1	-0.337212394	0.169281185	-2.656424559	
ERLIN1	-0.337066071	0.169343272	-2.655124103	yes
NUP50	-0.336898647	0.169343272	-2.653636379	
LCAT	0.337030483	0.169343272	2.654807852	
MSX1	0.336877442	0.169343272	2.653447976	
MT1M	0.337008989	0.169343272	2.654616844	
VPS54	-0.336900202	0.169343272	-2.653650202	
FAM60A	-0.336912225	0.169343272	-2.653757025	yes
VWF	0.336990201	0.169343272	2.654449892	
WHSC1	-0.337131983	0.169343272	-2.655709876	
hCG_1644301	0.336657168	0.169790287	2.651491105	
GRSF1	-0.336631531	0.169790287	-2.65126338	
GSTM2	0.336636009	0.169790287	2.651303156	
C11orf83	0.336622913	0.169790287	2.651186838	
INTS10	-0.336567251	0.169870896	-2.650692442	

PAXIP1	-0.336337754	0.170082607	-2.648654364	
ATP11B	-0.336462108	0.170082607	-2.649758636	
ORC6L	-0.336432686	0.170082607	-2.64949736	
SEC61A2	-0.33636316	0.170082607	-2.648879959	
ADAM15	0.336363769	0.170082607	2.648885373	
SLC36A4	-0.336255162	0.170188241	-2.647921026	
NCDN	0.336208445	0.170188241	2.64750626	
EGLN1	0.336170721	0.170188241	2.647171346	
PYROXD1	-0.336204458	0.170188241	-2.647470863	
ZNF616	-0.336096963	0.170341434	-2.646516564	
CAPRIN1	-0.336048444	0.170394926	-2.646085872	
ACCN4	0.335919812	0.170566761	2.644944152	
H2AFY	-0.335900169	0.170566761	-2.644769816	yes
STARD8	0.335931498	0.170566761	2.645047865	
POP4	-0.335720519	0.171140513	-2.643175582	
ARFIP1	-0.335675085	0.171182346	-2.642772441	
DARC	0.335639227	0.171186253	2.642454292	
GJC1	0.335435189	0.171305174	2.640644193	
C1QTNF2	0.335415875	0.171305174	2.640472865	
CRTC1	0.335304775	0.171305174	2.639487457	yes
FAM19A5	0.33541168	0.171305174	2.640435656	
KIAA1279	-0.335360842	0.171305174	-2.639984734	yes
SYNJ2BP	-0.335517684	0.171305174	-2.641375982	
RPL28	-0.335306269	0.171305174	-2.639500707	
ATG3	-0.335450594	0.171305174	-2.640780843	
OSBPL2	-0.335296482	0.171305174	-2.639413904	
OLFM2	0.335225707	0.171448621	2.638786231	
TIGD5	0.335139263	0.171654499	2.638019664	
FLJ36070	0.335063231	0.171759795	2.637345481	
FZD4	0.335043602	0.171759795	2.637171444	
HMBOX1	-0.335001588	0.171789462	-2.636798941	
LRP5L	0.334871377	0.172170193	2.635644574	
PRRC1	-0.334327282	0.172211471	-2.630822824	

DNAJC21	-0.33455323	0.172211471	-2.632824806	
C19orf25	0.334506931	0.172211471	2.632414541	
DMWD	0.334313833	0.172211471	2.630703675	
LACE1	-0.334456663	0.172211471	-2.631969121	
IL11RA	0.334648525	0.172211471	2.633669311	
TMPRSS9	0.334571014	0.172211471	2.632982398	
PPP2CA	-0.33424334	0.172211471	-2.630079189	
SCYL2	-0.334475059	0.172211471	-2.632132125	
PLXDC1	0.334417099	0.172211471	2.631618567	
ACTR3B	-0.334401995	0.172211471	-2.631484746	
TRMT5	-0.334789663	0.172211471	-2.634920233	
RALA	-0.334388909	0.172211471	-2.631368811	
TRAPPC10	-0.334800701	0.172211471	-2.635018078	
ZYX	0.334267884	0.172211471	2.630296613	
CROCCL1	0.334632104	0.172211471	2.633523779	
BUB3	-0.334391188	0.172211471	-2.631389	
PLCH2	0.334288859	0.172211471	2.630482427	
SNORD115-3	0.33383751	0.172217323	2.626485008	
SNORA70B	-0.33307956	0.172217323	-2.619776719	
PGRMC2	-0.333293771	0.172217323	-2.62167203	
MSL3	-0.333411399	0.172217323	-2.622712978	yes
PWP1	-0.333502686	0.172217323	-2.623520921	
PDCD10	-0.33265893	0.172217323	-2.616056367	
CYP2R1	-0.333766948	0.172217323	-2.62586025	
C18orf19	-0.333011729	0.172217323	-2.619176657	
CNN1	0.333012355	0.172217323	2.619182189	
VPS37A	-0.332832252	0.172217323	-2.617589141	
SLC30A7	-0.334036329	0.172217323	-2.628245618	
CTNNA1	-0.333025975	0.172217323	-2.61930268	
LOC150197	0.333499522	0.172217323	2.623492916	
C8orf37	-0.332932647	0.172217323	-2.618477116	
PI16	0.333073322	0.172217323	2.619721528	
ELL2	-0.334097964	0.172217323	-2.628791499	

AOF2	-0.332890429	0.172217323	-2.61810369	
SH2B1	0.333852238	0.172217323	2.626615415	
HEYL	0.332875688	0.172217323	2.61797331	
SEC22A	-0.33384127	0.172217323	-2.626518306	
WDR51B	-0.333075183	0.172217323	-2.619737994	yes
GTF2E1	-0.332876986	0.172217323	-2.617984794	
HAS1	0.332906882	0.172217323	2.618249221	yes
ANXA2P2	-0.334048333	0.172217323	-2.62835193	yes
HOXA4	0.333408917	0.172217323	2.62269101	
C2orf46	0.333516226	0.172217323	2.623640763	
KRT26	0.333849114	0.172217323	2.626587757	
ORC4L	-0.333236253	0.172217323	-2.621163068	
UBE2J1	-0.334041443	0.172217323	-2.628290912	
SIRT6	0.332597923	0.172217323	2.615516924	
PRMT6	-0.333810658	0.172217323	-2.626247253	
LINS1	-0.332612734	0.172217323	-2.615647886	
ZNF823	-0.333127155	0.172217323	-2.620197791	yes
CRAMP1L	0.333541043	0.172217323	2.623860422	
KIAA1468	-0.332940574	0.172217323	-2.618547234	yes
SH2D4A	-0.33268617	0.172217323	-2.616297241	
TFB2M	-0.332783112	0.172217323	-2.617154542	
HS1BP3	0.333824477	0.172217323	2.626369612	
SLC26A10	0.332762909	0.172217323	2.616975872	yes
RERGL	0.332858415	0.172217323	2.61782054	
UBTD1	0.33264483	0.172217323	2.615931692	
TMEM62	-0.33322547	0.172217323	-2.621067664	
HIST1H4A	0.332911753	0.172217323	2.618292299	
CUL3	-0.33408066	0.172217323	-2.628638236	
RNGTT	-0.334094227	0.172217323	-2.6287584	
C16orf45	0.3327449	0.172217323	2.616816602	
KIFC2	0.33265387	0.172217323	2.616011624	
CCPG1	-0.333752763	0.172217323	-2.625734664	
GCC2	-0.333582577	0.172217323	-2.624228066	

LSG1	-0.332547567	0.172285989	-2.615071693	
RAB35	0.332486925	0.172340526	2.614535544	
RAB2A	-0.332467849	0.172340526	-2.614366891	
SNORD116-8	0.33185096	0.172377111	2.608915026	
LOC100128922	-0.331734653	0.172377111	-2.607887569	
CCL26	0.331966392	0.172377111	2.609934897	
KATNA1	-0.332145229	0.172377111	-2.611515211	yes
MAL2	-0.332162359	0.172377111	-2.611666603	yes
C4orf32	0.331818354	0.172377111	2.608626976	
C1orf211	0.332004504	0.172377111	2.610271652	
ADSS	-0.331684586	0.172377111	-2.607445317	
ZNF676	0.332372615	0.172377111	2.613525004	
SSBP4	0.331690227	0.172377111	2.607495141	
OBSL1	0.332233256	0.172377111	2.612293192	
HSPA8	-0.331985193	0.172377111	-2.610101013	
ILF2	-0.331731382	0.172377111	-2.607858676	
FLJ44674	0.332045162	0.172377111	2.610630919	
MCAM	0.332327021	0.172377111	2.613121969	
MEOX1	0.331609145	0.172377111	2.606778972	
GIMAP6	0.331812232	0.172377111	2.608572889	
OTC	0.331672089	0.172377111	2.60733493	
SEMA5B	0.331973405	0.172377111	2.609996861	
RNF111	-0.332184907	0.172377111	-2.611865878	
LRFN3	0.331641449	0.172377111	2.607064296	
C3orf39	0.331984234	0.172377111	2.610092545	
CBLB	-0.331776547	0.172377111	-2.608257647	yes
PNPT1	-0.33205224	0.172377111	-2.610693462	
TRIP11	-0.331750639	0.172377111	-2.608028778	
FADS2	0.331969117	0.172377111	2.609958972	
LOC100128233	0.330999324	0.17269869	2.601394728	
LOC100130401	-0.330825091	0.17269869	-2.599857059	
LOC100131373	0.330704872	0.17269869	2.598796253	
UNQ1829	-0.329802397	0.17269869	-2.590837428	

YME1L1	-0.330347132	0.17269869	-2.595640429	
PNKP	0.330010454	0.17269869	2.592671546	
TMC6	0.330615241	0.17269869	2.59800545	
MYOM3	0.330862332	0.17269869	2.600185696	
ZBTB46	0.330106696	0.17269869	2.593520114	
UNC45B	0.330017924	0.17269869	2.592737411	yes
DUSP3	0.330694095	0.17269869	2.598701166	
CCDC107	0.330239467	0.17269869	2.594690901	
FAM83B	-0.331432913	0.17269869	-2.605222603	
CASP14	0.330858422	0.17269869	2.600151194	
FBXO10	0.329744623	0.17269869	2.590328191	yes
AP3M1	-0.330351263	0.17269869	-2.595676866	
GPD2	-0.329865552	0.17269869	-2.591394117	
OLA1	-0.331413429	0.17269869	-2.605050552	
RPS2P11	0.330682833	0.17269869	2.598601799	
INHBA	0.330672357	0.17269869	2.598509367	
LGALS3	-0.330190885	0.17269869	-2.594262482	yes
LLGL1	0.329766345	0.17269869	2.590519647	
MMP16	0.330828329	0.17269869	2.599885632	
MTIF2	-0.329973892	0.17269869	-2.592349207	
MYO1D	-0.330879358	0.17269869	-2.600335955	
ATP2B1	-0.330266998	0.17269869	-2.594933696	
LOC100133420	0.330432125	0.17269869	2.596390083	
TAS2R3	-0.330619786	0.17269869	-2.598045547	
GLOD4	-0.330502746	0.17269869	-2.597013032	
DERA	-0.330565786	0.17269869	-2.597569152	
CERCAM	0.329758295	0.17269869	2.590448697	
INPP5K	0.330968437	0.17269869	2.601122119	
CCDC25	-0.330495741	0.17269869	-2.596951243	
WDR41	-0.329854148	0.17269869	-2.591293595	
FAM178A	-0.330052039	0.17269869	-2.593038196	
EXOC1	-0.33093017	0.17269869	-2.600784384	
HTRA1	0.330070188	0.17269869	2.593198207	yes

C12orf5	-0.330508891	0.17269869	-2.597067243	
SCAF1	0.330080504	0.17269869	2.593289173	
RABGGTB	-0.32976993	0.17269869	-2.590551246	
RARRES2	0.32976207	0.17269869	2.590481974	
ZDHHC6	-0.330307396	0.17269869	-2.595289977	
hCG_1793639	0.330174187	0.17269869	2.594115233	
C1QC	0.330253961	0.17269869	2.594818717	
TSG101	-0.330341513	0.17269869	-2.595590867	
LOC727726	-0.33093843	0.17269869	-2.600857285	
ZNF74	0.33046511	0.17269869	2.596681043	
CDC73	-0.330583144	0.17269869	-2.597722287	
WDR26	-0.330175003	0.17269869	-2.594122426	yes
THUMPD2	-0.331058391	0.17269869	-2.601916082	
MARVELD1	0.33058233	0.17269869	2.597715105	
ULK1	0.331386928	0.17269869	2.604816546	
RAB2B	-0.330509789	0.17269869	-2.597075162	yes
SUCLA2	-0.330591833	0.17269869	-2.597798942	
ASH2L	-0.329766977	0.17269869	-2.59052522	
KIAA0415	0.330026183	0.17269869	2.592810226	
FAM177A1	-0.329591827	0.173176909	-2.588981574	
SNORD116-25	0.327870912	0.173279015	2.573830598	yes
SNORD115-32	0.328236561	0.173279015	2.577047367	
RTN3	-0.328488944	0.173279015	-2.579268454	
RPP38	-0.329350181	0.173279015	-2.586852376	
CCT6B	-0.327861492	0.173279015	-2.57374774	
DDX52	-0.328889341	0.173279015	-2.582793386	
LDB3	0.327776326	0.173279015	2.57299869	
GALNT5	-0.328142077	0.173279015	-2.576216026	
FAM54A	-0.328632247	0.173279015	-2.580529854	
OSBPL11	-0.329281891	0.173279015	-2.586250766	
ERCC8	-0.327721804	0.173279015	-2.5725192	
TMIGD2	0.328492439	0.173279015	2.579299212	
DYNC1LI2	-0.329393728	0.173279015	-2.587236042	

NID2	0.327728495	0.173279015	2.572578041	
SACM1L	-0.328217634	0.173279015	-2.576880827	
CNOT1	-0.328258638	0.173279015	-2.577241631	yes
FAM175B	-0.328703244	0.173279015	-2.581154866	
ANKRD28	-0.328681922	0.173279015	-2.580967162	
ZNF629	0.328414967	0.173279015	2.578617354	
NAALADL2	-0.327958551	0.173279015	-2.574601479	
FAM98A	-0.328525613	0.173279015	-2.579591204	
PPP1R16B	0.329457672	0.173279015	2.587799431	
RNU5E	0.328176268	0.173279015	2.57651686	
ANK3	-0.32912511	0.173279015	-2.584869739	yes
ZDHC8	0.329233428	0.173279015	2.585823844	
FAM149B1	-0.327718034	0.173279015	-2.572486045	yes
HNRNPAB	-0.327903672	0.173279015	-2.574118745	
IDH3A	-0.329433645	0.173279015	-2.587587734	yes
CD300E	0.329411533	0.173279015	2.587392914	
ARRB1	0.327680044	0.173279015	2.572151963	
IER5	0.328412646	0.173279015	2.578596929	
PDE9A	0.328052206	0.173279015	2.575425357	yes
UPB1	0.329470945	0.173279015	2.587916386	
PGM3	-0.328756917	0.173279015	-2.581627407	
S1PR5	0.328104351	0.173279015	2.575884114	
MRPL39	-0.329153952	0.173279015	-2.585123776	yes
TRMT61B	-0.327948663	0.173279015	-2.574514497	
FAM176B	0.328176594	0.173279015	2.576519723	
C4orf21	-0.32843858	0.173279015	-2.578825176	
C4orf16	-0.32832893	0.173279015	-2.577860189	
MAP7D1	0.328826498	0.173279015	2.582240041	
FTSJD1	-0.328215715	0.173279015	-2.576863946	
RNF20	-0.328321059	0.173279015	-2.577790918	
PSMD1	-0.328146566	0.173279015	-2.576255525	
PVR	0.32885773	0.173279015	2.582515044	
ARAP3	0.328141036	0.173279015	2.576206869	

SRP72	-0.328561058	0.173279015	-2.579903202	
ADAM17	-0.328801009	0.173279015	-2.58201561	
TTF1	-0.328663776	0.173279015	-2.580807412	
KCTD15	0.327789184	0.173279015	2.573111777	
C5orf44	-0.327909792	0.173279015	-2.574172579	
PRSS27	0.327665532	0.173279015	2.572024349	
CTTNBP2	-0.328720735	0.173279015	-2.581308855	
GFM2	-0.329059347	0.173279015	-2.584290524	yes
COPS3	-0.327662106	0.173279015	-2.571994221	
AP3B1	-0.328878455	0.173279015	-2.582697536	
ACTL6A	-0.328219851	0.173279015	-2.576900339	
SERPINH1	0.328020969	0.173279015	2.575150559	
TAX1BP1	-0.32920779	0.173279015	-2.585598001	yes
PRDM6	0.328953977	0.173279015	2.583362563	
SLK	-0.327681577	0.173279015	-2.572165445	
ZNF623	-0.328007576	0.173279015	-2.575032733	
DOK7	0.327500638	0.173439811	2.57057446	
RLIM	-0.327529195	0.173439811	-2.570825536	
PFN1	0.327519145	0.173439811	2.570737172	
C11orf59	0.327531525	0.173439811	2.570846021	
PKN3	0.327388314	0.17364453	2.569586954	yes
LEPRE1	0.327417638	0.17364453	2.569844743	yes
EDA2R	0.327341944	0.17370861	2.569179327	
C9orf41	-0.327235391	0.174009129	-2.568242728	
LOC100133319	0.32515894	0.174440258	2.550012495	
NET1	-0.324981121	0.174440258	-2.548453256	
CHD1	-0.326618926	0.174440258	-2.562826131	
TUBGCP5	-0.326051098	0.174440258	-2.557840129	
LYSMD3	-0.325666223	0.174440258	-2.55446237	
FAM43A	0.325208648	0.174440258	2.550448423	yes
RASGEF1B	-0.325790107	0.174440258	-2.555549455	
DLD	-0.326783771	0.174440258	-2.564274188	
FUK	0.326293265	0.174440258	2.559966183	

CYP4Z1	-0.326688008	0.174440258	-2.563432941	
TIGD1	-0.325990174	0.174440258	-2.557305352	
PLAC9	0.325067117	0.174440258	2.549207289	yes
LARP5	-0.3263557	0.174440258	-2.560514406	yes
FBXO28	-0.325944864	0.174440258	-2.556907651	yes
DDAH2	0.326074402	0.174440258	2.558044699	
ALOX12P2	-0.326558392	0.174440258	-2.562294443	
GABPB1	-0.32668705	0.174440258	-2.563424529	
HS6ST3	0.325272407	0.174440258	2.551007616	
GFPT1	-0.326553357	0.174440258	-2.562250222	
GH1	0.325222758	0.174440258	2.550572172	
CHORDC1	-0.326783658	0.174440258	-2.564273196	
GOLGB1	-0.32692975	0.174440258	-2.56555674	
DKFZp564N2472	0.325296791	0.174440258	2.551221475	
ANXA3	-0.325089553	0.174440258	-2.549404031	
APAF1	-0.326200401	0.174440258	-2.559150834	
HOXC12	0.325820632	0.174440258	2.555817329	yes
RHOG	0.325166807	0.174440258	2.550081491	
NRD1	-0.325064382	0.174440258	-2.549183314	
RSL24D1	-0.325326514	0.174440258	-2.551482181	
IPO11	-0.326638651	0.174440258	-2.562999387	
SFMBT1	-0.32596569	0.174440258	-2.557090444	yes
CPSF3	-0.326952332	0.174440258	-2.565755157	
POU6F1	0.326254233	0.174440258	2.559623466	
TEX10	-0.325705791	0.174440258	-2.554809561	
PQLC2	0.325539036	0.174440258	2.553346457	
CWF19L1	-0.326630358	0.174440258	-2.562926544	
AVPR2	0.325753244	0.174440258	2.555225966	
C9orf86	0.326105	0.174440258	2.558313302	
CENPN	-0.325686562	0.174440258	-2.554640835	
SMARCAD1	-0.326087355	0.174440258	-2.558158407	
NCLN	0.324984863	0.174440258	2.548486065	
PELI1	-0.325470441	0.174440258	-2.552744686	

ACTA1	0.325407641	0.174440258	2.552193787	
RBBP4	-0.325025731	0.174440258	-2.548844403	
XCL1	0.326530606	0.174440258	2.56205041	
RHBDF1	0.32589325	0.174440258	2.556454649	
ZNF323	-0.326142942	0.174440258	-2.558646389	
SMURF2	-0.325423458	0.174440258	-2.552332538	
SLC16A2	0.326512828	0.174440258	2.561894266	
FUNDC2	-0.325848269	0.174440258	-2.556059872	
SNRPD3	-0.326923604	0.174440258	-2.565502738	
STRN	-0.325890756	0.174440258	-2.556432754	
TCP1	-0.325314291	0.174440258	-2.551374974	
DYNLT3	-0.326889067	0.174440258	-2.565199282	
TLN1	0.326878347	0.174440258	2.565105097	
TPO	0.325515623	0.174440258	2.553141058	yes
UGCG	-0.326119074	0.174440258	-2.558436854	
ZNF91	-0.325465229	0.174440258	-2.552698966	
C1orf115	0.325498141	0.174440258	2.552987686	
EPC1	-0.326472498	0.174440258	-2.561540075	
NCOA3	-0.32507487	0.174440258	-2.549275272	
JRK	0.32512096	0.174440258	2.54967944	
ACTN2	0.326988395	0.174440258	2.566072049	
ZNF766	-0.324978789	0.174440258	-2.54843281	
MARS2	-0.326053444	0.174440258	-2.557860728	
GTF3C4	-0.326578091	0.174440258	-2.562467468	
CD34	0.326797932	0.174440258	2.564398598	
SCAMP1	-0.326663954	0.174440258	-2.563221646	
ZNF432	-0.326185928	0.174440258	-2.559023768	
BCLAF1	-0.32611298	0.174440258	-2.558383358	
PSMD6	-0.326307536	0.174440258	-2.560091485	
TECPR2	0.325158224	0.174440258	2.550006221	
NUP153	-0.325863993	0.174440258	-2.556197874	yes
SNX4	-0.324924176	0.174541232	-2.547953989	
KLHDC2	-0.324888205	0.174569341	-2.547638621	

SNORD116-18	0.324449989	0.174825144	2.543797719	
FOLR2	0.324665991	0.174825144	2.545690724	
HEPACAM2	-0.3245266	0.174825144	-2.544469074	
HEATR5A	-0.324590716	0.174825144	-2.545030977	
SNX24	-0.324569776	0.174825144	-2.54484746	yes
PKD1L3	-0.324501854	0.174825144	-2.544252216	
CTAGE5	-0.32471697	0.174825144	-2.546137555	
ABI3	0.324592703	0.174825144	2.545048384	
GALNT7	-0.32445283	0.174825144	-2.543822618	
PIN1L	0.324713694	0.174825144	2.546108839	
POLA1	-0.32469719	0.174825144	-2.545964182	
LIME1	0.324452664	0.174825144	2.543821163	
CAPNS2	-0.324700964	0.174825144	-2.545997257	
NCRNA00169	0.324415965	0.174846476	2.543499579	
EIF2S1	-0.324315029	0.174980559	-2.542615186	
GRIK5	0.324263007	0.174980559	2.54215941	
CNOT6	-0.324239066	0.174980559	-2.541949658	yes
SNCB	0.32426002	0.174980559	2.542133236	
ERMP1	-0.324263479	0.174980559	-2.542163537	
BPTF	-0.324202384	0.175012652	-2.541628303	
C4orf33	-0.324145217	0.175119138	-2.541127513	
AGER	0.324110068	0.175119138	2.540819621	
YEATS4	-0.324089823	0.175119138	-2.540642288	
UNQ6228	-0.323930057	0.175211773	-2.539242959	
MRGPRF	0.323966034	0.175211773	2.539558045	yes
PTGIS	0.324032235	0.175211773	2.540137865	
RS1	0.324008367	0.175211773	2.539928812	
NDST2	0.323924195	0.175211773	2.539191624	
TCERG1	-0.32375499	0.175560582	-2.537709897	
MSRA	0.323750166	0.175560582	2.537667658	
TAOK1	-0.323773707	0.175560582	-2.537873793	
BTRC	-0.323664651	0.175784997	-2.536918918	
OR2A14	0.32342751	0.176268354	2.534842943	

ECT2	-0.323400251	0.176268354	-2.534604341	
FAM169A	-0.323494212	0.176268354	-2.535426808	
CAPZA1	-0.323457424	0.176268354	-2.535104781	
ALG2	-0.323440057	0.176268354	-2.534952767	
FAT3	0.323222463	0.176636077	2.533048349	
C2orf68	0.323228585	0.176636077	2.533101928	
SCARF2	0.323222147	0.176636077	2.533045584	
FZD1	0.323170586	0.176728109	2.532594383	
FJX1	0.323134305	0.176760011	2.532276905	
TIMM17A	-0.322998379	0.176777004	-2.531087607	
DDX1	-0.322924341	0.176777004	-2.530439877	
ETFA	-0.322940125	0.176777004	-2.530577956	
SYNM	0.322950886	0.176777004	2.530672097	
TPSD1	0.322905053	0.176777004	2.530271135	
MTCH2	-0.323006677	0.176777004	-2.531160209	
XPO4	-0.323073108	0.176777004	-2.531741435	
SCIN	-0.323000719	0.176777004	-2.531108079	
SIRT5	-0.322868892	0.176808944	-2.529954804	
MEF2B	0.322802563	0.176959791	2.529374595	
ARFGEF1	-0.322641756	0.177270626	-2.527968118	
PDGFRB	0.322639697	0.177270626	2.527950106	
RPE	-0.32266623	0.177270626	-2.528182161	
C17orf61	0.322575825	0.177329657	2.527391528	
GPR160	-0.322540821	0.177329657	-2.527085425	
TAF1D	-0.3225596	0.177329657	-2.527249648	
GLCE	-0.322509433	0.177343252	-2.526810951	
GDNF	0.322291007	0.177767567	2.52490118	yes
SLCO4A1	0.322173753	0.177767567	2.523876176	yes
PNPLA1	0.322362375	0.177767567	2.525525123	
GUK1	0.322189715	0.177767567	2.524015709	
ANKRD16	-0.322260968	0.177767567	-2.524638573	
ENTPD7	-0.322274421	0.177767567	-2.524756179	
RPS6KA4	0.32215805	0.177767567	2.523738916	

USP8	-0.322144785	0.177767567	-2.523622965	
SFXN1	-0.322123295	0.177767567	-2.523435122	
NAPSA	0.322233106	0.177767567	2.52439501	yes
CLOCK	-0.322052506	0.177937473	-2.522816405	
FRS2	-0.321959925	0.178083917	-2.522007278	
USF2	0.321961081	0.178083917	2.522017384	
SNORD116-2	0.321578519	0.178281901	2.518674784	
ADARB1	0.321662638	0.178281901	2.519409652	
CYB5R3	0.321618488	0.178281901	2.519023947	
ASCC1	-0.321772447	0.178281901	-2.52036904	yes
RPS14	0.321656593	0.178281901	2.519356835	
ARV1	-0.32178206	0.178281901	-2.520453034	
GNPNAT1	-0.321708686	0.178281901	-2.519811953	
TAF7	-0.321613173	0.178281901	-2.518977519	
EZR	-0.321577774	0.178281901	-2.518668279	yes
INTS5	0.321646793	0.178281901	2.51927122	
GALNT4	-0.321612814	0.178281901	-2.518974376	
SYTL5	-0.321595704	0.178281901	-2.518824907	
RBM12	-0.321317262	0.178476103	-2.516392876	
CLTC	-0.321429723	0.178476103	-2.51737507	
TTC7B	0.321363016	0.178476103	2.51679246	
FBXO45	-0.321255528	0.178476103	-2.515853763	
KIAA0913	0.321495302	0.178476103	2.517947869	
C16orf5	0.321374286	0.178476103	2.516890887	
ROR1	0.321286441	0.178476103	2.516123712	
UBA6	-0.321275828	0.178476103	-2.516031028	
LOC645605	0.321253476	0.178476103	2.515835842	
FAM58A	0.321346219	0.178476103	2.516645758	
SEC63	-0.321130142	0.17875133	-2.514758889	
FAM182A	0.321071792	0.17875133	2.514249431	
IGF2	0.320992092	0.17875133	2.513553611	
GPATCH2	-0.321007735	0.17875133	-2.513690179	
PRKAR2A	-0.321127459	0.17875133	-2.514735461	yes

KIAA1598	-0.320993432	0.17875133	-2.51356531	
CEP350	-0.321074828	0.17875133	-2.514275937	
NFASC	0.320872405	0.178932389	2.512508806	
GLRX5	0.320844699	0.178932389	2.512266957	
SLC30A6	-0.320837038	0.178932389	-2.512200087	
VBP1	-0.320865309	0.178932389	-2.512446863	
RAB3IP	-0.320753839	0.179104875	-2.511473909	
CDC2L5	-0.320738911	0.179104875	-2.51134362	
CREB1	-0.320441123	0.179281382	-2.508745022	
DOK1	0.32054411	0.179281382	2.509643627	yes
NKX6-1	0.32042226	0.179281382	2.508580452	
NOP58	-0.320440781	0.179281382	-2.508742041	
SEPX1	0.320463088	0.179281382	2.508936668	
QRSL1	-0.320449313	0.179281382	-2.508816478	yes
RNF6	-0.320585471	0.179281382	-2.510004551	yes
CLIP2	0.320590843	0.179281382	2.51005143	
CDC42BPA	-0.320546559	0.179281382	-2.509664995	
PPP4R1	-0.320495593	0.179281382	-2.509220282	yes
ZFP112	-0.320270952	0.179666217	-2.507260433	
GAN	-0.320294745	0.179666217	-2.507467983	
HBP1	-0.320190055	0.179845521	-2.506554767	
SCARA3	0.320162703	0.179845521	2.506316188	
CMPK1	-0.320124849	0.179845521	-2.505986024	
PPP2R3C	-0.320090334	0.179845521	-2.505684992	
CABP1	0.320107938	0.179845521	2.505838528	
PTPN13	-0.320038677	0.179904724	-2.505234468	
ZBTB17	0.320021337	0.179904724	2.505083239	
METTL10	-0.319955374	0.179984474	-2.504507997	
TAF2	-0.319947219	0.179984474	-2.504436888	
ARNTL2	-0.319876319	0.180158905	-2.503818636	
SPNS1	0.319842684	0.180185325	2.503525353	
SFRS12	-0.319393555	0.180445648	-2.499610181	
PTGR1	-0.319283662	0.180445648	-2.498652506	yes

ZBTB43	-0.319288717	0.180445648	-2.498696551	
SLC35D1	-0.319269582	0.180445648	-2.498529809	
GALNT1	-0.319377853	0.180445648	-2.499473336	
GCLM	-0.319368408	0.180445648	-2.499391025	
RABGEF1	-0.319682092	0.180445648	-2.50212522	
BLOC1S2	-0.319469189	0.180445648	-2.500269368	
LRRC68	0.319683191	0.180445648	2.502134803	
PRICKLE4	0.319266933	0.180445648	2.498506729	
HDAC1	-0.319269943	0.180445648	-2.498532954	
HNRNPF	-0.319280522	0.180445648	-2.498625144	yes
ZNF773	0.319292986	0.180445648	2.498733752	
PGM2	-0.319292791	0.180445648	-2.498732059	
PSMD5	-0.319554022	0.180445648	-2.501008801	
SLCO2A1	0.319641411	0.180445648	2.501770572	
EIF4H	-0.319504189	0.180445648	-2.500574437	
OFD1	-0.319700605	0.180445648	-2.502286618	
UBA3	-0.319613428	0.180445648	-2.501526637	
MRAP2	-0.319138204	0.18048273	-2.497385061	
ARHGAP5	-0.319199902	0.18048273	-2.497922642	
KRCC1	-0.319211109	0.18048273	-2.498020293	
C17orf85	-0.319166798	0.18048273	-2.497634194	
KIAA1602	0.31912412	0.18048273	2.49726235	
POU3F3	0.319013998	0.180814529	2.496302948	
ZNF507	-0.318917871	0.181002926	-2.495465565	yes
WDR33	-0.318905078	0.181002926	-2.495354131	yes
CNTD2	0.318886742	0.181002926	2.495194417	
TOB1	-0.318451125	0.18148199	-2.491400867	
GPR175	0.318447926	0.18148199	2.491373024	
PHLDB1	0.318584444	0.18148199	2.492561684	
FREQ	0.318486442	0.18148199	2.49170836	
MYST4	-0.318487287	0.18148199	-2.491715716	
C15orf52	0.318681523	0.18148199	2.493407063	
MRPL50	-0.318454729	0.18148199	-2.491432248	

GMCL1	-0.318666136	0.18148199	-2.493273067	
TOP1	-0.318464804	0.18148199	-2.491519966	
CLDN12	-0.318717832	0.18148199	-2.493723269	
CEP57	-0.318646997	0.18148199	-2.493106391	
FGFBP1	-0.318624688	0.18148199	-2.492912126	
LOC100132755	0.317825066	0.18163206	2.485951948	yes
BCAS2	-0.317268662	0.18163206	-2.481112306	
POLR3F	-0.317301252	0.18163206	-2.481395694	
WDHD1	-0.316570025	0.18163206	-2.475039546	
STRAP	-0.317234609	0.18163206	-2.480816206	
NOXO1	0.317337598	0.18163206	2.48171176	
SPNS2	0.317369011	0.18163206	2.481984942	yes
COPA	-0.317360301	0.18163206	-2.481909191	
OR6B3	0.316574072	0.18163206	2.475074707	
DBT	-0.317138618	0.18163206	-2.479981582	
OXER1	0.31771507	0.18163206	2.484994969	
DLG3	-0.317002524	0.18163206	-2.478798428	
EIF4A1	-0.316776014	0.18163206	-2.476829601	
C20orf201	0.316932602	0.18163206	2.478190614	
EXTL2	-0.316615886	0.18163206	-2.475438048	
ARL5B	-0.316739575	0.18163206	-2.476512914	
CLCA4	-0.317042526	0.18163206	-2.479146172	
TRIM2	-0.316930817	0.18163206	-2.478175096	yes
SLC7A11	-0.31692185	0.18163206	-2.478097155	
MCM9	-0.318013649	0.18163206	-2.48759291	
ANKRD17	-0.317110021	0.18163206	-2.479732954	
PDLIM3	0.317938827	0.18163206	2.4869418	
GNAZ	0.31740161	0.18163206	2.482268442	
STK32C	0.317969853	0.18163206	2.487211782	
GPR32	0.317735993	0.18163206	2.485176997	
MAGEB18	0.31796957	0.18163206	2.48720932	
SLC39A3	0.318268599	0.18163206	2.489811881	
ICAM1	0.316589607	0.18163206	2.475209694	

IGFBP4	0.317540152	0.18163206	2.483473394	
IL15RA	0.317875122	0.18163206	2.486387477	
ITGB6	-0.317607345	0.18163206	-2.484057854	
TMEM110	0.317530689	0.18163206	2.483391079	
MEOX2	0.317540108	0.18163206	2.483473007	
NARS	-0.317694843	0.18163206	-2.484819005	
NDUFA1	0.317663544	0.18163206	2.484546721	
NONO	-0.31693819	0.18163206	-2.478239188	
ZNF706	-0.317200749	0.18163206	-2.48052179	
GOLGA7	-0.317633154	0.18163206	-2.484282361	
DCTN4	-0.317420822	0.18163206	-2.482435524	
PLEKHO1	0.316777824	0.18163206	2.47684533	
SLC22A17	0.317747512	0.18163206	2.485277209	yes
WAC	-0.31711989	0.18163206	-2.479818759	
RAB14	-0.316580596	0.18163206	-2.475131401	
PEX1	-0.31823881	0.18163206	-2.489552576	
LARP6	0.317686949	0.18163206	2.484750329	
BARX1	0.318312131	0.18163206	2.49019082	
PCDHGB3	0.31686974	0.18163206	2.477644204	
CCDC47	-0.316863948	0.18163206	-2.477593863	
PBXIP1	0.317861849	0.18163206	2.486271991	
KIAA1211	0.318141482	0.18163206	2.48870543	
PPCDC	0.317957276	0.18163206	2.487102345	
ABCE1	-0.317454128	0.18163206	-2.482725183	
EEFSEC	0.317803622	0.18163206	2.48576537	
C5orf54	-0.31759487	0.18163206	-2.483949341	
NXN	0.316725968	0.18163206	2.476394661	
SP1	-0.316518058	0.18163206	-2.474588008	
VEGFB	0.318117479	0.18163206	2.48849652	
ZNF213	0.316883321	0.18163206	2.477762251	
GGCT	-0.317365752	0.18163206	-2.481956596	
CXorf21	-0.317066461	0.18163206	-2.479354252	
SLC25A32	-0.317961627	0.18163206	-2.487140199	

CAST	-0.317241726	0.18163206	-2.480878084	yes
HES7	0.317639628	0.18163206	2.484338675	
CDC14B	-0.317431038	0.18163206	-2.48252437	
SCEL	-0.316511794	0.18163206	-2.474533582	
PEX11A	-0.318080847	0.18163206	-2.488177712	
HAP1	0.316596374	0.18163206	2.475268495	
DOK2	0.316547625	0.18163206	2.474844914	
ZNF598	0.316757788	0.18163206	2.476671196	
AIFM1	-0.316712818	0.18163206	-2.476280379	
C1orf156	-0.318269238	0.18163206	-2.489817441	
STK17A	-0.318344791	0.18163206	-2.490475138	
SHKBP1	0.317692489	0.18163206	2.484798521	
COG5	-0.316414693	0.181707418	-2.473689961	
CNRIP1	0.316390677	0.181707418	2.473481323	
VPS36	-0.316399244	0.181707418	-2.47355575	
MFHAS1	0.316399872	0.181707418	2.473561204	
DYRK1A	-0.31627226	0.181974901	-2.472452648	yes
CCL14	0.316284484	0.181974901	2.472558825	
KIAA1881	0.316242868	0.181990433	2.472197338	
FBXO22	-0.316212159	0.182011236	-2.471930605	
RAD51AP1	-0.316043576	0.182377629	-2.470466447	
MTAP	-0.316061142	0.182377629	-2.470619005	
EDEM3	-0.31609198	0.182377629	-2.470886819	
UBE2E3	0.315914207	0.182638588	2.469343056	
WFIKKN1	0.315912889	0.182638588	2.469331609	
TNFRSF1B	0.315901705	0.182638588	2.469234496	
SCN2B	0.315868742	0.182668695	2.468948285	
MRPL36	0.315836671	0.1826953	2.468669826	
MED6	-0.31504125	0.182699809	-2.461766571	yes
LOC100130423	-0.31565012	0.182699809	-2.467050277	
NCOA2	-0.31500009	0.182699809	-2.461409509	
FILIP1L	0.314969097	0.182699809	2.461140661	
FAM172B	-0.315469466	0.182699809	-2.465482229	

FAM59B	0.31545454	0.182699809	2.465352691
CTSG	0.315105804	0.182699809	2.462326606
GBP6	-0.315298201	0.182699809	-2.463995954
C3orf57	-0.315554878	0.182699809	-2.466223556
FGF6	0.314934133	0.182699809	2.460837371
LARS2	-0.315103115	0.182699809	-2.462303277
C6orf167	-0.315155995	0.182699809	-2.462762057
LYSMD2	0.314975685	0.182699809	2.461197804
TMEM184B	0.315749571	0.182699809	2.467913629
KRT23	-0.315386162	0.182699809	-2.464759265
PCDH17	0.315642968	0.182699809	2.466988201
ZNF776	-0.315336741	0.182699809	-2.464330385
TBK1	-0.315392972	0.182699809	-2.464818364
KCNJ8	0.31508424	0.182699809	2.462139523
RERE	0.315681296	0.182699809	2.467320918
ABHD5	-0.315410193	0.182699809	-2.464967819
CLEC1A	0.315466088	0.182699809	2.465452918
PML	0.315338699	0.182699809	2.464347379
UTP6	-0.315412338	0.182699809	-2.464986435
PCDHGC5	0.315311869	0.182699809	2.464114559
THAP11	0.314982323	0.182699809	2.461255384
RNASEL	-0.315712912	0.182699809	-2.467595379
SALL2	0.315075547	0.182699809	2.462064104
SMOC2	0.314904591	0.182699809	2.460581123
SPN	0.315616736	0.182699809	2.466760486
SUPV3L1	-0.31503911	0.182699809	-2.461748003
UBE2D1	-0.31501652	0.182699809	-2.461552038
C10orf95	0.31556325	0.182699809	2.466296222
TNKS2	-0.315002617	0.182699809	-2.461431428
HIST1H4I	0.315514913	0.182699809	2.465876681
CD1E	0.314912504	0.182699809	2.460649758
CDC5L	-0.315142952	0.182699809	-2.462648897
CNOT10	-0.314868717	0.182743196	-2.460269961

KISS1	0.314823511	0.182803641	2.459877869	
ARID4B	-0.314803639	0.182803641	-2.459705522	
PKIG	0.31466862	0.182957343	2.458534594	
CMTM3	0.314665353	0.182957343	2.458506264	
PPM1M	0.314734227	0.182957343	2.459103539	
MYO5C	-0.314688769	0.182957343	-2.458709319	
AQP12A	0.314640173	0.182958602	2.458287906	
ENPEP	0.31451835	0.183068478	2.457231594	yes
RSL1D1	-0.314580609	0.183068478	-2.457771419	
UFM1	-0.314448045	0.183068478	-2.456622039	
CCDC99	-0.314442939	0.183068478	-2.456577772	
SEMA4C	0.314512246	0.183068478	2.457178669	
G2E3	-0.314459206	0.183068478	-2.456718809	
FBXO38	-0.31443876	0.183068478	-2.456541546	
C19orf24	0.314400327	0.183122702	2.456208349	
ANKRD29	0.314293339	0.183252653	2.455280894	
EPB49	0.314317589	0.183252653	2.455491102	
RAD17	-0.314338503	0.183252653	-2.455672402	
AHCTF1	-0.314185822	0.183385129	-2.454348955	
MLLT3	-0.314189215	0.183385129	-2.454378363	
SLC2A4	0.314207801	0.183385129	2.454539453	
MARCH3	-0.31414612	0.183444737	-2.454004844	
NXNL1	0.314103962	0.183478195	2.453639475	
MFSD7	0.314088328	0.183478195	2.453503977	
MTRF1	-0.314036293	0.183586965	-2.453053033	
MGAT5B	0.313953385	0.183622577	2.452334587	
PPFIA4	0.313969324	0.183622577	2.452472701	
TCEAL3	0.313962402	0.183622577	2.452412716	
CHP	-0.313676887	0.183952616	-2.449939009	
ZC3H3	0.313640234	0.183952616	2.449621495	
PDS5A	-0.31352286	0.183952616	-2.448604816	
RPL36	0.313467233	0.183952616	2.448123029	
DAPP1	-0.31342711	0.183952616	-2.447775529	yes

GPR25	0.313598511	0.183952616	2.449260083	
RABL3	-0.313342612	0.183952616	-2.447043773	
XIAP	-0.313407105	0.183952616	-2.447602283	
GEN1	-0.313303371	0.183952616	-2.446703962	
SPRED3	0.313538603	0.183952616	2.448741177	
PHKG1	0.313320372	0.183952616	2.446851179	
RBM28	-0.313378463	0.183952616	-2.44735424	
ELAC1	-0.313282271	0.183952616	-2.44652125	
PRPF40A	-0.313391986	0.183952616	-2.447471344	
FLJ10357	0.31360873	0.183952616	2.449348599	
PSMB7	-0.313572836	0.183952616	-2.449037683	
SORCS2	0.313604719	0.183952616	2.449313859	
ZNF398	-0.313523919	0.183952616	-2.448613987	yes
FER1L6	-0.313496309	0.183952616	-2.448374849	
SNORA80	0.31374304	0.183952616	2.450512094	
DKFZP547L112	0.313696633	0.183952616	2.450110066	
CCDC55	-0.313551591	0.183952616	-2.448853669	
RAB9A	-0.313608533	0.183952616	-2.449346897	
PHF14	-0.31363219	0.183952616	-2.449551816	
ANKRD33B	0.313253304	0.183970887	2.446270427	
MAPK14	-0.313194014	0.18410975	-2.445757049	
AFAP1L1	0.313059582	0.184114655	2.444593168	
GAS6	0.313123397	0.184114655	2.44514565	
GSTA4	-0.313110705	0.184114655	-2.445035766	
SLC35B3	-0.313046842	0.184114655	-2.444482877	
POLR2D	-0.313064371	0.184114655	-2.444634626	
LOC729085	0.313161239	0.184114655	2.445473283	
SFRS4	-0.312943713	0.184146483	-2.443590135	
SRPK2	-0.312947659	0.184146483	-2.443624294	
TFDP1	-0.312930174	0.184146483	-2.443472939	
LZIC	-0.312917515	0.184146483	-2.443363363	
CBLN1	0.31294767	0.184146483	2.443624387	
GRINA	0.31274885	0.184349823	2.441903548	

SNORD8	0.312747604	0.184349823	2.441892766	
ZNF860	-0.312705368	0.184349823	-2.441527244	
NHLRC2	-0.31275502	0.184349823	-2.441956945	
MBTD1	-0.312713807	0.184349823	-2.441600272	
RAP2A	-0.312696946	0.184349823	-2.441454362	
L2HGDH	-0.312721992	0.184349823	-2.441671111	
GLRX3	-0.312648888	0.184376401	-2.441038477	
HNRNPH1	-0.31264195	0.184376401	-2.440978446	
TTC6	-0.312548914	0.184472109	-2.440173407	
TMBIM6	-0.31258563	0.184472109	-2.440491095	
NOLC1	-0.312545488	0.184472109	-2.44014376	
LOC100133372	0.312200625	0.184476896	2.437160354	
C12orf60	-0.31222724	0.184476896	-2.437390564	
FGFR1	0.312184568	0.184476896	2.437021471	
C19orf26	0.312457201	0.184476896	2.439379887	
LAT	0.312232204	0.184476896	2.437433497	
MLLT6	0.312348885	0.184476896	2.438442817	
FAM26F	0.312200148	0.184476896	2.437156222	
MYL6	0.312371609	0.184476896	2.438639397	
MAGOHB	-0.312183762	0.184476896	-2.4370145	
DNAJC3	-0.312368156	0.184476896	-2.438609526	
LHX5	0.312207917	0.184476896	2.437223428	
TARBP1	-0.312468706	0.184476896	-2.439479425	
PHF6	-0.31221586	0.184476896	-2.437292123	
USO1	-0.312431514	0.184476896	-2.439157655	
COL23A1	0.312338446	0.184476896	2.43835251	
ACE2	-0.312099869	0.184715074	-2.436288916	
CTNND1	-0.31203958	0.184764413	-2.43576752	
C9orf6	-0.312039864	0.184764413	-2.435769974	yes
AFAP1	0.311977012	0.1849181	2.435226448	
HFE2	0.31160117	0.185784918	2.431977013	
RNF160	-0.311695348	0.185784918	-2.432791128	
RPL13P5	0.311726949	0.185784918	2.433064325	

HPCA	0.311592251	0.185784918	2.431899912
LOC440934	0.311623808	0.185784918	2.432172699
METTL4	-0.311652181	0.185784918	-2.432417964
OBSCN	0.311614004	0.185784918	2.432087946
RABGAP1L	-0.311558329	0.185825085	-2.431606699
C6orf170	-0.311486412	0.185921818	-2.43098509
SULT1C4	0.311492347	0.185921818	2.431036386
RNF139	-0.31117246	0.186227874	-2.42827203
SIN3A	-0.311339593	0.186227874	-2.429716226
LIG4	-0.31119593	0.186227874	-2.428474818
NUDT1	0.311181017	0.186227874	2.428345963
NOTCH3	0.311292512	0.186227874	2.429309373
P2RY4	0.311252571	0.186227874	2.428964236
CWC22	-0.311358065	0.186227874	-2.42987586
S100A7	0.311171922	0.186227874	2.428267385
SUPT3H	-0.311265826	0.186227874	-2.429078778
SDCCAG1	-0.311250576	0.186227874	-2.428946998
SMYD1	0.311122099	0.186332151	2.42783691
EEF1A1	-0.311076295	0.186388667	-2.427441179
ARHGAP23	0.311060521	0.186388667	2.427304904
CTCF	-0.3109857	0.186572784	-2.426658531
NOL10	-0.310967082	0.186572784	-2.426497702
KIAA0776	-0.310939862	0.186586908	-2.426262572
SERPINB8	-0.310862276	0.186699472	-2.425592398
RNF26	0.310840722	0.186699472	2.425406222
KLF4	-0.310880015	0.186699472	-2.425745619
MT1F	0.310749626	0.186874825	2.424619443
CSRP2BP	-0.310773246	0.186874825	-2.424823438
HS3ST6	0.310711041	0.186934704	2.424286212
ATP10B	-0.310626324	0.186975732	-2.42355461
APOC1	0.31062993	0.186975732	2.423585752
C7orf36	-0.310606358	0.186975732	-2.423382205
RCN3	0.310670691	0.186975732	2.423937751

ENOPH1	-0.310414813	0.187557661	-2.421728336	
C15orf44	-0.310414071	0.187557661	-2.421721931	
GENE	-0.309980523	0.188089476	-2.417979741	
RPP30	-0.310231105	0.188089476	-2.42014245	
ABHD2	-0.30996089	0.188089476	-2.417810316	
FGL1	0.310119407	0.188089476	2.419178339	
KIAA1012	-0.310063766	0.188089476	-2.418698122	yes
LOC404266	0.309980835	0.188089476	2.417982431	
RGNEF	-0.309952494	0.188089476	-2.417737863	
PLEKHF2	-0.309995507	0.188089476	-2.418109046	
MLF1IP	-0.310021652	0.188089476	-2.418334673	
ZSCAN16	-0.309971162	0.188089476	-2.417898954	
IFI27L2	0.310004196	0.188089476	2.418184032	
KIAA1841	-0.310188558	0.188089476	-2.419775196	
TNFRSF6B	0.310127647	0.188089476	2.419249463	
TOX4	-0.310139237	0.188089476	-2.419349491	
CSTF2T	-0.30988035	0.188096871	-2.417115324	
GTF2A2	-0.309894556	0.188096871	-2.417237912	
tcag7.893	0.309917719	0.188096871	2.417437779	
EYA4	-0.309733948	0.188591761	-2.415852156	
TRIM65	0.309686846	0.188687197	2.415445801	
NMUR1	0.309550089	0.188851947	2.414266074	
CCDC85B	0.309541037	0.188851947	2.414187998	
CHUK	-0.309464097	0.188851947	-2.41352436	
CXorf58	-0.30937689	0.188851947	-2.412772226	
CTAG2	0.309592062	0.188851947	2.414628132	
SUV420H1	-0.309350159	0.188851947	-2.41254169	
PENK	0.309362037	0.188851947	2.412644127	
C17orf71	-0.309423095	0.188851947	-2.413170719	
BCAS4	0.309508183	0.188851947	2.413904612	
UPF3B	-0.30957912	0.188851947	-2.414516492	
UTX	-0.309446318	0.188851947	-2.413371013	yes
KIAA1712	-0.309417376	0.188851947	-2.413121396	

NAE1	-0.309342432	0.188851947	-2.412475055	
POLR2B	-0.30930747	0.18889901	-2.412173553	
LMTK3	0.309245576	0.189000562	2.411639815	
DLGAP4	0.309166004	0.189000562	2.410953681	
CDKN2AIP	-0.309192565	0.189000562	-2.41118271	
QTRTD1	-0.309226509	0.189000562	-2.411475403	
MYO15B	0.30918893	0.189000562	2.411151362	
SNUPN	-0.30861667	0.189024789	-2.406218434	
GAS2L1	0.308806886	0.189024789	2.407857793	
CD300LF	0.308798707	0.189024789	2.407787296	
ZNF420	-0.308787191	0.189024789	-2.407688035	
DPPA2	0.309111269	0.189024789	2.410481745	
KIAA1949	0.3087081	0.189024789	2.407006372	
HECTD1	-0.309057332	0.189024789	-2.410016719	yes
GNG11	0.308975327	0.189024789	2.409309746	
LTBP2	0.308607583	0.189024789	2.406140124	
MGC44328	0.308826467	0.189024789	2.408026567	
MYO7B	0.308905323	0.189024789	2.408706288	yes
NAB1	-0.308589017	0.189024789	-2.405980135	
FEM1A	0.309093153	0.189024789	2.410325556	
RP2	-0.308891274	0.189024789	-2.408585181	yes
ZNF35	-0.309051784	0.189024789	-2.409968886	
WDR77	-0.308880632	0.189024789	-2.40849345	
C11orf61	-0.308609314	0.189024789	-2.406155045	
FBXO31	0.308686274	0.189024789	2.406818272	
LOC100133439	-0.308685256	0.189024789	-2.406809502	
CCDC3	0.308796307	0.189024789	2.40776661	
L3MBTL3	-0.308986921	0.189024789	-2.409409701	
INPP4B	-0.308800156	0.189024789	-2.407799781	yes
MTMR3	-0.30855929	0.189024789	-2.405723972	
RHOT2	0.308927622	0.189024789	2.408898504	
ACBD5	-0.30870336	0.189024789	-2.40696552	
STOML1	0.308578751	0.189024789	2.405891674	

C10orf47	0.308453896	0.189171628	2.404815835
CXCL12	0.308474147	0.189171628	2.404990325
JMJD4	0.308488754	0.189171628	2.405116185
MYRIP	0.30842566	0.189192908	2.404572552
PLD3	0.308296392	0.189431272	2.403458868
EML3	0.308285753	0.189431272	2.403367216
SLC39A9	-0.308320407	0.189431272	-2.403665752
PRPF4B	-0.308274744	0.189431272	-2.403272385
MPZL2	-0.308112659	0.189534603	-2.401876208
SEC31A	-0.308167756	0.189534603	-2.402350777
MRPL42	-0.308165554	0.189534603	-2.402331813
ANXA2P1	-0.308088941	0.189534603	-2.401671924
C20orf27	0.308132595	0.189534603	2.402047922
SNORA6	0.308174266	0.189534603	2.402406855
LOC729756	0.308095611	0.189534603	2.401729369
CLPX	-0.307871161	0.189585103	-2.399796415
PNPLA8	-0.307929358	0.189585103	-2.400297562
ISOC1	-0.308042148	0.189585103	-2.40126891
ATG16L1	-0.307886131	0.189585103	-2.399925323
DNAJC17	0.307949438	0.189585103	2.400470481
MAPK8	-0.307912096	0.189585103	-2.400148914
SNORA3	0.307999287	0.189585103	2.400899781
SNORD77	-0.307954162	0.189585103	-2.400511168
JRKL	-0.307902231	0.189585103	-2.400063961
TIPARP	-0.307801392	0.189591237	-2.399195651
H2BFM	0.307839379	0.189591237	2.39952274
LTA4H	-0.307818404	0.189591237	-2.399342135
BRMS1L	-0.307562144	0.190464311	-2.397135884
SLU7	-0.307512332	0.190481878	-2.396707098
TOPBP1	-0.307524012	0.190481878	-2.396807644
ICOSLG	0.30744735	0.19065267	2.396147769
HEATR5B	-0.30738675	0.190805884	-2.395626179
RNF145	-0.307324381	0.19087452	-2.395089401

PCF11	-0.307324875	0.19087452	-2.395093657	
RAD50	-0.307154965	0.191331245	-2.393631502	
RAD1	-0.307148244	0.191331245	-2.393573665	
BAT2	0.307143546	0.191331245	2.393533242	
RAB11A	-0.30701165	0.191774359	-2.392398409	yes
PIGF	-0.306978559	0.191816689	-2.392113717	yes
MMP25	0.306918829	0.191967286	2.391599861	
C11orf84	0.306853436	0.192141022	2.391037331	
BCL2L11	-0.306721517	0.192309346	-2.389902628	
GALNT3	-0.306754268	0.192309346	-2.390184318	
SPIN2B	0.306782705	0.192309346	2.390428911	
EIF2A	-0.306722127	0.192309346	-2.389907876	
ACTR2	-0.306238832	0.192392433	-2.385752104	
CDO1	0.306373351	0.192392433	2.386908601	
OGFR	0.306227252	0.192392433	2.385652559	
CPNE4	-0.306532437	0.192392433	-2.388276517	
EEF1B2	0.306598146	0.192392433	2.388841585	
IFNA21	0.306460855	0.192392433	2.387660984	
C5orf39	-0.306324723	0.192392433	-2.386490517	
MMP2	0.306613273	0.192392433	2.388971679	
LOC441208	0.306301034	0.192392433	2.38628685	
GOLT1B	-0.306216814	0.192392433	-2.385562821	
ASB3	-0.306558791	0.192392433	-2.388503146	
IL20RA	-0.306484562	0.192392433	-2.387864837	
FANCL	-0.306319231	0.192392433	-2.3864433	
PRIM2	-0.3062581	0.192392433	-2.385917749	
WDR45L	-0.306523841	0.192392433	-2.388202599	yes
RP9	0.306631716	0.192392433	2.389130292	
hCG_2024410	-0.306205697	0.192392433	-2.385467261	
ZFP161	-0.306435302	0.192392433	-2.38744127	
PTP4A1	-0.306373395	0.192392433	-2.386908981	
RP5-1000E10.4	-0.306265388	0.192392433	-2.385980398	
TAF15	-0.306521101	0.192392433	-2.388179037	

THOC1	-0.306262778	0.192392433	-2.385957967	
SLC38A9	-0.306181044	0.192401533	-2.38525533	
COL19A1	0.306054954	0.192537145	2.384171501	
MAST3	0.306093832	0.192537145	2.384505675	
GK5	-0.306056607	0.192537145	-2.384185712	
BCAM	0.305990263	0.192537145	2.383615494	
SLC38A7	0.305998742	0.192537145	2.383688372	
CTPS2	-0.306121008	0.192537145	-2.384739264	
CEP70	-0.305986823	0.192537145	-2.383585935	
HDAC10	0.305968668	0.192537145	2.383429903	
TAS2R13	-0.305835471	0.192988024	-2.382285237	
LOC100130858	0.305506826	0.193071192	2.379461588	
CEPT1	-0.30491509	0.193071192	-2.374379896	
PDLIM5	-0.304934392	0.193071192	-2.374545608	
DUS4L	-0.30560524	0.193071192	-2.380307044	
HPS5	-0.304912709	0.193071192	-2.374359451	
ANKRD13B	0.305696432	0.193071192	2.38109053	
ASB5	0.305527187	0.193071192	2.379636504	
LCN6	0.305138738	0.193071192	2.376300171	yes
MIER3	-0.305075378	0.193071192	-2.375756108	
ERG	0.305037641	0.193071192	2.375432088	
FGR	0.305408604	0.193071192	2.378617867	
KIAA0947	-0.305321129	0.193071192	-2.377866536	
RBMXL2	0.304884502	0.193071192	2.374117289	
GTF3A	-0.305163759	0.193071192	-2.37651504	
ACADM	-0.30534066	0.193071192	-2.378034288	
LOC340096	0.304934797	0.193071192	2.37454908	
KCNJ12	0.305065761	0.193071192	2.375673533	
RND3	-0.305603944	0.193071192	-2.380295911	
PCSK2	-0.305242417	0.193071192	-2.377190529	
RAPGEF6	-0.30572781	0.193071192	-2.381360133	
MBNL3	-0.305306106	0.193071192	-2.377737511	
RGL3	0.305583271	0.193071192	2.380118303	

PXMP3	-0.305004783	0.193071192	-2.375149957	
REG1A	0.305241746	0.193071192	2.377184767	yes
SAT1	-0.305428551	0.193071192	-2.378789209	yes
OBFC2A	-0.305140087	0.193071192	-2.376311757	
RASL11B	0.305128387	0.193071192	2.376211288	
SOX12	0.305184847	0.193071192	2.376696132	
SRP68	-0.304905825	0.193071192	-2.374300347	
XRCC3	0.304972375	0.193071192	2.374871713	
ZNF33B	-0.30566733	0.193071192	-2.380840491	yes
CENPT	0.305016403	0.193071192	2.375249735	
CUL5	-0.305232906	0.193071192	-2.377108849	
CAT	-0.305289406	0.193071192	-2.377594082	
ORAI1	0.305532119	0.193071192	2.379678871	
LTV1	-0.30504995	0.193071192	-2.375537771	
TAF1C	0.305283699	0.193071192	2.37754507	
CCNT2	-0.305126208	0.193071192	-2.37619258	
MAP7	-0.305363844	0.193071192	-2.378233413	
TJP2	-0.305165413	0.193071192	-2.376529244	
HDAC4	0.305012258	0.193071192	2.375214144	
FIG4	-0.305093666	0.193071192	-2.375913145	
PPA2	-0.304833096	0.193190742	-2.373675985	
LTBP4	0.304796584	0.19324985	2.373362554	
C8orf77	0.304736314	0.193405568	2.372845202	
PLBD2	0.30470269	0.193453038	2.372556585	
LATS2	0.304609205	0.193475262	2.371754213	
VENTX	0.304599391	0.193475262	2.371669981	
RPL23AP32	0.304565705	0.193475262	2.371380872	
S100PBP	-0.304584248	0.193475262	-2.371540014	
SCARNA6	0.304606686	0.193475262	2.371732589	
SCARNA5	0.304574209	0.193475262	2.371453857	
POP1	-0.304503403	0.193505105	-2.370846201	
LRTM2	0.304492717	0.193505105	2.370754501	
PLXNA4	0.304496855	0.193505105	2.370790008	

ABCA1	-0.304448637	0.193572581	-2.370376237	
SHC1	0.304410544	0.193572581	2.370049362	
YES1	-0.304414015	0.193572581	-2.370079144	
PLEKHG4	0.304302567	0.193638081	2.369122877	
GNB3	0.304241293	0.193638081	2.368597164	
INO80	-0.304219935	0.193638081	-2.368413925	
SRGAP1	-0.304361495	0.193638081	-2.369628486	
BAX	0.304282907	0.193638081	2.36895419	
RYR3	0.304301268	0.193638081	2.369111731	
ZMYM2	-0.304231625	0.193638081	-2.368514217	
RNF128	-0.304306539	0.193638081	-2.369156951	
ATE1	-0.30412503	0.19393543	-2.367599757	
GNAI1	-0.304094909	0.193969405	-2.367341368	
DNAJA2	-0.304048599	0.194055617	-2.366944122	
ZNF358	0.304030204	0.194055617	2.366786344	yes
AKT2	0.303975686	0.194100512	2.366318719	
MICAL3	0.303992124	0.194100512	2.366459715	
SNORD116-12	0.30376624	0.194156321	2.364522473	
OSBPL5	0.303727971	0.194156321	2.364194313	
TADA1L	-0.30384598	0.194156321	-2.365206296	
ANKRD22	-0.303912612	0.194156321	-2.365777746	
WDSUB1	-0.303697521	0.194156321	-2.363933204	
EIF5	-0.303691227	0.194156321	-2.363879236	yes
ETV3	-0.303918199	0.194156321	-2.36582566	
NLRP1	0.303707853	0.194156321	2.364021804	
GTF2H3	-0.303889943	0.194156321	-2.365583324	
HNRNPD	-0.303703418	0.194156321	-2.363983775	
AGK	-0.303751151	0.194156321	-2.364393083	
ABHD8	0.303659384	0.194156321	2.3636062	
CLIP4	-0.303636861	0.194156321	-2.363413082	
TTYH3	0.30366442	0.194156321	2.363649382	
SCGB3A1	0.303640264	0.194156321	2.363442262	
USP20	0.303390327	0.194182463	2.361299517	

ADAT3	0.303483238	0.194182463	2.36209599	
LRR37B	-0.303452896	0.194182463	-2.361835879	
MARVELD2	-0.303583022	0.194182463	-2.362951466	yes
CDR2L	0.303590096	0.194182463	2.363012115	yes
IRAK1	0.303509637	0.194182463	2.362322306	
CYB5R4	-0.303464463	0.194182463	-2.361935033	
C6orf203	-0.303360143	0.194182463	-2.361040775	
RXFP1	0.303539802	0.194182463	2.362580919	
BXDC1	-0.303363117	0.194182463	-2.361066268	
SLC35B4	-0.303384534	0.194182463	-2.361249852	
ARHGEF1	0.303368628	0.194182463	2.361113507	
AQR	-0.30335017	0.194182463	-2.360955289	
TBC1D15	-0.303318663	0.194223123	-2.360685225	
GPR146	0.30326449	0.194310696	2.360220901	
ZNF226	-0.303254137	0.194310696	-2.360132162	
C19orf66	0.303230747	0.194318464	2.359931692	
RPL35P1	0.303198599	0.194361866	2.359656169	
WNT1	0.30305499	0.194858946	2.358425466	
TAL1	0.302987023	0.195048465	2.357843062	yes
MYO5B	-0.302837017	0.195573114	-2.35655782	
LOC100129478	-0.30280686	0.195608652	-2.35629946	
CD300LB	0.302642074	0.195756546	2.354887846	
TMEM200B	0.302646954	0.195756546	2.354929646	
MSH3	-0.302675629	0.195756546	-2.355175272	
MTRR	-0.302687836	0.195756546	-2.355279837	
RARS	-0.302712771	0.195756546	-2.355493428	
CCT6A	-0.302718701	0.195756546	-2.355544229	
AKR1C2	-0.302596908	0.195853676	-2.354500975	
COG3	-0.302569834	0.195876878	-2.354269082	
TYSND1	0.302496648	0.196001237	2.353642269	
LOC541472	0.302514173	0.196001237	2.353792357	
TOMM40	0.30243307	0.196018646	2.353097779	
IKZF5	-0.302429774	0.196018646	-2.353069551	

SFRS2IP	-0.302428283	0.196018646	-2.353056778	
CSDA	-0.302375411	0.196147577	-2.352604012	
PTS	-0.302322735	0.196275798	-2.352152936	
CTBS	-0.302288371	0.196311635	-2.351858683	
C1orf86	0.302271305	0.196311635	2.351712552	
GLMN	-0.302208814	0.196480208	-2.351177499	
AGA	-0.302139485	0.196514309	-2.350583922	
ZNF490	-0.302176965	0.196514309	-2.350904815	
CCDC8	0.302136549	0.196514309	2.350558788	
TSPAN9	0.301587643	0.196808873	2.345860716	
DHRS4	0.301583809	0.196808873	2.345827911	
WDR92	-0.301325684	0.196808873	-2.343619516	
TRAPPC6B	-0.301260738	0.196808873	-2.34306396	
LRRC15	0.301832893	0.196808873	2.347959483	
CCDC122	-0.301266281	0.196808873	-2.343111371	
FCER1G	0.301879699	0.196808873	2.348360091	
FCN1	0.301519928	0.196808873	2.345281324	
DNAJB5	0.301862433	0.196808873	2.348212317	
PTPN23	0.301909253	0.196808873	2.348613055	
CHMP2B	-0.301387577	0.196808873	-2.344148988	yes
SNORD45B	-0.301312621	0.196808873	-2.343507769	
LOC284297	0.301699587	0.196808873	2.346818632	
MGC33407	0.301404772	0.196808873	2.344296092	
CARD10	0.301466879	0.196808873	2.34482744	yes
SNX15	0.301338411	0.196808873	2.343728388	yes
ITIH4	0.301591907	0.196808873	2.345897196	
FRRS1	-0.302003478	0.196808873	-2.349419598	
FAM177B	-0.301294188	0.196808873	-2.343350094	
TAS2R14	-0.301697454	0.196808873	-2.346800376	
YTHDF2	-0.301615787	0.196808873	-2.346101539	
IWS1	-0.301674679	0.196808873	-2.346605485	
RFXAP	-0.301596334	0.196808873	-2.345935075	
CCL18	0.301574271	0.196808873	2.345746298	

ZNF732	0.302032916	0.196808873	2.349671601	
BMP8B	0.301346606	0.196808873	2.343798497	
C1QB	0.301578825	0.196808873	2.34578526	
MCPH1	-0.301310106	0.196808873	-2.343486257	
C17orf70	0.301828476	0.196808873	2.347921679	
UBXN6	0.301461034	0.196808873	2.344777431	
USHBP1	0.301622265	0.196808873	2.346156971	yes
ALKBH7	0.301352475	0.196808873	2.343848698	
CCNH	-0.301647168	0.196808873	-2.346370059	
FMNL3	0.301763876	0.196808873	2.347368811	
FBXO44	0.301744795	0.196808873	2.347205508	yes
SEC22B	-0.301791295	0.196808873	-2.347603467	
CD58	-0.301521099	0.196808873	-2.345291338	
LRBA	-0.301997342	0.196808873	-2.349367074	yes
BOC	0.301183619	0.196952569	2.342404321	
C20orf72	-0.301202615	0.196952569	-2.342566799	
GPD1L	-0.301070195	0.197159211	-2.341434235	
MIER1	-0.301075977	0.197159211	-2.341483683	
RPL27	0.301097343	0.197159211	2.341666419	
C1QTNF4	0.300904728	0.197528538	2.340019237	
FBXO16	-0.300896231	0.197528538	-2.339946583	
PTAR1	-0.300954152	0.197528538	-2.340441869	
PIGC	-0.300927701	0.197528538	-2.340215681	
SH3GLB1	-0.30074509	0.198063058	-2.33865431	
PAICS	-0.300635456	0.198169471	-2.337717043	
SLC35A3	-0.300659646	0.198169471	-2.337923834	
POU3F4	0.300669526	0.198169471	2.338008301	
COL27A1	0.300648464	0.198169471	2.337828246	
SMCR7	0.300612751	0.198176812	2.337522956	
MXN1	0.300546838	0.198297798	2.336959522	
TAS2R10	-0.300530297	0.198297798	-2.336818132	
CMAS	-0.300485491	0.198297798	-2.336435158	
GSTCD	-0.30047884	0.198297798	-2.33637831	

FBXO11	-0.300503882	0.198297798	-2.336592348
STARD3	0.300355358	0.198312404	2.335322947
HUS1	-0.300361796	0.198312404	-2.335377969
KCNC1	0.300350153	0.198312404	2.33527846
GDAP2	-0.300450054	0.198312404	-2.336132271
UBA5	-0.300382471	0.198312404	-2.335554657
SNX27	-0.300351004	0.198312404	-2.335285731
PTER	-0.300275246	0.198534762	-2.334638319
ZFC3H1	-0.300133451	0.198835086	-2.333426697
PRKAA2	-0.300106342	0.198835086	-2.333195071
SLC25A40	-0.300098213	0.198835086	-2.333125614
FAM160B2	0.300167371	0.198835086	2.333716522
C11orf80	-0.300156317	0.198835086	-2.333622073
CST8	0.299878804	0.198981122	2.331251193
PITRM1	-0.299583687	0.198981122	-2.328730622
KTI12	-0.299918449	0.198981122	-2.331589846
GATA5	0.300015835	0.198981122	2.332421804
CSPG4	0.300041583	0.198981122	2.332641781
SBNO2	0.29968296	0.198981122	2.329578421
LDOC1	0.299827042	0.198981122	2.330809045
GIGYF2	-0.299859041	0.198981122	-2.331082377
GJA4	0.299648808	0.198981122	2.329286756
GPR4	0.299637391	0.198981122	2.329189248
BRF1	0.299783886	0.198981122	2.33044042
HDAC2	-0.299719832	0.198981122	-2.329893332
EHD3	0.299753438	0.198981122	2.330180361
ICAM4	0.299569796	0.198981122	2.328612002
RPS15AP17	0.2995341	0.198981122	2.328307175
LMO2	0.299731533	0.198981122	2.329993268
C5orf53	-0.299552423	0.198981122	-2.328463647
YARS2	-0.29982413	0.198981122	-2.330784165
PHAX	-0.299524534	0.198981122	-2.328225491
SPRR3	-0.299549706	0.198981122	-2.328440444

CTA-216E10.6	-0.299914458	0.198981122	-2.331555759	
FLJ14100	0.299961214	0.198981122	2.331955175	
FYTTD1	-0.299937699	0.198981122	-2.331754294	yes
BTAf1	-0.29954402	0.198981122	-2.328391885	
SHF	0.29968864	0.198981122	2.329626931	
PMPCB	-0.299596393	0.198981122	-2.328839131	
FSTL3	0.299033804	0.199128783	2.324036087	yes
SUGT1	-0.299153805	0.199128783	-2.325060358	
CHM	-0.299022422	0.199128783	-2.323938941	
PLK5P	0.299358514	0.199128783	2.326807939	yes
DDX6	-0.299275354	0.199128783	-2.326097965	
C9orf4	0.299190184	0.199128783	2.325370892	yes
TMSB15B	-0.299100972	0.199128783	-2.324609379	
AGRN	0.299048067	0.199128783	2.324157821	
PPIAP19	0.299384975	0.199128783	2.32703386	
DACT1	0.299218216	0.199128783	2.325610185	
TMEM138	-0.299110637	0.199128783	-2.324691883	
ADI1	-0.299022896	0.199128783	-2.323942983	
PPP2R5C	-0.299160908	0.199128783	-2.325120987	
PLEKHH1	0.299393351	0.199128783	2.32710537	
KIAA1430	-0.29899621	0.199128783	-2.323715223	
RPS26	0.299181205	0.199128783	2.325294243	
BDKRB2	-0.29900162	0.199128783	-2.323761393	
FIGNL1	-0.299287711	0.199128783	-2.326203458	
LOC729602	0.29920377	0.199128783	2.325486866	
SMC6	-0.299193073	0.199128783	-2.325395554	
C3orf36	0.299041688	0.199128783	2.324103371	
PGBD1	0.299080637	0.199128783	2.324435817	
TNKS1BP1	0.299438804	0.199128783	2.327493457	
RG9MTD2	-0.299011872	0.199128783	-2.323848896	
COL1A2	0.298951005	0.199204531	2.323329423	
RPAP3	-0.29893693	0.199204531	-2.3232093	
C7orf54	-0.298912348	0.199221663	-2.322999513	

RDH10	-0.298692028	0.199262942	-2.321119506	
CLDN15	0.298719897	0.199262942	2.321357287	
ATAD2	-0.298603201	0.199262942	-2.320361657	
IGBP1	-0.29886048	0.199262942	-2.32255688	
LOC388282	0.298793909	0.199262942	2.321988813	
OR5K4	0.298667588	0.199262942	2.32091098	
TRIM37	-0.29878202	0.199262942	-2.321887368	yes
PNN	-0.298596955	0.199262942	-2.320308369	
DOK4	0.298640663	0.199262942	2.320681258	
RING1	0.298791958	0.199262942	2.321972169	
DNAJB14	-0.298688087	0.199262942	-2.321085878	
PTGES2	0.298639692	0.199262942	2.320672974	
WISP2	0.298628053	0.199262942	2.320573674	
BRE	-0.2986351	0.199262942	-2.320633803	
KIAA0427	0.298858181	0.199262942	2.322537265	yes
SHOC2	-0.298568351	0.199297047	-2.320064341	
PDP2	-0.298446839	0.199546236	-2.319027765	
RPL32	-0.298465607	0.199546236	-2.319187864	
DGAT1	0.298486868	0.199546236	2.319369222	
FRS3	0.298389136	0.199700119	2.318535565	
LOC100129434	0.298048848	0.199804089	2.31563353	
LOC100133387	0.298134414	0.199804089	2.316363161	
COL4A3BP	-0.296941025	0.199804089	-2.306192503	
LRPPRC	-0.297379756	0.199804089	-2.309930206	
SMNDC1	-0.2981751	0.199804089	-2.316710114	
MYL12A	-0.297348692	0.199804089	-2.309665505	
CHL1	-0.297048535	0.199804089	-2.307108266	
CAPN9	-0.297557926	0.199804089	-2.31144856	
MMP24	0.29738799	0.199804089	2.310000364	
RAB32	0.297335223	0.199804089	2.309550739	
C1QTNF6	0.297080547	0.199804089	2.307380968	
C1orf122	0.297310418	0.199804089	2.309339385	
APOOL	-0.297015127	0.199804089	-2.306823693	

RIMS4	0.297709555	0.199804089	2.312740931	
CSTF2	-0.296950938	0.199804089	-2.306276935	
GPR180	-0.298057658	0.199804089	-2.315708645	
TOR1AIP2	-0.298023602	0.199804089	-2.315418259	
DQX1	-0.297616504	0.199804089	-2.311947813	
ZNF92	-0.297005672	0.199804089	-2.306743151	
ZNF675	-0.296959954	0.199804089	-2.30635373	
SENP5	-0.297665108	0.199804089	-2.312362076	
FOXE3	0.297749375	0.199804089	2.313080364	
EXPH5	-0.298303473	0.199804089	-2.317804922	yes
KIAA0323	0.29785603	0.199804089	2.313989571	
KIAA0368	-0.297037952	0.199804089	-2.307018119	
INTS7	-0.297118671	0.199804089	-2.307705737	
GORASP2	-0.297290151	0.199804089	-2.309166702	
IL1F5	0.297144036	0.199804089	2.307921821	
DKKL1	0.297556361	0.199804089	2.311435217	
HOXD4	0.297929964	0.199804089	2.314619892	yes
IFNE	-0.296842138	0.199804089	-2.305350269	
KRT13	-0.297229885	0.199804089	-2.308653219	
C2orf66	-0.297496901	0.199804089	-2.310928472	
PBX2	0.297036905	0.199804089	2.307009197	
NMD3	-0.298337617	0.199804089	-2.318096138	
NDUFAF1	-0.296876499	0.199804089	-2.305642916	
ANAPC11	0.297855984	0.199804089	2.313989174	
FXVD6	0.297529281	0.199804089	2.31120443	
GNB1L	0.297322665	0.199804089	2.309443732	
SRBD1	-0.297013074	0.199804089	-2.306806203	
LGI2	0.297386521	0.199804089	2.309987849	
PREP	-0.297583503	0.199804089	-2.311666544	
KIF21A	-0.29754884	0.199804089	-2.311371121	
NHP2	0.297646573	0.199804089	2.312204096	
CAMK1D	-0.298070412	0.199804089	-2.3158174	
KIAA1219	-0.297792738	0.199804089	-2.313450007	

RFC1	-0.297246472	0.199804089	-2.308794542	
SNORA52	0.296897664	0.199804089	2.305823182	
SDC2	0.297291627	0.199804089	2.309179271	
C14orf133	-0.297203898	0.199804089	-2.308431814	
LOC643699	0.298148723	0.199804089	2.316485182	
TNS3	0.296902	0.199804089	2.305860114	
CCDC14	-0.297240196	0.199804089	-2.308741071	
SS18	-0.297333783	0.199804089	-2.30953847	yes
SYT1	-0.298113581	0.199804089	-2.316185504	
TEK	0.297764152	0.199804089	2.313206325	
UGDH	-0.298141487	0.199804089	-2.316423477	
UGT2B17	0.296919858	0.199804089	2.306012212	
ZNF28	-0.297575526	0.199804089	-2.311598555	
TFEB	0.297437189	0.199804089	2.310419619	
FAM184A	-0.297117088	0.199804089	-2.307692251	
VCPIP1	-0.297752971	0.199804089	-2.313111021	
SLCO5A1	0.296823379	0.199804089	2.305190509	
C18orf21	-0.298119648	0.199804089	-2.316237243	
CUL2	-0.297931808	0.199804089	-2.314635606	
TTF2	-0.29746833	0.199804089	-2.310684996	
GLIS2	0.29764922	0.199804089	2.312226655	
FAM136A	-0.296846184	0.199804089	-2.305384732	
PRIC285	0.298011472	0.199804089	2.315314837	
MYOZ3	0.298178795	0.199804089	2.316741622	
MRRF	-0.297129903	0.199804089	-2.307801423	
MMP20	0.297095109	0.199804089	2.307505013	
FEZ1	0.298141153	0.199804089	2.316420622	yes
MLL4	0.298120442	0.199804089	2.316244016	
ZBTB24	-0.297762879	0.199804089	-2.313195479	
DENND4B	0.297879592	0.199804089	2.314190437	
KIAA0020	-0.297638795	0.199804089	-2.312137799	
MXRA8	0.296797648	0.199828621	2.304971374	
MAP3K2	-0.296766218	0.199876516	-2.304703707	

TNFRSF14	0.296740965	0.199899148	2.304488649	
DNASE1L1	0.296632057	0.200183777	2.303561253	
LZTR1	0.29664461	0.200183777	2.303668149	
TNK2	0.296478478	0.200196953	2.302253631	
C10orf137	-0.296599798	0.200196953	-2.303286578	
SLC25A24	-0.296442442	0.200196953	-2.301946844	
C1orf110	-0.296471106	0.200196953	-2.30219087	yes
hCG_1983332	0.296444366	0.200196953	2.301963224	
PCMT1	-0.296495038	0.200196953	-2.302394626	
ZFR	-0.296557218	0.200196953	-2.30292403	
LRDD	0.296432029	0.200196953	2.301858192	
OBFC1	-0.296487661	0.200196953	-2.302331818	
HNRPLL	-0.296445965	0.200196953	-2.301976837	
ZNF503	0.296402811	0.200236174	2.301609455	
HMG20B	0.296231133	0.200283623	2.300148073	
ADH7	-0.296125955	0.200283623	-2.299252882	
PACRGL	-0.296322478	0.200283623	-2.300925601	
DNMT3A	0.296259734	0.200283623	2.300391514	
EDN1	0.296002089	0.200283623	2.29819875	yes
CRTC2	0.296053878	0.200283623	2.298639479	
KIN	-0.296089903	0.200283623	-2.298946061	
FBXO4	-0.295988238	0.200283623	-2.298080883	
EIF2AK1	-0.295981825	0.200283623	-2.298026317	
NDUFS7	0.296331185	0.200283623	2.300999724	
NDN	0.296353406	0.200283623	2.301188879	
ASXL2	-0.296061686	0.200283623	-2.298705925	yes
BDP1	-0.296006481	0.200283623	-2.298236131	
RAB1A	-0.296111415	0.200283623	-2.299129141	
RNASE4	-0.295980192	0.200283623	-2.298012415	
SNORD5	-0.296039197	0.200283623	-2.298514539	
ZNF154	0.295992487	0.200283623	2.298117043	
CACNB1	0.296275536	0.200283623	2.30052602	
B3GNT5	-0.296189647	0.200283623	-2.299794963	yes

HAND1	0.296054237	0.200283623	2.29864253	
G3BP2	-0.29599271	0.200283623	-2.298118945	
PSG4	0.29595895	0.200290746	2.297831662	
WNT3	0.295934156	0.200312434	2.297620682	
C17orf50	0.295658031	0.200417082	2.2952714	
FAM91A1	-0.295844629	0.200417082	-2.296858918	
GOLGA4	-0.295781503	0.200417082	-2.296321831	
JMJD8	0.295838977	0.200417082	2.296810825	
KLHL17	0.295698346	0.200417082	2.295614367	
C9orf106	0.29565573	0.200417082	2.295251827	
MSH2	-0.295661899	0.200417082	-2.295304308	
PKN2	-0.29585849	0.200417082	-2.296976849	
LOC645195	0.295657013	0.200417082	2.295262742	
FAM128A	0.295672339	0.200417082	2.29539312	
UCN	0.29578161	0.200417082	2.296322736	
CFHR5	0.295717924	0.200417082	2.295780918	
TTC37	-0.295723022	0.200417082	-2.295824296	
ARL10	0.295581176	0.200563363	2.294617634	yes
ORC2L	-0.295589867	0.200563363	-2.294691557	
IFNA16	0.295523386	0.200633099	2.294126071	
RPL26P19	0.295508842	0.200633099	2.294002359	
PLSCR3	0.295505973	0.200633099	2.293977959	
SIX6	0.295436663	0.200837582	2.293388451	
SLC30A9	-0.29541205	0.200850163	-2.293179126	
C14orf106	-0.295356136	0.200850163	-2.292703598	
PCDHB12	0.295371633	0.200850163	2.292835385	
LPPR4	0.295367404	0.200850163	2.292799423	
DNAJC18	0.295241746	0.201022209	2.291730828	
HARS	-0.295262027	0.201022209	-2.291903288	
KCNA5	0.29521746	0.201022209	2.291524322	
ASAP3	0.295218605	0.201022209	2.291534055	
VTN	0.295249165	0.201022209	2.291793921	
OR5H15	0.295190403	0.20105392	2.291294253	

ZNF277	-0.295116122	0.201198674	-2.290662663	
FAM124A	0.295097166	0.201198674	2.290501488	
NOC3L	-0.295113098	0.201198674	-2.290636948	
GABRB1	0.29507631	0.20120507	2.29032417	
UNQ5814	0.295017641	0.201216904	2.289825372	
FTCD	0.294992105	0.201216904	2.289608278	
CHST14	0.295043125	0.201216904	2.290042031	
HIPK2	-0.294979935	0.201216904	-2.28950482	
MRPS18C	-0.294965511	0.201216904	-2.289382194	
HCCA2	0.294957782	0.201216904	2.289316495	
FLJ32810	-0.294923287	0.201279383	-2.289023249	
TGFA	-0.294874668	0.201320918	-2.28860996	yes
BRAP	-0.294877005	0.201320918	-2.288629825	
MOSPD1	-0.294816312	0.201402474	-2.288113922	
RNF170	-0.29482656	0.201402474	-2.288201033	
CDC2L6	-0.294777379	0.201483297	-2.287783003	
LARGE	0.294716353	0.201654816	2.287264318	
ZNF770	-0.29464622	0.201863861	-2.286668272	
DNAJC24	-0.294574269	0.201889687	-2.286056815	
STRN3	-0.294563127	0.201889687	-2.28596213	
PTCD3	-0.294599452	0.201889687	-2.286270824	
ZCCHC7	-0.294567918	0.201889687	-2.286002845	
ZNHIT6	-0.294508661	0.201955809	-2.285499297	
CBX4	0.29451574	0.201955809	2.285559454	
YWHAQ	-0.294398579	0.20213289	-2.284563941	
OPA1	-0.294401618	0.20213289	-2.284589755	
WNT4	0.29441265	0.20213289	2.284683496	
VRK1	-0.294388893	0.20213289	-2.28448164	
ENGASE	0.294330654	0.20221484	2.283986831	
MED13	-0.294338736	0.20221484	-2.284055495	
DCUN1D1	-0.294260966	0.202297418	-2.283394783	
FAM107B	-0.294270337	0.202297418	-2.283474396	
H2AFV	-0.29425316	0.202297418	-2.283328471	

KIF13B	-0.294226277	0.202301323	-2.283100091	
FAM108A5	0.294213971	0.202301323	2.282995552	
SCARA5	0.294151649	0.202321908	2.282466146	
RPL36P14	0.294158726	0.202321908	2.282526263	
MGMT	0.294161921	0.202321908	2.282553403	
KCNH3	0.294073944	0.202562909	2.281806108	
SLC4A9	0.294022146	0.202697495	2.281366152	
ADAD2	0.293912919	0.202731303	2.280438497	yes
TMEM186	-0.29394879	0.202731303	-2.280743136	
HLX	0.293884074	0.202731303	2.28019353	
LRP1	0.293880462	0.202731303	2.280162853	
EVL	0.293886514	0.202731303	2.280214255	
XKR8	0.293886099	0.202731303	2.280210733	
PSMD10	-0.293936696	0.202731303	-2.280640421	
HAAO	0.293794104	0.202868326	2.279429518	
MUTYH	0.293790054	0.202868326	2.279395127	
MFF	-0.293801215	0.202868326	-2.279489897	
SEC24B	-0.293761543	0.202884171	-2.279153022	
MRPL45	-0.293734756	0.202884171	-2.278925574	
ProSAPiP1	0.293729145	0.202884171	2.278877931	yes
PAPOLA	-0.293618971	0.203090577	-2.277942488	yes
ASCC3	-0.293603009	0.203090577	-2.277806974	
LOC100133419	0.293643984	0.203090577	2.278154856	
ZFP91	-0.293628394	0.203090577	-2.278022497	
ZNF443	-0.293547988	0.203141682	-2.277339855	
KCTD18	-0.293533658	0.203141682	-2.277218207	
SLC35E4	0.293564284	0.203141682	2.277478207	
DEFB112	0.293500636	0.203199563	2.276937871	
NPB	0.293455138	0.203286793	2.276551645	
ZFAND1	-0.293441539	0.203286793	-2.276436206	
HLA-DMA	0.293403655	0.2033648	2.276114626	
UCHL3	-0.293371167	0.203420608	-2.275838855	
C4orf15	-0.293302222	0.203626783	-2.275253665	

XRN2	-0.293282192	0.20363128	-2.275083668	
LRRN4CL	0.293239932	0.203649428	2.274724997	
TP53I13	0.29324095	0.203649428	2.274733636	
SLC18A3	0.293185999	0.203793873	2.274267281	
ENDOG	0.293165562	0.203800145	2.274093841	
NDUFS1	-0.293102835	0.203981015	-2.273561533	
DEAF1	0.293041093	0.203996327	2.273037605	
PDE12	-0.293005249	0.203996327	-2.272733465	
BZW2	-0.292968423	0.203996327	-2.272420993	
C1orf95	0.293008152	0.203996327	2.272758095	
RAB7A	-0.293000239	0.203996327	-2.272690952	
MYOM1	0.292966898	0.203996327	2.272408056	
FGF16	0.293047641	0.203996327	2.273093172	
LIN7C	-0.292927782	0.204002066	-2.272076174	
RNF34	-0.292939336	0.204002066	-2.272174205	
FARSB	-0.292850561	0.204077054	-2.271421022	
RASSF1	0.292834234	0.204077054	2.271282507	
ENSA	-0.292846573	0.204077054	-2.271387184	
GPR27	0.292876318	0.204077054	2.271639542	
EPRS	-0.292813794	0.204083695	-2.271109104	
SNORD116-24	0.292708458	0.204134914	2.270215527	
SEC23B	-0.292602261	0.204134914	-2.269314737	
FAM173B	-0.292650114	0.204134914	-2.269720625	
CCDC117	-0.2924765	0.204134914	-2.268248115	
CXorf38	-0.292481856	0.204134914	-2.268293543	
EBF1	0.292552744	0.204134914	2.268894755	yes
CYS1	0.292556128	0.204134914	2.268923456	
SNORD42B	-0.292486103	0.204134914	-2.26832956	
TMEM70	-0.292558314	0.204134914	-2.268941994	
OXSM	-0.292545772	0.204134914	-2.26883562	
KLHL7	-0.292690536	0.204134914	-2.270063496	
SPRR2D	-0.292714131	0.204134914	-2.270263649	
ZNF33A	-0.29263085	0.204134914	-2.269557225	

C4orf14	-0.292584921	0.204134914	-2.269167665	
KIAA1755	0.292718676	0.204134914	2.2703022	
ADAM20	-0.292463443	0.204134914	-2.268137387	
ZMYM6	-0.292473497	0.204134914	-2.268222647	
SNORD25	-0.292579727	0.204134914	-2.26912361	
DNASE1	0.292362148	0.204447996	2.26727838	
CCAR1	-0.292350137	0.204447996	-2.267176525	
NDST1	0.292249525	0.204763645	2.266323399	
HSD3B7	0.292236313	0.204763645	2.266211376	
TNIP1	0.291978766	0.204786938	2.26402795	
GLCCI1	-0.292027975	0.204786938	-2.264445093	
ZNF501	-0.291971193	0.204786938	-2.263963755	
ZNF428	0.292045147	0.204786938	2.264590659	
SGMS1	-0.29215511	0.204786938	-2.265522902	
ACSM2B	-0.291949631	0.204786938	-2.263780987	
CHCHD10	0.291876714	0.204786938	2.263162923	
CYP39A1	-0.291909292	0.204786938	-2.263439061	
PGD	-0.291919454	0.204786938	-2.263525197	
ATP6V1B1	0.29214079	0.204786938	2.265401497	
POLB	-0.291940571	0.204786938	-2.263704187	
GPR172B	0.292123182	0.204786938	2.265252209	
BRUNOL6	0.292169083	0.204786938	2.265641364	
SMS	-0.292148404	0.204786938	-2.265466046	
UBE2H	-0.292105746	0.204786938	-2.265104396	
VASP	0.29185772	0.204786938	2.263001938	
EFTUD1	-0.291949579	0.204786938	-2.263780542	
ZNF671	0.291964101	0.204786938	2.263903642	
CTSF	0.291939471	0.204786938	2.263694863	
RQCD1	-0.29186416	0.204786938	-2.263056519	yes
CRH	0.291767731	0.20478873	2.262239243	yes
EFNA2	0.291755939	0.20478873	2.262139309	
SCFD1	-0.291799774	0.20478873	-2.262510812	
DPY19L1	-0.291821531	0.20478873	-2.262695215	

HOXB2	0.291815276	0.20478873	2.262642194	
UBL5	0.291745856	0.20478873	2.262053854	
CD109	-0.291577275	0.20498954	-2.260625266	
CREM	-0.291485453	0.20498954	-2.259847256	
DSG3	-0.291473146	0.20498954	-2.259742982	
IMMP1L	-0.291507644	0.20498954	-2.260035271	
FAM126B	-0.291539799	0.20498954	-2.260307721	
RRM2B	-0.291516606	0.20498954	-2.260111208	
RASA1	-0.291652228	0.20498954	-2.261260406	
KIAA0895L	0.291557146	0.20498954	2.260454712	
UBE2G1	-0.291473774	0.20498954	-2.259748297	
CEP97	-0.291515474	0.20498954	-2.260101616	
ZNF552	-0.291674692	0.20498954	-2.261450769	
USP14	-0.291456473	0.20498954	-2.259601718	
ZNF276	0.291494199	0.20498954	2.259921354	
WIZ	0.291411186	0.205100219	2.259218026	
RASGRP2	0.291297862	0.205186958	2.258257981	yes
USP16	-0.291333364	0.205186958	-2.258558731	
SNORD44	-0.291312965	0.205186958	-2.258385924	
ACHE	0.291300692	0.205186958	2.258281962	yes
TARBP2	0.291333578	0.205186958	2.258560546	
CTDSPL2	-0.291226302	0.205406377	-2.257651804	
SNORD115-48	0.291189155	0.205483681	2.257337154	
B3GNT2	-0.291098614	0.20549657	-2.256570269	
PLK4	-0.291038675	0.20549657	-2.256062627	
SSX2IP	-0.291046129	0.20549657	-2.256125755	
DRD4	0.29106456	0.20549657	2.25628185	
MRPS10	-0.291044937	0.20549657	-2.256115661	yes
SCARNA4	0.291124566	0.20549657	2.25679008	yes
TFAP2B	0.291065221	0.20549657	2.256287446	
ZNF613	-0.291102694	0.20549657	-2.256604823	
TMEM123	-0.290915744	0.205517178	-2.255021572	
GLOD5	0.290978249	0.205517178	2.255550884	

ST20	0.291000932	0.205517178	2.255742981	
FAM35A	-0.290922124	0.205517178	-2.255075591	
BMP2K	-0.290896492	0.205517178	-2.254858544	
CDK5RAP2	-0.290911042	0.205517178	-2.254981748	
RB1	-0.29096541	0.205517178	-2.255442154	
COPB2	-0.290886689	0.205517178	-2.254775527	
C6orf162	-0.290852932	0.205580826	-2.254489683	
HELQ	-0.290799568	0.205725546	-2.254037826	
ACN9	-0.290752634	0.205843761	-2.253640441	
HDAC5	0.290597337	0.205962469	2.252325662	
CISH	0.290681191	0.205962469	2.253035567	
DONSON	-0.290664696	0.205962469	-2.252895914	
LOXL1	0.290643756	0.205962469	2.252718639	
TM9SF3	-0.290590322	0.205962469	-2.252266274	
GALNTL1	0.290577384	0.205962469	2.252156753	yes
TMEM49	-0.290680788	0.205962469	-2.253032154	
MIXL1	0.290594243	0.205962469	2.25229947	
FUSIP1	-0.290540782	0.206037757	-2.251846904	
NDUFA3	0.290522598	0.206037757	2.251692978	
LOC100133142	0.290177436	0.206155939	2.248771672	yes
LZTS1	0.290137588	0.206155939	2.248434477	
MSI2	-0.290050002	0.206155939	-2.247693368	
DUSP9	0.290153661	0.206155939	2.248570488	
E2F5	-0.290201453	0.206155939	-2.248974917	
C6orf1	0.290005368	0.206155939	2.247315719	
INPP5F	-0.290070301	0.206155939	-2.247865129	
MGC72080	-0.290268822	0.206155939	-2.249545032	
MGAT2	-0.289997534	0.206155939	-2.247249438	
OTUD6B	-0.289991421	0.206155939	-2.247197719	
HES4	0.290354182	0.206155939	2.250267459	
PYGL	-0.290085503	0.206155939	-2.247993758	
SNRNP70	0.29018763	0.206155939	2.248857937	
TAF10	0.290320954	0.206155939	2.249986233	

SERPING1	0.290374789	0.206155939	2.250441868	
ZNF75A	-0.290091286	0.206155939	-2.24804269	
TMEM38A	0.29018243	0.206155939	2.248813931	yes
NUDT18	0.289984158	0.206155939	2.24713627	
ZNF614	-0.290127275	0.206155939	-2.248347217	
AMN	0.29004616	0.206155939	2.247660864	
C21orf56	0.290115039	0.206155939	2.248243672	
RAX2	0.290279483	0.206155939	2.249635256	
ATAD1	-0.290102252	0.206155939	-2.248135478	
WASL	-0.290318838	0.206155939	-2.249968328	
UAP1L1	0.29035167	0.206155939	2.250246194	yes
VAPA	-0.290423437	0.206155939	-2.250853626	yes
ZNF764	0.290325378	0.206155939	2.250023676	
NCOR1	-0.290013378	0.206155939	-2.247383491	
RAB10	-0.28992092	0.206192566	-2.246601254	
SUB1	-0.289955526	0.206192566	-2.246894032	
NRBF2	-0.289934607	0.206192566	-2.246717048	
GIMAP8	0.289882778	0.206200501	2.246278574	
OTUD3	-0.289891089	0.206200501	-2.246348882	
CCDC9	0.28984589	0.20627811	2.245966515	yes
SMC4	-0.289699289	0.206670931	-2.244726428	
HRSP12	-0.289680129	0.206670931	-2.244564368	
CEBPD	0.289507149	0.206670931	2.243101383	
SIX2	0.289389391	0.206670931	2.242105584	
RAPGEF4	0.289448736	0.206670931	2.242607415	
SAMD8	-0.289076842	0.206670931	-2.239463104	
CSNK1G3	-0.289120685	0.206670931	-2.239833736	
ZMAT2	-0.289059105	0.206670931	-2.239313171	
KIAA2026	-0.289305688	0.206670931	-2.241397832	
DKC1	-0.289496983	0.206670931	-2.243015412	
ALCAM	-0.289596005	0.206670931	-2.24385286	
TFIP11	-0.289290384	0.206670931	-2.241268438	
MFSD8	-0.28925432	0.206670931	-2.240963522	

POT1	-0.289094092	0.206670931	-2.239608933
HACL1	-0.289201818	0.206670931	-2.240519635
CKAP2	-0.289232331	0.206670931	-2.240777611
MRPL46	-0.289206227	0.206670931	-2.240556917
HNRNPA2B1	-0.289155805	0.206670931	-2.240130633
HNRNPK	-0.289580206	0.206670931	-2.243719237
HNRNPU	-0.289048892	0.206670931	-2.239226836
LOC401431	0.289426633	0.206670931	2.242420508
MXRA7	0.289152862	0.206670931	2.240105752
MYLK	0.289359449	0.206670931	2.241852406
NPM1	-0.289530238	0.206670931	-2.243296644
YBX2	0.289176923	0.206670931	2.240309171
WBP11	-0.289400369	0.206670931	-2.242198419
PRPF39	-0.289088414	0.206670931	-2.239560932
KLHL9	-0.289223642	0.206670931	-2.240704148
GOLPH3	-0.289343413	0.206670931	-2.241716808
PAPD5	-0.289189177	0.206670931	-2.240412766
GPBP1	-0.289257607	0.206670931	-2.240991309
SRP54	-0.289257726	0.206670931	-2.240992316
TRAF2	0.289413172	0.206670931	2.242306681
EOMES	0.289207239	0.206670931	2.240565468
CIRH1A	-0.289191424	0.206670931	-2.240431766
C19orf2	-0.289632914	0.206670931	-2.244165023
COPS2	-0.289476254	0.206670931	-2.242840121
CD151	0.289095212	0.206670931	2.239618401
RNF144A	0.289535449	0.206670931	2.24334072
DNAJC2	-0.288975736	0.206677616	-2.23860846
ASPH	-0.28900277	0.206677616	-2.238836977
SNX14	-0.288977945	0.206677616	-2.238627135
CEP76	-0.289013408	0.206677616	-2.238926895
hCG_1771830	0.288957263	0.206680101	2.238452318
RAB18	-0.288924775	0.206740465	-2.238177725
CXorf55	0.288845351	0.206839023	2.23750645

PDIK1L	-0.28881165	0.206839023	-2.237221626	yes
FHL3	0.288854497	0.206839023	2.237583746	
TOMM7	0.288829389	0.206839023	2.237371541	
ZNF628	0.288833381	0.206839023	2.237405281	
JOSD2	0.288673182	0.20708699	2.236051479	
MRPL55	0.288691089	0.20708699	2.236202794	
DLEU7	0.288626865	0.20708699	2.2356601	
IQSEC2	0.288651253	0.20708699	2.235866178	
TMED7	-0.288661215	0.20708699	-2.235950355	
DPY30	-0.288631862	0.20708699	-2.235702329	yes
DPM1	-0.28863268	0.20708699	-2.235709235	
ZC3H8	-0.288607847	0.207092013	-2.235499403	
LIN52	-0.288568696	0.207180248	-2.2351686	
NGLY1	-0.288513586	0.207334513	-2.234702969	
DLEU2	-0.288473532	0.207426589	-2.234364567	
ARIH1	-0.288402903	0.207603146	-2.233767873	
THY1	0.288377514	0.207603146	2.233553396	yes
ARHGAP11B	-0.288382757	0.207603146	-2.233597687	
PARP10	0.288308193	0.207816569	2.232967805	
GGT7	0.288217517	0.2078516	2.23220188	
LOC442461	0.28821975	0.2078516	2.232220737	
NFE2	0.28824791	0.2078516	2.232458598	yes
PSPC1	-0.288278691	0.2078516	-2.232718602	
CANX	-0.288210935	0.2078516	-2.232146279	
GLYATL1	0.288190149	0.207864194	2.231970715	
TTC28	0.288130731	0.207971404	2.231468869	
ZNF841	-0.288124509	0.207971404	-2.231416317	
CLDN10	-0.288111059	0.207971404	-2.231302729	
CDKL3	-0.288072924	0.208055961	-2.230980656	
THRA	0.2880337	0.208071651	2.230649399	
C2orf49	-0.28804987	0.208071651	-2.230785958	
ADAM10	-0.287857145	0.208363276	-2.229158513	
FAM135A	-0.287899048	0.208363276	-2.229512331	

SBF1	0.287900823	0.208363276	2.229527322
FKBPL	0.287861933	0.208363276	2.229198945
RPS28P6	0.287896828	0.208363276	2.229493586
BCAR1	0.28785983	0.208363276	2.229181187
KLHL12	-0.287794047	0.208514126	-2.228625756
TXNRD1	-0.287785412	0.208514126	-2.228552844
TNPO3	-0.287699093	0.208579039	-2.22782408
FXYD5	0.287731593	0.208579039	2.228098466
SH3RF1	-0.287714671	0.208579039	-2.227955597
FDXACB1	-0.287730254	0.208579039	-2.228087157
DLC1	0.287663903	0.208638435	2.227527
C6orf141	0.287649471	0.208638435	2.227405162
TRGV5	0.287551003	0.20882746	2.226573936
GFI1B	0.287553949	0.20882746	2.226598803
RBM18	-0.287572054	0.20882746	-2.226751635
HIGD1B	0.287477922	0.208984514	2.225957065
APBA3	0.287491156	0.208984514	2.226068771
BBS10	-0.287456648	0.208999672	-2.225777499
METAP2	-0.287435553	0.209009733	-2.225599457
MRPS35	-0.28741899	0.209009733	-2.22545966
SKIV2L2	-0.287344468	0.209246226	-2.224830705
DDX21	-0.287289319	0.20940234	-2.224365278
MTF2	-0.287261318	0.209437033	-2.224128979
FLVCR1	-0.287193002	0.209437033	-2.223552491
FAM33A	-0.287213112	0.209437033	-2.223722188
NFKBIL1	0.287231014	0.209437033	2.223873256
MARK4	0.287198291	0.209437033	2.223597119
QRFP	0.287111191	0.209704304	2.222862166
CCDC124	0.287069851	0.209745156	2.222513353
CLK2	0.287043975	0.209745156	2.222295035
DSC3	-0.287061437	0.209745156	-2.222442364
NIP7	-0.287013536	0.209745156	-2.222038214
ZNF45	-0.287016104	0.209745156	-2.222059886

DTX3	0.286990816	0.209766663	2.221846529	
CEACAM7	-0.286857703	0.210097138	-2.220723558	
SNORA2B	-0.286849532	0.210097138	-2.220654634	
LRRC31	-0.2868413	0.210097138	-2.220585188	
EEF1E1	-0.286881674	0.210097138	-2.220925776	
ZNF653	0.286749271	0.210137967	2.219808904	
FUT8	-0.286760021	0.210137967	-2.219899582	
MAOA	-0.286758404	0.210137967	-2.219885939	
MOCS1	0.286743887	0.210137967	2.219763497	
NME1	-0.286751432	0.210137967	-2.219827131	
MEP1A	0.286676184	0.210259554	2.219192454	
RSRC1	-0.286662201	0.210259554	-2.219074518	
ZNF562	-0.286673959	0.210259554	-2.219173684	
C7orf46	-0.286552937	0.210423452	-2.218153011	
RBP1	0.286594627	0.210423452	2.218504605	
SNORA23	0.2865533	0.210423452	2.218156072	
TXN	-0.286570246	0.210423452	-2.218298987	
SEC11B	-0.286268636	0.210801495	-2.215755741	
TMEM154	-0.286389128	0.210801495	-2.216771671	yes
FAP	0.286317609	0.210801495	2.216168641	
FOXL1	0.286273264	0.210801495	2.215794758	
ZBTB7A	0.28634209	0.210801495	2.216375051	
SCOC	-0.286379337	0.210801495	-2.216689108	
PBLD	-0.286349968	0.210801495	-2.216441475	
FASTKD1	-0.286278997	0.210801495	-2.215843088	
DCTN5	-0.286252899	0.210801495	-2.215623063	
LOC91431	-0.286256139	0.210801495	-2.215650376	
TM9SF2	-0.286272311	0.210801495	-2.215786718	
WTAP	-0.286283794	0.210801495	-2.215883534	
SNHG10	0.286231732	0.210817131	2.2154446	
AHDC1	0.28606333	0.210819283	2.214024956	
C11orf67	0.286057277	0.210819283	2.213973935	
LOC375295	0.286115976	0.210819283	2.214468742	yes

LOC440944	-0.286102191	0.210819283	-2.214352541	
FAR2	-0.286092768	0.210819283	-2.214273107	
PSG6	0.286085464	0.210819283	2.214211536	
SC5DL	-0.286088349	0.210819283	-2.214235854	
CALB1	0.286079344	0.210819283	2.214159946	
SESN2	0.286060979	0.210819283	2.214005143	
LRRCC1	-0.28606298	0.210819283	-2.214022004	
GNAI3	-0.286026751	0.210840522	-2.213716622	
EIF2B3	-0.285985089	0.210840522	-2.213365453	
ORMDL1	-0.286005873	0.210840522	-2.213540641	
KIAA0232	-0.285982748	0.210840522	-2.213345723	yes
DARS	-0.285945574	0.21092322	-2.213032394	
EMP3	0.285899786	0.210989563	2.21264648	
RP5-1077B9.4	0.285877655	0.210989563	2.212459961	
TCL1B	0.285881959	0.210989563	2.21249623	
C6orf115	-0.285853248	0.21101909	-2.212254264	
SNORD45A	-0.285810264	0.211126166	-2.211892007	
SPHK1	0.285773306	0.211208134	2.211580551	yes
HBS1L	-0.285674378	0.211240945	-2.210746907	
DDX42	-0.285510465	0.211240945	-2.209365822	
KRBA2	-0.285482469	0.211240945	-2.209129957	
FAM43B	0.285502615	0.211240945	2.209299689	
MEGF8	0.285547173	0.211240945	2.209675098	
GALK1	0.285402811	0.211240945	2.20845888	
C11orf20	0.285493845	0.211240945	2.2092258	yes
GALT	0.28553952	0.211240945	2.209610617	
PNKD	0.285537155	0.211240945	2.209590692	
BREA2	-0.285516733	0.211240945	-2.209418633	
FHOD1	0.285424255	0.211240945	2.208639531	
SUFU	0.28574573	0.211240945	2.211348164	
BTBD2	0.285631694	0.211240945	2.210387244	
NDUFA4L2	0.28572584	0.211240945	2.21118056	
VAR52	0.285625066	0.211240945	2.210331396	

THOC2	-0.285418911	0.211240945	-2.208594505	
SFRS1	-0.285464323	0.211240945	-2.208977086	
MPPED1	0.285557357	0.211240945	2.209760903	
ZNF165	-0.285692519	0.211240945	-2.210899773	
CBLL1	-0.285565365	0.211240945	-2.209828374	yes
CALN1	0.285405737	0.211240945	2.208483527	
UIMC1	-0.285375975	0.211281076	-2.208232802	
CBARA1	-0.285319112	0.211290186	-2.207753805	
RPS7P4	0.285299562	0.211290186	2.207589125	
RTTN	-0.285290815	0.211290186	-2.207515447	
UCN2	0.285287788	0.211290186	2.207489946	
S1PR2	0.285330583	0.211290186	2.207850434	
GAMT	0.285232754	0.211376369	2.207026389	
TSNAX	-0.285248147	0.211376369	-2.207156042	
C14orf49	0.285113471	0.211455431	2.206021739	
PLAC2	0.285152067	0.211455431	2.206346794	
LMAN1	-0.285108392	0.211455431	-2.205978957	
ANKIB1	-0.285093654	0.211455431	-2.205854838	
FLJ36848	0.285108309	0.211455431	2.205978266	
DEK	-0.285176605	0.211455431	-2.206553466	
ZBTB22	0.285156234	0.211455431	2.206381892	
ANKAR	-0.28507198	0.211474319	-2.20567231	
C3orf35	-0.285002974	0.211547722	-2.205091183	
ARF4	-0.285003964	0.211547722	-2.205099517	
C13orf1	-0.285034095	0.211547722	-2.205353255	
FLJ22184	0.28495879	0.211660597	2.204719116	
MFN1	-0.284874103	0.21194266	-2.204006012	
C7orf44	-0.284821073	0.212092683	-2.203559509	
GDI2	-0.284778575	0.212198766	-2.203201692	
DLG1	-0.284679271	0.212538006	-2.202365658	
PIGB	-0.28466325	0.212538006	-2.202230786	
SNX26	0.284620989	0.212613355	2.201875019	
ACP1	-0.284611033	0.212613355	-2.201791211	

PDCD6IP	-0.284563323	0.212664397	-2.201389596	yes
TUBA1B	0.284326807	0.212664397	2.199398906	
ATG7	-0.284259334	0.212664397	-2.198831081	
AKAP13	-0.284520567	0.212664397	-2.201029692	
WDFY2	-0.284251109	0.212664397	-2.198761864	
SEZ6	0.284269492	0.212664397	2.198916562	
LIX1L	0.284360201	0.212664397	2.199679948	yes
C15orf43	0.2844299	0.212664397	2.200266551	
FUT1	0.284287748	0.212664397	2.199070197	
RPAP1	0.284285899	0.212664397	2.199054633	
GDF2	0.284503827	0.212664397	2.200888792	
PDCD4	-0.284339741	0.212664397	-2.199507756	
APOE	0.284516998	0.212664397	2.200999651	
NCL	-0.284353427	0.212664397	-2.199622935	
PGM5	0.284298339	0.212664397	2.19915932	
SERPINB13	-0.284261491	0.212664397	-2.198849231	
ABCD3	-0.284326406	0.212664397	-2.199395531	
C16orf58	0.284322974	0.212664397	2.199366643	
DLK2	0.284240686	0.212664397	2.198674151	yes
BAT4	0.284488095	0.212664397	2.200756373	
LRRTM4	0.284358894	0.212664397	2.199668942	
SRFBP1	-0.284194673	0.212683789	-2.198286956	
FAM162B	0.284204536	0.212683789	2.198369954	
SLC8A3	0.284185055	0.212683789	2.19820602	
SUPT7L	-0.284139639	0.212802699	-2.197823864	
LOC642776	0.284099338	0.21290026	2.197484765	
ARSA	0.284043623	0.213062407	2.197015995	
SEMA6C	0.283994231	0.213127059	2.196600433	
PUS7L	-0.283996759	0.213127059	-2.196621709	
ECD	-0.283828563	0.213181891	-2.195206745	
HSF1	0.283898281	0.213181891	2.195793227	
MVD	0.283865326	0.213181891	2.195515999	
ATP6V1C1	-0.283952717	0.213181891	-2.196251174	

PPP1CC	-0.283843688	0.213181891	-2.195333974	
HDAC8	-0.283881424	0.213181891	-2.195651418	
NECAB3	0.28382959	0.213181891	2.195215383	
ZFP36L2	0.283938094	0.213181891	2.196128154	
STXBP3	-0.283844158	0.213181891	-2.195337927	
C8orf79	-0.28379751	0.213241032	-2.194945531	
CDC42EP1	0.283741499	0.213306954	2.194474401	
MAK16	-0.283752443	0.213306954	-2.194566447	
TMPRSS11D	-0.283731005	0.213306954	-2.194386132	
EPM2AIP1	-0.283709572	0.213325888	-2.194205856	
SH3RF3	0.283674047	0.21340387	2.193907056	
CROT	-0.28365612	0.213408154	-2.193756279	
LENG8	0.283459338	0.213820275	2.192101382	
COL8A2	0.283482183	0.213820275	2.192293488	yes
NQO1	-0.283439582	0.213820275	-2.191935256	yes
C22orf9	0.283450957	0.213820275	2.192030905	
CCDC28A	-0.283444135	0.213820275	-2.191973544	
KIAA1429	-0.283528076	0.213820275	-2.192679426	
METTL9	-0.283467936	0.213820275	-2.19217368	
TRUB1	-0.283383644	0.213881768	-2.191464886	
FOXO1	0.283401535	0.213881768	2.191615325	
RESP18	0.283374317	0.213881768	2.191386462	
COX8A	0.283326624	0.213940403	2.19098545	
GART	-0.28332888	0.213940403	-2.19100442	
CDC34	0.28330769	0.213949138	2.190826259	
LOC100130100	0.283138069	0.214516759	2.189400213	
C7orf11	-0.283108362	0.214516759	-2.189150485	
PIK3R5	0.283152306	0.214516759	2.189519899	
ARHGAP11A	-0.283105142	0.214516759	-2.189123421	
PYDC1	0.283081516	0.214545305	2.188924812	
MPG	0.283050159	0.214606369	2.188661224	
TCP10L	0.28296785	0.214743638	2.18796937	
WBP1	0.282964375	0.214743638	2.187940162	

C1orf66	0.282989597	0.214743638	2.188152165	
ATF7IP	-0.282950229	0.214743638	-2.187821267	
ZNF511	0.282761714	0.215080004	2.186236914	
AP4E1	-0.282742449	0.215080004	-2.186075025	
ARCN1	-0.282755483	0.215080004	-2.186184552	
NPAT	-0.282805535	0.215080004	-2.186605179	
NIF3L1	-0.282745785	0.215080004	-2.186103058	
SNORA28	-0.282742979	0.215080004	-2.186079474	
MED14	-0.282735909	0.215080004	-2.186020067	
UBE3C	-0.282850574	0.215080004	-2.186983698	
AGTRAP	0.282700628	0.215157894	2.18572359	
USP26	0.28267148	0.215179471	2.185478657	
GORAB	-0.282661958	0.215179471	-2.185398643	
MYSM1	-0.282514264	0.215393355	-2.184157678	
UNC84B	0.282510634	0.215393355	2.184127175	
JARID2	-0.282516822	0.215393355	-2.184179167	
YJEFN3	0.282572436	0.215393355	2.184646437	
PSMD12	-0.282553692	0.215393355	-2.184488948	
CX3CL1	0.282514301	0.215393355	2.184157988	
HLA-DPB1	0.282452456	0.215497408	2.183638395	
PSMD11	-0.282466914	0.215497408	-2.183759864	
RNF187	0.282399553	0.215579322	2.18319396	
FBRS	0.282410821	0.215579322	2.183288614	
LOC100130285	0.282141545	0.215611339	2.18102673	
INMT	0.282227044	0.215611339	2.181744851	yes
GPN1	-0.282153284	0.215611339	-2.181125325	
DACT3	0.282172312	0.215611339	2.18128514	
TCL6	0.282161313	0.215611339	2.18119276	
SYPL2	0.282224617	0.215611339	2.18172447	
TMEM181	-0.282335971	0.215611339	-2.182659826	
TERC	0.282357333	0.215611339	2.18283928	
ZNF227	-0.2822235	0.215611339	-2.181715081	
NUBPL	-0.282365361	0.215611339	-2.182906718	

GRPEL1	-0.282157978	0.215611339	-2.181164747	
GPR101	0.282283889	0.215611339	2.182222333	
MED23	-0.282282158	0.215611339	-2.182207793	
KIAA0391	-0.282172807	0.215611339	-2.181289299	
DAZAP2	-0.282281361	0.215611339	-2.182201096	yes
LOC100128003	0.281979384	0.216224803	2.179664869	
ITGB8	-0.281942871	0.216237333	-2.179358253	
TMEM144	-0.281957862	0.216237333	-2.179484141	
TBC1D17	0.281926444	0.216237333	2.179220316	
BLOC1S3	0.281885161	0.216341326	2.178873659	yes
LQK1	0.281868446	0.216341624	2.178733302	
NENF	0.281817829	0.216414836	2.178308295	yes
ABCD4	0.281833952	0.216414836	2.178443675	
KIAA2018	-0.281717359	0.216527537	-2.177464754	yes
HARBI1	-0.281694739	0.216527537	-2.177274854	
INTS8	-0.28172858	0.216527537	-2.177558964	
PSKH1	0.281718294	0.216527537	2.177472609	
COG6	-0.281691409	0.216527537	-2.177246892	
LIPK	0.281727565	0.216527537	2.17755044	
PIGN	-0.281653564	0.216547111	-2.176929178	
TGFB3	0.281659866	0.216547111	2.176982081	
NUAK1	0.281599931	0.216703544	2.176478935	
EXOC4	-0.281579972	0.216717755	-2.176311385	
CENPF	-0.281540727	0.216736769	-2.175981948	
USP54	-0.281469166	0.216736769	-2.175381276	
PLA1A	0.281443838	0.216736769	2.175168684	
C5orf22	-0.281490569	0.216736769	-2.175560922	
PTMS	0.281524142	0.216736769	2.175842734	yes
CRTC3	0.281459296	0.216736769	2.175298432	
TPST1	-0.281442862	0.216736769	-2.17516049	
FRMPD4	0.281504366	0.216736769	2.175676739	
CTAGE4	-0.281347788	0.216835818	-2.174362528	
KLHDC8B	0.28136598	0.216835818	2.17451521	

C3orf19	-0.281321375	0.216835818	-2.174140854	
LOC541471	-0.281373457	0.216835818	-2.174577959	
C17orf75	-0.281402288	0.216835818	-2.174819944	yes
SNORA55	0.281320137	0.216835818	2.174130465	
NUP98	-0.281286012	0.216910142	-2.173844073	
GJD3	0.281225828	0.216996518	2.173339008	
HABP4	0.281169363	0.216996518	2.172865179	
OR2J2	0.281173897	0.216996518	2.172903227	
GSTM1L	0.28116019	0.216996518	2.172788205	
KCTD17	0.281205792	0.216996518	2.173170872	
LHX3	0.281149964	0.216996518	2.172702395	
KIAA0101	-0.281200953	0.216996518	-2.173130266	
GTF2H4	0.281042289	0.217265129	2.17179892	
PP8961	0.281036925	0.217265129	2.171753914	
DOCK5	-0.281049909	0.217265129	-2.171862849	
WAPAL	-0.280973221	0.217413355	-2.17121943	
LYL1	0.280920445	0.217413355	2.17077666	
TRIM54	0.280919475	0.217413355	2.170768519	yes
C1QA	0.280927102	0.217413355	2.170832511	
FAM115A	0.280958918	0.217413355	2.171099431	yes
ADD3	-0.280888611	0.217421924	-2.17050959	
NDFIP2	-0.280884517	0.217421924	-2.17047525	
CPB1	0.280853654	0.217482846	2.170216339	
C7orf50	0.280833471	0.217498615	2.170047021	
PAK2	-0.280801491	0.217564305	-2.169778756	
DNM1	0.280756582	0.217615309	2.169402046	
ISLR	0.280740265	0.217615309	2.169265179	
RGS21	0.280740104	0.217615309	2.169263829	
POMGNT1	0.280702362	0.21770547	2.168947248	
ANKRD50	-0.280666148	0.217789202	-2.168643495	
SSBP1	-0.280633612	0.217857391	-2.168370611	
MICALL2	0.280593673	0.217956966	2.16803564	
FCHO2	-0.280554902	0.21796249	-2.167710473	

TMEM90A	0.280543115	0.21796249	2.167611622	
JOSD1	-0.280561079	0.21796249	-2.167762275	
KLF2	0.280489829	0.218014676	2.167164748	
ZNF366	0.280475196	0.218014676	2.167042034	
LOC347549	0.28046518	0.218014676	2.166958035	
TGFB1	0.28047732	0.218014676	2.167059846	
ATF6	-0.280444178	0.218033334	-2.166781917	
SH3BGRL2	-0.280427993	0.218033334	-2.166646193	
MAGEH1	0.280368563	0.218064973	2.166147845	
SNORD50B	-0.280378915	0.218064973	-2.166234655	
PLA2G6	0.280380635	0.218064973	2.166249071	
CCDC45	-0.280355009	0.218064973	-2.166034198	
METTL14	-0.280320262	0.218067487	-2.165742846	
JAM2	0.280336304	0.218067487	2.165877357	
SOCS1	0.280305326	0.218067487	2.165617611	
DIMT1L	-0.280235061	0.218223958	-2.165028471	
RSPO4	0.280249541	0.218223958	2.165149882	
C5orf30	-0.280219323	0.218223958	-2.164896525	
FANCF	-0.280194031	0.21826186	-2.16468448	yes
UBE4B	-0.280044134	0.218310876	-2.163427846	
MRPL3	-0.28004984	0.218310876	-2.163475676	
PSTK	-0.279874262	0.218310876	-2.162003966	
CCDC52	-0.279859963	0.218310876	-2.161884121	
DIP2C	0.279872257	0.218310876	2.16198716	
TMEM131	-0.280104883	0.218310876	-2.163937108	yes
GLT8D3	-0.279960323	0.218310876	-2.162725314	
UBXN1	0.279961734	0.218310876	2.162737138	
CEND1	0.279856469	0.218310876	2.161854838	
ATP8B1	-0.27996032	0.218310876	-2.162725288	
PLOD1	0.279913252	0.218310876	2.162330768	
ATP7B	-0.279874911	0.218310876	-2.162009408	
AGGF1	-0.280046044	0.218310876	-2.163443862	
SLAIN2	-0.280083062	0.218310876	-2.163754175	

NSUN3	-0.280012885	0.218310876	-2.163165901	
CCDC136	0.27989743	0.218310876	2.162198152	
ST3GAL3	0.279940232	0.218310876	2.162556905	
C21orf122	0.279996444	0.218310876	2.163028082	
GTPBP10	-0.279909018	0.218310876	-2.162295281	
ATG5	-0.27987774	0.218310876	-2.162033117	
BAT2D1	-0.279837885	0.218320733	-2.161699084	
LOC729135	0.279799672	0.218413695	2.161378815	
HTATIP2	-0.279783231	0.218414513	-2.161241029	
RTN4	-0.279729212	0.218574463	-2.160788325	
NPPC	0.279617264	0.218911245	2.159850206	
ETNK1	-0.279629804	0.218911245	-2.159955289	
RHOA	-0.279521993	0.219108776	-2.159051929	
UEVLD	-0.279523243	0.219108776	-2.159062402	
PRPF4	-0.279543459	0.219108776	-2.159231784	
ZNF638	-0.279489884	0.219125378	-2.158782899	
BIRC2	-0.279435863	0.219125378	-2.158330292	
LIPM	0.279413977	0.219125378	2.158146929	
OPRK1	0.279394099	0.219125378	2.157980401	yes
PTPRH	-0.279388384	0.219125378	-2.15793252	
RANBP17	-0.279449675	0.219125378	-2.158446012	
TWIST1	0.279415203	0.219125378	2.158157201	
URM1	0.279446811	0.219125378	2.158422013	
FZR1	0.279343148	0.219248587	2.157553547	
SNORD83A	0.279241791	0.219279094	2.156704481	
CSNK2A2	-0.279148627	0.219279094	-2.155924123	
PRUNE2	0.279171582	0.219279094	2.156116392	
VPS13A	-0.279253445	0.219279094	-2.156802108	
P4HA3	0.279202156	0.219279094	2.156372487	
CDC40	-0.279146725	0.219279094	-2.15590819	
C12orf48	-0.279141946	0.219279094	-2.155868157	
ZNF512B	0.279263235	0.219279094	2.156884117	
HPS6	0.279259266	0.219279094	2.156850869	

SETDB2	-0.279211914	0.219279094	-2.15645422	
CD14	0.279294737	0.219279094	2.157148001	
MED21	-0.279173931	0.219279094	-2.156136065	
ENO3	0.279110349	0.219344649	2.155603512	
RASGRP4	0.279064544	0.21938	2.15521988	
SLC2A12	-0.279055802	0.21938	-2.155146661	
C19orf10	0.279039299	0.21938	2.155008449	
CDC42SE2	-0.27902741	0.21938	-2.154908879	
JHDM1D	-0.279021369	0.21938	-2.154858285	yes
GPHN	-0.278964301	0.219404465	-2.154380357	
C10orf111	-0.278945839	0.219404465	-2.154225743	
LY6K	0.278949544	0.219404465	2.154256776	
C11orf79	-0.278937223	0.219404465	-2.154153589	
DTNBP1	-0.278935058	0.219404465	-2.15413546	
TFG	-0.278845969	0.219577559	-2.153389438	
RSPO1	0.278863046	0.219577559	2.153532433	
UGT1A6	-0.278861912	0.219577559	-2.153522935	
SOCS4	-0.278723114	0.219615719	-2.15236076	
ATAD3C	0.278723177	0.219615719	2.152361286	
GLRX	-0.278765724	0.219615719	-2.152717521	
IGLL1	0.278644212	0.219615719	2.151700156	
MTERFD1	-0.278784705	0.219615719	-2.15287645	
FBXW7	-0.27866131	0.219615719	-2.15184331	
YLPM1	-0.278691218	0.219615719	-2.152093704	
ST8SIA4	-0.27865663	0.219615719	-2.151804124	
GLT25D1	0.278655234	0.219615719	2.151792435	
TSEN2	-0.27876572	0.219615719	-2.15271749	
DGCR6L	0.278700619	0.219615719	2.152172416	
CAMK2N2	0.278807056	0.219615719	2.153063599	
FAM172A	-0.278619098	0.219654208	-2.151489909	
RILP	0.278582473	0.219741548	2.151183291	
OCLM	-0.278558966	0.219773265	-2.150986503	
SNORA38B	0.278541184	0.219780713	2.150837642	

MAN1A2	-0.278517099	0.219812381	-2.150636025
RPS2P20	0.278501678	0.219812381	2.150506933
RNF217	-0.278484207	0.21981856	-2.150360683
C9orf84	-0.278420651	0.219843854	-2.149828683
DYNC1I2	-0.278435071	0.219843854	-2.149949381
SIRT3	0.278375706	0.219843854	2.149452483
GALK2	-0.278366254	0.219843854	-2.149373372
ZNF747	0.278435495	0.219843854	2.149952937
USP30	-0.278402642	0.219843854	-2.149677943
NAT1	-0.278387917	0.219843854	-2.149554687
DOCK3	0.278345267	0.219865078	2.149197715
CACNA1F	0.278318336	0.219904221	2.148972306
ZCCHC9	-0.278304085	0.219904221	-2.148853034
LEPREL2	0.278246909	0.21995889	2.148374509
ZBTB1	-0.278231754	0.21995889	-2.148247681
TMEM87A	-0.278227335	0.21995889	-2.148210702
ZBTB16	0.278271911	0.21995889	2.14858376
KCNQ1	0.278109298	0.220392186	2.147222909
SSX10	0.277851891	0.22081258	2.145069179
ZBTB6	-0.27785098	0.22081258	-2.145061555
ABCB8	0.277902203	0.22081258	2.1454901
OR6K6	0.277879201	0.22081258	2.145297656
KIAA0892	0.277867327	0.22081258	2.145198316
MNAT1	-0.277945352	0.22081258	-2.145851112
PGK1	-0.277985159	0.22081258	-2.146184172
CCDC21	-0.277935002	0.22081258	-2.145764517
BRCA1	-0.277899893	0.22081258	-2.14547077
TFDP2	-0.277867392	0.22081258	-2.14519886
CA9	0.277827917	0.220842949	2.144868614
C1orf35	0.27770182	0.221278516	2.143813763
CD74	0.27769374	0.221278516	2.143746167
LBX1	0.27764645	0.221292205	2.143350605
POLG2	-0.2775837	0.221292205	-2.142825745

OR4B1	0.277611124	0.221292205	2.143055126	
PCP2	0.277579206	0.221292205	2.142788159	yes
DHDH	0.277611253	0.221292205	2.143056203	
HMGA1	0.277672983	0.221292205	2.143572543	
ABHD10	-0.277610145	0.221292205	-2.143046936	
CPSF6	-0.277494814	0.22158404	-2.142082329	
ADORA2B	-0.277462445	0.221654301	-2.14181162	
EMD	0.277422396	0.221689628	2.141476692	
MARCH4	0.277437015	0.221689628	2.141598948	
WBSR17	0.277329994	0.222016071	2.140703979	
VT11B	-0.277241463	0.222317561	-2.139963705	
MICAL1	0.277227645	0.222317561	2.139848166	
hCG_2004198	0.277111147	0.222319587	2.138874133	
ARPC3	-0.27719491	0.222319587	-2.139574465	
ADAM8	0.277052808	0.222319587	2.138386404	
MFSD10	0.277107551	0.222319587	2.138844076	
B3GALT6	0.277061792	0.222319587	2.138461514	
YDJC	0.277129271	0.222319587	2.139025662	
HEXDC	0.277060434	0.222319587	2.138450159	yes
MT1DP	0.277083597	0.222319587	2.138643806	
NUP133	-0.277107494	0.222319587	-2.138843598	
RAD18	-0.277197341	0.222319587	-2.139594787	
TRIP12	-0.277094681	0.222319587	-2.138736473	
LTBR	0.277027334	0.222360782	2.138173443	
MPP7	-0.276979129	0.222366043	-2.137770473	
GSTA1	-0.276978642	0.222366043	-2.137766401	
SENP1	-0.276978791	0.222366043	-2.137767642	
LOC646049	0.276952632	0.222409592	2.137548971	
COX6B2	0.276913215	0.222510427	2.137219481	
SSR1	-0.276875696	0.222603199	-2.13690586	
NOL11	-0.276802594	0.222831795	-2.136294842	
FBXO2	0.276775845	0.222831795	2.136071279	
CYHR1	0.276774818	0.222831795	2.136062692	

ZNF816A	-0.27672388	0.222866807	-2.135636964	
CPSF3L	0.276744942	0.222866807	2.13581299	
ALPK1	-0.27671926	0.222866807	-2.135598355	yes
LOC100131138	0.276637017	0.222881218	2.134911032	
ASPRV1	0.27665454	0.222881218	2.135057467	
LEKR1	-0.276642755	0.222881218	-2.134958978	
INPP5E	0.276670687	0.222881218	2.135192408	
C6orf100	0.276639999	0.222881218	2.134935951	
TXNL4B	-0.276505644	0.22328662	-2.133813225	
PPP2R2D	-0.27649497	0.22328662	-2.133724032	
LOC644538	0.276504664	0.22328662	2.133805037	
CTSZ	0.276462886	0.223289087	2.133455947	
NKX6-2	0.276465176	0.223289087	2.133475081	
SLC35A1	-0.276363476	0.22340662	-2.132625349	
CATSPER2	-0.276335398	0.22340662	-2.132390767	
PPAPDC2	-0.276364181	0.22340662	-2.13263124	
ATP5F1	-0.276316777	0.22340662	-2.132235194	
CYB5R2	-0.276365325	0.22340662	-2.132640803	
TAF11	-0.276309549	0.22340662	-2.132174812	
ATPBD4	-0.276361024	0.22340662	-2.132604864	
SPSB3	0.276315535	0.22340662	2.132224821	
TRAF3IP2	-0.276278312	0.223473055	-2.131913848	
SNAPC4	0.276248331	0.223495582	2.131663379	
MLLT10	-0.276241624	0.223495582	-2.131607356	
PGLYRP2	0.276178027	0.223700681	2.131076085	
DPF1	0.276162301	0.223700769	2.130944716	
SNORD6	-0.276130567	0.223769457	-2.130679637	
GADD45GIP1	0.276108033	0.223798747	2.130491405	
ZNF300	-0.276090437	0.223806891	-2.13034443	
CCDC15	-0.276070783	0.223823871	-2.130180263	
BRCC3	-0.276051195	0.223840582	-2.130016654	
TMEM174	0.276006503	0.223927905	2.129643371	
REPIN1	0.275999454	0.223927905	2.129584497	

C1orf216	0.27594773	0.224082444	2.129152502	
PPAT	-0.275919883	0.224134645	-2.128919931	
VPS35	-0.275855524	0.224343534	-2.12838245	
FGF13	-0.275818853	0.224427966	-2.128076214	
TBC1D29	0.275747151	0.224427966	2.127477472	
TRMT2A	0.27574076	0.224427966	2.1274241	
HOXB5	0.275799446	0.224427966	2.127914156	
C9orf127	0.275771931	0.224427966	2.127684387	
EXOSC10	-0.275710589	0.224427966	-2.12717217	
PDCD2L	-0.275716177	0.224427966	-2.127218833	
AKR1C3	-0.275747452	0.224427966	-2.127479984	
FADS3	0.2756401	0.224462074	2.126583609	yes
FLJ46838	0.275647886	0.224462074	2.126648617	yes
ZCCHC10	-0.275668404	0.224462074	-2.126819931	
CCDC132	-0.275680785	0.224462074	-2.126923311	
ZNF500	0.275593642	0.224583776	2.126195717	
PRPS1	-0.275580496	0.224583776	-2.126085959	
HOXA3	0.275542487	0.224679901	2.125768629	
EXOC5	-0.275406792	0.224836691	-2.124635816	
F10	0.275375221	0.224836691	2.124372279	
ASTE1	-0.275473248	0.224836691	-2.125190588	
LMOD2	0.27539041	0.224836691	2.124499067	
CAND1	-0.275403401	0.224836691	-2.124607515	
EAF2	-0.275395392	0.224836691	-2.124540657	
RRAS	0.275365555	0.224836691	2.124291588	
MRPL1	-0.275375176	0.224836691	-2.124371903	
NARG2	-0.275458907	0.224836691	-2.12507087	
RPUSD1	0.275235708	0.224876738	2.123207769	
ZBTB12	0.275310112	0.224876738	2.123828797	
DPP7	0.275219056	0.224876738	2.123068784	
KCNMB1	0.275268417	0.224876738	2.123480776	
NTF4	0.275320239	0.224876738	2.123913328	
IRAK4	-0.275197844	0.224876738	-2.122891748	

ATR	-0.275178275	0.224876738	-2.122728422	
ZBTB4	0.275283212	0.224876738	2.123604265	
RYR2	0.27525071	0.224876738	2.123332982	
UGP2	-0.275194336	0.224876738	-2.122862466	
MED7	-0.275290178	0.224876738	-2.123662415	
SLC25A44	-0.275169467	0.224876738	-2.122654915	
KLRA1	-0.275148558	0.22489332	-2.122480406	
NAB2	0.27513453	0.22489332	2.122363337	
CEBPZ	-0.275093643	0.224987066	-2.122022112	
C3orf63	-0.275067299	0.224987066	-2.121802267	
HOXD1	0.275043372	0.224987066	2.121602595	
FBXO40	0.27503507	0.224987066	2.121533309	
PIR	-0.275065503	0.224987066	-2.121787273	
GOSR2	-0.274979475	0.225159172	-2.121069384	
PRDM4	-0.274898393	0.225170866	-2.12039282	yes
LOC283711	0.2749298	0.225170866	2.120654881	
GTF2H1	-0.274884922	0.225170866	-2.120280421	
NEK1	-0.274883738	0.225170866	-2.120270541	
CASKIN2	0.274928622	0.225170866	2.120645051	
MAF1	0.274902394	0.225170866	2.120426204	
RIT1	-0.274862689	0.22519474	-2.120094916	
SBNO1	-0.274837324	0.225196224	-2.119883283	
ZNF140	-0.274831376	0.225196224	-2.119833653	
RIPPLY2	0.27479478	0.225286912	2.119528321	
FRMD3	0.274774313	0.225308351	2.119357565	
ASB8	-0.274716972	0.225327492	-2.118879182	
C9orf72	-0.27473461	0.225327492	-2.119026326	
GCHFR	0.27471419	0.225327492	2.118855978	
COL5A3	0.274700033	0.225327492	2.118737867	
PHF20L1	-0.274683393	0.225327492	-2.118599049	
THAP9	-0.27467708	0.225327492	-2.118546391	
CASP12	0.274535903	0.225469655	2.117368727	
CRHBP	0.274542691	0.225469655	2.117425348	yes

LOC283588	-0.274539772	0.225469655	-2.117401	
ITPK1	0.274554695	0.225469655	2.117525476	
C5orf28	-0.274627598	0.225469655	-2.118133602	
SNIP1	0.27455463	0.225469655	2.117524934	
DDX23	-0.274610394	0.225469655	-2.117990088	
MRPL21	0.274387587	0.225643247	2.116131668	
WDR72	-0.274414077	0.225643247	-2.116352606	
RPL13P12	0.274397243	0.225643247	2.116212207	
TRNAU1AP	-0.27446551	0.225643247	-2.116781577	
C12orf4	-0.274441757	0.225643247	-2.116583468	
SNORD101	-0.274399262	0.225643247	-2.116229039	
C4orf41	-0.274404099	0.225643247	-2.116269387	
NPM2	0.274206643	0.225756976	2.114622695	
KLHDC7B	0.274168015	0.225756976	2.114300598	
DTX2	-0.274064683	0.225756976	-2.113439001	
DYNLL2	0.274223239	0.225756976	2.114761087	
TECPR1	0.274102465	0.225756976	2.113754024	
SNORD35A	0.274133182	0.225756976	2.114010142	
GPR3	0.274107884	0.225756976	2.113799206	
MAGOH	-0.27415782	0.225756976	-2.114215587	
GLRA4	0.274261222	0.225756976	2.115077832	
PLXNA1	0.274058136	0.225756976	2.113384412	
RHBDL2	-0.274097963	0.225756976	-2.113716489	
STRBP	-0.274235194	0.225756976	-2.114860786	yes
CASS4	0.274159609	0.225756976	2.114230504	
WDR48	-0.274053781	0.225756976	-2.113348105	
NR2E1	0.274323876	0.225756976	2.115600332	
THAP7	0.274201461	0.225756976	2.114579488	
C12orf29	-0.274290999	0.225756976	-2.115326154	
TRIP13	-0.274110043	0.225756976	-2.113817212	yes
CLSTN3	0.274163257	0.225756976	2.114260922	
LCMT2	-0.274296695	0.225756976	-2.115373648	
PSMC2	-0.27400478	0.225805432	-2.112939557	

SLC25A1	0.27399725	0.225805432	2.112876782
TAF1B	-0.273996521	0.225805432	-2.112870705
SNORD20	-0.273952929	0.225926851	-2.112507279
MIA3	-0.273930876	0.225955795	-2.112323419
C20orf118	0.273886616	0.225969066	2.111954451
RPGRIP1	0.273893244	0.225969066	2.1120097
BCAS1	-0.273881861	0.225969066	-2.111914805
ATMIN	-0.273849299	0.22602618	-2.111643359
CAPN7	-0.273833284	0.22602618	-2.111509861
SNORD54	-0.27380738	0.22602618	-2.111293924
LILRA5	0.273818091	0.22602618	2.111383215
SFPQ	-0.273775051	0.226099379	-2.111024446
KLHL20	-0.273714934	0.22629204	-2.110523346
C12orf66	-0.273664367	0.226443756	-2.11010187
SH2D6	0.273640645	0.226480058	2.109904161
ADAMTS18	0.273588565	0.226572667	2.1094701
NEB	-0.273595426	0.226572667	-2.109527285
SNORD116-14	0.273442232	0.22707125	2.108250617
CDKAL1	-0.273447937	0.22707125	-2.108298152
LOC729974	0.273423814	0.227084817	2.108097137
LOC220077	0.273323254	0.22711675	2.107259207
NFYC	-0.273295976	0.22711675	-2.107031929
PLLP	0.273369518	0.22711675	2.107644702
POMP	-0.273245467	0.22711675	-2.106611092
MAP1S	0.273298814	0.22711675	2.107055574
ERBB2IP	-0.273233442	0.22711675	-2.106510902
LOC647086	0.27325539	0.22711675	2.106693767
SLC30A5	-0.27325063	0.22711675	-2.106654108
LLPH	-0.273306568	0.22711675	-2.10712018
SPSB2	0.273381	0.22711675	2.107740373
RNMT	-0.273372029	0.22711675	-2.107665625
UBAP2L	-0.273264001	0.22711675	-2.106765516
DEF6	0.273214123	0.227134388	2.106349952

MAP4K5	-0.273009408	0.227362804	-2.104644537	
SMPX	0.272980913	0.227362804	2.104407175	
ZADH2	-0.272963508	0.227362804	-2.104262203	
SYCN	0.273114032	0.227362804	2.105516082	
AQP4	-0.273007851	0.227362804	-2.104631568	
KCNC3	0.272985936	0.227362804	2.104449017	
PCCA	-0.272967874	0.227362804	-2.104298564	
TCEB3B	0.272994224	0.227362804	2.104518051	
DHX32	-0.273093227	0.227362804	-2.105342769	yes
RAB25	-0.272973927	0.227362804	-2.104348984	
JARID1A	-0.272967216	0.227362804	-2.104293083	
SLC4A3	0.273143805	0.227362804	2.105764121	
USP9X	-0.273105626	0.227362804	-2.105446059	
POLQ	-0.272915254	0.227439956	-2.103860274	
ALG11	-0.27292406	0.227439956	-2.10393362	
ZC3HAV1	-0.272889875	0.227483953	-2.103648889	
CIB2	0.272852201	0.227511109	2.103335102	
BRD4	0.272847614	0.227511109	2.103296901	
GSTM1	0.272824409	0.227511109	2.103103633	
FAM3A	0.27282293	0.227511109	2.103091313	
GRIN2A	0.272794737	0.227567303	2.102856517	
PIK3R3	-0.272765873	0.227626419	-2.102616125	
RAD51L1	-0.272739317	0.227675603	-2.102394965	
DNAJB9	-0.272616162	0.228076232	-2.101369401	
NCOR2	0.272623643	0.228076232	2.101431694	
GBGT1	0.272569727	0.228088835	2.100982744	
PDZD4	0.2725948	0.228088835	2.101191521	
RUNX1T1	0.272567831	0.228088835	2.100966951	
CLCN3	-0.272530554	0.228184443	-2.100656563	
IQSEC3	0.272492705	0.228217241	2.100341426	
WDR44	-0.272507063	0.228217241	-2.100460969	
SLC19A2	-0.272147567	0.228439392	-2.097468205	
RRH	-0.27226893	0.228439392	-2.098478429	

COP5	-0.272221825	0.228439392	-2.098086317	
ESM1	0.272035859	0.228439392	2.096538439	
KPTN	0.272114319	0.228439392	2.097191463	
C19orf28	0.272018824	0.228439392	2.096396658	
CPEB2	-0.272182381	0.228439392	-2.097757984	
DNAJC16	-0.272286823	0.228439392	-2.098627381	yes
DICER1	-0.272175763	0.228439392	-2.097702902	
SH3BP1	0.272043611	0.228439392	2.096602956	
PAN3	-0.272297072	0.228439392	-2.098712699	
GTF2I	-0.272274882	0.228439392	-2.098527976	
HAGH	0.272012955	0.228439392	2.096347814	
HRG	0.272181046	0.228439392	2.097746874	
TPRXL	-0.272156399	0.228439392	-2.097541721	
MYH11	0.272031006	0.228439392	2.096498047	
NRGN	0.272099202	0.228439392	2.097065642	yes
PSEN1	-0.272019589	0.228439392	-2.096403033	
PSMA1	-0.272269863	0.228439392	-2.098486203	
RASSF10	0.272252886	0.228439392	2.098344874	
SPAST	-0.27207102	0.228439392	-2.096831082	
UBE2N	-0.272105776	0.228439392	-2.097120357	
METT10D	-0.272014086	0.228439392	-2.096357229	
FRMD8	0.272004131	0.228439392	2.09627438	
TMEM175	0.27239322	0.228439392	2.099513135	
NEURL4	0.272335705	0.228439392	2.099034316	
SLC16A7	-0.272301241	0.228439392	-2.098747411	
PPIG	-0.272037672	0.228439392	-2.096553527	
RPH3AL	0.272305212	0.228439392	2.098780469	
CDX1	0.271975185	0.228447011	2.096033475	yes
CLTA	-0.271961285	0.228447011	-2.095917797	
MAPK8IP2	0.27194445	0.228447011	2.095777696	
AFAP1L2	0.271942302	0.228447011	2.09575982	
HNRNPC	-0.271926448	0.228450665	-2.095627883	
AP2B1	-0.271866803	0.228459874	-2.095131536	

C5orf51	-0.27186923	0.228459874	-2.095151729	
ZC3H15	-0.2718942	0.228459874	-2.095359519	
LOC647302	-0.27186432	0.228459874	-2.095110867	
TMEM121	0.271846155	0.228473569	2.094959709	
LOC100133388	0.271780336	0.228474456	2.094412021	yes
COQ7	-0.27170524	0.228474456	-2.093787177	
STAM2	-0.271605802	0.228474456	-2.092959856	yes
NISCH	0.271717136	0.228474456	2.093886153	
EFHA1	-0.271614761	0.228474456	-2.093034392	
CCT5	-0.271657716	0.228474456	-2.093391767	
NUDT14	0.271591655	0.228474456	2.092842156	
GNA12	0.27181128	0.228474456	2.094669509	
GOLGA1	-0.271605631	0.228474456	-2.092958435	
ATAD2B	-0.271713709	0.228474456	-2.093857644	
EXD2	-0.271751148	0.228474456	-2.094169157	
CSGALNACT1	0.271750556	0.228474456	2.094164233	
TMPRSS4	-0.27160894	0.228474456	-2.092985962	
BACH1	-0.271671956	0.228474456	-2.093510244	
SCN4B	0.271603817	0.228474456	2.092943339	
SPTB	0.271684376	0.228474456	2.093613585	yes
MINA	-0.271776896	0.228474456	-2.094383399	
NUP62CL	-0.27157509	0.228481514	-2.092704344	
DYSFIP1	0.271499982	0.228548019	2.092079518	
STX12	-0.271504259	0.228548019	-2.092115096	
SAC3D1	0.271506353	0.228548019	2.092132514	
MINK1	0.271542635	0.228548019	2.092434342	
CLRN3	0.2714472	0.228646998	2.091640444	
KCNAB3	0.271455556	0.228646998	2.091709948	
DHX57	-0.271395987	0.228754987	-2.091214436	
RAPGEF2	-0.271392346	0.228754987	-2.091184154	
TNFRSF10C	0.271341977	0.228907976	2.090765189	
C12orf61	0.271304211	0.228978971	2.09045107	
DDX59	-0.27129573	0.228978971	-2.090380531	

SLC2A6	0.271166539	0.229086924	2.089306069	yes
C21orf99	0.271209412	0.229086924	2.08966262	
FKBP8	0.271197894	0.229086924	2.089566832	
MTCH1	0.271167276	0.229086924	2.089312192	
MOBK1B	-0.271230316	0.229086924	-2.089836476	
YWHAE	-0.271190529	0.229086924	-2.089505581	yes
ERI1	-0.271198774	0.229086924	-2.08957415	
API5	-0.271130484	0.22917836	-2.089006224	
SNORA1	-0.27104618	0.22947823	-2.088305168	
NSUN2	-0.270992704	0.229495753	-2.087860496	
SFRS7	-0.271025581	0.229495753	-2.088133874	
LOC654342	0.271005129	0.229495753	2.087963809	
KLF5	-0.270982679	0.229495753	-2.087777136	
FLJ38576	0.270966992	0.229499355	2.087646702	
SH3D19	-0.27090268	0.229602426	-2.087111966	
NGFRAP1	0.270898596	0.229602426	2.087078011	
KNG1	0.270927032	0.229602426	2.087314443	
LOC100133425	-0.270844666	0.229771383	-2.086629617	
FZD2	0.270811497	0.229850637	2.086353859	
ESF1	-0.270794227	0.229861164	-2.086210273	
AP2S1	0.270770836	0.22989817	2.086015815	
PRO0628	-0.270635104	0.229997272	-2.084887471	
NXPH3	0.270664364	0.229997272	2.0851307	
C2orf60	-0.270572907	0.229997272	-2.084370468	
COX10	-0.270694025	0.229997272	-2.085377263	
C20orf151	0.270640891	0.229997272	2.084935575	
LCA5L	-0.270595617	0.229997272	-2.084559239	
ANKRD46	-0.270488979	0.229997272	-2.083672885	
NKX2-3	0.270529209	0.229997272	2.084007258	
ABCA12	-0.27048876	0.229997272	-2.08367106	
C10orf114	0.27043718	0.229997272	2.083242363	
NP	-0.270437814	0.229997272	-2.083247638	
AK3	-0.270486966	0.229997272	-2.083656153	

PMS2	-0.270689021	0.229997272	-2.08533567	
PPP3R1	-0.270643211	0.229997272	-2.084954862	
C11orf30	-0.270568444	0.229997272	-2.084333378	yes
MLL3	-0.27044641	0.229997272	-2.083319082	
CCDC90B	-0.270476161	0.229997272	-2.083566345	
SCARNA16	0.270529646	0.229997272	2.084010894	yes
CCDC6	-0.270524219	0.229997272	-2.083965783	
SLC25A21	-0.270570406	0.229997272	-2.084349683	
TMEM116	-0.270684985	0.229997272	-2.08530212	
TBPL1	-0.270405321	0.230071176	-2.082977587	
hCG_2018279	0.270323779	0.230226877	2.082299925	
TSHZ1	-0.270148273	0.230226877	-2.080841544	
CLGN	-0.270183802	0.230226877	-2.081136757	
MGAT4A	-0.270174385	0.230226877	-2.081058507	
GNAQ	-0.27020271	0.230226877	-2.081293869	
LAMA5	0.270161463	0.230226877	2.080951134	
PIK3C3	-0.270325707	0.230226877	-2.082315949	
C1orf26	-0.270319759	0.230226877	-2.082266519	
PRRG2	0.270219847	0.230226877	2.081436263	
HEG1	0.270175487	0.230226877	2.081067667	
RPL3L	0.270260723	0.230226877	2.081775932	
TARS	-0.270190363	0.230226877	-2.081191274	
C14orf138	-0.270267212	0.230226877	-2.081829854	
APOL5	0.270188572	0.230226877	2.081176388	
WDR75	-0.270205903	0.230226877	-2.081320398	
PP13439	-0.270052117	0.230291494	-2.080042612	
PNMA3	0.270064139	0.230291494	2.080142498	
C3orf54	0.270045119	0.230291494	2.079984471	
PAFAH2	-0.270045115	0.230291494	-2.079984446	
APOL3	0.270047164	0.230291494	2.080001463	
C1orf124	-0.27010209	0.230291494	-2.080457811	
SHPRH	-0.269933833	0.230709237	-2.079059931	
ADPRH	0.26988191	0.230870417	2.078628591	

TRAPPC4	-0.269856075	0.230906152	-2.078413983	
SELP	0.269844281	0.230906152	2.078316012	
NSAP11	-0.269811864	0.230919373	-2.078046735	
FAM50A	0.269812513	0.230919373	2.078052129	
FAM101B	0.26978634	0.230966346	2.077834719	yes
RBMX	0.269747519	0.23102235	2.077512265	
CSDE1	-0.269744063	0.23102235	-2.07748356	
MAN1B1	0.269682155	0.231189502	2.076969367	
STRN4	0.269667049	0.231189502	2.076843898	
REN	0.269661481	0.231189502	2.076797657	yes
ZNF234	-0.269536658	0.231558872	-2.075760998	
FAM102B	-0.269534002	0.231558872	-2.075738942	
LOC645106	0.26953231	0.231558872	2.075724896	
DHX8	-0.269485493	0.231588556	-2.075336107	
SLC35C2	0.269481514	0.231588556	2.075303065	
GPRC5B	0.269490815	0.231588556	2.075380303	
NUP155	-0.269454831	0.23164078	-2.075081488	
ABCB9	0.269358193	0.231964621	2.074279049	
EXOC3L	0.269350943	0.231964621	2.074218851	
FOXH1	0.269328188	0.231999871	2.07402991	
TXNRD2	0.269290779	0.232024876	2.073719302	
AK3L1	0.269263905	0.232024876	2.073496183	
PTPN2	-0.269293612	0.232024876	-2.073742829	
ZBED5	-0.269272129	0.232024876	-2.073564465	
UBE2K	-0.269202909	0.23205681	-2.072989772	
ZNF705A	0.269211538	0.23205681	2.073061405	
PCDHGA2	0.269218267	0.23205681	2.073117273	
TP53I11	0.269198078	0.23205681	2.072949662	
LRRC8D	-0.269156976	0.232108418	-2.072608437	
CCNB1	-0.269160415	0.232108418	-2.072636986	
INTS12	-0.269118268	0.232150057	-2.072287094	
RBM4B	-0.269103584	0.232150057	-2.072165197	
SNRNP40	-0.269113852	0.232150057	-2.072250438	

SNAP23	-0.269074573	0.232212672	-2.071924364	
MYO18A	0.269054036	0.232238491	2.071753887	
SNORA73A	0.2690219	0.232314716	2.071487132	
MMADHC	-0.268894577	0.232614592	-2.0704303	
VSIG1	-0.268907011	0.232614592	-2.070533501	
PRIM1	-0.26891858	0.232614592	-2.070629529	
CCDC86	0.268916572	0.232614592	2.07061286	
FLJ46020	-0.268872271	0.232621747	-2.070245169	
MBTPS2	-0.268849209	0.232621747	-2.070053758	
NIT2	-0.268863235	0.232621747	-2.070170168	
KCTD6	-0.268828003	0.232650612	-2.069877757	
ZNF625	0.26876901	0.232780499	2.069388165	
GIN51	-0.268776074	0.232780499	-2.069446788	
VDAC3	-0.2687541	0.232782022	-2.069264428	yes
BOLA1	0.268725852	0.232841582	2.069030001	
LOC100129503	0.268707121	0.232859753	2.06887456	
LOC100131860	-0.268646151	0.232871872	-2.06836861	
CSNK2A1P	-0.268647614	0.232871872	-2.068380754	
ZDHHC21	-0.26867691	0.232871872	-2.068623856	
FBF1	0.268671777	0.232871872	2.068581264	
CDK3	0.268604985	0.232987718	2.068027018	
UQCR	0.268583866	0.233016365	2.067851776	
SKP1	-0.2685642	0.233023691	-2.067688595	
FLYWCH1	0.268553119	0.233023691	2.067596653	
SNORD31	-0.268534049	0.233043461	-2.067438419	
VASH2	0.268498616	0.233077896	2.067144427	
TMEM101	0.268497091	0.233077896	2.067131774	
SNX6	-0.268466994	0.233145694	-2.066882064	
ZNF385D	0.268396699	0.233388563	2.066298856	
NPAS3	0.26838074	0.233394855	2.066166454	
UNC13B	-0.268162285	0.233512704	-2.064354282	
FANCG	0.268154057	0.233512704	2.064286031	
LOC221442	-0.268173371	0.233512704	-2.064446235	

FIGF	-0.268182085	0.233512704	-2.064518517	
OBP2A	0.268194875	0.233512704	2.064624609	
HOXA9	0.26822763	0.233512704	2.064896313	
MCF2	0.268066879	0.233512704	2.063562956	
INSIG2	-0.268304663	0.233512704	-2.065535325	
LOC554206	0.268079542	0.233512704	2.063667982	
ZCCHC8	-0.268223362	0.233512704	-2.064860907	
NUP107	-0.268064045	0.233512704	-2.063539449	
SRF	0.268163274	0.233512704	2.064362485	
SSFA2	-0.268125934	0.233512704	-2.064052771	
ASPSCR1	0.26808863	0.233512704	2.063743358	
HYI	0.268266002	0.233512704	2.065214615	
SPATA22	0.268318985	0.233512704	2.065654135	
VAMP4	-0.268295299	0.233512704	-2.06545765	
H1FX	0.268244639	0.233512704	2.065037404	
PYGO2	0.268139741	0.233512704	2.064167286	
ZMYM5	-0.268072964	0.233512704	-2.063613423	
HSPB6	0.268046569	0.233525883	2.063394507	
E4F1	0.268000155	0.23356823	2.06300957	
FUT4	0.267993514	0.23356823	2.062954488	
THSD1P	-0.268004852	0.23356823	-2.063048521	
DENND1A	0.267948794	0.233637234	2.062583616	
ZNF225	-0.267954153	0.233637234	-2.062628056	
FLT1	0.267914471	0.233723854	2.062298978	
STAG3	0.267866083	0.233871786	2.061897709	
PDGFB	0.267823077	0.23399633	2.061541093	yes
PUSL1	0.267776516	0.234073547	2.061155004	
FBXW5	0.26777861	0.234073547	2.061172366	
CEP152	-0.267726391	0.234164748	-2.060739388	
RPAP2	-0.267712347	0.234164748	-2.060622944	
NUMBL	0.267720465	0.234164748	2.060690247	
HMGB1	-0.267666901	0.234174439	-2.060246133	
ABCG4	0.267695099	0.234174439	2.06047993	

SCYE1	-0.267678518	0.234174439	-2.060342458	
ANKRD5	-0.267649351	0.234188163	-2.060100629	
TAS2R50	-0.267542788	0.23459026	-2.059217159	
KIR3DX1	0.267478829	0.2348067	2.058686945	
S1PR1	0.267462415	0.234815503	2.058550876	
FGFR1OP	-0.267429969	0.234831476	-2.05828192	
C1R	0.267438538	0.234831476	2.058352953	
CYB5B	-0.267396613	0.23491434	-2.058005425	
TSPAN32	0.267332172	0.234921907	2.057471277	
AP4B1	-0.267309566	0.234921907	-2.057283902	
NIPBL	-0.267308602	0.234921907	-2.057275914	
CRIM1	0.267340923	0.234921907	2.057543814	
UBE3A	-0.267365824	0.234921907	-2.05775021	
ACVR2A	-0.267353425	0.234921907	-2.057647437	
TCEA2	0.267254569	0.23509523	2.056828072	
ZNF200	0.267219624	0.235122383	2.056538452	
SPRY4	0.267224592	0.235122383	2.056579624	
TTK	-0.267189295	0.235192183	-2.056287092	
MAPK9	-0.267148795	0.235306489	-2.055951441	
FNTA	-0.267053072	0.235662541	-2.055158186	
HOOK3	-0.267033945	0.235683421	-2.05499969	
SF3B1	-0.266955081	0.235903109	-2.054346203	
NUBP1	-0.26696838	0.235903109	-2.054456398	
BMP1	0.266901952	0.236073067	2.053905982	
OTUD4	-0.266851835	0.236229906	-2.053490745	yes
SPHK2	0.266831209	0.236257439	2.053319856	
KIF18B	0.266740648	0.236273384	2.052569581	
SEP10	-0.266791946	0.236273384	-2.052994566	
NECAP1	-0.266730338	0.236273384	-2.052484169	
PLD1	-0.266759439	0.236273384	-2.052725254	
PHIP	-0.266727218	0.236273384	-2.052458316	
C14orf118	-0.266773195	0.236273384	-2.052839215	
ZBED3	0.266764124	0.236273384	2.052764069	

ACTR3	-0.266638499	0.236379719	-2.051723365	
CRYGA	0.26653009	0.236379719	2.050825381	
FGG	0.26648755	0.236379719	2.050473033	
FOXC1	0.266474143	0.236379719	2.050361984	
MAPK8IP3	0.266501001	0.236379719	2.050584438	
KANK3	0.266530521	0.236379719	2.050828947	
ERC2	0.266593493	0.236379719	2.051350563	
SNORA68	0.266603033	0.236379719	2.05142958	
STXBP6	-0.266536166	0.236379719	-2.050875705	
FLJ45422	0.266553942	0.236379719	2.051022946	
PI15	-0.266553957	0.236379719	-2.051023069	
POLK	-0.266518095	0.236379719	-2.050726026	
UBE2V2	-0.266635607	0.236379719	-2.05169941	
B3GALT4	0.266546266	0.236379719	2.050959364	
SLC6A5	0.266662108	0.236379719	2.05191894	
ARNT2	0.266496617	0.236379719	2.050548127	
ALDH16A1	0.266430605	0.236393369	2.050001391	
RHOQ	0.26644803	0.236393369	2.050145704	
MIF4GD	0.266413945	0.236393369	2.049863404	
AGXT2L1	0.266423124	0.236393369	2.049939426	
PNPLA6	0.266156511	0.236408662	2.047731541	
FASTK	0.266192505	0.236408662	2.048029592	
ADAMTS6	0.266083175	0.236408662	2.047124322	
C6orf192	-0.266223182	0.236408662	-2.048283615	
MTPN	-0.266155246	0.236408662	-2.047721073	
OTOS	0.26613782	0.236408662	2.047576776	
SNX13	-0.266106335	0.236408662	-2.047316087	
FRK	-0.266095745	0.236408662	-2.047228401	yes
ANKRD2	0.26638627	0.236408662	2.0496342	
VSX2	0.26634019	0.236408662	2.049252576	
C9orf119	0.266271516	0.236408662	2.048683864	
KRT18	-0.266107615	0.236408662	-2.04732668	
RHOC	0.26615262	0.236408662	2.047699327	

C15orf53	0.266162826	0.236408662	2.047783833	
ATP5G2	0.26616162	0.236408662	2.047773848	
PHKB	-0.266363048	0.236408662	-2.049441884	
ATP7A	-0.266083264	0.236408662	-2.047125061	
PRPSAP2	-0.266304905	0.236408662	-2.048960369	
RPL37	-0.266336954	0.236408662	-2.049225782	
MAP3K7	-0.266301488	0.236408662	-2.048932072	
SNORA16A	0.266195724	0.236408662	2.048056242	
SNHG3-RCC1	-0.266122422	0.236408662	-2.047449286	
NUDCD1	-0.266110814	0.236408662	-2.047353169	
C13orf31	-0.266030924	0.236476036	-2.046691705	
VPS41	-0.266025217	0.236476036	-2.046644459	
ZMAT4	0.266025933	0.236476036	2.046650387	
POLR1C	-0.265946116	0.236760419	-2.04598957	yes
RNF146	-0.265902901	0.236887675	-2.045631814	
FBXO3	-0.265874564	0.236902433	-2.045397228	
C20orf199	-0.265871173	0.236902433	-2.045369154	
SMARCD2	0.265853174	0.236919191	2.045220155	
WNT11	0.2657986	0.237034201	2.044768399	
RP1L1	0.265806017	0.237034201	2.044829791	
C2orf82	0.265760336	0.237139891	2.044451663	
UBLCP1	-0.265721756	0.237188065	-2.044132321	
RHOBTB2	0.265721024	0.237188065	2.044126264	
MAP3K15	0.265668638	0.237355811	2.04369267	
ERCC4	-0.265636121	0.237436402	-2.043423534	
PFDN2	0.26559252	0.237527213	2.04306267	
PTGER1	0.265587127	0.237527213	2.043018037	yes
USP15	-0.265572863	0.2375277	-2.042899987	
SLC38A10	0.265543327	0.237595276	2.042655541	
MAP9	-0.26552352	0.23762013	-2.042491627	
HLA-DOA	0.265439287	0.237679592	2.041794554	
ATP5G1	0.265464876	0.237679592	2.042006314	
C1orf63	-0.265494471	0.237679592	-2.042251225	

ATP8B2	0.265464519	0.237679592	2.04200336	
TTC35	-0.26544272	0.237679592	-2.041822967	
PSMD14	-0.265361754	0.237930787	-2.041152976	
POM121L2	0.265353859	0.237930787	2.041087653	
ZMYND19	0.265280604	0.237979152	2.040481514	
MOBK13	-0.265263504	0.237979152	-2.040340025	
ATP2C1	-0.265258137	0.237979152	-2.040295623	
CRIPAK	-0.265294738	0.237979152	-2.040598463	
C21orf45	-0.26530108	0.237979152	-2.040650935	
SNORA71D	0.265278084	0.237979152	2.040460661	
INO80E	0.265205682	0.238147732	2.039861624	
DHRS13	0.265067293	0.238399111	2.038716726	
FCN2	0.26508079	0.238399111	2.038828383	
NCAPD3	-0.265115295	0.238399111	-2.039113832	
ATP5C1	-0.265020764	0.238399111	-2.038331822	
C1orf21	-0.265105249	0.238399111	-2.039030729	
C6orf62	-0.265007569	0.238399111	-2.038222665	
STK24	-0.265037686	0.238399111	-2.038471807	
LDB2	0.265102661	0.238399111	2.039009318	
CHD1L	-0.265032413	0.238399111	-2.038428184	
RICS	-0.265016461	0.238399111	-2.038296227	yes
UCHL5IP	0.264986039	0.23843188	2.038044569	
KRR1	-0.264970889	0.238436593	-2.037919254	
C10orf10	0.264894459	0.238673683	2.037287051	
TTC17	-0.264888868	0.238673683	-2.037240807	
WDR31	-0.264873495	0.238679407	-2.037113659	
ZNF155	-0.264841298	0.238759223	-2.036847356	
SSTR2	0.264816701	0.238805594	2.036643917	
KIAA1614	0.264800258	0.23881607	2.036507918	
PLEKHG2	0.264769842	0.238888101	2.036256359	
ZNF828	-0.264717059	0.239058713	-2.035819834	
CCDC144NL	0.264678893	0.239103018	2.035504199	
PCNXL3	0.264689006	0.239103018	2.035587835	

KCNQ2	0.264658393	0.239131433	2.035334671	
LOC441268	0.264528673	0.239641694	2.034261986	
BRWD1	-0.264495524	0.239726016	-2.033987891	
LOC100133333	-0.264456629	0.239729905	-2.033666297	yes
RABAC1	0.264452501	0.239729905	2.03363216	
RAP1GDS1	-0.264464161	0.239729905	-2.033728573	
CMTM1	0.26433989	0.240133626	2.032701118	
TOMM20L	0.264333046	0.240133626	2.032644533	
RG9MTD3	-0.264272593	0.24023623	-2.032144764	
IL4I1	0.264280395	0.24023623	2.032209259	
PIP4K2B	0.264267729	0.24023623	2.032104551	
C2orf86	-0.264236197	0.240259627	-2.031843885	yes
SLC29A3	0.264234377	0.240259627	2.031828835	
DRAP1	0.264214594	0.240285083	2.031665298	
UNQ6126	0.264192273	0.240321776	2.031480785	
LARP7	-0.264140495	0.240444669	-2.031052774	
TULP2	0.26413645	0.240444669	2.031019343	
SFRS16	0.264068245	0.240498446	2.030455576	
COL11A2	0.264068839	0.240498446	2.030460484	
AZI2	-0.264080933	0.240498446	-2.030560444	
TNFRSF1A	0.264074458	0.240498446	2.030506927	
ARL8B	-0.26401238	0.240683688	-2.029993837	
AKAP10	-0.263951604	0.240709817	-2.029491523	
SRPK3	0.263950477	0.240709817	2.029482214	
PCDHB3	-0.263974195	0.240709817	-2.029678231	
DCLRE1A	-0.263978759	0.240709817	-2.029715957	
ACSL3	-0.263837698	0.240913201	-2.028550173	
BCL9L	0.263860433	0.240913201	2.028738053	
DDX51	0.263862562	0.240913201	2.028755649	
PLEKHA3	-0.263837585	0.240913201	-2.028549243	
HELZ	-0.263834599	0.240913201	-2.028524561	
RHBDD3	0.263744507	0.241192539	2.027780083	
KRTAP5-3	0.263743585	0.241192539	2.027772464	

CRCP	-0.263698187	0.241331824	-2.027397339	
C1orf55	-0.263654213	0.241340934	-2.027033994	
ARMC8	-0.263660317	0.241340934	-2.027084428	
SOX11	0.263672155	0.241340934	2.027182241	
PHLPP	-0.263565739	0.241543189	-2.026302996	
PHF2	0.263561417	0.241543189	2.026267291	
SAMD9	-0.263552749	0.241543189	-2.026195673	
IFT74	-0.26358889	0.241543189	-2.026494276	
DHX9	-0.263536209	0.241552164	-2.026059028	
NUP43	-0.263508861	0.241552164	-2.025833085	
NUDT9	-0.263512668	0.241552164	-2.025864533	
LASS6	-0.263316497	0.241729401	-2.024243988	yes
GPR17	0.263330099	0.241729401	2.024356341	
ANKRD13D	0.263364461	0.241729401	2.024640189	
KCNK3	0.263399212	0.241729401	2.024927253	
ME2	-0.263331356	0.241729401	-2.024366723	
ORC5L	-0.263338437	0.241729401	-2.024425218	
PRDX1	-0.263353786	0.241729401	-2.024552005	
KIAA1217	-0.263433147	0.241729401	-2.025207591	
ZNF410	-0.263355723	0.241729401	-2.024568004	yes
EVI5	-0.263393114	0.241729401	-2.024876882	
HIST1H4D	0.263315613	0.241729401	2.024236681	
C17orf101	0.263292256	0.241732858	2.024043749	
DCUN1D5	-0.263273086	0.241732858	-2.023885404	
HERC3	-0.263273275	0.241732858	-2.023886969	
ATP6V1E2	-0.263197253	0.242007599	-2.023259053	
SNORD116-23	0.263098436	0.242237614	2.02244292	
GIGYF1	0.263111639	0.242237614	2.02255196	
BMP4	0.263102676	0.242237614	2.022477936	
NUP37	-0.263089823	0.242237614	-2.022371786	
ACAP3	0.263063679	0.242291994	2.022155875	
HNRNPH3	-0.263036565	0.242350698	-2.021931964	
NEFM	0.262999769	0.242452452	2.021628095	

CSTB	-0.26295633	0.242486642	-2.021269378	yes
VPS33A	-0.262958141	0.242486642	-2.021284339	
FXR1	-0.262936514	0.242486642	-2.021105748	
SCRT2	0.262936577	0.242486642	2.021106271	
BET1	-0.262907372	0.242554454	-2.020865109	
COL3A1	0.262870087	0.242653251	2.020557236	
LOC285943	0.262857386	0.242653251	2.020452363	
FGF4	0.262805108	0.242824013	2.020020715	
PHF3	-0.262747431	0.242895446	-2.019544508	
RPL4	-0.262771806	0.242895446	-2.019745757	
DHX34	0.262755607	0.242895446	2.019612008	
HES3	0.262714918	0.2429784	2.019276074	yes
EPS8	-0.262519333	0.243024815	-2.01766146	yes
TSGA10IP	0.262542785	0.243024815	2.017855053	
EML4	-0.262567099	0.243024815	-2.018055757	
TMOD4	0.262632063	0.243024815	2.018592048	
DHRS4L2	-0.262531182	0.243024815	-2.017759273	
TMEM179B	0.26262658	0.243024815	2.01854679	
VPS28	0.26267378	0.243024815	2.018936447	
PIK3CA	-0.26261443	0.243024815	-2.018446486	
DEF8	0.262569058	0.243024815	2.018071929	
C15orf39	0.262519917	0.243024815	2.017666282	
TEF	0.262510625	0.243024815	2.017589578	
MOGAT2	0.262514778	0.243024815	2.017623861	
FUBP3	-0.262658715	0.243024815	-2.018812075	
DNAJC6	-0.262685936	0.243024815	-2.019036802	
ATF1	-0.262496764	0.243024971	-2.017475162	
LAMP2	-0.26244634	0.243046466	-2.017058946	
ARL2	0.262450862	0.243046466	2.017096275	
NRARP	0.262436655	0.243046466	2.016979008	
LGR6	0.262476875	0.243046466	2.017310991	
CYP2W1	0.262404795	0.243075491	2.016716032	
MFAP5	0.262402507	0.243075491	2.01669715	

hCG_24312	0.262362457	0.243192204	2.01636659
HNRPD	-0.262323525	0.243303988	-2.016045271
TRIM34	-0.26229271	0.243379695	-2.015790944
ANKS3	0.262245365	0.243388757	2.015400213
SLC44A1	-0.262235486	0.243388757	-2.015318686
RRM1	-0.262272479	0.243388757	-2.015623983
HOMER1	-0.262243015	0.243388757	-2.015380817
NOL8	-0.262206104	0.243458147	-2.015076205
LOC100129532	0.262188199	0.243476472	2.014928446
FBXL5	-0.262173468	0.24348068	-2.014806887
ADAM5P	0.262066367	0.243821436	2.013923106
SOX1	0.262065465	0.243821436	2.013915656
AP1M1	0.2620556	0.243821436	2.013834256
METTL6	-0.262016365	0.243864195	-2.013510521
ZNF565	-0.262004678	0.243864195	-2.013414091
PRKAG1	-0.262012362	0.243864195	-2.013477495
NT5C3L	0.261972284	0.243885838	2.013146811
ISL1	-0.261972888	0.243885838	-2.013151793
TRPM1	0.261944042	0.243950344	2.012913791
PWWP2A	0.261919901	0.243996593	2.012714616
LOC100129540	0.261889284	0.244071721	2.012462016
MBP	-0.261824924	0.24429734	-2.011931044
CSNK2B	-0.261796964	0.244333683	-2.011700383
DPP9	0.261789265	0.244333683	2.01163687
CD2BP2	0.261753914	0.24441802	2.011345239
PDXDC1	-0.261742858	0.24441802	-2.01125404
BOD1L	-0.261648357	0.244778491	-2.010474506
RIMBP3C	0.261621868	0.244835402	2.010256014
ITSN1	-0.261608041	0.244835765	-2.010141966
MREG	-0.261583846	0.244882456	-2.009942402
XKRX	-0.261550334	0.244970793	-2.009665994
C8orf45	-0.261513972	0.245008299	-2.009366082
FLJ35776	-0.261500734	0.245008299	-2.0092569

IGSF8	0.261514015	0.245008299	2.009366437	
PGBD3	-0.261452857	0.24516091	-2.008862046	
NSUN6	-0.261396947	0.24532607	-2.008400956	
TRIM24	-0.261388464	0.24532607	-2.008330996	
NSMCE4A	-0.261342833	0.245407398	-2.007954697	
ATPGD1	0.261356371	0.245407398	2.008066333	
C17orf76	0.261261167	0.245711485	2.007281259	
PDS5B	-0.261225754	0.245808626	-2.006989252	
ZNF136	-0.261181004	0.245886177	-2.006620271	
FOXP2	-0.261188443	0.245886177	-2.006681606	
BAHCC1	0.261117416	0.245981061	2.006095979	
PTCD2	-0.261104982	0.245981061	-2.005993465	
TRIM46	0.261119576	0.245981061	2.006113789	
TOMM70A	-0.261125474	0.245981061	-2.006162419	
RBPMS	0.261078486	0.246038377	2.00577501	
CNOT7	-0.26096707	0.246340549	-2.004856474	yes
GNPAT	-0.26095628	0.246340549	-2.004767523	
DDX18	-0.260986149	0.246340549	-2.005013761	
CHST3	0.260978852	0.246340549	2.004953599	
CCT4	-0.260883107	0.246423127	-2.004164318	
HTR1B	0.260901783	0.246423127	2.004318271	
UCKL1	0.260902158	0.246423127	2.004321359	
SUCLG2	-0.26089175	0.246423127	-2.004235567	
BRD3	0.260856029	0.246473169	2.003941108	
FZD6	-0.260844585	0.246473169	-2.003846773	
SPTLC1	-0.26078305	0.246626503	-2.003339555	
HTR7P	0.260790031	0.246626503	2.0033971	
FBXO18	-0.26076863	0.246629846	-2.0032207	
CENPB	0.260602781	0.246689384	2.001853786	
OLFML2A	0.260584373	0.246689384	2.00170208	
KIAA0907	-0.260576187	0.246689384	-2.001634622	
ELMOD2	-0.260682909	0.246689384	-2.002514173	
STAU2	-0.260526516	0.246689384	-2.001225282	

AQP11	0.260658622	0.246689384	2.002314004	
CCDC18	-0.260642757	0.246689384	-2.002183249	
APRT	0.260566179	0.246689384	2.001552144	
ZNF793	-0.260534726	0.246689384	-2.00129294	
KIAA1680	-0.260670257	0.246689384	-2.002409891	
NFATC4	0.260523308	0.246689384	2.001198848	yes
PPP4R4	-0.260577649	0.246689384	-2.001646667	
SLC35F5	-0.260552035	0.246689384	-2.001435578	
TSC22D4	0.260722488	0.246689384	2.002840378	
HAT1	-0.260614888	0.246689384	-2.001953562	
ZNF835	0.260609507	0.246689384	2.001909221	
ULK2	-0.260626472	0.246689384	-2.002049034	
HRCT1	0.26049371	0.246761018	2.000954935	
CA5B	-0.260426715	0.247000481	-2.000402878	
SNORA9	0.260381666	0.247141565	2.000031673	
PANK4	0.260332233	0.247302407	1.999624363	
TMEM150	0.260128974	0.247305566	1.997949764	yes
PM20D1	0.260127506	0.247305566	1.997937672	
FAF2	-0.260199982	0.247305566	-1.998534749	
RANBP6	-0.260245339	0.247305566	-1.998908434	
HIST1H1C	0.260151818	0.247305566	1.998137955	
NME2	0.260142418	0.247305566	1.998060519	
NPAS1	0.260220409	0.247305566	1.998703038	
LOC492303	0.260259902	0.247305566	1.999028416	
TNFRSF11B	0.260142227	0.247305566	1.998058939	
C1orf112	-0.260280804	0.247305566	-1.99920063	
CABC1	0.260275133	0.247305566	1.999153906	
ODF2L	-0.260255619	0.247305566	-1.998993129	
LRFN1	0.260158477	0.247305566	1.998192811	
ARHGAP28	0.260174086	0.247305566	1.998321405	
IQGAP1	-0.26029061	0.247305566	-1.999281418	
C14orf28	-0.260040002	0.247403971	-1.997216829	
DCTD	-0.260042472	0.247403971	-1.997237179	

TYMP	0.260054454	0.247403971	1.997335878	
NEDD4L	-0.260008793	0.247403971	-1.996959754	
RNF167	0.260079605	0.247403971	1.997543069	
HSD17B14	0.259997022	0.247403971	1.996862794	yes
SMARCE1	-0.260015744	0.247403971	-1.997017015	
HSDL2	-0.260009089	0.247403971	-1.996962195	
MED16	0.259847247	0.24759408	1.995629153	
SYNCRIP	-0.259865699	0.24759408	-1.995781129	
FAM109A	0.259820283	0.24759408	1.995407076	
C14orf145	-0.259816533	0.24759408	-1.995376192	
PPAPDC1A	0.259876685	0.24759408	1.995871613	
OR4D9	0.259924713	0.24759408	1.99626719	
ADAM11	0.259861161	0.24759408	1.99574375	
PPP3CC	-0.259785157	0.24759408	-1.995117787	
MEG3	0.259765083	0.24759408	1.994952468	
PDXP	0.259895979	0.24759408	1.99603052	
SPRR1B	-0.259904201	0.24759408	-1.996098244	
CPNE3	-0.259774372	0.24759408	-1.995028961	
RNF8	-0.259787286	0.24759408	-1.995135316	
C12orf23	-0.25981988	0.24759408	-1.995403757	
COL6A3	0.259711624	0.247651984	1.99451221	
LIPH	-0.259714594	0.247651984	-1.99453667	
TPM1	0.259719943	0.247651984	1.994580719	
CHTF18	0.259684961	0.247711016	1.994292634	
PUS7	-0.259656465	0.247763347	-1.994057973	
RBM26	-0.259646282	0.247763347	-1.993974122	
TBL1X	-0.259581452	0.247933194	-1.993440277	
TIFA	-0.259590036	0.247933194	-1.993510962	
HEY2	-0.25954315	0.248044616	-1.99312489	
AGPAT1	0.259528515	0.248049701	1.993004389	
RNF103	-0.25948508	0.248184248	-1.992646757	
RPP14	-0.259436107	0.248283061	-1.992243535	
C5orf33	-0.259439027	0.248283061	-1.99226758	

FLCN	0.259382719	0.248462496	1.991803989
MBNL2	-0.259214391	0.248467486	-1.990418252
BRD8	-0.259167461	0.248467486	-1.990031941
CDC42EP5	0.259328912	0.248467486	1.991361009
MED4	-0.259166026	0.248467486	-1.990020132
NRBP2	0.259221928	0.248467486	1.990480294
LOC387720	0.259230611	0.248467486	1.990551771
MYO1B	-0.259296347	0.248467486	-1.991092917
NSF	-0.259352738	0.248467486	-1.991557158
TRNT1	-0.259214142	0.248467486	-1.990416207
BARHL1	0.259174773	0.248467486	1.990092133
PPM1H	-0.259178524	0.248467486	-1.990123009
ARID4A	-0.259269742	0.248467486	-1.990873901
RTKN	0.259218151	0.248467486	1.990449207
FABP12	0.259236975	0.248467486	1.990604159
XPNPEP1	-0.259361648	0.248467486	-1.991630517
ATG10	-0.259305254	0.248467486	-1.991166249
IFITM3	0.259028674	0.248560255	1.988889596
OLFM1	0.258854666	0.248560255	1.98745753
DDX17	-0.258879113	0.248560255	-1.987658708
TMED1	0.259087111	0.248560255	1.989370569
COX11	-0.258845214	0.248560255	-1.987379743
TCEAL6	0.258951666	0.248560255	1.988255798
MKRN1	-0.258948712	0.248560255	-1.988231489
CENPI	-0.258959905	0.248560255	-1.988323609
HSN2	-0.258913685	0.248560255	-1.987943221
ATP1B2	0.258919156	0.248560255	1.987988244
NTSR1	0.259063723	0.248560255	1.989178071
PAX9	-0.25911612	0.248560255	-1.989609342
REEP2	0.258973445	0.248560255	1.988435046
FAM29A	-0.258839414	0.248560255	-1.987332017
TMEM19	-0.258980562	0.248560255	-1.98849362
MRPS14	-0.258836666	0.248560255	-1.987309398

RMND5A	-0.258895897	0.248560255	-1.987796831	yes
UAP1	-0.258839133	0.248560255	-1.987329705	
C20orf195	0.259071066	0.248560255	1.989238511	
ALG12	0.258921957	0.248560255	1.988011296	
NARS2	-0.25907364	0.248560255	-1.989259696	
NIPA2	-0.258928516	0.248560255	-1.98806528	
B4GALT6	-0.258888867	0.248560255	-1.987738978	
LOC100133315	-0.258725532	0.248679041	-1.986394905	
WDR47	-0.258669968	0.248679041	-1.985937707	yes
HECW1	0.258731838	0.248679041	1.986446786	
MFAP1	-0.258768955	0.248679041	-1.98675221	
PDE4D	-0.25878198	0.248679041	-1.986859388	
LYRM1	-0.258679353	0.248679041	-1.98601493	
TCEB1	-0.258678328	0.248679041	-1.986006496	
THBS2	0.258663059	0.248679041	1.98588086	
FAM176A	0.25872318	0.248679041	1.986375547	
NLRC5	0.258754954	0.248679041	1.986637001	
IL17RC	0.258710064	0.248679041	1.986267628	
TMEM106B	-0.258623251	0.248737816	-1.985553325	
SLC25A22	0.258634513	0.248737816	1.985645989	
SNORD115-34	0.258486212	0.248786063	1.984425872	
KLC3	0.258568665	0.248786063	1.985104218	
DOLK	0.258562508	0.248786063	1.985053559	
SWAP70	-0.258515883	0.248786063	-1.984669968	
PSD3	-0.258598201	0.248786063	-1.985347224	yes
HARS2	-0.258548529	0.248786063	-1.984938555	
PLA2G2C	0.258481942	0.248786063	1.984390745	
COPS7B	0.258479037	0.248786063	1.984366846	
SYPL1	-0.258517446	0.248786063	-1.98468283	
THNSL1	-0.258479073	0.248786063	-1.984367143	
PRDX3	-0.258454368	0.248796213	-1.984163903	
RPS16P10	0.258450113	0.248796213	1.9841289	
LBA1	0.258435122	0.248803682	1.984005575	

COMMD2	-0.258408071	0.248805491	-1.983783041	yes
ZNF215	-0.258409439	0.248805491	-1.9837943	
DYRK1B	0.258382815	0.248859091	1.983575284	
PHLDA3	0.258346991	0.248885252	1.983280601	
IPO5	-0.258337042	0.248885252	-1.983198763	
SFRS2	-0.25834501	0.248885252	-1.983264299	
GNLY	0.257854417	0.249017348	1.979229597	
RALBP1	-0.258293613	0.249017348	-1.98284153	
CLDND2	0.257960497	0.249017348	1.980101874	
EMID1	0.258199625	0.249017348	1.982068461	
DCST1	0.257828805	0.249017348	1.979019006	
DAD1	-0.258065272	0.249017348	-1.980963498	
TIMM8A	-0.258206537	0.249017348	-1.982125319	
EYA3	-0.257918668	0.249017348	-1.979757914	
FLJ37078	0.257805604	0.249017348	1.97882824	
USP33	-0.258035469	0.249017348	-1.980718406	
SR140	-0.257818281	0.249017348	-1.978932479	
ASPHD1	0.258195285	0.249017348	1.982032769	
C16orf65	0.257979613	0.249017348	1.980259067	
PRKD2	0.257937148	0.249017348	1.979909872	
HMGCR	-0.257822023	0.249017348	-1.978963246	
FAM73A	-0.257920253	0.249017348	-1.979770946	
KCNG1	0.258135782	0.249017348	1.981543382	
KCNMA1	0.258235184	0.249017348	1.982360932	
LBR	-0.258025601	0.249017348	-1.980637254	
MDK	0.257994131	0.249017348	1.98037846	
STGC3	0.2582466	0.249017348	1.982454834	
P4HA1	-0.258202903	0.249017348	-1.982095428	
PAEP	0.257921986	0.249017348	1.9797852	
SRRT	0.257959687	0.249017348	1.980095214	
NDUFB11	0.257803593	0.249017348	1.978811711	
RC3H2	-0.257813702	0.249017348	-1.978894823	
GPATCH1	-0.25797334	0.249017348	-1.980207485	

ASH1L	-0.257942434	0.249017348	-1.979953337
PRSS2	0.257820132	0.249017348	1.978947696
ZNF687	0.25811208	0.249017348	1.981348446
REG1B	0.258187266	0.249017348	1.981966818
RPL7A	0.257865698	0.249017348	1.979322352
MRPL23	0.25821094	0.249017348	1.98216153
TRIM48	0.257862391	0.249017348	1.979295162
TNFAIP8L2	0.257983806	0.249017348	1.980293555
BRSK1	0.258163964	0.249017348	1.981775163
IL1F10	0.258108911	0.249017348	1.981322388
MTMR2	-0.257816877	0.249017348	-1.978920933
TMEM160	0.257787671	0.249029494	1.978680797
C20orf141	0.257680805	0.249154245	1.977802184
FREM1	0.257661616	0.249154245	1.977644421
SYNPO2	0.257630458	0.249154245	1.977388275
DPYSL2	0.257711565	0.249154245	1.978055068
LUC7L2	-0.257605301	0.249154245	-1.977181464
WDR12	-0.257684881	0.249154245	-1.97783569
PTK2	-0.257648081	0.249154245	-1.977533151
RPL21P93	0.257720033	0.249154245	1.978124692
FAM117A	0.257627956	0.249154245	1.977367705
VANGL1	-0.257601477	0.249154245	-1.977150021
LHX4	0.25761976	0.249154245	1.977300322
DGCR2	0.257718916	0.249154245	1.978115507
MAZ	0.257586837	0.249160781	1.977029672
ADAMTS7	0.257530358	0.249251565	1.976565389
OR10J5	0.257532942	0.249251565	1.976586636
ZNF746	0.257441092	0.249251565	1.975831625
ZNF782	-0.257458342	0.249251565	-1.975973415
RICTOR	-0.257484404	0.249251565	-1.976187643
ANAPC13	-0.257428723	0.249251565	-1.975729959
RRP15	-0.25750341	0.249251565	-1.976343878
CRLS1	-0.257447962	0.249251565	-1.975888096

NBEAL1	-0.257421747	0.249251565	-1.975672622	yes
C9orf89	0.257456199	0.249251565	1.975955805	
TMEM25	0.257447342	0.249251565	1.975882998	
ACAP2	-0.257399238	0.249293516	-1.975487611	
POLR3A	-0.257334889	0.249438065	-1.974958717	
TSEN54	0.257332313	0.249438065	1.974937546	
KHK	0.257320181	0.249438065	1.97483783	
RANBP2	-0.257314417	0.249438065	-1.974790458	
GAL3ST3	0.257241343	0.249706993	1.974189899	
LRRC42	-0.257208238	0.249796622	-1.973917832	
IFT80	-0.257170977	0.249904946	-1.973611622	
DGKH	-0.257153116	0.249926154	-1.973464845	
CEBPA	0.257122533	0.249963384	1.973213529	
SH2B2	0.257092294	0.249963384	1.972965043	
DARS2	-0.257095097	0.249963384	-1.972988074	
TXNL1	-0.257103495	0.249963384	-1.973057084	

genename	r-value	FDR	t-value	CMH-associated
EDA	0.655425921	0.000624393	6.435892489	yes
CHRNA1	0.617655549	0.000692109	5.824481504	
CPT1C	0.604944033	0.000692109	5.634265172	
C5orf47	0.61158363	0.000692109	5.732736905	
PIP5KL1	0.601105602	0.000692109	5.578188202	
DGKG	0.602305371	0.000692109	5.595650406	yes
KCNV2	0.605698841	0.000692109	5.64536483	
OR4C6	0.600876342	0.000692109	5.574858141	
FOXC2	0.611246401	0.000692109	5.727689525	
BHLHE22	0.6335242	0.000692109	6.072382457	
RCOR2	0.603717886	0.000692109	5.616285347	yes
LOC100133407	0.60015344	0.000692109	5.56437188	
ZNF575	0.61010087	0.000692109	5.710581226	
MNX1	0.601547538	0.000692109	5.584613526	
HOXC9	0.606065634	0.000692109	5.650767318	
KCNC3	0.602783486	0.000692109	5.602625745	
LOC441476	0.602570788	0.000692109	5.599521475	
TRIB3	0.605731806	0.000692109	5.645850145	
PLA2G2F	0.600791622	0.000692109	5.573628108	
PAX8	0.630131061	0.000692109	6.018344459	
OR4A5	0.636548161	0.000692109	6.121033866	
WNT3A	0.621530453	0.000692109	5.883906085	
GPR37L1	0.613364961	0.000692109	5.759481562	
ASCL4	0.598163318	0.000697879	5.535613409	
LY6G6F	0.597496128	0.000697879	5.526007901	
ZSCAN1	0.597388557	0.000697879	5.524460885	
INHA	0.596961086	0.000697879	5.518317822	
ARID3A	0.594284616	0.000699167	5.4800203	
SIGLEC15	0.595468423	0.000699167	5.496924352	
TWIST1	0.595303838	0.000699167	5.494570875	
GGTLC1	0.594447234	0.000699167	5.48233912	yes
MYBPHL	0.593330415	0.000711763	5.466434978	

C17orf102	0.592061841	0.000737064	5.44842884	
PKD1L2	0.584320025	0.00074269	5.339875201	
TGM7	0.586561605	0.00074269	5.371073599	
C20orf166	0.585165945	0.00074269	5.351626806	
C11orf42	0.587279565	0.00074269	5.381105855	
ZNF114	0.584754552	0.00074269	5.345908379	
DLX2	0.588122465	0.00074269	5.392908688	yes
ADAT1	-0.583365928	0.00074269	-5.326652504	yes
FZD2	0.586362595	0.00074269	5.36829619	
GABRG3	0.584454202	0.00074269	5.34173744	
NBPF22P	0.589555076	0.00074269	5.413030731	
HOXC4	0.58379661	0.00074269	5.332617111	
H1FNT	0.585610153	0.00074269	5.357808422	
OR51B6	0.589838586	0.00074269	5.417022093	
PRDM13	0.590370996	0.00074269	5.42452587	
MANBAL	-0.587441691	0.00074269	-5.38337396	
SOX17	0.590361348	0.00074269	5.424389796	
SPSB4	0.583697432	0.00074269	5.331242978	yes
USP6NL	-0.589044562	0.00074269	-5.405851255	yes
GPBR	0.582506294	0.000760481	5.314767582	
C12orf59	0.582075619	0.000762379	5.308823426	
IGF2AS	0.581354454	0.000775692	5.298885048	
CDKN1C	0.580938772	0.000777528	5.293165111	
CST11	0.579305589	0.000828158	5.270752291	
TBKBP1	0.578548435	0.000844679	5.260394031	
HOXD4	0.577553391	0.000857093	5.246812385	yes
ADM2	0.577869086	0.000857093	5.251117591	
NOVA2	0.576870735	0.000857298	5.237514923	
JHDM1D	-0.577175425	0.000857298	-5.241662626	yes
NPPB	0.576432139	0.000861829	5.231550131	yes
NANOS2	0.57605745	0.000863873	5.226459821	
C13orf39	0.575511494	0.0008644	5.219051599	
LOC401296	0.575406459	0.0008644	5.217627549	

TREX2	0.573765403	0.000864746	5.19542831	
ODF3	0.571488189	0.000864746	5.16477783	
MGAT5B	0.565861116	0.000864746	5.089794329	
CCDC42	0.567787894	0.000864746	5.115350024	
C1orf127	0.570362744	0.000864746	5.149695324	
ADRA2B	0.573547853	0.000864746	5.19249245	
FAM132B	0.569575778	0.000864746	5.139174467	
AWAT1	0.569285827	0.000864746	5.135303417	
C12orf12	0.568801605	0.000864746	5.128845042	
AHSG	0.571948203	0.000864746	5.170955101	
EMR1	0.565629511	0.000864746	5.086730746	
EMX1	0.573158543	0.000864746	5.187242732	
OR9I1	0.569464645	0.000864746	5.137690425	
QPRT	0.572946758	0.000864746	5.184389091	
CLDN15	0.572015359	0.000864746	5.171857507	
SCML4	0.572075817	0.000864746	5.17267003	
GNAT1	0.566223823	0.000864746	5.094595658	
ZNF843	0.568202744	0.000864746	5.120868544	
SLC9A10	0.571677688	0.000864746	5.167321634	
C16orf5	0.566918234	0.000864746	5.103800075	
KLHL38	0.570298894	0.000864746	5.14884094	
ITIH3	0.566936358	0.000864746	5.104040517	
VWC2	0.566145976	0.000864746	5.09356479	
C2orf71	0.567330178	0.000864746	5.109267953	
MEF2B	0.565766755	0.000864746	5.088545945	
MPP2	0.5690131	0.000864746	5.131664907	yes
FOXB2	0.573364476	0.000864746	5.19001902	
DSCR6	0.570833652	0.000864746	5.156000898	yes
ISLR2	0.570931726	0.000864746	5.157315075	
RAF1	-0.567208594	0.000864746	-5.107653545	
LCAP	0.567866867	0.000864746	5.116400113	
C1orf200	0.567480677	0.000864746	5.111266998	
LOC646471	0.567998275	0.000864746	5.118147885	

FAM117A	0.574950875	0.000864746	5.211455272	
EPX	0.568965934	0.000864746	5.13103592	
TIGD5	0.567543084	0.000864746	5.112096149	
TNFSF9	0.568922273	0.000864746	5.130459817	
OR6W1P	0.566424976	0.000864746	5.097260293	
CD33	0.566297142	0.000864746	5.095566754	
CDX1	0.565157668	0.000875846	5.080494845	yes
HBCBP	0.558604726	0.000880223	4.994639144	
GDF11	0.560315743	0.000880223	5.016923353	yes
KLK8	0.559115699	0.000880223	5.001284283	
DIRC1	0.561726312	0.000880223	5.035364914	
OLIG1	0.563387365	0.000880223	5.057163545	
CLC	0.558483293	0.000880223	4.993061145	
LRRC25	0.561633707	0.000880223	5.034152248	
KLF17	0.563406815	0.000880223	5.057419334	
SPATA3	0.563795146	0.000880223	5.062528722	
PYDC2	0.562575211	0.000880223	5.046494168	
DRD3	0.558208907	0.000880223	4.989497248	
OR5D14	0.561108652	0.000880223	5.027281857	
FAM181B	0.561705723	0.000880223	5.035095274	
PCSK1N	0.559277446	0.000880223	5.003389508	
GLI1	0.56157705	0.000880223	5.033410461	yes
SLC25A42	0.55866909	0.000880223	4.995475741	yes
MOGAT3	0.558384583	0.000880223	4.991778756	
LCE1F	0.559930021	0.000880223	5.011891593	
OR5D16	0.561392983	0.000880223	5.031001249	
PHOX2A	0.560757597	0.000880223	5.022693216	
PP13004	0.560658673	0.000880223	5.02140089	yes
C19orf29OS	0.560170074	0.000880223	5.015022537	
LOC442668	0.564382941	0.000880223	5.070271884	
GALNT9	0.563293302	0.000880223	5.055926728	
A4GNT	0.561815714	0.000880223	5.036535893	
LUZP4	0.559340236	0.000880223	5.00420698	

THEG	0.558306936	0.000880223	4.990770242	
KIAA1486	0.563796722	0.000880223	5.062549464	
TMEM35	0.559589949	0.000880223	5.007459268	
RHO	0.558135237	0.000880223	4.988540779	
PRDM14	0.557996304	0.000880223	4.986737465	
DPEP3	0.56121686	0.000880223	5.028697038	
TULP2	0.560066539	0.000880223	5.013671928	
KRTAP1-3	0.560952572	0.000880223	5.025241254	
EOMES	0.562314628	0.000880223	5.043075384	
HIATL1	-0.56337397	0.000880223	-5.056987409	
CSDA	-0.560635121	0.000880223	-5.021093262	
STC2	0.56180645	0.000880223	5.036414548	
CACNA1H	0.559084909	0.000880223	5.000883638	
GADD45GIP1	0.558471077	0.000880223	4.992902421	
ACPT	0.56009239	0.000880223	5.014009124	
RAMP2	0.556921537	0.000900274	4.972807802	
OR2F1	0.556957494	0.000900274	4.973273246	
GUCY1A2	0.557051694	0.000900274	4.974492789	
LOC375295	0.556947658	0.000900274	4.973145922	yes
TRIM50	0.556627808	0.00090122	4.969007201	
KCNQ1DN	0.556610799	0.00090122	4.968787207	
NOBOX	0.555971117	0.000910129	4.960519927	
TMEM200B	0.556002997	0.000910129	4.960931644	
SIGLEC12	0.556109876	0.000910129	4.962312178	
GSX1	0.555666468	0.000911177	4.956587132	
PRND	0.555805381	0.000911177	4.958380045	
LOC100130130	0.555449087	0.000914474	4.953782658	
SLMO1	0.554091911	0.00091508	4.93630663	
CHST14	0.554450491	0.00091508	4.940918436	
SYNPO	0.554278219	0.00091508	4.938702299	
CRYBB1	0.554211097	0.00091508	4.937839076	
HMX3	0.554383781	0.00091508	4.940060165	
FAM101B	0.554105015	0.00091508	4.9364751	yes

LOC439951	0.554810954	0.00091508	4.94555847	
CCL3	0.55520256	0.00091508	4.950603944	
STMN4	0.554825864	0.00091508	4.945750486	
PPFIA4	0.554847211	0.00091508	4.946025414	
DMRTA1	0.553621786	0.00092932	4.930266224	
ABHD1	0.553493268	0.00092932	4.928616131	
MGC24975	0.553079509	0.000929678	4.923307191	
HBQ1	0.552414825	0.000929678	4.914789617	
HOXB1	0.552349355	0.000929678	4.913951388	
RNASE10	0.553299702	0.000929678	4.926131837	
BTNL2	0.553127871	0.000929678	4.92392746	
TMEM72	0.552852813	0.000929678	4.920400688	
LIMD2	0.552579877	0.000929678	4.916903409	
TEX101	0.552570089	0.000929678	4.916778035	
C21orf67	0.552399997	0.000929678	4.914599761	
RNASE9	0.552194258	0.000931037	4.911966155	
TMEM132E	0.551600634	0.000937553	4.904374578	
SSX8	0.551554851	0.000937553	4.903789528	
HLX	0.551893005	0.000937553	4.908112224	
HES3	0.551756579	0.000937553	4.906367838	yes
FOXO3	0.550892691	0.000960808	4.895335025	
OR4S2	0.550681151	0.000964808	4.892636865	
DACT3	0.55004698	0.000968782	4.884556224	
NLRP6	0.550234096	0.000968782	4.88693921	
ZNF410	-0.550104479	0.000968782	-4.885288386	yes
SPINK1	0.550045357	0.000968782	4.884535563	
LOC729040	0.550001204	0.000968782	4.883973415	
LOC100129890	0.549750698	0.000971987	4.880785141	
GSC2	0.549581273	0.000971987	4.87862988	
DPEP2	0.549608908	0.000971987	4.878981365	
NAPSA	0.54913412	0.00098662	4.872945776	yes
HRASLS5	0.548914819	0.000987815	4.870160263	
SOX8	0.548879697	0.000987815	4.869714291	

ARPP-21	0.548062814	0.000989467	4.859351927	yes
MAGEC3	0.548232374	0.000989467	4.861501201	
FAM163A	0.548275841	0.000989467	4.862052309	
UPP2	0.548077253	0.000989467	4.85953492	
MN1	0.548405427	0.000989467	4.863695636	yes
SCRT2	0.548185035	0.000989467	4.860901064	
MMP20	0.548128221	0.000989467	4.860180905	
PDILT	0.547741744	0.000991182	4.85528453	
PLAC1L	0.547697511	0.000991182	4.854724415	
RASL10B	0.547889683	0.000991182	4.857158272	yes
SLC2A6	0.54730216	0.0009989	4.849720718	yes
WSCD1	0.547338893	0.0009989	4.850185433	
IFNB1	0.54709491	0.0009989	4.847099554	
CA11	0.547191655	0.0009989	4.848322971	
NKX2-4	0.546838254	0.001000378	4.843855292	
SESN2	0.546744957	0.001000378	4.842676447	
RQCD1	-0.546866969	0.001000378	-4.84421817	yes
C1QTNF5	0.546343689	0.001013669	4.837609223	yes
ZNF679	0.546089295	0.001015752	4.834399195	
FOXF1	0.54614306	0.001015752	4.835077454	
LARP5	-0.545962559	0.001016803	-4.8328007	yes
ADCY1	0.544832946	0.001022152	4.818574029	yes
SERPINA12	0.545734901	0.001022152	4.829930503	
FOXE3	0.545233351	0.001022152	4.823612566	
KCTD8	0.545150909	0.001022152	4.822574763	
OTX2	0.545221388	0.001022152	4.823461953	
GNG13	0.544878874	0.001022152	4.819151721	
FTHL17	0.545461117	0.001022152	4.826480774	
PPP3R2	0.54509191	0.001022152	4.821832192	
TSHR	0.544859848	0.001022152	4.818912396	
EXOC3L2	0.545115353	0.001022152	4.822127234	
SLC25A41	0.54472311	0.001022648	4.817192707	
RSPO4	0.544304151	0.001037242	4.811927061	

RAC3	0.543677884	0.001061705	4.804065406	
TMEM207	0.543309969	0.001074413	4.79945221	
CACNG3	0.539598985	0.00108316	4.753139102	
RNF157	0.538986694	0.00108316	4.745535491	
CATSPER1	0.542065478	0.00108316	4.783876884	
CNGA2	0.538367351	0.00108316	4.737855095	
CNTFR	0.538396527	0.00108316	4.73821666	
COX6A2	0.539557005	0.00108316	4.75261745	
CPN2	0.542587053	0.00108316	4.79039918	
CXorf39	-0.538815616	0.00108316	-4.743412894	yes
CRYBA2	0.54068771	0.00108316	4.766685522	
PRSS36	0.537729899	0.00108316	4.72996142	
NFAM1	0.538568279	0.00108316	4.74034559	
GLIPR2	-0.541836451	0.00108316	-4.78101539	yes
RLBP1L1	0.537699699	0.00108316	4.729587726	
DBC1	0.537852178	0.00108316	4.73147473	
XIRP1	0.538593084	0.00108316	4.740653132	
THAP8	0.538342783	0.00108316	4.737550647	
TMEM130	0.539451451	0.00108316	4.751306011	
FSHB	0.541081796	0.00108316	4.771597254	
LOC255374	0.539865407	0.00108316	4.756450928	
GABRD	0.539287615	0.00108316	4.749271094	
KIF26A	0.538016459	0.00108316	4.733508521	
RNU12	0.53954066	0.00108316	4.752414353	
KLF15	0.540904755	0.00108316	4.769390135	
RAX	0.54074833	0.00108316	4.767440777	
TLX2	0.538520726	0.00108316	4.739756073	
IBSP	0.540147324	0.00108316	4.759957577	
LOC347549	0.541472173	0.00108316	4.776467139	
PDX1	0.539894229	0.00108316	4.756809334	
KRAS	-0.537942023	0.00108316	-4.732586919	yes
SP5	0.540327469	0.00108316	4.762199506	
LOC389199	0.538023676	0.00108316	4.733597882	

LHX1	0.539185723	0.00108316	4.748005929	
FLJ42418	0.541554337	0.00108316	4.777492677	
LDLRAD2	0.542627784	0.00108316	4.79090884	
C7orf61	0.539475985	0.00108316	4.751610802	
ART4	0.53798895	0.00108316	4.733167909	yes
DHH	0.541173727	0.00108316	4.772743682	yes
FAM18B	-0.5380114	0.00108316	-4.733445875	
PCSK1	0.538344189	0.00108316	4.737568076	
MTMR12	-0.539667365	0.00108316	-4.753988926	
POU4F1	0.537789511	0.00108316	4.730699116	
FNDC8	0.54179968	0.00108316	4.780556109	
C9orf95	-0.539466349	0.00108316	-4.751491088	
BARHL1	0.542469152	0.00108316	4.788924142	
PTPRN	0.54019025	0.00108316	4.760491712	
NEUROD4	0.538058036	0.00108316	4.734023368	
REN	0.538351649	0.00108316	4.737660519	yes
FASTKD5	-0.541361326	0.00108316	-4.775083902	
SCNN1D	0.540830252	0.00108316	4.768461593	
MRPL34	0.539616182	0.00108316	4.753352817	
BPI	0.542997726	0.00108316	4.795540158	
CA4	0.538830747	0.00108316	4.743600598	
ESX1	0.542624211	0.00108316	4.790864135	
KCNH6	0.540839021	0.00108316	4.768570875	
QRFPR	0.538509681	0.00108316	4.73961915	
NTNG2	0.54040004	0.00108316	4.763102915	
COX4I2	0.539301947	0.00108316	4.749449068	
KIAA1755	0.538336304	0.00108316	4.737470373	
DNAH17	0.540000302	0.00108316	4.758128553	
HSPB3	0.538411123	0.00108316	4.738397553	
LRRC16B	0.538638849	0.00108316	4.74122057	
SMG7	-0.538471884	0.00108316	-4.739150632	yes
HHLA1	0.536895241	0.001086071	4.719642948	
BEST3	0.537207646	0.001086071	4.72350277	

GJD4	0.537101089	0.001086071	4.722185929	
NKPD1	0.536683966	0.001086071	4.717034145	
M6PR	-0.536695908	0.001086071	-4.717181575	
LOC100133418	0.53663596	0.001086071	4.716441544	
SHANK1	0.536962178	0.001086071	4.720469735	
SOX18	0.537410548	0.001086071	4.72601113	
ACTA1	0.537209562	0.001086071	4.723526455	
BCAN	0.536747184	0.001086071	4.717814623	
ROBO3	0.537009951	0.001086071	4.721059888	
TNFAIP8L2	0.536785017	0.001086071	4.71828176	
SETDB1	-0.537357516	0.001086071	-4.725355418	
C16orf78	0.536432035	0.001092104	4.713924965	
VAX1	0.53620877	0.001095546	4.711171037	
C2orf78	0.536231305	0.001095546	4.711448939	
TPSG1	0.535664454	0.001100214	4.704462831	
C17orf47	0.535843733	0.001100214	4.706671374	
ICAM5	0.53573251	0.001100214	4.705301111	
KCNK17	0.535966033	0.001100214	4.708178498	
F2RL3	0.535794322	0.001100214	4.706062592	yes
KBTBD11	0.535934157	0.001100214	4.707785646	
TMEM196	0.535387449	0.001102918	4.701052146	
RNF126P1	0.53540672	0.001102918	4.701289354	
SLC6A7	0.535490643	0.001102918	4.702322494	
MUC17	0.534582259	0.001109804	4.691150146	
C3orf22	0.534561202	0.001109804	4.690891433	
MAGEB6	0.534402224	0.001109804	4.688938568	
APCDD1L	0.534837241	0.001109804	4.694283906	
GP1BA	0.534723036	0.001109804	4.692880091	
PARVB	0.534703106	0.001109804	4.692635149	yes
C2orf53	0.535079836	0.001109804	4.697267096	
METTL10	-0.535070734	0.001109804	-4.69715513	
PDCD1	0.535010494	0.001109804	4.696414226	
POLR2H	-0.534381261	0.001109804	-4.68868112	yes

RETNLB	0.534411158	0.001109804	4.689048295	
ROD1	-0.534398544	0.001109804	-4.688893374	yes
CXorf55	0.534081095	0.001117402	4.684996004	
UCP1	0.534136814	0.001117402	4.685679873	
GJA4	0.533937128	0.001120937	4.683229408	
SPAG4L	0.533487297	0.001135887	4.677713293	
ASB16	0.533554047	0.001135887	4.678531469	
RP11-410N8.4	0.53301538	0.001141994	4.671932302	
UBL4B	0.532946724	0.001141994	4.671091767	
RDH8	0.533142647	0.001141994	4.673490724	
EMILIN3	0.533084113	0.001141994	4.672773905	yes
GTF3C4	-0.533034581	0.001141994	-4.672167386	
FGF19	0.533208761	0.001141994	4.674300477	
C1QL3	0.532851041	0.001143317	4.669920573	
FAM180B	0.532613697	0.001151576	4.667016478	
PRAM1	0.532405412	0.001158463	4.664469199	
RYR1	0.532307556	0.001159934	4.663272851	
LOC100133075	0.531066614	0.001160826	4.648124206	
LRRC15	0.53089105	0.001160826	4.645984403	
MESP2	0.530261738	0.001160826	4.638321072	
VPS37D	0.531326551	0.001160826	4.651293895	
EGR4	0.530964889	0.001160826	4.646884264	
ETF1	-0.531564229	0.001160826	-4.654193759	
KLHDC10	-0.530218917	0.001160826	-4.637800016	yes
TMEFF2	0.530178505	0.001160826	4.637308318	
TMEM151A	0.532164603	0.001160826	4.66152564	
GALNT8	0.530688011	0.001160826	4.643510765	
SMC1B	0.530656106	0.001160826	4.643122167	
C14orf68	0.531600236	0.001160826	4.654633206	
C15orf37	0.530140461	0.001160826	4.636845464	
VSTM1	0.531784718	0.001160826	4.656885274	
GUCY2D	0.531102238	0.001160826	4.6485585	
HOXD11	0.531129169	0.001160826	4.648886843	

SLC6A19	0.531039121	0.001160826	4.647789063
SELV	0.531941919	0.001160826	4.658805037
C2orf82	0.530215654	0.001160826	4.637760315
C10orf120	0.530758683	0.001160826	4.644371634
ANGPT4	0.530445507	0.001160826	4.640557774
ATP6V1G2	0.530990412	0.001160826	4.647195335
ACOXL	0.530941682	0.001160826	4.646601427
NT5M	0.531499379	0.001160826	4.653402385
CACNG7	0.531584202	0.001160826	4.654437517
NDRG4	0.531383241	0.001160826	4.651985416
CACNA1S	0.530456724	0.001160826	4.640694328
C16orf59	0.53106423	0.001160826	4.648095146
OR2C3	0.531771089	0.001160826	4.656718863
FZD9	0.530571235	0.001160826	4.642088582
KRTAP3-1	0.531025761	0.001160826	4.647626202
PPP1R3F	0.531792903	0.001160826	4.656985217
KIAA2013	0.530484686	0.001160826	4.641034756
LOC100128003	0.529626011	0.001161943	4.630590455
C13orf28	0.52988422	0.001161943	4.633729031
BHLHE23	0.529596238	0.001161943	4.630228674
ZFP92	0.529520107	0.001161943	4.629303684
C3orf18	0.529539054	0.001161943	4.629533874
ALKBH4	0.529650534	0.001161943	4.630888453
CRTAC1	0.529671392	0.001161943	4.631141933
ABCG8	0.53001508	0.001161943	4.635320346
hCG_2039146	0.529500589	0.001161943	4.629066571
OPN4	0.529557143	0.001161943	4.62975365
OBP2A	0.529050506	0.001172133	4.623601506
SPATC1	0.529053064	0.001172133	4.62363255
C8G	0.529221328	0.001172133	4.625675045
PIWIL1	0.529096748	0.001172133	4.624162737
GPR27	0.528977679	0.001172748	4.62271772
VWA5B1	0.528795616	0.001177668	4.620508946

PMS2	-0.528757849	0.001177668	-4.620050868	
HES7	0.528670624	0.001179018	4.618993065	
FUSSEL18	0.528534923	0.001182785	4.617347776	
SLC7A13	0.528170674	0.001198012	4.612933908	
INADL	-0.52771541	0.001204635	-4.607422128	yes
ZNF560	0.527028561	0.001204635	4.599116999	
FREM3	0.527348635	0.001204635	4.602985663	
NLRP7	0.527766729	0.001204635	4.608043157	
C21orf125	0.526986143	0.001204635	4.598604502	
SLC36A3	0.527336531	0.001204635	4.602839312	
IMPDH1	0.527837879	0.001204635	4.60890429	
RTL1	0.52750267	0.001204635	4.604848416	
LCN15	0.527010731	0.001204635	4.598901578	
MYF5	0.527230348	0.001204635	4.601555643	
OXT	0.527477391	0.001204635	4.604542671	
S100A5	0.527150781	0.001204635	4.60059393	
NPFFR1	0.527025581	0.001204635	4.599080994	yes
LOC643332	0.527639248	0.001204635	4.606500586	
TECTB	0.527454593	0.001204635	4.604266949	
ZAN	0.527284096	0.001204635	4.602205377	
SCRT1	0.527438732	0.001204635	4.604075129	
MED20	-0.527377897	0.001204635	-4.603339479	
KLHL33	0.526464829	0.001219471	4.59230989	
C10orf25	0.52648702	0.001219471	4.592577681	
CRB2	0.526567986	0.001219471	4.593554892	
SCT	0.526565516	0.001219471	4.593525071	
PATE1	0.526066055	0.001219655	4.587499715	
UFSP1	0.526141898	0.001219655	4.588414243	
REEP2	0.52610168	0.001219655	4.587929262	
SLC17A7	0.526325943	0.001219655	4.590634108	yes
DDI2	-0.526226029	0.001219655	-4.58942888	
C19orf20	0.52637933	0.001219655	4.591278208	
PUM1	-0.526289122	0.001219655	-4.590189915	

APOBEC1	0.525841135	0.001222831	4.584788482
ZIC3	0.525836137	0.001222831	4.584728252
BTNL8	0.52584888	0.001222831	4.584881825
LOC100129572	0.525649674	0.001226675	4.582481629
HIST1H4G	0.525682117	0.001226675	4.582872452
SIGLEC6	0.525371331	0.001238114	4.579129666
CRHR2	0.525230399	0.001239682	4.577433251
FAM26D	0.525253728	0.001239682	4.577714028
CILP2	0.525030122	0.001241598	4.57502341
B3GAT1	0.525043012	0.001241598	4.57517848
KRTAP10-1	0.525028355	0.001241598	4.575002151
ZBTB32	0.52497054	0.001241648	4.574306683
KCNF1	0.52491801	0.001241648	4.573674867
FAM19A4	0.524690196	0.001243693	4.570935614
ATF5	0.524648865	0.001243693	4.570438797
hCG_2045089	0.524804049	0.001243693	4.572304418
KCNA10	0.524714494	0.001243693	4.57122771
LYL1	0.524606954	0.001243693	4.569935043
GSDMA	0.524427382	0.001250193	4.567777205
ESSPL	0.5243051	0.001250954	4.566308275
GPBP1L1	-0.524329346	0.001250954	-4.566599501
TRIM38	-0.524250105	0.001251024	-4.56564777
CHRND	0.52401852	0.001260291	4.562867227
EXD1	0.523921103	0.001262588	4.56169799
JSRP1	0.523843087	0.001263878	4.560761798
GSC	0.52365522	0.001268148	4.558508038
C10orf53	0.523702073	0.001268148	4.559070032
DUSP15	0.523483412	0.001271606	4.556447731
PACSIN1	0.523534781	0.001271606	4.557063663
ZFPM1	0.523341743	0.001273505	4.554749426
ZSCAN10	0.523377772	0.001273505	4.555181286
FOXL1	0.523195377	0.001278449	4.552995354
LOC100132323	0.522259224	0.001295024	4.541789499

CNTNAP5	0.5225755	0.001295024	4.545572826
KLF14	0.522360171	0.001295024	4.542996754
LOC152118	0.522454305	0.001295024	4.544122767
AMZ1	0.522353127	0.001295024	4.542912506
PSORS1C2	0.522642692	0.001295024	4.546376912
TMEM146	0.522519823	0.001295024	4.54490662
CECR6	0.522301304	0.001295024	4.542292706
C19orf31	0.522473476	0.001295024	4.544352119
PAX7	0.52258664	0.001295024	4.545706127
PRB4	0.522813258	0.001295024	4.548418612
ACCN4	0.522260368	0.001295024	4.541803175
SIX5	0.522031608	0.001301708	4.539068325
SP8	0.522040803	0.001301708	4.539178218
KISS1R	0.521933158	0.001304244	4.537891749
CSPG5	0.521695067	0.00130968	4.535047383
AMH	0.521547001	0.00130968	4.533279229
MYLPF	0.521532958	0.00130968	4.533111557
IRF7	0.521761659	0.00130968	4.535842783
GPR101	0.521526924	0.00130968	4.533039525
WDR22	-0.52161954	0.00130968	-4.534145394
NXNL1	0.521420769	0.001309695	4.531772255
CD300LB	0.521343725	0.001309695	4.530852704
ITGB1BP3	0.521325152	0.001309695	4.530631045
BEND4	0.521385554	0.001309695	4.531351925
APLP1	0.521218019	0.001310717	4.529352658
RASIP1	0.521205985	0.001310717	4.529209079
GFRA4	0.521089007	0.00131433	4.527813591
C2orf21	0.520843472	0.001324926	4.524885624
SLC32A1	0.520750574	0.001324943	4.523778236
RTBDN	0.520743649	0.001324943	4.523695689
CPXM1	0.520632096	0.001328312	4.522366241
NCAN	0.520505636	0.001329192	4.520859503
ZNF749	-0.520467633	0.001329192	-4.520406786

yes

NKAIN1	0.520515817	0.001329192	4.520980793	
LOC100129924	0.520104172	0.001334417	4.516078881	
MTCH2	-0.520265481	0.001334417	-4.517999258	
IGFBP1	0.520112682	0.001334417	4.516180184	
MLN	0.520077618	0.001334417	4.515762824	
C5orf50	0.520079436	0.001334417	4.51578446	
PRRT1	0.520271376	0.001334417	4.518069447	
FOXC1	0.519977339	0.001337235	4.514569421	
PDCL2	0.51989849	0.001338888	4.513631219	
CCDC109A	-0.519653211	0.0013497	-4.510713756	yes
LOC100129532	0.518660608	0.001349743	4.498922825	
PRG3	0.518834856	0.001349743	4.500990871	
PLK5P	0.519028157	0.001349743	4.503285955	yes
COX7A1	0.519307845	0.001349743	4.506608389	
NKX2-5	0.518813663	0.001349743	4.500739305	
RP11-218C14.6	0.519484421	0.001349743	4.508706972	
EYA3	-0.518963914	0.001349743	-4.502523084	
GABRA5	0.518766819	0.001349743	4.50018329	
C12orf61	0.518560739	0.001349743	4.497737882	
GUCA2A	0.519438833	0.001349743	4.508165087	
HOXC5	0.518578646	0.001349743	4.497950324	
C1QL4	0.519104032	0.001349743	4.504187085	
IL10	0.518955103	0.001349743	4.502418462	
GPR152	0.518573869	0.001349743	4.497893654	
OR2A25	0.518628368	0.001349743	4.498540264	
SCGB1D4	0.519131057	0.001349743	4.504508075	
TRPM1	0.519272016	0.001349743	4.506182658	
SPIN2B	0.519275547	0.001349743	4.506224613	
VGLL1	0.518685378	0.001349743	4.499216753	
PAK7	0.518558743	0.001349743	4.497714195	
ZNF414	0.51889985	0.001349743	4.501762445	
MED26	0.519407689	0.001349743	4.507794925	
NR1I3	0.51957276	0.001349743	4.509757163	

LINGO4	0.518361634	0.001358043	4.495376249	
DLL3	0.518267892	0.001358279	4.49426471	
MYH6	0.518264472	0.001358279	4.494224159	
MEOX1	0.518173272	0.001360761	4.493142974	
C11orf35	0.518109607	0.001361725	4.49238834	
PNLIPRP1	0.517978896	0.001366414	4.490839324	
KIAA1045	0.51770906	0.001373749	4.487642939	yes
SIGLEC8	0.517777965	0.001373749	4.488458991	
GPR173	0.517744283	0.001373749	4.48806007	
IRX2	0.517544594	0.001375783	4.48569563	
HPCAL1	0.517563154	0.001375783	4.485915354	
TTY5	0.517535198	0.001375783	4.485584399	
ASB10	0.517406787	0.00137786	4.484064487	
MYO16	0.517411718	0.00137786	4.484122842	
F7	0.516825775	0.001380508	4.477192628	
GPC2	0.517062635	0.001380508	4.479993044	
HOXB7	0.51681837	0.001380508	4.4771051	
LCN9	0.516983167	0.001380508	4.479053329	
FLJ44653	0.516854499	0.001380508	4.477532158	
FEM1C	-0.51695905	0.001380508	-4.478768178	
PTMS	0.517122506	0.001380508	4.480701129	yes
C8orf73	0.516828054	0.001380508	4.477219565	
SLC12A3	0.516943822	0.001380508	4.478588129	
CA9	0.517244335	0.001380508	4.482142251	
ANGPTL6	0.516920373	0.001380508	4.478310895	
ADAMTS2	0.516985731	0.001380508	4.479083644	
ANKRD58	0.516760046	0.001381276	4.476415756	
IL4	0.516577074	0.00138904	4.474253729	
GGN	0.516486791	0.001391617	4.473187232	
HIF3A	0.516388029	0.001394681	4.472020813	
CPLX2	0.516139365	0.001402313	4.469085053	
ASB11	0.516086276	0.001402313	4.468458486	
C21orf62	0.516076112	0.001402313	4.468338535	

SLC25A18	0.516079986	0.001402313	4.468384257	
UNCX	0.515996686	0.001404317	4.467401269	
C15orf2	0.515869575	0.00140904	4.465901638	
KRTAP19-6	0.515776649	0.00141183	4.464805563	
MEP1B	0.515721282	0.001412485	4.464152598	yes
OTP	0.515542419	0.001415526	4.462043737	
GH1	0.51552538	0.001415526	4.461842887	
MXRA8	0.515508215	0.001415526	4.461640557	
NIT2	-0.515449652	0.001415526	-4.4609503	
RPL27P8	0.515462076	0.001415526	4.461096725	
C1QL1	0.515386465	0.001416263	4.460205637	
UNC45B	0.515349896	0.001416263	4.459774714	yes
LOC100131664	0.515056519	0.001416468	4.456318809	
LOC100131763	0.515107834	0.001416468	4.456923132	
STAG3	0.515044511	0.001416468	4.456177408	
CHST13	0.515204917	0.001416468	4.458066633	
ARC	0.515105094	0.001416468	4.45689086	
IMPG1	0.51519122	0.001416468	4.457905285	
XKR5	0.515075655	0.001416468	4.456544164	
CCDC85A	0.514941164	0.001418889	4.454960539	
GATA5	0.514886915	0.001418889	4.454321893	
IKZF2	-0.514853648	0.001418889	-4.453930285	yes
HRH4	0.514831147	0.001418889	4.45366544	
CHRNA	0.51473522	0.001419509	4.452536437	
PGLYRP1	0.514760334	0.001419509	4.452831987	
LOC100127905	0.514535536	0.001428518	4.450187015	
GSG1L	0.5135932	0.001430391	4.439113064	
HIPK4	0.513958183	0.001430391	4.443399601	
DACH1	0.514324654	0.001430391	4.447706914	
ELA2	0.513701477	0.001430391	4.440384379	
SUSD3	0.513330101	0.001430391	4.43602513	
LRRC55	0.514232455	0.001430391	4.446622952	
C11orf76	0.513675795	0.001430391	4.440082819	

TPSD1	0.514129475	0.001430391	4.445412467	
C16orf65	0.513236177	0.001430391	4.434923179	
SUSD5	0.514136041	0.001430391	4.445489643	
GTF2E2	-0.51412573	0.001430391	-4.445368459	yes
KRTAP8-1	0.513706924	0.001430391	4.440448348	
KIF3C	0.513314145	0.001430391	4.435837916	
HCRP1	0.514236098	0.001430391	4.446665779	
FLJ44881	0.513171629	0.001430391	4.434166008	
HERV-FRD	0.513185381	0.001430391	4.434327316	
MGC50273	0.513184936	0.001430391	4.434322088	
C5orf40	0.514206245	0.001430391	4.446314836	
MAG	0.513374232	0.001430391	4.436542974	
LOC440461	0.5135119	0.001430391	4.438158689	
TRIM67	0.513894522	0.001430391	4.442651704	
NUDT1	0.51363312	0.001430391	4.439581744	
NPTX1	0.513859557	0.001430391	4.44224097	
KCNK4	0.513704852	0.001430391	4.440424014	
TFDP3	0.514000705	0.001430391	4.443899216	
POU3F2	0.513577804	0.001430391	4.43893232	
SFRP5	0.514245336	0.001430391	4.446774371	
hCG_1793639	0.513463499	0.001430391	4.43759058	
SULT2A1	0.513271378	0.001430391	4.435336149	
SLC30A2	0.513264412	0.001430391	4.435254421	
CACNG1	0.513137787	0.001430391	4.43376906	
MED10	-0.513559228	0.001430391	-4.438714246	
SIGLEC10	0.514040267	0.001430391	4.444364092	
TBC1D21	0.513058078	0.001430494	4.432834251	
KLHL34	0.513020083	0.001430494	4.432388701	yes
RHAG	0.512975108	0.001430494	4.43186136	
PMPCB	-0.512987531	0.001430494	-4.432007012	
GDF7	0.512810331	0.001432906	4.429929699	
ATP4A	0.512756323	0.001432906	4.429296727	
C2orf43	-0.51279593	0.001432906	-4.429760918	

OR12D3	0.512733205	0.001432906	4.429025792	
LDHAL6B	0.512781605	0.001432906	4.429593026	
SSX10	0.512396713	0.001439007	4.425083853	
ADCY8	0.512518794	0.001439007	4.426513693	
C1QTNF4	0.512389029	0.001439007	4.424993876	
FXYD8	0.51248383	0.001439007	4.426104147	
WDR33	-0.512434136	0.001439007	-4.425522127	yes
FABP12	0.512411337	0.001439007	4.42525512	
HIST1H2BA	0.512265277	0.001439328	4.423544859	
POMC	0.512269331	0.001439328	4.423592319	
NSFL1C	-0.512295079	0.001439328	-4.423893782	
ZNF561	-0.512114557	0.001445746	-4.421780586	yes
METTL7B	0.512030095	0.001448357	4.420792141	yes
OLIG2	0.511793043	0.001454544	4.418018902	
C1orf167	0.511766813	0.001454544	4.417712129	
C14orf180	0.511850644	0.001454544	4.418692644	
FEV	0.511767181	0.001454544	4.417716431	
CFP	0.511704979	0.00145587	4.416989006	
CCDC38	0.511231731	0.001460267	4.411457632	
RXFP2	0.510967549	0.001460267	4.408372208	
EPB42	0.511031635	0.001460267	4.40912053	
ERCC3	-0.51126356	0.001460267	-4.411829484	
GDF10	0.5111721	0.001460267	4.410761046	
BMP10	0.511406521	0.001460267	4.413499957	
IAH1	-0.511105669	0.001460267	-4.40998513	
GPR150	0.51094079	0.001460267	4.408059781	
BLOC1S3	0.510827657	0.001460267	4.406739083	yes
C6orf126	0.511224507	0.001460267	4.411373236	
LOC401097	0.510843443	0.001460267	4.406923347	yes
FLJ43752	0.511138218	0.001460267	4.410365288	
MGC44328	0.510823223	0.001460267	4.406687321	
C14orf119	-0.511533819	0.001460267	-4.414987843	
PPP1R1A	0.510840659	0.001460267	4.406890848	

MAPK4	0.510927587	0.001460267	4.407905638	
CASS4	0.511567022	0.001460267	4.415375984	
TCEB1P3	0.511497991	0.001460267	4.414569038	
PPP1R2P9	0.510968919	0.001460267	4.408388207	
ARPM1	0.511206384	0.001460267	4.411161527	
C9orf140	0.511247822	0.001460267	4.411645614	
RPL10L	0.510490083	0.001461546	4.402800099	
PLD6	0.510466766	0.001461546	4.402528128	
EMX2	0.510502592	0.001461546	4.402946015	
AMDHD2	0.510759822	0.001461546	4.405947322	
POU3F3	0.510664037	0.001461546	4.404829537	
ACSM5	0.510537297	0.001461546	4.403350849	
AGXT2	0.510462863	0.001461546	4.402482613	
UNC5A	0.510493081	0.001461546	4.402835073	
IDI2	0.510583816	0.001461546	4.40389355	
LOC146336	0.510409382	0.001462484	4.401858855	
ZBTB12	0.51036388	0.001462961	4.401328218	
CRHR1	0.510279666	0.001465691	4.400346256	
C7orf29	0.510221275	0.001466925	4.399665498	
LOC100130174	0.509590849	0.001467291	4.392320829	
ADAMTS7	0.509699603	0.001467291	4.393587172	
C16orf11	0.509598566	0.001467291	4.392410678	
ZNF524	0.509582206	0.001467291	4.39222021	
PNPLA5	0.509648693	0.001467291	4.392994339	
ZNF385B	0.5100606	0.001467291	4.397792667	
FRAT2	0.50981808	0.001467291	4.394967039	
PTF1A	0.509551909	0.001467291	4.391867483	
GNAO1	0.509588461	0.001467291	4.39229303	yes
AQP11	0.509963993	0.001467291	4.396666918	
LOC29034	0.509529124	0.001467291	4.391602238	
HOXD3	0.510029135	0.001467291	4.397425988	
LOC388882	0.509859712	0.001467291	4.395452005	
CNOT6	-0.509828947	0.001467291	-4.395093625	yes

SENP2	-0.510074258	0.001467291	-4.397951844	
CCDC154	0.509980253	0.001467291	4.39685638	
WT1	0.509971417	0.001467291	4.396753427	
APLN	0.509940979	0.001467291	4.396398778	
H2AFY	-0.509517723	0.001467291	-4.391469515	yes
CHAT	0.509415515	0.00147113	4.390279835	
CKM	0.509376845	0.001471275	4.389829789	
NCOA5	-0.509267686	0.001473428	-4.388559586	
TRIM48	0.509300871	0.001473428	4.388945708	
ARAP2	-0.509213183	0.001474505	-4.387925483	
DPYS	0.5090867	0.001479792	4.386454214	
KCNJ8	0.508953235	0.0014834	4.384902147	
ASPDH	0.50898829	0.0014834	4.385309763	
CELP	0.508847494	0.001487502	4.383672793	
TULP1	0.508749963	0.001491132	4.382539122	
CYP1A2	0.508695808	0.001492215	4.381909734	
ZNF385C	0.508633794	0.001493764	4.381189094	
ARHGEF15	0.50854387	0.001496965	4.380144298	yes
ZNF580	0.508387462	0.001504115	4.378327496	
LOC100130557	0.508193403	0.001513544	4.376074173	
C13orf36	0.508098428	0.001514966	4.374971685	
NPHS1	0.508130397	0.001514966	4.375342765	
DMRT1	0.507887612	0.001516981	4.372525288	
FOXS1	0.507943677	0.001516981	4.373175783	
GP5	0.508007968	0.001516981	4.373921819	
HOXA11	0.507965329	0.001516981	4.37342702	
FAM176B	0.507889213	0.001516981	4.372543856	
FAM71A	0.507844209	0.001517467	4.372021741	yes
CCDC105	0.507739341	0.00152094	4.370805304	
PM20D1	0.507715713	0.00152094	4.370531263	
ZNF213	0.507631706	0.001523868	4.369557054	
FAM78B	0.507521333	0.001528388	4.368277322	
IL22RA2	0.507199124	0.001533945	4.364543115	

OR52E2	0.507358707	0.001533945	4.366392281	
PKN3	0.507160727	0.001533945	4.36409827	yes
IRX4	0.50727462	0.001533945	4.365417842	
PNMT	0.507248672	0.001533945	4.365117175	
KCNT1	0.507174203	0.001533945	4.364254394	
CPLX3	0.507236399	0.001533945	4.364974978	
RPL23AP71	0.507149602	0.001533945	4.363969395	yes
FAM71B	0.507082911	0.001535873	4.363196878	
KLHDC7A	0.506866016	0.001545623	4.360685176	
PERP	-0.506817824	0.001545623	-4.360127251	
BTN1A1	0.506837695	0.001545623	4.36035729	
ESPNL	0.506772235	0.001546291	4.359599505	
GAL3ST4	0.506600213	0.001554656	4.357608619	yes
MYBPC2	0.506540786	0.001556176	4.35692101	
FLJ32682	0.50647625	0.001557561	4.356174385	
ZNF804A	0.506449209	0.001557561	4.355861567	
LILRA1	0.506393476	0.001558865	4.355216891	
FAM9C	0.506343464	0.001559822	4.35463846	yes
TAF11	-0.506306944	0.001559958	-4.354216108	
DMBX1	0.506177757	0.001564052	4.352722321	
ZNF296	0.506010635	0.001564052	4.350790486	
OPTC	0.505974866	0.001564052	4.350377105	
HNRNPF	-0.506114617	0.001564052	-4.351992389	yes
HCN1	0.506164558	0.001564052	4.352569727	
HAPLN4	0.506051336	0.001564052	4.351260911	
LCOR	-0.505967058	0.001564052	-4.350286872	yes
SLC7A3	0.506078428	0.001564052	4.351574057	
ZNF517	0.505845643	0.001567336	4.34888392	
LOC100133430	0.505873894	0.001567336	4.349210329	
GALNTL6	0.50578495	0.001567377	4.348182746	
SNTG1	0.505764504	0.001567377	4.347946555	
HAND1	0.505743513	0.001567377	4.347704079	
S1PR5	0.505666909	0.001570008	4.346819276	

C7orf52	0.505614868	0.001571135	4.346218266	
CEBPE	0.505468065	0.001572042	4.344523224	
BBC3	0.505492212	0.001572042	4.344801994	
TRAV12-2	0.505493034	0.001572042	4.344811488	
FNDC4	0.50546571	0.001572042	4.344496035	
GRIN2D	0.505386559	0.001572322	4.343582333	
KRTAP10-2	0.505373051	0.001572322	4.343426411	
C3orf39	0.505360772	0.001572322	4.343284686	
FOLR4	0.505323558	0.001572557	4.34285518	
IRGC	0.50528661	0.001572779	4.342428763	
IL17D	0.505199852	0.001576067	4.34142762	
SEMA4G	0.505011004	0.001585672	4.339249039	
ODF3L2	0.504977192	0.001585707	4.338859069	
CEBPA	0.504793633	0.001588942	4.33674245	
SLC35F4	0.504792382	0.001588942	4.336728026	
BOLL	0.504818516	0.001588942	4.337029325	
TNF	0.50486366	0.001588942	4.337549835	
C15orf60	0.50468237	0.001592415	4.335459858	yes
SOST	0.504641299	0.001592415	4.334986483	
BRUNOL5	0.504637361	0.001592415	4.334941093	
HOXD1	0.504553501	0.00159558	4.333974667	
TMEM105	0.504478534	0.001598198	4.333110871	
FAM18A	0.504436691	0.001598757	4.332628807	
FIBCD1	0.504281664	0.001606386	4.330843088	
OR11H4	0.50421233	0.001608673	4.330044642	
NPY2R	0.504099974	0.001613665	4.32875097	
EXOC1	-0.503973449	0.001618342	-4.327294526	
SPOCD1	0.503960175	0.001618342	4.327141745	
RAB39B	0.503901488	0.00161998	4.326466331	
ERLIN1	-0.503782602	0.001621309	-4.325098353	yes
EIF5	-0.503785412	0.001621309	-4.32513069	yes
LRBA	-0.503837978	0.001621309	-4.325735514	yes
FAM101A	0.503373195	0.001639655	4.320389987	

CXCL5	0.503363186	0.001639655	4.320274922	
LOC646508	0.50341786	0.001639655	4.320903463	
OR1E1	0.503424856	0.001639655	4.320983896	
PRAP1	0.503272164	0.001641327	4.319228676	
S1PR4	0.503302427	0.001641327	4.319576512	
SNTA1	0.503207577	0.001643383	4.318486401	yes
LOC729135	0.503047767	0.001651537	4.316650186	
GNG7	0.502880864	0.001653462	4.314733099	
HSPA4	-0.502922747	0.001653462	-4.315214114	
TMEM215	0.502966743	0.001653462	4.315719453	
RNF121	-0.502884245	0.001653462	-4.314771933	
CTAGE1	0.502856717	0.001653462	4.314455795	
PHF21B	0.502785521	0.001655971	4.313638258	
RASD1	0.502671242	0.001661258	4.312326253	
DIRC2	-0.502498988	0.001668238	-4.310349224	
NEURL3	0.502527931	0.001668238	4.310681368	
CYP46A1	0.502161924	0.001683309	4.306482582	
LILRA4	0.502115386	0.001683309	4.305948921	
ATP1B2	0.50221467	0.001683309	4.30708748	
C9orf40	0.502198549	0.001683309	4.3069026	
CASKIN1	0.502107148	0.001683309	4.305854468	
SNORD116-10	0.501889682	0.001692755	4.303361467	
GDNF	0.501661482	0.001692755	4.300746581	yes
TAF5L	-0.501603728	0.001692755	-4.300084989	yes
GLI4	0.501619837	0.001692755	4.300269514	
IDH3A	-0.501842744	0.001692755	-4.302823516	yes
MALAT1	-0.501770696	0.001692755	-4.301997888	
MSI1	0.501680777	0.001692755	4.300967632	
MYO1A	0.501797526	0.001692755	4.302305324	
PRR16	0.501700331	0.001692755	4.301191658	
PTGER3	0.501683593	0.001692755	4.300999892	
SLC17A1	0.50158293	0.001692755	4.299846755	
NT5C1A	0.50163497	0.001692755	4.30044286	

TFG	-0.501476354	0.001697271	-4.298626129	
SCARF2	0.501426679	0.001697271	4.298057289	
FRMPD4	0.501419838	0.001697271	4.297978956	
C6orf221	0.501310489	0.001702392	4.296726987	
IGSF5	0.501200449	0.001705517	4.295467391	
TMEM224	0.50121409	0.001705517	4.295623515	
FGF22	0.501161567	0.001706022	4.295022381	
LRRC24	0.501129374	0.001706089	4.294653955	
C9orf25	0.501033933	0.001710325	4.293561857	
LGALS3	-0.500989355	0.001711213	-4.293051828	yes
FLJ43826	0.50084792	0.001718508	4.291433956	
NPHS2	0.500816733	0.001718516	4.291077261	
SPATA12	0.500703609	0.001721904	4.289783644	
KIAA0391	-0.50071104	0.001721904	-4.289868613	
MIA2	0.500535223	0.001722827	4.287858634	
ASIP	0.500560627	0.001722827	4.28814902	
KLK6	0.500541295	0.001722827	4.287928038	
TLE6	0.500653123	0.001722827	4.289206419	
LOC84856	0.50061702	0.001722827	4.288793673	
hCG_1993592	0.500493435	0.001723557	4.287381005	
LOC100129858	0.500337363	0.001723729	4.285597501	
CRISP1	0.500358382	0.001723729	4.285837665	
FOXA2	0.50035811	0.001723729	4.285834548	
IL31	0.500444928	0.001723729	4.286826638	
ANAPC7	-0.500390712	0.001723729	-4.286207075	
F11R	-0.500302131	0.001724037	-4.285194965	
SGPL1	-0.500210632	0.001726055	-4.28414969	
NUP153	-0.500226843	0.001726055	-4.284334866	yes
LVRN	0.500155963	0.00172766	4.283525251	
HECTD1	-0.500080774	0.001729259	-4.282666543	yes
LOC729173	0.500071009	0.001729259	4.282555025	
PHACTR3	0.49988278	0.001733151	4.280405936	
LCE4A	0.499867591	0.001733151	4.280232546	

PLAC9	0.499959411	0.001733151	4.281280765	yes
SIGLECP3	0.499800333	0.001733151	4.279464851	
C4orf12	0.499840699	0.001733151	4.279925585	
NUP88	-0.499951293	0.001733151	-4.281188083	
HES4	0.499817975	0.001733151	4.279666214	
MORC1	0.499739491	0.001733533	4.278770476	
PTH1R	0.499734274	0.001733533	4.278710939	
C3orf24	0.499615525	0.001734077	4.277355947	
ACOT12	0.499609391	0.001734077	4.277285961	
MDN1	-0.499650653	0.001734077	-4.27775675	
XCR1	0.499605812	0.001734077	4.277245135	
TRIM65	0.499545172	0.001736118	4.276553336	
OSCAR	0.499434601	0.001739498	4.275292125	
ARL2BP	-0.499463269	0.001739498	-4.275619096	
C2orf85	0.499364801	0.001742162	4.274496099	
TMIGD1	0.499310237	0.001743813	4.27387391	
SALL2	0.499176625	0.001750765	4.272350644	
FAM60A	-0.499114765	0.001752916	-4.271645529	yes
RNF215	0.499040581	0.00175446	4.270800057	
HOXD8	0.499026198	0.00175446	4.27063615	
C6orf122	0.499002489	0.00175446	4.270365972	
TANC2	-0.498902931	0.001759162	-4.269231593	
ACACA	-0.49876894	0.00176012	-4.267705231	
LHFPL3	0.498751154	0.00176012	4.267502661	
SPDYC	0.498830545	0.00176012	4.268406957	
KRT82	0.498715668	0.00176012	4.267098506	
PROP1	0.49876929	0.00176012	4.267709225	
ZCCHC3	0.498711082	0.00176012	4.26704627	
ANKRD60	0.498573772	0.001760683	4.265482715	
CELSR3	0.498555531	0.001760683	4.26527503	
GPR26	0.498564364	0.001760683	4.265375597	
DNLZ	0.498587372	0.001760683	4.265637557	
COL23A1	0.498576565	0.001760683	4.265514514	

MRPL18	-0.498412038	0.001762455	-4.263641581	
SEMA5B	0.498452717	0.001762455	4.264104597	
CMTM6	-0.498432269	0.001762455	-4.263871845	
GABBR2	0.498453503	0.001762455	4.264113553	
NT5C2	-0.498303887	0.001764352	-4.26241075	
TFAP2E	0.498267158	0.001764352	4.261992805	
PDYN	0.498295132	0.001764352	4.262311125	
PRHOXNB	0.498287472	0.001764352	4.262223955	
OR5H15	0.498217986	0.001765706	4.261433324	
AMAC1	0.498126487	0.001766996	4.260392392	
FOXG1	0.498053747	0.001766996	4.259565004	
IL17C	0.498145401	0.001766996	4.260607555	
GRM1	0.498059977	0.001766996	4.259635871	
FCRL4	0.498091339	0.001766996	4.25999259	
TBX21	0.497897714	0.001775595	4.257790595	
SHD	0.497789853	0.001780955	4.256564321	
RHBDL3	0.497613929	0.001785165	4.254564803	
SARDH	0.49758991	0.001785165	4.254291856	
APCS	0.497583769	0.001785165	4.254222084	
WDR45L	-0.497593475	0.001785165	-4.254332372	yes
CLEC11A	0.497686859	0.001785165	4.255393629	yes
RASGEF1A	0.49746514	0.001786371	4.252874242	
TGM6	0.497393949	0.001786371	4.252065535	
PLEKHA4	0.497501174	0.001786371	4.253283619	
VRK2	-0.497401945	0.001786371	-4.252156358	yes
IRX1	0.497395494	0.001786371	4.252083078	
LHX2	0.497491125	0.001786371	4.253169442	
HABP2	0.497332832	0.001786642	4.251371349	
SLC6A12	0.497345672	0.001786642	4.25151718	
LAG3	0.497270478	0.001788947	4.250663209	
NAT8L	0.497061913	0.001800047	4.24829521	
PSG9	0.496998758	0.001800047	4.24757836	
SIM2	0.497035079	0.001800047	4.247990618	

ZIC5	0.496994238	0.001800047	4.247527059	
LOC255411	0.496812242	0.001802807	4.245461792	
GPR22	0.49682993	0.001802807	4.245662481	
IGFBPL1	0.496839271	0.001802807	4.245768467	
PLIN	0.496858258	0.001802807	4.245983906	
ADAMTSL4	0.496856012	0.001802807	4.245958425	
ACHE	0.496716513	0.001807441	4.244375772	yes
CLDN19	0.496644579	0.001810448	4.243559837	
LIX1L	0.496570231	0.001811683	4.242716647	yes
AZU1	0.496582683	0.001811683	4.242857856	
LASS1	0.496481379	0.001814421	4.241709117	
INSM1	0.496363452	0.001814421	4.240372168	
ART1	0.496466444	0.001814421	4.241539776	
NRAS	-0.496364051	0.001814421	-4.240378961	
YBX2	0.496443427	0.001814421	4.241278824	
LGI1	0.496361905	0.001814421	4.240354631	
TRIM71	0.496143357	0.001816729	4.237877775	
SYT6	0.495947607	0.001816729	4.235660197	
PTCRA	0.495960648	0.001816729	4.235807901	
CHD5	0.496180513	0.001816729	4.238298801	
FOXD3	0.496115119	0.001816729	4.237557821	
IFNAR1	-0.495975455	0.001816729	-4.235975623	
HES5	0.496004062	0.001816729	4.236299662	
MT3	0.496115982	0.001816729	4.2375676	
C18orf56	0.496051575	0.001816729	4.236837906	
PRB1	0.495938802	0.001816729	4.235560464	
S100A7L2	0.496275987	0.001816729	4.239380776	
SLC30A5	-0.496268549	0.001816729	-4.239296475	
ZIC2	0.496033478	0.001816729	4.236632891	
KLK4	0.495989757	0.001816729	4.236137628	
EXOSC6	0.495806055	0.001817091	4.234057143	
HEPACAM	0.495768159	0.001817091	4.23362805	
SBK1	0.495873685	0.001817091	4.234822983	

C1orf53	0.495895191	0.001817091	4.235066535	
AVPR1B	0.495834803	0.001817091	4.234382666	
TMEM169	0.495794957	0.001817091	4.233931475	
ANO4	0.495680572	0.001819375	4.232636436	
EDN1	0.495680122	0.001819375	4.232631348	yes
DUSP26	0.495612629	0.001820249	4.231867346	
CER1	0.495629274	0.001820249	4.232055752	
ULBP1	0.495581368	0.001820518	4.231513513	
PRKCG	0.495534818	0.001821844	4.230986673	
LRFN1	0.495477934	0.001823886	4.230342938	
ZNF358	0.495144415	0.001832924	4.226570092	yes
VENTX	0.495163907	0.001832924	4.226790527	
C17orf55	0.495105047	0.001832924	4.22612491	
INCA1	0.495261396	0.001832924	4.227893125	
TBX20	0.495220364	0.001832924	4.227429028	
RTN4R	0.49510264	0.001832924	4.226097694	
MIXL1	0.495290203	0.001832924	4.228218978	
KRTAP3-2	0.495256547	0.001832924	4.227838281	
ACTN3	0.495132745	0.001832924	4.226438122	
ITGB8	-0.494812723	0.001849351	-4.222820373	
ENHO	0.494817568	0.001849351	4.222875119	
WDR51B	-0.49464331	0.001859333	-4.220906124	yes
TMPRSS6	0.494580922	0.001860495	4.220201347	
NPW	0.494553709	0.001860495	4.21989396	
HELT	0.494518804	0.001860495	4.219499702	
MGC16121	0.494526837	0.001860495	4.219590435	
TRIML1	0.494454295	0.001863138	4.218771147	
ARID2	-0.494349163	0.001864861	-4.217583994	yes
LAMA1	0.494355103	0.001864861	4.217651066	
SH2D5	0.494401692	0.001864861	4.218177125	
ABCG4	0.494315085	0.001865371	4.217199239	
ANO3	0.4942774	0.001866137	4.216773784	
OR8K3	0.494239237	0.001866939	4.216342973	

EN1	0.493998684	0.001878513	4.213628147	
KIAA0774	0.49404336	0.001878513	4.214132253	
CLEC5A	0.493968542	0.001878513	4.213288057	
QTRTD1	-0.493992619	0.001878513	-4.213559707	
SOX7	0.493881027	0.001882828	4.212300756	
LOC100133142	0.493810915	0.001884022	4.211509911	yes
LBXCOR1	0.493819976	0.001884022	4.211612114	
HOXB6	0.493766678	0.001885275	4.211010991	yes
MASP2	0.493616472	0.001886167	4.209317222	
OR10A7	0.493594942	0.001886167	4.209074486	
TMTC3	-0.493624433	0.001886167	-4.209406975	
KRT28	0.493624977	0.001886167	4.209413117	
GPR6	0.49366826	0.001886167	4.209901139	
CRIP3	0.493673282	0.001886167	4.209957771	
TMEM155	0.493460529	0.001892613	4.207559291	
PRDM12	0.493451517	0.001892613	4.207457707	
MCF2	0.493379515	0.001893983	4.206646226	
JAGN1	-0.493382227	0.001893983	-4.206676791	
MGC34800	0.493319336	0.001895598	4.205968094	
SAMD14	0.493178737	0.001895598	4.204384019	
KCNH4	0.493094357	0.001895598	4.203433556	
HNF4A	0.493116363	0.001895598	4.203681421	
MAP3K15	0.493207474	0.001895598	4.204707755	
SPRED3	0.49312792	0.001895598	4.2038116	
FLJ45983	0.493163715	0.001895598	4.204214796	
DMRTB1	0.493125816	0.001895598	4.203787895	
SOX1	0.493200435	0.001895598	4.20462845	
UPK3A	0.493293891	0.001895598	4.205681377	
LOC100133423	0.493007475	0.00189621	4.202455081	
PSKH2	0.493057636	0.00189621	4.203019985	
OTOP2	0.493029975	0.00189621	4.202708461	
SLC1A6	0.492929677	0.001899904	4.201579045	
CNOT1	-0.49287181	0.00190032	-4.200927529	yes

DKFZp564N2472	0.492873865	0.00190032	4.200950655	
FAM47A	0.492814647	0.001902548	4.200284008	
LOC389458	0.4927045	0.001903236	4.19904422	
MSX2	0.492666403	0.001903236	4.198615463	
BAIAP2L2	0.492649577	0.001903236	4.198426107	
FAM57B	0.492773574	0.001903236	4.199821667	
MAP4K4	-0.492689548	0.001903236	-4.198875937	
CD72	0.492662373	0.001903236	4.198570113	
FAM148C	0.492585067	0.001903291	4.197700204	
SYT10	0.492579011	0.001903291	4.197632063	
TAL1	0.492571388	0.001903291	4.19754629	yes
LELP1	0.492422955	0.00191208	4.195876418	
PAX1	0.492325055	0.001917266	4.194775302	
CUGBP1	-0.492278935	0.001918376	-4.194256646	
GPBAR1	0.492258201	0.001918376	4.19402349	
CPLX1	0.492135	0.001921796	4.192638289	
ZDHC13	-0.492133727	0.001921796	-4.192623982	yes
CCKBR	0.492141671	0.001921796	4.192713294	
RTP3	0.492100645	0.001922334	4.192252081	
GPR62	0.492073592	0.001922439	4.191947976	
OTOS	0.491992826	0.001924576	4.191040187	
COP22	0.492005209	0.001924576	4.191179357	yes
SYT4	0.491957804	0.001925261	4.190646588	
STX1B	0.491831682	0.001927892	4.189229371	
C2orf80	0.491863832	0.001927892	4.189590604	
ANAPC5	-0.491851841	0.001927892	-4.189455877	
FLJ22184	0.491819455	0.001927892	4.189092003	
TMEM221	0.491548445	0.001928777	4.186047957	
WTIP	0.491584313	0.001928777	4.186450741	yes
ADRA1B	0.491555486	0.001928777	4.186127028	
NANOS1	0.491641525	0.001928777	4.187093276	
FLJ46321	0.491564578	0.001928777	4.186229125	
FLJ26245	0.491633827	0.001928777	4.187006816	

SPP2	0.49157013	0.001928777	4.186291471	
DOK3	0.491528731	0.001928777	4.185826585	
USHBP1	0.491675738	0.001928777	4.187477545	yes
INSM2	0.491626779	0.001928777	4.186927657	
CAMK2N2	0.491572293	0.001928777	4.186315759	
TMEM154	-0.491473791	0.001930927	-4.185209715	yes
TMEM89	0.491376628	0.001936137	4.184118908	
NPY	0.491323896	0.001938137	4.183526993	
C17orf46	0.49123207	0.001939334	4.182496395	
ANKRD1	0.491242137	0.001939334	4.182609376	
MGC39545	0.491232099	0.001939334	4.182496721	
FGF4	0.491059923	0.00195003	4.180564819	
LOC390282	0.491023551	0.001950855	4.18015679	
SP7	0.490797757	0.001954743	4.17762443	
FGF1	0.49082844	0.001954743	4.177968492	
DOPEY1	-0.49079546	0.001954743	-4.177598683	yes
KRT34	0.490802735	0.001954743	4.177680252	
MYOD1	0.490901924	0.001954743	4.178792572	
NDUFA4L2	0.490810774	0.001954743	4.177770393	
SLC2A5	0.490823005	0.001954743	4.177907541	
NPAL2	-0.490721216	0.00195835	-4.176766258	
C1QTNF1	0.490633452	0.001962955	4.175782393	yes
C7orf51	0.490562433	0.001966341	4.174986372	
ADRA2C	0.490449274	0.001972428	4.17371825	yes
VSTM2B	0.490429958	0.001972428	4.17350181	
KCMF1	-0.490328505	0.001978077	-4.172365154	
LOC100132750	0.490220944	0.001982361	4.171160301	
PRR17	0.490221619	0.001982361	4.171167868	
VSX2	0.490119905	0.001986175	4.170028744	
NKX2-2	0.490131425	0.001986175	4.170157752	
LOC100129654	0.490065564	0.001986997	4.169420253	
CACNG8	0.490059402	0.001986997	4.16935126	
NLRP8	0.48996472	0.001987068	4.168291214	

C1orf213	0.489861658	0.001987068	4.167137565	
FLRT1	0.489864084	0.001987068	4.167164719	
HAS1	0.489926281	0.001987068	4.167860911	yes
SERPIND1	0.490027161	0.001987068	4.168990274	
PSEN1	-0.489908049	0.001987068	-4.16765683	
TMBIM6	-0.489878136	0.001987068	-4.167322007	
TRMT2B	-0.489970229	0.001987068	-4.168352885	
POU5F2	0.489731116	0.001987676	4.165676653	
ACTRT2	0.489795542	0.001987676	4.166397606	yes
PTPLAD1	-0.489777904	0.001987676	-4.16620022	
SLC5A5	0.489763015	0.001987676	4.166033602	
THRSP	0.489735911	0.001987676	4.165730301	
UBE2DNL	0.489632733	0.001992463	4.16457587	
ALX1	0.4896177	0.001992463	4.164407688	
SFTA2	0.489587185	0.001992919	4.164066322	
IGSF21	0.489520923	0.00199603	4.163325119	
MAP6D1	0.489486868	0.001996752	4.162944214	
CABP2	0.48931086	0.002006261	4.160975992	
ABHD8	0.489310535	0.002006261	4.160972362	
TSPAN3	-0.48923969	0.002008159	-4.160180323	
C3orf1	-0.489236555	0.002008159	-4.160145275	
TPTE	0.489148508	0.002012928	4.15916107	
EGLN1	0.489035097	0.00201961	4.157893593	
NXF4	0.4889214	0.002026334	4.156623198	
RPRML	0.488882227	0.002027461	4.15618556	
NPPC	0.488784759	0.002032365	4.155096809	
CASR	0.48876882	0.002032365	4.154918782	
PDZD8	-0.488583887	0.002038552	-4.152853632	
FAM175B	-0.488542303	0.002038552	-4.152389363	
CDH20	0.488550101	0.002038552	4.152476422	
GPR143	0.48854599	0.002038552	4.152430525	
PSAPL1	0.48855962	0.002038552	4.1525827	
FZD8	0.488576327	0.002038552	4.152769228	

AMBN	0.48849926	0.00203999	4.151908844	
TARDBP	-0.488434391	0.002041265	-4.151184747	
ALPK1	-0.488453408	0.002041265	-4.151397011	yes
CPNE9	0.488378431	0.002043687	4.150560167	
SNORD116-24	0.488235988	0.002044984	4.148970635	
UHMK1	-0.488235761	0.002044984	-4.148968099	
NANOS3	0.488224467	0.002044984	4.148842091	
C9orf139	0.488280869	0.002044984	4.149471417	
PNLIP	0.488314158	0.002044984	4.149842884	
NUFIP2	-0.48821784	0.002044984	-4.148768153	yes
DNAJC5G	0.488074402	0.002049351	4.147168004	
LOC440786	0.488096813	0.002049351	4.147417981	
VTN	0.488064987	0.002049351	4.147062987	
PTTG1IP	-0.488122259	0.002049351	-4.14770183	
TIMD4	0.488029969	0.002050204	4.146672413	
ZBTB46	0.487762331	0.002051043	4.143688186	
DDX3X	-0.487822743	0.002051043	-4.144361661	yes
CAND2	0.487835396	0.002051043	4.144502726	
NTSR2	0.487759951	0.002051043	4.143661653	
NPB	0.487924535	0.002051043	4.145496616	
OR5J2	0.487963195	0.002051043	4.14592773	
MYO7B	0.487844844	0.002051043	4.144608063	yes
PCYT1A	-0.487893714	0.002051043	-4.145152948	
CACNA1A	0.487779358	0.002051043	4.143877994	
GDF5	0.487758648	0.002051043	4.143647123	
NRIP2	0.487813149	0.002051043	4.144254703	
C9orf4	0.487729365	0.002051479	4.143320713	yes
DPEP1	0.487642554	0.002055714	4.142353136	
CARD9	0.487626581	0.002055714	4.142175115	
HOXD13	0.487579367	0.002057518	4.14164897	
FLJ32063	0.487506519	0.002061278	4.14083724	
APC2	0.487318715	0.002061325	4.138745118	
REM2	0.487454137	0.002061325	4.140253633	

C9orf11	0.487387046	0.002061325	4.139506235
SOX2	-0.487324712	0.002061325	-4.138811912
SPRR2F	0.487372231	0.002061325	4.139341211
TRPM2	0.487386402	0.002061325	4.139499064
FKRP	0.487440265	0.002061325	4.140099093
DGKI	0.487360326	0.002061325	4.139208602
CHRNA4	0.487246822	0.002061477	4.137944436
OR7C1	0.487250894	0.002061477	4.137989781
ERBB2IP	-0.487287594	0.002061477	-4.13839851
LOC146429	0.487101281	0.002069909	4.136323864
HOXC13	0.487089821	0.002069909	4.136196275
KAAG1	0.487053767	0.002070105	4.135794898
PCDH8	0.487040801	0.002070105	4.135650565
TOR2A	0.486953826	0.002074986	4.134682437
UNC84A	-0.486866701	0.002079889	-4.133712805
UNQ6193	0.486739844	0.002082522	4.132301275
POM121L3P	0.486762113	0.002082522	4.132549037
LOC728606	0.486764626	0.002082522	4.132576992
SPG11	-0.486761138	0.002082522	-4.132538186
ALX4	0.486711881	0.002082896	4.131990182
PSME3	-0.486660663	0.002084422	-4.131420411
PCBD1	-0.486622825	0.002084422	-4.130999516
TSPAN10	0.486633359	0.002084422	4.13111669
CDX2	0.486565735	0.002087042	4.130364534
KCTD19	0.486433227	0.00209184	4.128890984
GRM8	0.486446264	0.00209184	4.129035943
NKX6-1	0.486411497	0.00209184	4.128649371
NBEAL1	-0.486443463	0.00209184	-4.129004801
CCL23	0.486356563	0.002093308	4.128038617
CA7	0.486346577	0.002093308	4.127927601
LIX1	0.486167982	0.002094741	4.125942463
GABRA4	0.486290297	0.002094741	4.127301953
GATA1	0.486211807	0.002094741	4.12642953

yes

EMR4P	0.486254845	0.002094741	4.126907881	
TEPP	0.486267192	0.002094741	4.127045123	
AMTN	0.486192516	0.002094741	4.12621512	
CYP2W1	0.486190208	0.002094741	4.126189465	
ASTL	0.486066752	0.002099039	4.124817558	
UBE2A	-0.486075648	0.002099039	-4.124916403	
PURG	0.485955973	0.002100573	4.123586788	
PLCXD3	0.485969695	0.002100573	4.123739233	
NTRK1	0.486009041	0.002100573	4.124176349	
VPS4B	-0.485966279	0.002100573	-4.123701281	
GJC2	0.485903758	0.002101103	4.123006772	
CACNA1G	0.48591125	0.002101103	4.123089992	
GFM2	-0.485878519	0.002101302	-4.122726422	yes
CACNG2	0.485659338	0.002110383	4.120292422	
RP11-93B14.6	0.485659315	0.002110383	4.120292168	
SLC25A34	0.485648238	0.002110383	4.120169187	
PRSSL1	0.485707652	0.002110383	4.120828862	
SPATA9	0.485660841	0.002110383	4.120309112	
SEMG2	0.485590698	0.002113099	4.119530397	
KBTBD5	0.485463062	0.002121276	4.118113658	
SCARNA22	0.485437297	0.002121528	4.117827706	
FLJ36070	0.485333913	0.002126081	4.116680467	
AKR1D1	0.485341326	0.002126081	4.116762729	
FAM92A3	0.485292102	0.002127591	4.116216564	
AIG1	-0.485263177	0.002128095	-4.11589566	yes
RLTPR	0.485216612	0.002128636	4.115379072	
GFAP	0.485211351	0.002128636	4.115320709	
ZNF585B	-0.485067185	0.002138171	-4.113721669	
STRBP	-0.485012526	0.002140702	-4.113115534	yes
LOC390956	0.484934657	0.002144582	4.112252103	
CXCR5	0.484918388	0.002144582	4.112071731	
GHRHR	0.484870459	0.002146593	4.111540368	
TRIM2	-0.484817709	0.002147104	-4.110955614	yes

ERC2	0.484752358	0.002147104	4.11023125
RBMXL2	0.484768968	0.002147104	4.110415353
WNT6	0.484771347	0.002147104	4.110441713
PHOX2B	0.484791472	0.002147104	4.110664784
PLAC1	0.484622665	0.002153836	4.108793973
LOC153328	0.484560709	0.002153836	4.108107492
HOXA13	0.484550964	0.002153836	4.107999529
IGFALS	0.484557647	0.002153836	4.108073575
OGG1	0.484583701	0.002153836	4.108362242
ATOX1A	0.484533554	0.002153836	4.107806645
EPHA10	0.484507574	0.002154136	4.107518816
SALL3	0.484394742	0.002157916	4.106268965
MPO	0.484393263	0.002157916	4.106252578
PSMD11	-0.484399575	0.002157916	-4.106322498
XPO1	-0.484361705	0.002158662	-4.105903056
C20orf185	0.484330383	0.002159391	4.105556169
C17orf78	0.484297507	0.002160245	4.105192092
FSD1	0.484151774	0.002167594	4.103578484
FSCB	0.484172694	0.002167594	4.103810094
CLOCK	-0.48413856	0.002167594	-4.103432188
LOC100133367	0.483890197	0.002175437	4.100683323
ACTL7B	0.483879763	0.002175437	4.10056786
SAMD11	0.483927411	0.002175437	4.101095117
GRM3	0.483977593	0.002175437	4.101650474
FLJ43093	0.483864038	0.002175437	4.100393864
FLJ11235	0.483973279	0.002175437	4.101602723
ELSPBP1	0.48387633	0.002175437	4.10052988
NRG2	0.484005499	0.002175437	4.101959314
KTI12	-0.48384008	0.002175601	-4.100128785
SMG1	-0.483787615	0.002176779	-4.099548327
HCFC1R1	0.483781507	0.002176779	4.099480752
SLC26A1	0.483748014	0.002177705	4.099110227
ARFGEF1	-0.48368902	0.002178925	-4.098457644

CYP26C1	0.483696168	0.002178925	4.098536715	
PRDM4	-0.483604282	0.002181818	-4.097520424	yes
PCP2	0.483609784	0.002181818	4.097581274	yes
CTRB2	0.483587318	0.002181818	4.097332818	
GJA10	0.483564854	0.002181874	4.097084387	
LOC100133408	0.483525342	0.00218329	4.096647464	
NUP98	-0.483434538	0.002188804	-4.095643469	
DNMT3B	0.483343848	0.002194323	4.0946409	
CD300LG	0.483293494	0.002194879	4.094084316	
HDHD2	-0.483308647	0.002194879	-4.094251804	
ADORA3	0.48324688	0.002195044	4.093569127	
DNAJC16	-0.483252416	0.002195044	-4.093630309	yes
MRPS10	-0.48322643	0.002195044	-4.093343114	yes
LOC644538	0.483121822	0.0022017	4.092187159	
OR10A4	0.483091596	0.002202391	4.091853188	
FLJ36031	0.483046013	0.00220328	4.091349582	
UNQ6190	0.483037324	0.00220328	4.091253594	
CPA2	0.482933404	0.002206434	4.090105645	
C6orf138	0.482936548	0.002206434	4.090140374	
RLBP1	0.48295387	0.002206434	4.09033171	
RP11-167P23.2	0.482874104	0.002207393	4.089450698	
FBXW12	0.482835178	0.002207393	4.089020805	
LOC389137	-0.482756388	0.002207393	-4.088150776	
FOXP3	0.482749622	0.002207393	4.088076066	
KIAA1219	-0.482827146	0.002207393	-4.088932103	
UGCG	-0.48275677	0.002207393	-4.08815499	
TMEM121	0.482861709	0.002207393	4.089313809	
KRTAP9-3	0.482780755	0.002207393	4.088419826	
DCTD	-0.482560215	0.002216535	-4.085985099	
HTR2C	0.482548354	0.002216535	4.085854185	
APOC2	0.482548497	0.002216535	4.085855757	
MNAT1	-0.482507884	0.002216535	-4.085407524	
NCK2	-0.482517542	0.002216535	-4.085514115	

LRRC4B	0.48257737	0.002216535	4.086174455	yes
ASGR2	0.482484744	0.002216681	4.085152141	
MST075	0.482440295	0.002218549	4.084661627	
KLK3	0.482320367	0.002225519	4.083338361	
GALR3	0.482311528	0.002225519	4.083240843	
LOC100130503	0.482116903	0.002226323	4.081094057	
AGAP2	0.482155138	0.002226323	4.081515744	
LSM11	0.482089502	0.002226323	4.080791887	yes
DLX1	0.482227047	0.002226323	4.082308896	
GRIN2C	0.482222663	0.002226323	4.082260533	
HOXA10	0.482235881	0.002226323	4.08240634	
TMEM52	0.48209911	0.002226323	4.080897841	
CALHM2	0.482101815	0.002226323	4.080927671	
RPL3L	0.482213572	0.002226323	4.082160259	
KHDC1	0.482101681	0.002226323	4.08092619	
LRRC26	0.482064726	0.002226618	4.080518663	
CDH4	0.481905031	0.002232724	4.078757927	
C21orf87	0.481930754	0.002232724	4.079041509	
FIGLA	0.481940499	0.002232724	4.079148941	
PRKACG	0.48191678	0.002232724	4.078887449	
KRTAP10-10	0.481812232	0.002238553	4.07773501	
ICK	-0.481716146	0.002242839	-4.076676049	
PLAC8	-0.481696471	0.002242839	-4.076459227	yes
NGB	0.481724584	0.002242839	4.076769038	
LILRB5	0.481545455	0.002243605	4.074795332	
MOGAT1	0.481511474	0.002243605	4.074420986	
MYADML	0.481447291	0.002243605	4.073714005	
DRD2	0.48143593	0.002243605	4.073588869	
KCNE1L	0.481461142	0.002243605	4.073866573	
EVX2	0.481589698	0.002243605	4.075282755	yes
IL11	0.481546055	0.002243605	4.074801936	
DKFZp779M0652	0.4814705	0.002243605	4.073969642	
LTC4S	0.481597049	0.002243605	4.075363736	

NTF4	0.481663502	0.002243605	4.07609593
PDIA2	0.481525421	0.002243605	4.074574624
FOXH1	0.481473864	0.002243605	4.074006698
SULT4A1	0.481366736	0.002245848	4.072826801
FAM173A	0.48136863	0.002245848	4.072847664
FZD6	-0.481280771	0.002250361	-4.071880164
EIF4EBP3	0.4812698	0.002250361	4.071759372
DDN	0.481190216	0.002252025	4.070883148
UGDH	-0.481168806	0.002252025	-4.070647455
SCARF1	0.481166376	0.002252025	4.0706207
ZNF697	0.481195059	0.002252025	4.07093647
CDA	0.481141355	0.002252376	4.070345261
GPR3	0.481085334	0.002253149	4.069728605
LOC389257	0.48106979	0.002253149	4.069557521
TFAP2D	0.481085095	0.002253149	4.069725981
KIAA0494	-0.481004335	0.00225681	-4.068837118
CDK7	-0.480868486	0.002260013	-4.067342254
CETN1	0.480854842	0.002260013	4.067192135
EID2	0.480911281	0.002260013	4.067813131
TMEM87A	-0.480933198	0.002260013	-4.068054294
LOC653808	0.480852606	0.002260013	4.067167536
SOX3	0.480841445	0.002260013	4.067044749
C9orf96	0.48074029	0.002263876	4.065931951
SLC19A1	0.480732611	0.002263876	4.06584748
CCK	0.480744816	0.002263876	4.065981743
SLC1A7	0.480707448	0.002264255	4.065570703
ATP2C1	-0.480615145	0.002270147	-4.06455554
C14orf48	0.48051518	0.002276685	4.063456298
NOXO1	0.480370856	0.002282353	4.061869642
KPNA1	-0.480388959	0.002282353	-4.062068642
C3orf36	0.48036452	0.002282353	4.061800001
FBN3	0.480394394	0.002282353	4.062128386
NUDT16	0.480189371	0.002282366	4.059875068

CHODL	0.480272824	0.002282366	4.060792152	
SLC16A8	0.480257359	0.002282366	4.060622199	
ZNF775	0.480278677	0.002282366	4.06085648	yes
TREML1	0.480198675	0.002282366	4.059977298	
MAGEB3	0.480230914	0.002282366	4.060331577	
POU3F1	0.480180766	0.002282366	4.059780506	
TNNI1	0.480261402	0.002282366	4.060666624	
TNFRSF8	0.4803028	0.002282366	4.061121608	
COG5	-0.480104976	0.00228261	-4.058947763	
OXER1	0.480076295	0.00228261	4.058632659	
PKNOX2	0.480107187	0.00228261	4.058972057	
KIF2B	0.480090455	0.00228261	4.058788231	
ECEL1	0.480117846	0.00228261	4.059089169	
SNORA38B	0.480000062	0.002283887	4.057795212	
ATP2B3	0.480029134	0.002283887	4.058114571	
GLRA3	0.480002712	0.002283887	4.057824326	
ALS2CR11	0.479934541	0.002287599	4.057075539	
KRTAP10-12	0.479914675	0.002287599	4.056857346	
LCMT1	-0.47988516	0.002288369	-4.056533197	
TAS1R3	0.479858008	0.002288945	4.056235013	
ACCN1	0.47983267	0.002289372	4.055956767	
DENR	-0.479755981	0.00229405	-4.0551147	
LOC100129346	0.479699054	0.00229554	4.05448969	
ATP6V0E2	0.479697709	0.00229554	4.054474928	
NAALADL1	0.479563645	0.002300269	4.05300331	
CYGB	0.479615264	0.002300269	4.053569891	
HSD17B14	0.479560271	0.002300269	4.052966277	yes
CDC123	-0.479572873	0.002300269	-4.053104594	
IGFL1	0.479420382	0.002306893	4.051431116	
PRG2-1	0.479429169	0.002306893	4.051527539	
ADPGK	-0.479439635	0.002306893	-4.051642379	
OR5F1	0.479374277	0.002309062	4.050925245	
FAAH2	-0.479148835	0.002323321	-4.048452269	

SOHLH1	0.479152305	0.002323321	4.048490323	
UAP1L1	0.479143459	0.002323321	4.048393312	yes
VDAC3	-0.479113544	0.002324151	-4.048065245	yes
KIAA1772	0.479065159	0.002325398	4.047534658	
NETO1	0.479058704	0.002325398	4.047463878	
NDP	0.47903354	0.002325834	4.047187951	
DPYSL4	0.478956217	0.002330646	4.046340185	
DIRAS2	0.478885275	0.002334931	4.045562478	
RASL10A	0.47886413	0.002335033	4.045330701	
GTF3C2	-0.478816608	0.002335681	-4.044809826	
CPA5	0.478833578	0.002335681	4.044995822	
PIK3R5	0.478636298	0.002342186	4.042833891	
GATA6	0.478662923	0.002342186	4.043125624	
BSX	0.478709335	0.002342186	4.043634185	
ANKRD34C	0.478600357	0.002342186	4.042440118	
PAK1	-0.478606882	0.002342186	-4.042511605	
CD320	0.47860928	0.002342186	4.042537874	
SEMA3G	0.47862759	0.002342186	4.042738483	yes
H2BFM	0.478520796	0.002346454	4.041568511	
TCAP	0.47851015	0.002346454	4.041451896	
DYSFIP1	0.478471303	0.002348064	4.041026377	
SLC4A9	0.478448678	0.002348305	4.040778571	
FOXD2	0.47836991	0.002353293	4.039915899	
RP11-191L9.1	0.478329071	0.002355078	4.039468674	
CPN1	0.478268149	0.002358567	4.038801599	
IGF1R	-0.478222723	0.002359075	-4.038304243	
SGCA	0.478240642	0.002359075	4.038500422	
LECT1	0.478196745	0.002359115	4.038019833	
PARP4	-0.478143519	0.002359115	-4.037437164	
NPTXR	0.478143662	0.002359115	4.037438728	
ZNF541	0.478163072	0.002359115	4.0376512	
ZDHC8P	0.477903152	0.002376213	4.03480654	
NR5A1	0.477904248	0.002376213	4.034818531	

EPO	0.477753741	0.002377255	4.033171953
C14orf178	0.477818619	0.002377255	4.033881677
TAAR6	0.477756392	0.002377255	4.033200953
C19orf35	0.477772269	0.002377255	4.033374631
ATR	-0.477795192	0.002377255	-4.033625397
LHX5	0.477818854	0.002377255	4.033884253
SLC28A1	0.47785341	0.002377255	4.034262299
KCNJ14	0.477715922	0.002378814	4.032758277
ACBD5	-0.477660266	0.002381899	-4.032149546
KRT33B	0.477605779	0.002383219	4.031553667
TXNL4B	-0.477605974	0.002383219	-4.031555802
SULT1C2	0.477509331	0.002389804	4.030499041
TFAP2B	0.477485844	0.002390146	4.030242239
SIGLEC1	0.477432759	0.002393027	4.02966188
GNAZ	0.477400527	0.002393389	4.02930952
GZMM	0.477370164	0.002393389	4.028977615
PAX3	0.477385644	0.002393389	4.029146833
GLDC	0.477231025	0.002403677	4.027456897
GBX2	0.477123498	0.002411275	4.026281955
OR4C12	0.477036842	0.002417087	4.025335229
MAPK12	0.477008938	0.002417822	4.025030419
MAP4K3	-0.476828431	0.002431804	-4.023058965
PTH2	0.476786955	0.002432038	4.022606064
NEUROG3	0.476790265	0.002432038	4.022642206
SGMS2	-0.476714964	0.002434502	-4.02182004
NKX2-8	0.476577158	0.002434502	4.020315709
FOXB1	0.476590379	0.002434502	4.02046002
SATL1	0.476731407	0.002434502	4.021999558
ZCCHC16	0.476654677	0.002434502	4.021161888
TBX10	0.476565423	0.002434502	4.020187633
POGK	-0.476600711	0.002434502	-4.020572798
PTPRK	-0.476612935	0.002434502	-4.020706226
PDZD7	0.476654935	0.002434502	4.021164698

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MASTL	-0.476593481	0.002434502	-4.02049388	
NNAT	0.476508004	0.002437825	4.019560961	
SPIB	0.476470032	0.002439458	4.019146561	
KPNA3	-0.476428392	0.002441412	-4.018692176	
MMEL1	0.476380597	0.002442606	4.018170664	
ASH2L	-0.476376269	0.002442606	-4.018123445	
IFNA16	0.476267875	0.002448723	4.016940895	
MRPS16	-0.476274792	0.002448723	-4.017016355	
C20orf123	0.476212557	0.002451885	4.016337491	
AKAP13	-0.47611073	0.002457741	-4.015226911	
KCNQ3	0.476107425	0.002457741	4.015190864	
C10orf35	0.476085327	0.002458	4.014949891	
PWP1	-0.475994325	0.002458715	-4.013957604	
B3GAT2	0.475977304	0.002458715	4.013772022	
NKX2-3	0.475996898	0.002458715	4.013985652	
OR9Q2	0.475979005	0.002458715	4.013790568	
C12orf69	0.475962515	0.002458715	4.013610782	
C2orf42	-0.476023613	0.002458715	-4.01427694	
ACER1	0.475912667	0.002461417	4.013067339	
OR2D3	0.475783852	0.002467719	4.011663236	
PUM2	-0.475800707	0.002467719	-4.011846936	
FAM70B	0.475803326	0.002467719	4.011875483	yes
ZNF497	0.475653681	0.002477519	4.010244691	
CNTN2	0.475604343	0.002480198	4.009707108	
ZNF837	0.475554896	0.002481793	4.009168403	
LOXHD1	0.475548294	0.002481793	4.009096479	
MAB21L2	0.475474139	0.002483301	4.008288678	
IMP5	0.475455365	0.002483301	4.008084177	
CRLS1	-0.475436421	0.002483301	-4.007877837	
MPP4	0.475466647	0.002483301	4.00820707	
SSTR4	0.475446736	0.002483301	4.007990192	
GPRIN1	0.47529584	0.002485337	4.00634685	
DIS3L	-0.47533267	0.002485337	-4.0067479	

USH1G	0.475353371	0.002485337	4.006973334	
PCSK9	0.475282338	0.002485337	4.006199824	
C1orf95	0.475271921	0.002485337	4.006086402	
PRAMEF2	0.475262276	0.002485337	4.005981372	
MOGAT2	0.475365353	0.002485337	4.007103823	
TM9SF2	-0.475311284	0.002485337	-4.006515015	
ST8SIA2	0.475238757	0.002485751	4.005725299	
C12orf67	0.475178058	0.00248946	4.005064452	
COL4A3	0.475103424	0.002494411	4.004251991	
API5	-0.47504628	0.002497816	-4.003629992	
C9orf100	0.474985906	0.002501514	4.002972914	
GJD3	0.474964237	0.00250177	4.002737104	
CDH24	0.474882244	0.002507402	4.001844882	
KCNJ10	0.474839905	0.00250783	4.001384219	
DNASE2B	0.474858199	0.00250783	4.001583262	
SLC3A1	0.474723422	0.00251656	4.00011703	
TMEM59L	0.474663897	0.002516857	3.999469568	
GRM2	0.474670636	0.002516857	3.999542871	
CACNA2D4	0.474673578	0.002516857	3.999574868	
RSPRY1	-0.474636558	0.002517629	-3.999172229	
ASB18	0.474583294	0.002520724	3.998592961	
ABI1	-0.474554887	0.002521594	-3.998284056	yes
RP13-102H20.1	0.47429567	0.002526464	3.995465941	
SLC39A12	0.47427712	0.002526464	3.99526432	
LOC285943	0.474467591	0.002526464	3.997334856	
HOXA4	0.47441294	0.002526464	3.996740685	
SLC6A18	0.474458611	0.002526464	3.997237222	
TBPL2	0.47432319	0.002526464	3.995765059	
LOC389813	0.474352233	0.002526464	3.996080756	
LENEP	0.474313062	0.002526464	3.99565498	
TMEM9B	-0.47433642	0.002526464	-3.99590887	
SLC2A4RG	0.474300794	0.002526464	3.995521628	
JPH3	0.474388474	0.002526464	3.996474711	

ZNF628	0.474385628	0.002526464	3.99644378	
SMYD1	0.47418834	0.00252944	3.994299481	
PEAR1	0.47419349	0.00252944	3.994355439	yes
NKD2	0.474212289	0.00252944	3.994559732	
OR14C36	0.474128979	0.00253048	3.993654434	
OR2B3	0.474121242	0.00253048	3.993570368	
FLJ10490	0.474155575	0.00253048	3.993943432	
SERPINA13	0.474043948	0.002535766	3.992730585	
GPA33	0.473972397	0.002538881	3.9919533	
NIF3L1	-0.473973834	0.002538881	-3.991968919	
PP2672	0.473867749	0.002539518	3.990816663	
ZNF365	0.473900557	0.002539518	3.991172986	
ABCB9	0.473861141	0.002539518	3.990744898	
OR10H5	0.473836348	0.002539518	3.990475641	
MYO1E	-0.473889466	0.002539518	-3.991052521	
HIAT1	-0.473851906	0.002539518	-3.990644601	
SNORA80	0.473945893	0.002539518	3.991665411	
LOC100128979	0.473762073	0.002539633	3.989669076	
OR51Q1	0.47378248	0.002539633	3.989890668	
TPD52L3	0.473780294	0.002539633	3.989866934	
HS3ST2	0.473761611	0.002539633	3.989664058	
PPAPDC1A	0.473716684	0.002542028	3.989176241	
MAN1A2	-0.47369416	0.002542406	-3.988931693	
VAMP8	-0.473601862	0.00254908	-3.987929692	
NPTX2	0.473509708	0.0025541	3.986929418	
C16orf61	-0.473527432	0.0025541	-3.987121795	
DEFA5	0.473462507	0.002556717	3.986417152	
MMP11	0.473322686	0.002561549	3.984899946	
PRPH	0.473332607	0.002561549	3.985007584	
CHST7	0.473328179	0.002561549	3.98495954	
SLC2A4	0.473351743	0.002561549	3.985215209	
CLEC3B	0.473317868	0.002561549	3.984847664	yes
OR4X2	0.473242396	0.002562362	3.984028881	

XKR6	0.473174801	0.002562362	3.98329565	yes
KIR2DS4	0.473145196	0.002562362	3.982974538	
RALB	-0.473174341	0.002562362	-3.983290657	
NARG1	-0.473168534	0.002562362	-3.98322768	
SP6	0.473153623	0.002562362	3.983065938	
PNPT1	-0.473250599	0.002562362	-3.984117874	
CD7	0.473172069	0.002562362	3.983266016	
TTYH2	0.473279379	0.002562362	3.984430092	
OR6T1	0.473098018	0.002564996	3.982462863	
PADI4	0.473068922	0.002565992	3.982147321	
MED17	-0.47303986	0.002566985	-3.981832158	
CDX4	0.472972832	0.002567262	3.981105348	
AHCYL2	-0.472986151	0.002567262	-3.981249766	
CATSPER4	0.472994871	0.002567262	3.981344314	
JPH4	0.472964453	0.002567262	3.981014496	
AP3S2	-0.472846663	0.002576329	-3.979737487	
USP10	-0.472826792	0.002576494	-3.979522076	yes
HEATR7B1	0.47280365	0.002576958	3.979271226	
AIF1L	0.472755556	0.002579696	3.978749941	
HOXC12	0.472727772	0.002580585	3.978448811	yes
PAPPA2	0.472547235	0.002594642	3.976492491	
FRMD1	0.472537952	0.002594642	3.976391924	
CNGB1	0.472472833	0.002595599	3.975686453	
ESRRA	0.472455545	0.002595599	3.975499176	
B3GNT8	0.472455956	0.002595599	3.975503633	
SLC4A10	0.472478605	0.002595599	3.975748984	
KCNN1	0.472425328	0.002596721	3.975171864	
GTF2E1	-0.472360318	0.002601038	-3.974467719	
C20orf141	0.472288582	0.002601038	3.973690823	
GALR1	0.472308281	0.002601038	3.973904152	
SPTLC2	-0.472293984	0.002601038	-3.973749328	
CHD1L	-0.472317728	0.002601038	-3.974006463	
MAP3K10	0.472247566	0.00260316	3.973246672	

IL29	0.47208059	0.002616884	3.971438856	
PRR7	0.47202382	0.002620474	3.970824349	
TMEM158	0.471999524	0.002621066	3.970561381	
POLD3	-0.471857623	0.002626498	-3.969025709	
FLJ42291	0.471884224	0.002626498	3.969313561	
IGLON5	0.471864827	0.002626498	3.969103655	
SYN1	0.471851495	0.002626498	3.968959394	
NOG	0.47185929	0.002626498	3.969043742	
H1FOO	0.471736636	0.002635492	3.967716689	
SCN10A	0.471715189	0.002635828	3.967484668	
DUXA	0.471687736	0.002636723	3.967187696	
PSD2	0.471627111	0.002640702	3.966531927	
AP1G1	-0.471573486	0.002644036	-3.965951937	
MMP21	0.471515719	0.00264776	3.965327211	
TESC	0.471445442	0.002651194	3.964567286	yes
PRODH2	0.471443346	0.002651194	3.964544618	
SERPINA10	0.471220675	0.002668974	3.962137468	
FAM186B	0.47121784	0.002668974	3.962106825	
ZMPSTE24	-0.47110209	0.002678188	-3.960855916	
GPR88	0.471047034	0.002681702	3.960261018	
ACTG1	-0.471007709	0.002683738	-3.959836133	
LRRC3B	0.470934436	0.002684973	3.959044546	
EFNA2	0.470938094	0.002684973	3.959084054	
HCRTR1	0.470927956	0.002684973	3.95897454	
LY6H	0.470923751	0.002684973	3.958929114	
SPTA1	0.470832052	0.002691963	3.95793863	yes
FBXL16	0.470780627	0.002693483	3.957383237	
GRRP1	0.470789604	0.002693483	3.957480195	
LOC404266	0.470754278	0.002694304	3.957098696	
C19orf71	0.470601852	0.002696178	3.955452866	
MAGEA13P	0.470629127	0.002696178	3.955747339	
VWCE	0.47069614	0.002696178	3.95647089	
HADHB	-0.470575915	0.002696178	-3.955172851	

FLJ35767	0.470616707	0.002696178	3.955613242	
POU4F2	0.470622875	0.002696178	3.95567983	
PCDH10	0.470586857	0.002696178	3.955290985	
FTMT	0.470603634	0.002696178	3.955472101	
ONECUT2	0.470584845	0.002696178	3.955269264	
HMGA1	0.470546109	0.002697336	3.954851086	
IL34	0.470510889	0.002699008	3.954470909	yes
LOC100128364	0.470481511	0.002700129	3.954153795	
C11orf41	0.470444769	0.002700287	3.953757229	
NOX5	0.470458934	0.002700287	3.953910115	
SLC39A9	-0.470395787	0.002703269	-3.953228588	
FOXR2	0.470235699	0.002710162	3.951501168	
LOC400657	0.47025809	0.002710162	3.951742744	
NCRNA00167	0.470270192	0.002710162	3.951873326	
RAB14	-0.470246392	0.002710162	-3.951616539	
GPR177	-0.470283209	0.002710162	-3.952013775	
MAGEA11	0.470203892	0.002711525	3.951158019	
TNFRSF4	0.470169183	0.002713165	3.950783582	
SEL1L2	0.470044704	0.002723363	3.949440897	
SLC22A12	0.469964509	0.00272769	3.94857605	
MTRF1	-0.469966626	0.00272769	-3.948598877	
OR51A2	0.469920347	0.002730246	3.948099837	
IQCF1	0.469828487	0.002736725	3.947109416	
C19orf26	0.469817833	0.002736725	3.946994566	
EVX1	0.469766939	0.002739936	3.946445915	
NEO1	-0.469732087	0.002741611	-3.946070231	
NDST4	0.469692063	0.002743785	3.945638827	
TSGA13	0.469605078	0.002747135	3.944701345	
HMCN2	0.469608659	0.002747135	3.94473994	
CALY	0.469631955	0.002747135	3.944990993	
ADRA1A	0.46949864	0.002749036	3.943554423	yes
DIMT1L	-0.469524983	0.002749036	-3.943838256	
PRIM2	-0.469555089	0.002749036	-3.94416266	

TCHH	0.469532133	0.002749036	3.943915306	
RCSD1	0.469500142	0.002749036	3.943570598	
RADIL	0.469473829	0.002749757	3.943287097	
TCL1B	0.46942849	0.002752456	3.94279863	
SLC25A26	-0.46935709	0.00275767	-3.942029484	
CDSN	0.469313661	0.002758526	3.941561698	
MAGEE2	0.469324313	0.002758526	3.941676426	
IGFL2	0.469233193	0.002761397	3.940695045	
HOXC10	0.469235375	0.002761397	3.940718539	
CPLP	0.469222251	0.002761397	3.940577204	
PDE6G	0.469214898	0.002761397	3.940498023	
SLC6A11	0.469173302	0.002762087	3.940050087	
SPTB	0.46917574	0.002762087	3.940076339	yes
HIPK3	-0.469137432	0.002763889	-3.939663845	yes
HBM	0.469086068	0.00276719	3.939110814	
TUSC5	0.468938569	0.002779816	3.937522972	
LOC151174	0.468885224	0.002779938	3.936948819	
OR2A2	0.468905833	0.002779938	3.937170625	
C2orf16	0.468868596	0.002779938	3.936769863	
ARTN	0.468899468	0.002779938	3.937102125	
SCAF1	0.468827817	0.002782233	3.936331003	
MAGEB6B	0.468704572	0.002792556	3.935004851	
IGFL3	0.468669113	0.002794342	3.934623358	
LCE1D	0.46861092	0.002795007	3.933997323	
C5orf46	0.468614974	0.002795007	3.93404093	
SYCE1	0.468644378	0.002795007	3.934357251	
PON2	-0.468539078	0.002800349	-3.933224555	
SUPT7L	-0.468514746	0.002801056	-3.932962839	
NPAS1	0.46846051	0.002804466	3.932379544	
RGS7	0.468445688	0.002804466	3.932220137	
C19orf34	0.468338611	0.002811607	3.931068738	
C15orf59	0.46834747	0.002811607	3.931163997	
KPNA6	-0.468289176	0.002814782	-3.930537241	

TESSP5	0.4682329	0.002818484	3.929932247	
CXorf25	0.468217376	0.002818484	3.929765363	
GLT6D1	0.468191004	0.002819401	3.929481877	
LBX1	0.468142972	0.002820934	3.928965595	
ELFN1	0.468103025	0.002820934	3.92853626	
FBXO34	-0.468114328	0.002820934	-3.928657737	
UBC	-0.468122905	0.002820934	-3.928749914	
ZNF607	-0.468090366	0.002820934	-3.928400203	yes
FAM55D	0.468067402	0.002821522	3.928153409	
IL1F5	0.46801401	0.002825103	3.927579647	
BIRC8	0.467987147	0.002826077	3.927290993	
COL13A1	0.467951862	0.002827881	3.926911856	
ZFR2	0.467904075	0.002829941	3.926398435	
TSPAN31	-0.467897061	0.002829941	-3.926323079	
APOA4	0.467799397	0.002837905	3.925273918	
ARX	0.467719683	0.002844113	3.924417728	
CHRNA3	0.467594837	0.002846478	3.923077029	
NCRNA00085	0.467615856	0.002846478	3.923302721	
AANAT	0.467636006	0.002846478	3.923519103	
SPERT	0.467594399	0.002846478	3.923072325	
KRTDAP	0.467610136	0.002846478	3.923241302	
TSHB	0.467648367	0.002846478	3.923651843	
CEND1	0.467549879	0.002849217	3.922594304	
PAH	0.467511672	0.002850981	3.922184097	
RALGPS2	-0.467498368	0.002850981	-3.922041263	yes
HIVEP2	-0.467472034	0.002851922	-3.921758554	
NCOA3	-0.467440842	0.002853347	-3.921423707	
CCT6A	-0.467408757	0.002854861	-3.921079297	
HOXB5	0.467341539	0.002859866	3.920357825	
TTBK1	0.467291068	0.002863214	3.919816159	
SLC22A8	0.467271334	0.002863505	3.919604375	
C9orf66	0.467240046	0.002864947	3.919268622	
ZNF746	0.467188941	0.002867982	3.918720251	

SOCS1	0.467176006	0.002867982	3.918581465	
PRLHR	0.467159223	0.002867983	3.918401385	
BMP8B	0.467140781	0.002868151	3.918203527	
P2RX2	0.467086949	0.002871847	3.917625995	
LIN37	0.467047232	0.002874139	3.917199935	
OR52W1	0.467000092	0.002877174	3.916694272	
UNQ6493	0.46690469	0.002885042	3.915671065	
ZNF835	0.466842385	0.00288961	3.915002915	
FIGNL2	0.466779663	0.002894226	3.914330384	
GAL	0.466725243	0.002898014	3.913746921	
HSPA8	-0.466669784	0.002900232	-3.91315238	
RNASE13	0.466677929	0.002900232	3.913239689	
KSR2	0.466498439	0.002915827	3.911315864	
FGF3	0.466424579	0.002919922	3.910524392	
SMAD6	0.466427261	0.002919922	3.910553134	
LRRC52	0.466389011	0.002920148	3.910143289	
GPR158	0.466399099	0.002920148	3.910251381	
MATN4	0.466307834	0.002926683	3.909273581	
MBOAT1	-0.466261618	0.002929682	-3.908778502	
R3HDML	0.466216456	0.002932578	3.908294745	
OR7C2	0.466162873	0.002936333	3.907720836	
PAX2	0.46607289	0.0029438	3.906757177	
HTR5A	0.466030597	0.002945605	3.906304311	
NGF	0.466021942	0.002945605	3.906211633	
KIAA0644	0.466003021	0.002945841	3.906009045	
ATPGD1	0.465922498	0.002952366	3.905146939	
EBI3	0.465800974	0.002957219	3.9038461	
PSMB11	0.465856526	0.002957219	3.904440712	
OPLAH	0.46582437	0.002957219	3.904096521	
DBX2	0.465788825	0.002957219	3.903716069	
NFE2L2	-0.465775583	0.002957219	-3.903574341	
ABCD3	-0.465822352	0.002957219	-3.904074917	
POLR1C	-0.465747281	0.002958422	-3.903271437	yes

LOC100131017	0.465675194	0.002960733	3.902500001	
EPHA8	0.465637311	0.002960733	3.902094635	
DNMBP	-0.46563181	0.002960733	-3.902035769	
GABRP	-0.465636794	0.002960733	-3.902089102	
GTPBP8	-0.46562561	0.002960733	-3.901969436	
WDR86	0.465648008	0.002960733	3.902209097	
ARL6IP1	-0.465591539	0.002962014	-3.901604887	
ITGAD	0.465580135	0.002962014	3.901482879	
ANK1	0.465468186	0.002970579	3.900285252	
RTN4RL2	0.465463659	0.002970579	3.900236834	
PLD4	0.465424003	0.002972961	3.899812653	
GPR144	0.465355386	0.002976633	3.899078775	
PRKAR2A	-0.465365497	0.002976633	-3.89918691	yes
Magmas	0.465320769	0.002978503	3.898708564	
SFTPC	0.4653036	0.00297858	3.898524959	
TRIM17	0.465247349	0.00298268	3.897923461	
LOC55908	0.465199709	0.002985898	3.897414075	
SLC36A2	0.465141168	0.002989211	3.896788203	
MYH7	0.465118402	0.002989211	3.896544828	
TREML2	0.465126037	0.002989211	3.896626449	
NCOA2	-0.465022086	0.002994084	-3.895515283	
SIVA1	0.465038861	0.002994084	3.895694577	
SLC34A1	0.465024382	0.002994084	3.895539818	
SMTNL2	0.464964769	0.002996628	3.894902685	
DBNDD1	0.464978377	0.002996628	3.895048123	
LYZL4	0.464917934	0.002999782	3.894402164	
CSDC2	0.464844066	0.003005741	3.893612841	
FABP1	0.464803873	0.003008216	3.893183395	
SYCN	0.464786818	0.003008292	3.893001175	
CLEC4G	0.464600704	0.003022553	3.891013079	
ARRDC4	-0.464618285	0.003022553	-3.891200857	
MCART1	0.464613838	0.003022553	3.891153358	
FAM109A	0.46451096	0.003025628	3.890054658	

GSX2	0.464545637	0.003025628	3.890424975	
ABCD1	0.464466039	0.003025628	3.889574985	
GK2	0.464465908	0.003025628	3.889573585	
NDUFS2	-0.464409721	0.003025628	-3.888973665	
TBC1D7	-0.464480002	0.003025628	-3.889724086	
RGMA	0.464424141	0.003025628	3.889127624	
RFX4	0.464408602	0.003025628	3.888961721	
C3orf51	0.464504815	0.003025628	3.88998904	
OLFM2	0.464440493	0.003025628	3.889302215	
RCVRN	0.464334352	0.003031682	3.888169022	
UTP6	-0.464301642	0.003031713	-3.887819839	
GSG1	0.464304957	0.003031713	3.887855226	
GAS2L1	0.464271156	0.003033205	3.887494421	
PDE4C	0.464221367	0.003035026	3.886962991	
SAT1	-0.464235378	0.003035026	-3.887112536	yes
DNMT3L	0.464190284	0.003036584	3.886631249	
YTHDF3	-0.464135312	0.003039617	-3.886044583	
OPRK1	0.464128964	0.003039617	3.885976842	yes
SGCZ	0.464025966	0.003043917	3.884877806	
F12	0.464057566	0.003043917	3.885214968	
GRIN2A	0.464023333	0.003043917	3.884849719	
KCNJ13	0.464043836	0.003043917	3.885068474	
SNORD115-38	0.463973588	0.003045748	3.884318992	
JMJD2C	-0.463961063	0.003045748	-3.884185364	
TOMM20	-0.463957525	0.003045748	-3.884147627	
MAST1	0.463924201	0.003045868	3.883792123	
CRLF1	0.463924669	0.003045868	3.883797119	
ZP2	0.463903907	0.00304631	3.883575648	
MYO15A	0.463847181	0.003048888	3.882970576	
PITX3	0.463860778	0.003048888	3.883115597	
PAGE4	0.463828106	0.003049204	3.882767118	
SNORD116-14	0.463768021	0.003053825	3.882126308	
KNCN	0.463682193	0.003058122	3.881211052	

MYRIP	0.463679007	0.003058122	3.881177076	
MTRFR1	-0.463697286	0.003058122	-3.881371997	
PIGC	-0.463662778	0.003058145	-3.881004037	
RAB11A	-0.463625492	0.003060381	-3.880606482	yes
SLC26A3	0.463577622	0.003062051	3.880096121	yes
NTSR1	0.463583687	0.003062051	3.880160782	
FRK	-0.463525421	0.003065862	-3.879539631	yes
LIMS2	0.463437293	0.003071783	3.878600263	yes
TMEM62	-0.463451011	0.003071783	-3.878746477	
OR51M1	0.463409177	0.003072425	3.878300596	
TTC17	-0.463399283	0.003072425	-3.878195148	
WDR88	0.463307803	0.003078922	3.877220266	
HOXD9	0.463288805	0.003078922	3.877017838	
C7orf36	-0.463273978	0.003078922	-3.876859843	
BIRC7	0.463298435	0.003078922	3.877120444	
CABP7	0.463220536	0.00308289	3.876290435	
ALOX15B	0.46318115	0.003083689	3.875870817	
PEX13	-0.46318169	0.003083689	-3.875876571	yes
GJD2	0.463139275	0.003084796	3.875424723	
PURB	-0.463138899	0.003084796	-3.875420714	
TTC36	0.462960507	0.003099972	3.873520654	
SFT2D2	-0.462934662	0.003099972	-3.873245429	
WIPF3	0.462932309	0.003099972	3.873220372	
SLC10A1	0.462947925	0.003099972	3.87338667	
PPID	-0.462798261	0.003112557	-3.871793093	
KIAA0776	-0.462689377	0.003120799	-3.870633989	
TAC3	0.46269326	0.003120799	3.87067532	
GPR78	0.46260715	0.003122995	3.869758809	
CHMP5	-0.462631377	0.003122995	-3.870016657	yes
SAG	0.462605499	0.003122995	3.869741236	
NR2E1	0.462618115	0.003122995	3.869875512	
TRIM10	0.462545337	0.003127742	3.869100987	
PNCK	0.462461847	0.003130206	3.868212595	yes

CLUL1	0.462495915	0.003130206	3.86857508	
LCE3A	0.462484161	0.003130206	3.868450021	
HHIPL1	0.462459135	0.003130206	3.868183731	
SLC22A10	0.462394327	0.003133846	3.867494221	
OR10J3	0.462393631	0.003133846	3.867486817	
FAT3	0.462330597	0.00313567	3.866816254	
GPR114	0.462344132	0.00313567	3.866960239	
NDFIP2	-0.46232934	0.00313567	-3.866802887	
SYPL2	0.462305545	0.003135981	3.866549772	
TAF2	-0.462294957	0.003135981	-3.866437146	
SLC25A13	-0.462234862	0.003138131	-3.865797959	
ADAD2	0.462227756	0.003138131	3.865722384	yes
EPR1	0.462257523	0.003138131	3.866038979	
RAB9P1	0.462210394	0.003138309	3.865537734	
C12orf42	0.462192039	0.003138594	3.86534253	
TCERG1L	0.462166304	0.003139672	3.865068842	
ZPLD1	0.462096757	0.003145462	3.864329299	
HRH3	0.462059893	0.003147741	3.863937329	
DCST1	0.461958715	0.00315189	3.862861655	
DLX3	0.461983808	0.00315189	3.863128417	
TMCO1	-0.461973218	0.00315189	-3.863015831	
CCDC102A	0.461978546	0.00315189	3.86307247	
CAPRIN1	-0.461926921	0.00315363	-3.862523675	
GCKR	0.461888493	0.003156088	3.862115208	
OR52J3	0.461823807	0.003160362	3.861427676	
KLF9	0.461817635	0.003160362	3.861362082	
PBRM1	-0.4617929	0.003161346	-3.861099207	yes
PKD1L1	0.461726151	0.003165186	3.860389881	
DKK2	0.461726554	0.003165186	3.860394159	
FCER2	0.461688788	0.003165854	3.859992862	
LOC728613	0.461692295	0.003165854	3.860030127	
GNMT	0.461671683	0.003166018	3.859811123	
CTNND1	-0.461598342	0.003166167	-3.859031909	

C1orf43	-0.461634116	0.003166167	-3.859411976	
OR11L1	0.461647212	0.003166167	3.859551116	
RNF222	0.461612065	0.003166167	3.859177705	
LENG9	0.461592502	0.003166167	3.858969868	
LOC100130274	0.461541011	0.003170056	3.858422874	
ABCC13	0.461506172	0.003170465	3.858052793	
CLIP3	0.461510301	0.003170465	3.858096656	
SNORD32B	0.461471565	0.003172532	3.857685211	
DIO3	0.461415268	0.003173529	3.857087286	
C17orf60	0.461400353	0.003173529	3.856928881	
UEVLD	-0.46143314	0.003173529	-3.857277097	
KLHL1	0.461406605	0.003173529	3.856995281	
LOC100131138	0.461334707	0.003178546	3.856231752	
NTNG1	0.461296658	0.003178546	3.855827735	
C1orf62	0.461315516	0.003178546	3.856027972	
FAM19A5	0.461276718	0.003178546	3.855616005	
SPEM1	0.461278379	0.003178546	3.855633647	
MYO6	-0.461244267	0.00318039	-3.855271458	yes
LOC392364	0.461189215	0.003182279	3.854686994	
PITX2	0.461187373	0.003182279	3.854667441	
ZNF703	0.461180554	0.003182279	3.854595046	
GOLT1A	0.461120597	0.003187116	3.853958574	
LOC340602	0.461089031	0.003187933	3.853623521	
C14orf56	0.461082259	0.003187933	3.853551639	
ZC3H12D	0.461007846	0.003194353	3.852761863	
SNORD116-11	0.460978416	0.003195776	3.852449531	
GSK3B	-0.460935622	0.003195776	-3.851995408	yes
GTF2A2	-0.460956942	0.003195776	-3.852221651	
RFT1	-0.460933245	0.003195776	-3.851970185	
COL8A2	0.460840439	0.00320422	3.850985469	yes
ADA	0.460616161	0.003210698	3.848606425	
CSMD2	0.460640289	0.003210698	3.84886232	
TNPO3	-0.4606461	0.003210698	-3.848923944	

CNTN6	0.460590345	0.003210698	3.84833264	
HAL	0.46058526	0.003210698	3.84827871	
ETV3L	0.460617658	0.003210698	3.848622302	
CYP26B1	0.460581967	0.003210698	3.848243786	
NRIP3	0.460661353	0.003210698	3.849085728	
SCN1B	0.46067982	0.003210698	3.849281591	
ZFYVE20	-0.460759083	0.003210698	-3.850122366	
BST1	0.46059306	0.003210698	3.848361431	
CALCR	0.46067259	0.003210698	3.849204909	
BEX2	0.460734528	0.003210698	3.849861896	
ANKRD2	0.460530875	0.00321455	3.847701987	
FGF21	0.460516203	0.00321455	3.847546418	
RNF151	0.460498545	0.003214813	3.847359174	
NOX3	0.460468875	0.003216391	3.847044591	
ZNF488	0.460381316	0.00321764	3.846116291	
ZNF285B	0.460383473	0.00321764	3.846139158	
HSPB2	0.46038918	0.00321764	3.846199665	
GOPC	-0.460441307	0.00321764	-3.846752292	
TCP1	-0.460388602	0.00321764	-3.846193528	
MAPK11	0.460344762	0.003219977	3.845728791	yes
CCDC87	0.460327557	0.003220196	3.84554641	
KLRG2	0.460307229	0.003220758	3.845330938	
TRIML2	0.460271147	0.003223048	3.844948491	
UBE2L3	-0.460253829	0.003223282	-3.844764935	
HCRT	0.460220891	0.003225229	3.844415848	
SPATA16	0.460203954	0.003225423	3.844236345	
C19orf36	0.460165482	0.003226318	3.843828642	
CACNG5	0.460178956	0.003226318	3.843971435	
C9orf170	0.460102327	0.003231587	3.843159424	
CHRD12	0.460052132	0.003232113	3.842627576	
TDP1	-0.460059391	0.003232113	-3.842704494	yes
TPO	0.460066248	0.003232113	3.842777147	yes
ACBD6	-0.460010957	0.003234976	-3.842191351	

OCLN	-0.459983751	0.003236305	-3.841903127	
SIRPD	0.459960197	0.003237234	3.841653604	
CRHBP	0.459858402	0.003241555	3.840575362	yes
GLTSCR1	0.459881938	0.003241555	3.840824648	
ATIC	-0.459845476	0.003241555	-3.840438453	
ADCY10	0.459863968	0.003241555	3.840634309	
ANGEL2	-0.459883078	0.003241555	-3.840836715	
BSND	0.459813538	0.003243413	3.840100205	
LRRN2	0.45969049	0.003254639	3.838797195	
RAB41	0.459681657	0.003254639	3.838703673	
LMTK3	0.459626976	0.00325902	3.83812473	
OR2L2	0.459529623	0.003266468	3.837094132	
SLC6A5	0.459536274	0.003266468	3.837164528	
PRSS23	-0.459494205	0.003267061	-3.836719225	
RPS6KA3	-0.45950556	0.003267061	-3.836839419	
SYNGR4	0.45939295	0.003274963	3.835647573	
DLK1	0.459406427	0.003274963	3.835790202	
PSD3	-0.459360691	0.003276879	-3.835306193	yes
ATP7A	-0.459323427	0.003279287	-3.834911869	
LOC728285	0.459309017	0.003279287	3.834759388	
EIF4E1B	0.459270983	0.003280182	3.834356959	
KCNC1	0.459278602	0.003280182	3.834437568	
PTGES3	-0.459211724	0.00328511	-3.833729997	
DBH	0.459121528	0.003290156	3.832775847	
FAM177A1	-0.459128761	0.003290156	-3.83285236	
FAM151A	0.459151116	0.003290156	3.83308883	
CD1B	0.459102708	0.003290587	3.832576778	
IRG1	0.45907052	0.003292509	3.832236323	
RLBP1L2	0.459004775	0.003294845	3.83154099	
DGCR5	0.459023614	0.003294845	3.831740226	
GAL3ST1	0.45900647	0.003294845	3.831558909	
TTC39B	-0.458899858	0.003303234	-3.830431528	yes
RPGRI1	0.458909233	0.003303234	3.830530657	

ART5	0.458877122	0.003304109	3.830191126	
MYT1L	0.458820228	0.003306696	3.829589596	
LYPD5	0.458818812	0.003306696	3.829574633	
SLC28A2	0.458809305	0.003306696	3.829474123	
LOC407835	0.45873686	0.003311476	3.828708283	
ARSF	0.458737898	0.003311476	3.82871925	
KCNK13	0.458702949	0.00331361	3.828349826	
DGUOK	-0.45858565	0.003325116	-3.827110097	
BEND6	0.458560359	0.003326289	3.826842829	
WIF1	0.458510325	0.003330249	3.826314123	
MAP3K2	-0.458494185	0.003330393	-3.826143578	
WDR42B	0.45847261	0.003331151	3.825915623	
NXPH1	0.458451555	0.00333185	3.825693163	
TLL2	0.458407016	0.003335199	3.825222605	
OR6S1	0.458343147	0.003340564	3.82454789	
LHFPL4	0.45832982	0.003340564	3.824407108	
LRRC9	0.458271968	0.003343963	3.823796038	
MAPK9	-0.458270098	0.003343963	-3.823776286	
ACCN5	0.45823672	0.003346063	3.823423754	
FAM59B	0.458140625	0.003355267	3.822408938	
RGS20	0.458034554	0.003365629	3.821288962	
GABRR1	0.457943718	0.003373363	3.82033001	
HMHB1	0.45791702	0.003373363	3.820048192	
HIST1H4J	0.457926223	0.003373363	3.820145335	
LATS1	-0.457907437	0.003373363	-3.819947039	
CHRM2	0.457869013	0.003376058	3.819541472	
DCTN5	-0.457828309	0.003379015	-3.819111868	
STAM2	-0.457775052	0.003381829	-3.818549815	yes
POU2F3	0.457759377	0.003381829	3.818384399	
GTF2I	-0.4577668	0.003381829	-3.818462728	
MAMDC4	0.457695899	0.003384235	3.817714574	
FBRSL1	0.457723369	0.003384235	3.818004428	yes
CBFB	-0.457694088	0.003384235	-3.817695464	yes

SPANXN5	0.457646271	0.003386333	3.817190944	
CLINT1	-0.457650114	0.003386333	-3.817231492	
GRB14	0.457616179	0.003388091	3.81687346	
C3orf38	-0.457570364	0.003391648	-3.816390127	
RAMP1	0.457509134	0.00339599	3.815744225	yes
LOC100133410	0.45750303	0.00339599	3.815679847	
DAAM1	-0.457427266	0.003402991	-3.814880736	
NLK	-0.457366144	0.003406879	-3.814236134	
BARX1	0.457364036	0.003406879	3.81421391	
USP9X	-0.457344982	0.003407382	-3.814012982	
CYB5R4	-0.457319111	0.003408669	-3.813740167	
CD300C	0.457270585	0.003408922	3.813228503	
RPRD2	-0.457279005	0.003408922	-3.813317283	
EMILIN2	0.457272221	0.003408922	3.813245755	
NUP210L	0.457258298	0.003408922	3.81309895	yes
C15orf17	-0.457197933	0.003414178	-3.812462521	
TMEM184C	-0.457183206	0.003414189	-3.812307264	
MEX3B	0.457051253	0.003427709	3.810916358	
TMCC1	-0.457026904	0.003428832	-3.81065973	
CSNK1A1	-0.456940198	0.003437165	-3.80974597	yes
MEFV	0.456916038	0.00343827	3.809491389	
SERPINA5	0.456892491	0.003439304	3.809243273	
WFDC9	0.456875465	0.003439585	3.809063878	
SLC9A8	-0.456856396	0.003440103	-3.80886295	
C9orf50	0.456839829	0.003440332	3.808688406	
RPL13AP17	0.456808844	0.003442232	3.808361956	
LOC100129581	0.456791683	0.003442248	3.808181161	
TPPP2	0.45670512	0.003442248	3.807269287	
DPCR1	0.456619525	0.003442248	3.806367745	
EEF1B2	0.456686443	0.003442248	3.807072564	
LRIT1	0.456628812	0.003442248	3.806465553	
GATA4	0.456605329	0.003442248	3.806218235	
OR2T1	0.456676396	0.003442248	3.806966736	

OR10G7	0.456653287	0.003442248	3.806723338	
OR1K1	0.456710764	0.003442248	3.807328741	
CITED1	0.456649452	0.003442248	3.806682946	
SEP2	-0.45674649	0.003442248	-3.80770507	
ATP1B1	-0.456720677	0.003442248	-3.807433162	
SCTR	0.456605211	0.003442248	3.806216991	
ZNF205	0.456636391	0.003442248	3.806545376	
RABGAP1L	-0.45657641	0.003443906	-3.805913679	
PYDC1	0.456515275	0.003447634	3.805269893	
PDCD5	0.456519581	0.003447634	3.805315241	
NRXN2	0.456499583	0.003447776	3.805104659	
CTSC	-0.45641888	0.00345043	-3.804254941	
UROC1	0.456425551	0.00345043	3.804325178	
GCNT7	0.45643734	0.00345043	3.804449295	
OR52B6	0.456422731	0.00345043	3.804295491	
NBPF7	0.456388864	0.003450562	3.803938936	
SRI	-0.456400825	0.003450562	-3.804064861	yes
NEU4	0.456341734	0.003454357	3.803442787	
OR7A10	0.45632327	0.003454434	3.803248423	
SSTR3	0.456312234	0.003454434	3.803132254	
KCNJ9	0.456289027	0.003455456	3.80288797	
UBXN2B	-0.456258911	0.003455608	-3.802570987	
THUMPD3	-0.456263927	0.003455608	-3.802623778	
ZIC1	0.456216664	0.003458844	3.80212634	
SNRPD1	-0.456168787	0.003461835	-3.801622473	
B3GNT5	-0.456162168	0.003461835	-3.801552815	yes
LOC100130518	0.456132666	0.003461923	3.801242357	yes
SLC6A17	0.45613443	0.003461923	3.801260927	yes
CRP	0.456117694	0.003461994	3.801084817	
CEACAM4	0.456089589	0.003463593	3.800789079	
NMNAT2	0.456063962	0.003464905	3.800519435	
FARS2	-0.45604021	0.003465098	-3.800269526	
DHDH	0.456032852	0.003465098	3.800192105	

SPINK2	0.456019294	0.003465098	3.800049458
MPP7	-0.455973823	0.003468205	-3.799571077
PRPSAP2	-0.455963953	0.003468205	-3.799467253
TM6SF2	0.455920209	0.003471633	3.799007086
COCH	0.455884263	0.003474154	3.798628976
MSX1	0.455859377	0.003475388	3.798367219
SP1	-0.455824274	0.003477816	-3.797998005
SPTLC1	-0.455775903	0.003481048	-3.797489297
UBTD1	0.455768009	0.003481048	3.797406281
XKR3	0.455701372	0.003487166	3.796705533
FLJ45455	0.455654371	0.003489325	3.796211326
CAMK1	0.455655567	0.003489325	3.796224992
CDH10	0.455580339	0.003496273	3.795432983
ADAMTS16	0.455538019	0.003496273	3.794988088
RRAS2	0.455559442	0.003496273	3.795213298
WNK4	0.455545648	0.003496273	3.795068286
CDC2L5	-0.455516405	0.003497137	-3.794760885
PF4	0.455499784	0.003497416	3.794586165
WDR21C	0.45542465	0.003504562	3.793796448
REXO2	-0.455335318	0.003510468	-3.792857621
LOC391764	0.455331731	0.003510468	3.792819931
SNCG	0.455357797	0.003510468	3.793093853
HINT3	-0.455304223	0.003512032	-3.79253087
SNORA35	0.455275608	0.003513728	3.792230187
UBL3	-0.455237154	0.003516583	-3.791826145
DEFB125	0.455092378	0.003531993	3.79030521
CST7	0.455034462	0.003537166	3.789696886
OR13F1	0.454968731	0.003543272	3.78900654
SERPINA9	0.454928073	0.003545457	3.788579571
HAPLN2	0.454921943	0.003545457	3.788515198
RBPMS2	0.454870216	0.003549914	3.787972034
MYPOP	0.454803871	0.003556115	3.787275443
RP11-35N6.1	0.45478774	0.003556349	3.787106084

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SNRPE	-0.454764325	0.00355745	-3.786860261	
FLJ44054	0.454732023	0.00355961	3.786521161	
hCG_2004198	0.454687956	0.003563172	3.786058575	
C17orf74	0.45466877	0.003563773	3.785857187	
LRRN4	0.454653196	0.003563944	3.785693717	
C1orf177	0.454586444	0.003565166	3.784993115	
ALPI	0.454596288	0.003565166	3.785096426	
PDE6C	0.454594763	0.003565166	3.78508042	
USP38	-0.454628148	0.003565166	-3.785430813	yes
OBFC1	-0.454545343	0.003568384	-3.784561772	
CAMSAP1	-0.45453085	0.00356843	-3.784409678	
DNAJA2	-0.454477352	0.003568731	-3.783848301	
TMCO2	0.454486971	0.003568731	3.783949234	
TIGD3	0.454471974	0.003568731	3.78379187	
SNORD68	0.454492158	0.003568731	3.784003659	
PCDH15	0.454409279	0.003574533	3.783134041	
DEFB119	0.454380513	0.003575263	3.782832241	
OR5B12	0.454375032	0.003575263	3.78277474	
ZNF295	-0.454329061	0.003579076	-3.782292469	
IGHE	0.454314776	0.003579103	3.78214262	
UMPS	-0.454290134	0.00358037	-3.781884131	
SAC3D1	0.454250799	0.003583395	3.78147153	
C7orf31	0.454220356	0.003583679	3.781152216	
NBAS	-0.454227368	0.003583679	-3.781225769	
SYT2	0.454193869	0.00358517	3.780874417	
CAPN11	0.454161297	0.003585714	3.780532812	
APOC4	0.454174741	0.003585714	3.780673808	
UNQ6490	0.454119832	0.003589001	3.780097977	
GNB1	-0.454102644	0.003589383	-3.779917737	
SCARNA16	0.454084939	0.003589827	3.779732076	yes
ITIH1	0.454055475	0.003591681	3.779423123	
CAMK1G	0.453987798	0.003598121	3.778713541	
ELK1	0.45390481	0.003606413	3.77784354	

NEURL	0.453802296	0.003617078	3.776769	
ANXA1	-0.453774839	0.003617653	-3.776481237	
TMEM165	-0.453769574	0.003617653	-3.776426061	
BEND2	0.453613949	0.003627014	3.774795275	
C17orf77	0.45355658	0.003627014	3.77419422	
HFE2	0.453650144	0.003627014	3.775174521	
QRFP	0.453643766	0.003627014	3.775107695	
NRD1	-0.453612384	0.003627014	-3.774778884	
APTX	-0.453556718	0.003627014	-3.774195669	yes
SSBP1	-0.453552626	0.003627014	-3.774152798	
RIPK1	-0.453560187	0.003627014	-3.774232009	
CRADD	-0.453584467	0.003627014	-3.774486393	
UBE3B	-0.453569677	0.003627014	-3.774331437	
CALR3	0.453468237	0.00362795	3.773268772	
SIN3A	-0.453508711	0.00362795	-3.77369275	
LOC388906	0.453456665	0.00362795	3.773147555	
DHX32	-0.453433756	0.00362795	-3.772907599	yes
LMBR1	-0.453515268	0.00362795	-3.773761429	
BRSK1	0.453469745	0.00362795	3.773284564	
CLDN12	-0.453501112	0.00362795	-3.77361314	
GNG8	0.45344626	0.00362795	3.773038567	
GLRX3	-0.45337396	0.003633504	-3.772281307	
C15orf43	0.453344638	0.003635375	3.77197422	
OR10R2	0.453315169	0.003637266	3.771665602	
KCNH2	0.453167944	0.00365345	3.77012404	
BRWD3	-0.453141237	0.003655014	-3.769844432	
C1orf65	0.453098959	0.003658473	3.769401843	
CHRNE	0.453060681	0.003658797	3.769001145	
DRD5	0.45307092	0.003658797	3.769108331	
ATP8B1	-0.453049213	0.003658797	-3.768881107	
TM4SF4	0.453013347	0.003658797	3.768505696	
TP53I13	0.453015548	0.003658797	3.768528738	
EFTUD2	-0.453032502	0.003658797	-3.768706191	

CNOT7	-0.452893034	0.003670095	-3.76724654	yes
FOXL2	0.452896738	0.003670095	3.767285301	
UNQ5840	0.452724795	0.003677906	3.765486244	
NOTUM	0.452705096	0.003677906	3.765280158	
ATP8B3	0.452731376	0.003677906	3.765555082	
TSPAN15	-0.452806832	0.003677906	-3.766344533	
GHSR	0.452711745	0.003677906	3.765349712	
XKR7	0.452776564	0.003677906	3.766027844	
MAS1	0.452750699	0.003677906	3.765757242	
SULT1C3	0.452764599	0.003677906	3.765902666	
SCN4A	0.452761585	0.003677906	3.765871129	
OR56A4	0.452649207	0.003678525	3.764695515	
NRN1L	0.452668013	0.003678525	3.764892236	
BTBD7	-0.452633687	0.003678525	-3.764533182	
CSRP3	0.452631335	0.003678525	3.764508581	
PKD2L1	0.452664119	0.003678525	3.764851502	
FLJ25404	0.452617068	0.003678592	3.764359347	
GDF3	0.452568038	0.00368291	3.763846535	
HEATR5A	-0.452531362	0.003685721	-3.763462957	
JAKMIP1	0.452508182	0.003686881	3.763220544	
TIMM17A	-0.452473241	0.003689183	-3.762855153	
RARS2	-0.452448298	0.003689183	-3.76259432	
KRTAP17-1	0.452450917	0.003689183	3.762621706	
NUDCD2	-0.452415506	0.003691524	-3.762251436	
SLFN5	-0.452372766	0.00369341	-3.761804567	
ROBO4	0.452383317	0.00369341	3.761914883	yes
HDAC1	-0.452353245	0.003693868	-3.761600471	
MTMR3	-0.452341697	0.003693868	-3.761479739	
ZNF146	-0.452321024	0.003694729	-3.761263609	
SAMM50	-0.452269511	0.003697949	-3.760725098	
UBAP1	-0.452267474	0.003697949	-3.760703798	
IL3	0.452244791	0.003699059	3.760466686	
C20orf135	0.452155637	0.003701749	3.759534838	

SPACA4	0.452165534	0.003701749	3.75963827	
MEX3D	0.452113931	0.003701749	3.759098961	
LMX1B	0.452151941	0.003701749	3.759496204	
ATP4B	0.452177497	0.003701749	3.759763309	
C22orf26	0.452131446	0.003701749	3.759282005	
SAPS3	-0.452147151	0.003701749	-3.759446145	yes
TOX2	0.452124435	0.003701749	3.759208742	
GPR32	0.452063519	0.003706272	3.758572147	
CLDN24	0.452042713	0.00370716	3.75835473	
NXPH4	0.45199287	0.003707385	3.757833923	
LCN6	0.451989911	0.003707385	3.757803004	yes
SGMS1	-0.451983827	0.003707385	-3.757739434	
NRAP	0.451985021	0.003707385	3.757751908	
SLC17A6	0.451973012	0.003707385	3.757626433	
ZNF776	-0.451861405	0.003719456	-3.756460464	
OR4X1	0.45180761	0.003723317	3.755898528	
CHCHD9	0.451789449	0.003723317	3.755708835	
TBXA2R	0.451795332	0.003723317	3.755770284	
MIER3	-0.451715375	0.003730469	-3.754935192	
SNORA3	0.451704458	0.003730469	3.754821184	
FLJ46300	0.451679639	0.003731865	3.754561994	
ACCSL	0.451648161	0.003733077	3.754233278	
OR4P4	0.451642783	0.003733077	3.754177111	
RGS9BP	0.451627079	0.003733348	3.754013137	
SIGLEC7	0.451596585	0.003735449	3.753694726	
C10orf28	-0.45152997	0.003740352	-3.752999202	
GNRHR	0.451538053	0.003740352	3.753083596	
ELF1	-0.451484739	0.003742612	-3.752526997	yes
ABCC8	0.451487126	0.003742612	3.752551918	
BCL2L12	0.451439519	0.003746546	3.752054943	
ATP8A2	0.451415587	0.003747842	3.751805126	
LOC100131120	0.451376346	0.003749607	3.751395528	
METT10D	-0.451374412	0.003749607	-3.751375348	

TNKS	-0.451349275	0.003751056	-3.751112984	
SLC5A10	0.451285185	0.003754001	3.750444106	
WNT7A	0.451286243	0.003754001	3.750455151	
ZIC4	0.451295591	0.003754001	3.750552699	
RENBP	0.451257264	0.0037558	3.750152733	
PARD3	-0.451213054	0.003759625	-3.749691396	
ACTR6	-0.451189679	0.003760861	-3.749447487	
F10	0.451171649	0.003761433	3.749259365	
STXBP5	-0.451150436	0.003762402	-3.749038032	
SRCRB4D	0.451120929	0.003764404	3.748730171	
RTP1	0.451078906	0.003766296	3.748291765	
HAVCR1	0.45108469	0.003766296	3.748352102	
LOC100129648	0.451063801	0.003766507	3.74813419	
FLJ40125	0.450970276	0.003775679	3.747158606	
PSMA5	-0.45096344	0.003775679	-3.747087301	
SNX20	0.450917071	0.003779796	3.746603681	
HSD3B7	0.450899136	0.003780364	3.746416634	
TMEM82	0.450843986	0.003785585	3.745841493	
C4orf26	0.450790955	0.003788631	3.745288512	
OTOR	0.45078575	0.003788631	3.74523423	
C12orf30	-0.450779517	0.003788631	-3.745169239	
C2orf51	0.450736001	0.003792407	3.744715519	
CSHL1	0.450687134	0.003796857	3.74420604	
PRSS33	0.450624618	0.003801349	3.743554323	
C19orf40	0.450632718	0.003801349	3.743638765	
DPF3	0.450580939	0.003805158	3.743099016	yes
TSC22D4	0.450550116	0.003807355	3.742777746	
AGRP	0.450525596	0.00380876	3.742522181	
HHAT	-0.450476914	0.003813207	-3.742014814	
COPG2	-0.450403475	0.003820779	-3.741249501	
GZMH	0.450373972	0.003822819	3.740942078	
PHOSPHO1	0.450323676	0.00382642	3.740418028	
MRPS28	-0.450316475	0.00382642	-3.740342997	

HAND2	0.450305475	0.00382642	3.740228392	
FBXO28	-0.450260565	0.003830411	-3.739760517	yes
CEACAM3	0.450233305	0.003830494	3.739476527	
KLRAQ1	-0.450246411	0.003830494	-3.739613066	
FBXO40	0.450203034	0.00383162	3.739161195	
TNNT1	0.450197807	0.00383162	3.739106752	
ZNF737	-0.4501748	0.003831782	-3.738867093	
SLC46A2	0.450169963	0.003831782	3.738816711	
TAS2R39	0.450110509	0.003837621	3.73819746	
BAI1	0.450078507	0.003839992	3.737864157	
KRTAP6-1	0.450047123	0.003840607	3.737537313	
WDR87	0.450054875	0.003840607	3.737618049	
EFR3A	-0.450026842	0.003841496	-3.737326106	
RAB2B	-0.44998519	0.003845094	-3.736892372	yes
RPL37P23	0.449943053	0.003848757	3.736453624	
DCP1A	-0.449906277	0.003851742	-3.736070712	
UNQ5836	0.449740419	0.003856594	3.734344109	
C1orf216	0.449751074	0.003856594	3.734455015	
APBA2	0.449723306	0.003856594	3.734165987	
APOA1	0.449715815	0.003856594	3.734088023	
NDUFS1	-0.449723525	0.003856594	-3.734168266	
LOC100133422	-0.449755229	0.003856594	-3.734498264	yes
HES6	0.44974605	0.003856594	3.734402723	
TRIM54	0.44981248	0.003856594	3.735094214	yes
PTK2	-0.449777881	0.003856594	-3.734734051	
TACR3	0.449705081	0.003856594	3.733976298	
FBXL15	0.449820096	0.003856594	3.735173501	
NARG2	-0.449696364	0.003856594	-3.733885573	
HS3ST3A1	0.449717433	0.003856594	3.734104866	
GLOD4	-0.449678198	0.003857228	-3.733696504	
BCL2L10	0.449653225	0.003857797	3.733436608	
MARCH6	-0.449647391	0.003857797	-3.733375892	
UTP15	-0.449612471	0.003860562	-3.733012484	

SS18	-0.44957099	0.003864039	-3.732580841	yes
C1orf170	0.449558819	0.003864039	3.73245419	
FGF18	0.449541798	0.003864532	3.732277081	
ESR1	0.449478476	0.00387092	3.731618238	
SYN3	0.449438451	0.003872673	3.731201835	
TM4SF5	0.449441981	0.003872673	3.731238558	
OR1G1	0.449413751	0.003874148	3.730944874	
PAEP	0.44939698	0.003874613	3.730770415	
KLF1	0.449340955	0.003876858	3.730187637	
DDX5	-0.449341948	0.003876858	-3.730197959	
SHQ1	-0.449340045	0.003876858	-3.730178167	
NEFH	0.449322249	0.003877456	3.729993059	
ZNF500	0.44925143	0.003884824	3.729256499	
OR52R1	0.449188151	0.00389124	3.72859843	
AIRE	0.44915367	0.003893978	3.728239869	
ALG6	-0.449138383	0.003894259	-3.728080918	
RGS11	0.449100017	0.003897498	3.72768199	yes
EFHA1	-0.449069018	0.00389758	-3.72735969	
DUSP21	0.449081758	0.00389758	3.727492153	
ITFG1	-0.44906016	0.00389758	-3.727267604	
C17orf85	-0.449044759	0.003897879	-3.727107485	
SCAND3	0.449012149	0.003900385	3.726768463	
GRIN3A	0.448835045	0.003903438	3.724927591	
ADRA1D	0.448895849	0.003903438	3.725559544	
DICER1	-0.44882095	0.003903438	-3.724781104	
IRF2BP1	0.448883754	0.003903438	3.725433835	yes
HPN	0.448931495	0.003903438	3.725930053	
OR2A12	0.448904983	0.003903438	3.725654483	
KRTAP26-1	0.448826855	0.003903438	3.724842479	
SPRN	0.448954409	0.003903438	3.726168233	
FLJ40606	0.448819035	0.003903438	3.724761201	
SLC22A1	0.448829386	0.003903438	3.724868779	
hCG_1994895	0.448947036	0.003903438	3.726091597	

ZNF26	-0.448840171	0.003903438	-3.72498087	
UBE3C	-0.448912569	0.003903438	-3.725733331	
ADAMTSL2	0.448801806	0.003903982	3.724582152	
C3orf53	0.448764434	0.003903993	3.724193796	
RC3H2	-0.448762788	0.003903993	-3.72417669	
RAPSN	0.448763871	0.003903993	3.724187946	
SEMA4F	0.44862763	0.003918016	3.722772355	
FLJ45721	0.448629986	0.003918016	3.722796832	
DENND4A	-0.448542086	0.003918594	-3.721883696	
KRTAP13-1	0.448568389	0.003918594	3.722156929	
KIAA0907	-0.448583328	0.003918594	-3.722312113	
GRSF1	-0.448560764	0.003918594	-3.722077714	
SAMD7	0.448532511	0.003918594	3.721784237	
RNF111	-0.448553334	0.003918594	-3.722000538	
LPGAT1	-0.44855237	0.003918594	-3.721990524	
GUCA1A	0.448502419	0.003920801	3.721471658	yes
SUMO1P1	0.448453412	0.003923782	3.720962646	
LCMT2	-0.448459675	0.003923782	-3.721027702	
RP11-265F14.2	0.448427254	0.003925487	3.720690981	
KIAA1919	-0.448404048	0.003926813	-3.720449975	
GDF6	0.448343158	0.003932998	3.71981765	
NDUFB5	-0.448325236	0.003933645	-3.719631547	
PIF1	0.448289547	0.003934922	3.71926097	
GOSR1	-0.448289585	0.003934922	-3.719261361	
KIF12	0.448215379	0.003941604	3.718490918	
CALHM1	0.448199146	0.003941604	3.71832239	
TMEM59	-0.448204048	0.003941604	-3.718373283	
DAZL	0.448174765	0.003942433	3.71806928	
TMEM95	0.448166984	0.003942433	3.717988505	
SEMA3A	-0.448000878	0.00395062	-3.716264385	yes
ABCA13	-0.448048116	0.00395062	-3.716754651	
GPC5	0.448013721	0.00395062	3.716397676	
FASTKD2	-0.448050206	0.00395062	-3.716776344	

C6orf226	0.448032751	0.00395062	3.716595177	
MYT1	0.448010341	0.00395062	3.716362594	
ISY1	-0.448029847	0.00395062	-3.716565046	
LMBRD2	-0.44805695	0.00395062	-3.716846338	
GPR97	0.447986474	0.003950824	3.716114906	
NDST3	0.447959182	0.003952697	3.715831676	
LOC100133322	0.44789757	0.003959018	3.715192333	
GTF2H5	-0.447818384	0.003965967	-3.714370731	
ProSAPiP1	0.447823063	0.003965967	3.714419276	yes
NOL9	-0.447748245	0.003973411	-3.713643075	
RGS8	0.447735489	0.003973411	3.713510757	
LRFN4	0.447704548	0.003975771	3.713189792	
CPSF6	-0.447687038	0.003976011	-3.713008162	
TGM4	0.447664324	0.003976011	3.712772567	
TKTL2	0.447676928	0.003976011	3.712903298	
NINJ2	0.447650058	0.003976204	3.712624596	
NF-E4	0.447624781	0.003977831	3.712362431	
RBM27	-0.447607245	0.003978451	-3.712180554	
PRR19	0.447572529	0.003980175	3.711820512	
OR13G1	0.447568469	0.003980175	3.711778409	
DHRS2	0.447488451	0.003985247	3.710948629	
FMR1NB	0.447511429	0.003985247	3.711186899	
NTN3	0.447478522	0.003985247	3.710845669	
PPP4R1	-0.447489076	0.003985247	-3.710955108	yes
MYF6	0.44746413	0.003985462	3.710696445	
YTHDF1	-0.447438998	0.003987078	-3.710435859	
UNQ6126	0.447363297	0.003988654	3.709651009	
CCT5	-0.447370398	0.003988654	-3.709724633	
HEATR1	-0.447396689	0.003988654	-3.709997198	
RNF112	0.447396445	0.003988654	3.70999467	
RASAL2	-0.44738002	0.003988654	-3.709824386	
KCNG1	0.44729768	0.003991567	3.708970792	
SLURP1	0.447290779	0.003991567	3.708899255	

C2orf37	-0.447317494	0.003991567	-3.709176189	
GPR123	0.447290152	0.003991567	3.708892758	
ANKRD30B	0.447266986	0.003992934	3.708652629	
OR56B4	0.447242351	0.003994494	3.708397284	
SNORD116-15	0.447190649	0.003996278	3.707861419	
C8B	0.447192364	0.003996278	3.707879197	
CAPN2	-0.447211484	0.003996278	-3.708077363	
RPL30P8	0.447176598	0.003996459	3.707715796	
HMGCS1	-0.447124932	0.003999998	-3.707180363	
KLK15	0.447124183	0.003999998	3.707172599	
REG3G	0.447070143	0.004003219	3.706612619	
KLHL17	0.447036311	0.004003219	3.706262056	
LOC552889	-0.447065255	0.004003219	-3.706561965	yes
TCF15	0.447046595	0.004003219	3.706368614	
SYT3	0.447040151	0.004003219	3.706301845	
MRRF	-0.446994156	0.004007081	-3.705825291	
DHRS7C	0.446957207	0.004009739	3.705442491	
TTC9C	-0.446938497	0.004009739	-3.705248651	yes
ZNF668	0.446935972	0.004009739	3.705222493	
METRNL	0.44688281	0.004013398	3.704671783	
USP4	-0.446894806	0.004013398	-3.704796047	
MAPK8IP2	0.446860945	0.004013868	3.704445291	
ISL2	0.446854013	0.004013868	3.704373493	
TMEM160	0.446830964	0.004015237	3.704134751	
LOC401357	0.446805791	0.004016886	3.703874013	
PDE12	-0.446782216	0.004018327	-3.703629851	
ANKRD43	0.446718098	0.00402509	3.702965819	
HS3ST5	0.446690959	0.004027002	3.702684777	
LIM2	0.446660505	0.004029352	3.702369424	
NLRP4	0.446643911	0.00402988	3.702197592	
PKDREJ	0.446571158	0.004036396	3.701444309	
VEZT	-0.44656925	0.004036396	-3.701424555	
HMX2	0.446552436	0.004036955	3.701250483	

CRYGA	0.446491607	0.00404166	3.700620756	
LHB	0.446493781	0.00404166	3.700643258	
NME3	0.446451231	0.004043674	3.700202796	
PRSS7	0.446461408	0.004043674	3.700308147	
ATP2A2	-0.446410904	0.004047339	-3.699785376	
OR13A1	0.446385228	0.004049073	3.699519622	
MPN2	0.446365799	0.004049983	3.699318539	
OLIG3	0.446243939	0.004057811	3.698057442	
IL12RB1	0.446248007	0.004057811	3.698099537	
SERPINA2	0.446277042	0.004057811	3.698399991	
RBMS1	0.44624537	0.004057811	3.698072251	
OXNAD1	-0.446259379	0.004057811	-3.698217217	yes
C5orf43	-0.446181246	0.004064451	-3.697408757	
GLTPD2	0.446106446	0.004072707	3.696634879	
POLR1B	-0.446039095	0.004079988	-3.69593815	
GRID2	0.446015554	0.004081455	3.695694646	
LIME1	0.445975095	0.004083512	3.695276165	
CBFA2T3	0.445983537	0.004083512	3.695363485	
C3orf48	0.445931513	0.004087548	3.694825411	
VGf	0.445919775	0.004087548	3.694704015	
NCBP2	-0.445893022	0.004089447	-3.694427347	
LOC389151	0.445855658	0.00409183	3.694040959	
PSRC1	0.445850178	0.00409183	3.693984289	
CHRD	0.445679263	0.004112979	3.692217135	yes
HBS1L	-0.445525466	0.004123565	-3.690627406	
ACAP2	-0.445532023	0.004123565	-3.690695167	
GRID1	0.445556528	0.004123565	3.690948448	
CSNK1G1	-0.445534021	0.004123565	-3.69071582	
PEX19	-0.445547232	0.004123565	-3.690852362	
BRDT	0.445536465	0.004123565	3.690741078	
RLIM	-0.445478918	0.004128139	-3.690146341	
EPS8	-0.445447581	0.004130675	-3.689822499	yes
AMIGO3	0.445417745	0.004132764	3.689514179	

PTPN3	-0.445407156	0.004132764	-3.689404763	
CWF19L1	-0.44538758	0.004133724	-3.689202479	
C2orf57	0.445290128	0.004145161	3.688195607	
C14orf115	0.445235385	0.004150863	3.687630077	
PVALB	0.445194191	0.004153069	3.687204543	
SST	0.44520441	0.004153069	3.687310104	
LOC100131506	0.445162257	0.004154038	3.68687469	
SOCS7	0.445149948	0.004154038	3.686747548	
TAS2R38	0.445149791	0.004154038	3.686745926	
HCCS	-0.445116644	0.004156837	-3.686403575	yes
SHOX2	0.445100627	0.004157326	3.686238145	
C15orf55	0.445007607	0.004161527	3.685277513	
PPP1R14D	0.445010879	0.004161527	3.685311307	
DNAJC7	-0.445049508	0.004161527	-3.68571022	
U2AF1	-0.445034881	0.004161527	-3.685559159	
CAMK2D	-0.445015935	0.004161527	-3.685363515	
RPL36P8	0.444993215	0.0041618	3.685128902	
MRGPRG	0.444951933	0.004164297	3.684702634	
AVPR2	0.444950009	0.004164297	3.684682776	
TNFSF18	0.444932851	0.004164946	3.684505607	
CCDC54	0.444901026	0.004167579	3.684177024	
LOC100129395	0.444828454	0.004175458	3.683427803	
PLA2G4D	0.444818119	0.004175458	3.683321111	
TRIM13	-0.44479337	0.004177139	-3.68306563	
RAB28	-0.444762606	0.004179637	-3.682748072	yes
ABHD2	-0.444749701	0.004179714	-3.682614867	
MTX2	-0.444688687	0.004183767	-3.681985123	
COL22A1	0.444670525	0.004183767	3.681797679	
OR8J1	0.444681443	0.004183767	3.681910353	
PAGE5	0.444679104	0.004183767	3.681886222	
C1QTNF2	0.444642082	0.00418527	3.681504133	
MYOM3	0.444634822	0.00418527	3.681429217	
GPR1	0.444620499	0.004185467	3.681281406	

DPY30	-0.444608773	0.004185467	-3.681160397	yes
FBXO8	-0.444572572	0.004188712	-3.680786833	
FAM172A	-0.444540833	0.004191353	-3.680459335	
TMEM111	-0.444469585	0.004197698	-3.679724212	
SFRS3	-0.444476731	0.004197698	-3.679797939	
SERAC1	-0.444452381	0.004198368	-3.679546721	
C10orf129	0.444437921	0.004198665	3.67939754	
TTC27	-0.444415247	0.00420008	-3.679163632	
COL24A1	0.444376147	0.004202357	3.678760285	
PLEKHB2	-0.444373992	0.004202357	-3.678738052	
GTF2A1	-0.444320126	0.00420404	-3.678182423	
RHOA	-0.444312611	0.00420404	-3.678104917	
RSHL1	0.444335165	0.00420404	3.678337552	
ACTL8	0.444316091	0.00420404	3.678140803	
EZR	-0.444298256	0.004204328	-3.677956852	yes
ZAR1	0.444249055	0.004209364	3.677449406	
C19orf45	0.444148486	0.004221009	3.676412292	
TTY12	0.444139269	0.004221009	3.676317249	
B4GALNT1	0.444125977	0.004221154	3.676180191	
SNORA60	0.444096206	0.004223552	3.67587323	
NPPA	0.444081514	0.00422389	3.675721745	
NKD1	0.444067194	0.004224177	3.675574099	yes
TRIP12	-0.443989464	0.004233144	-3.67477274	
C14orf33	0.443879337	0.004234907	3.67363756	
MMP24	0.443850301	0.004234907	3.67333829	
TOR1AIP2	-0.44394705	0.004234907	-3.674335519	
EXTL1	0.443890881	0.004234907	3.673756544	
PIGN	-0.443830338	0.004234907	-3.673132554	
CSNK2A1P	-0.443867441	0.004234907	-3.673514954	
OR8S1	0.443934691	0.004234907	3.674208115	
TMED5	-0.443887678	0.004234907	-3.673723536	
ZNF593	0.443881019	0.004234907	3.673654901	
SNCB	0.443876247	0.004234907	3.673605709	

MADCAM1	0.443842016	0.004234907	3.673252911
BTAF1	-0.44383465	0.004234907	-3.673176986
FAM132A	0.443803325	0.004235276	3.67285416
SCN3B	0.443803944	0.004235276	3.67286054
SI	0.443756171	0.004240073	3.672368226
TMEM210	0.443739093	0.004240446	3.672192241
FLJ35024	0.44371702	0.004240446	3.671964785
PRM3	0.44372871	0.004240446	3.67208525
GNG3	0.443685469	0.004243108	3.671639685
LOC729756	0.443617156	0.004250822	3.670935851
TRIT1	-0.443590685	0.004252793	-3.670663137
CRX	0.443515719	0.004259769	3.669890892
CCNT2	-0.443523069	0.004259769	-3.669966602
STK38	-0.443452793	0.004265097	-3.669242734
PEX3	-0.443460352	0.004265097	-3.669320591
GTF2B	-0.443440398	0.004265136	-3.669115068
KRTAP5-11	0.443402431	0.004267032	3.668724047
PLS1	-0.443410088	0.004267032	-3.668802904
PEBP4	0.443333292	0.0042749	3.668012032
DRG1	-0.443317174	0.004275455	-3.667846058
RBM46	0.443258287	0.004281209	3.667239709
SLC22A11	0.443251347	0.004281209	3.667168252
TERT	0.443218352	0.0042841	3.666828528
C17orf88	0.44314523	0.004287533	3.66607574
NKX1-2	0.443158009	0.004287533	3.666207292
DPF1	0.443171729	0.004287533	3.66634853
ATG5	-0.443150845	0.004287533	-3.666133538
IFNW1	0.443116716	0.004288139	3.665782206
RPS4X	-0.44312097	0.004288139	-3.665825993
LYPD1	0.443020405	0.004288441	3.664790863
ITGA11	0.442969974	0.004288441	3.664271827
AOF2	-0.442995557	0.004288441	-3.66453512
KIAA0802	0.442958109	0.004288441	3.66414972

OSBPL3	-0.443014661	0.004288441	-3.664731738	yes
OR1C1	0.443080092	0.004288441	3.66540521	
CLEC4D	0.443085709	0.004288441	3.66546303	
KCNA6	0.443030745	0.004288441	3.664897283	
C1orf130	0.443075098	0.004288441	3.665353809	
PDGFB	0.442980321	0.004288441	3.664378321	yes
RHBDL2	-0.443048575	0.004288441	-3.665080807	
KAZALD1	0.442985021	0.004288441	3.664426689	
MYLK2	0.443026038	0.004288441	3.664848839	
C1QTNF6	0.442902144	0.004291203	3.6635738	
MYST3	-0.442923504	0.004291203	-3.663793609	
CD9	-0.442904723	0.004291203	-3.663600341	
SOX11	0.442846085	0.004297306	3.66299696	
LOC131055	0.442817219	0.004298303	3.662699959	
TFEB	0.442814919	0.004298303	3.662676287	
SNORA5B	0.442765258	0.004303528	3.662165354	
DGAT2	0.442746073	0.004304528	3.66196799	
SLC30A9	-0.442677771	0.004307214	-3.661265354	
CETP	0.442628691	0.004307214	3.660760517	
FTCD	0.4425833	0.004307214	3.660293656	
NKX2-6	0.442590439	0.004307214	3.660367082	
WFDC10A	0.442586338	0.004307214	3.660324901	
GNB1L	0.442688978	0.004307214	3.66138064	
PQLC2	0.44267303	0.004307214	3.661216592	
SNX14	-0.442625207	0.004307214	-3.660724681	
REL	-0.442599613	0.004307214	-3.660461435	
SLC4A3	0.442647204	0.004307214	3.660950935	
GCM2	0.442678281	0.004307214	3.661270603	
THRAP3	-0.442590629	0.004307214	-3.66036904	yes
ZNF460	-0.442555956	0.004308509	-3.660012435	
EPOR	0.442550122	0.004308509	3.659952436	
ZDHHC21	-0.442492206	0.004314899	-3.659356832	
ASPG	0.442475683	0.004315539	3.659186925	

IQCA1L	0.442455178	0.004316734	3.658976077	
ZNF564	-0.442437618	0.00431752	-3.658795516	
NPEPPS	-0.442400936	0.004320967	-3.65841835	
FXVD4	0.442353685	0.004325889	3.657932533	
LOC100132755	0.44231839	0.004327491	3.657569681	yes
GP9	0.442323675	0.004327491	3.657624016	
CIDEA	0.442270778	0.004329582	3.657080231	
CRYBA4	0.442250001	0.004329582	3.65686665	
FLJ38576	0.442243985	0.004329582	3.65680481	
FAM62C	0.442250091	0.004329582	3.656867583	
LIPF	0.442253708	0.004329582	3.656904761	
OR5D18	0.442218999	0.00433141	3.65654798	
C10orf76	-0.442203267	0.004331949	-3.656386283	
KRTAP10-7	0.442161189	0.004335086	3.655953801	
LOC441239	0.442122824	0.004335086	3.655559505	
SNORA51	0.442121502	0.004335086	3.655545924	
UMOD	0.442154357	0.004335086	3.655883583	
B4GALT4	-0.442139123	0.004335086	-3.655727021	
OR52N1	0.4421023	0.004336113	3.655348579	
TRAM1L1	0.442049685	0.004339872	3.654807898	yes
DRD4	0.442048618	0.004339872	3.654796934	
FLT3LG	0.442028035	0.004339872	3.654585426	
FAM166A	0.442028386	0.004339872	3.654589036	
RUFY1	-0.442004646	0.004341487	-3.654345099	
DAD1	-0.441944536	0.004344933	-3.653727491	
SNX13	-0.441960998	0.004344933	-3.653896629	
FUT4	0.441945384	0.004344933	3.653736203	
SC65	0.44190611	0.004345354	3.653332713	
DLEU7	0.441915733	0.004345354	3.653431576	
RPL7A	0.441920821	0.004345354	3.653483854	
ZNF696	0.441852743	0.004351166	3.652784479	
REXO1	0.441811469	0.004355292	3.652360509	yes
PPY	0.441792111	0.004356351	3.652161665	

KNG1	0.441751598	0.004357075	3.651745551	
PRMT8	0.44175621	0.004357075	3.651792917	
METRN	0.441755891	0.004357075	3.651789641	
BATF3	0.441728192	0.004358704	3.651505158	
HOXD10	0.441662442	0.004366271	3.65082992	
UBE2U	0.441644886	0.004367083	3.650649634	
IER5L	0.441607506	0.004370679	3.650265789	
STXBP5L	0.441595589	0.0043707	3.650143416	
SESTD1	-0.441578239	0.004371486	-3.649965269	
C10orf46	-0.441499392	0.004380916	-3.649155729	yes
ANKRD9	0.441474118	0.004382819	3.648896262	
SLC38A8	0.441450561	0.004384481	3.648654423	
CACNA2D2	0.441430978	0.004385585	3.648453399	
TXNDC3	0.441405126	0.004387572	3.64818802	
USP50	0.441389202	0.004388017	3.648024567	
MFSD1	-0.441378497	0.004388017	-3.64791468	
OTUD4	-0.4413487	0.004390563	-3.647608835	yes
SLC35D3	0.441273028	0.004397928	3.646832183	
PSD	0.441277017	0.004397928	3.64687313	
SLC17A2	0.441201192	0.00440642	3.646094996	
C9orf163	0.441173299	0.004408635	3.645808777	
ZSCAN4	0.441149731	0.004408635	3.645566951	
SLC35D1	-0.441152553	0.004408635	-3.645595912	
TNFRSF18	0.441138681	0.004408635	3.64545357	yes
OR6C4	0.44111775	0.00440994	3.645238813	
MCCC1	-0.441083749	0.004413096	-3.644889971	
IL17F	0.441046793	0.004416672	3.644510835	
RSAD1	0.441030117	0.004417378	3.644339755	
C5orf38	0.440987364	0.004421781	3.643901188	
CADPS	0.440966862	0.004423031	3.643690881	
C20orf199	-0.440929101	0.00442673	-3.643303564	
TMPRSS5	0.440890455	0.004430559	3.642907178	
LOC145814	0.440849173	0.004433987	3.642483797	

POU4F3	0.44084297	0.004433987	3.642420184	
ZNF747	0.440787658	0.004440193	3.641852959	
LOC100129476	0.440705075	0.004446969	3.641006166	
RC3H1	-0.440711194	0.004446969	-3.64107655	yes
MFN1	-0.440711156	0.004446969	-3.641068516	
MED1	-0.440652639	0.004452782	-3.640468551	
OR8K5	0.440619743	0.004455813	3.640131304	
CD164	-0.440486936	0.004473134	-3.638769955	
GRK1	0.440438675	0.004478379	3.638275318	
TSPAN16	0.440423054	0.004478949	3.638115224	
ABC7	-0.440390423	0.004481958	-3.637780818	
AGTR2	0.440339802	0.004485165	3.637262082	
HTR7	0.440333157	0.004485165	3.637193991	
LCN10	0.440340674	0.004485165	3.637271026	yes
HSPB9	0.440306871	0.004487269	3.636924646	
KCNG3	0.440192141	0.004500338	3.635749185	
COMMD4	0.440199448	0.004500338	3.63582404	
ABCC12	0.440181092	0.004500338	3.635635992	
PRDX3	-0.440073508	0.004514171	-3.634533966	
LOC388282	0.440042521	0.00451529	3.634216587	
PANK1	0.440048072	0.00451529	3.63427344	
APOF	0.439900611	0.004532453	3.632763313	
ITGA2B	0.439912184	0.004532453	3.632881812	
ODF3L1	0.439869117	0.004533653	3.632440829	
C3orf27	0.439875273	0.004533653	3.632503859	
GAS1	0.439845199	0.004535438	3.632195935	
WFDC11	0.439768844	0.004544832	3.631414212	
UTS2R	0.439668523	0.004553826	3.630387265	
SENP1	-0.439660585	0.004553826	-3.630306006	
LOC392288	0.439694595	0.004553826	3.630654129	
TRPV5	0.43967556	0.004553826	3.63045929	
C7orf44	-0.439633787	0.004556039	-3.630031721	
CDYL2	0.439560622	0.004565007	3.62928291	

NFX1	-0.439524348	0.004568608	-3.628911695	yes
PSMA4	-0.439482456	0.004573031	-3.628483015	
RPL23AP64	0.43941455	0.00458126	3.627788193	yes
EEF1A2	0.439380382	0.004582873	3.627438612	
C6orf223	0.439389568	0.004582873	3.6275326	
OFCC1	0.439356866	0.004584622	3.627198029	
TSPAN32	0.439322404	0.004587826	3.626845469	
MEIS3	0.439311853	0.004587826	3.626737539	
C16orf38	0.439251584	0.004594961	3.626121023	
IFI27L2	0.439222469	0.004597536	3.625823223	
NKAIN4	0.439160333	0.004599447	3.625187709	
CTNNA1	-0.439159564	0.004599447	-3.625179841	
ADRB1	0.4391449	0.004599447	3.62502987	
OR51V1	0.439180414	0.004599447	3.625393085	
CA10	0.439128688	0.004599447	3.624864072	
TAS1R1	0.439183278	0.004599447	3.625422378	
CUL2	-0.439132472	0.004599447	-3.624902771	
OR10K2	0.439104945	0.00460124	3.624621264	
SLMO2	-0.439092203	0.00460142	-3.624490968	yes
C1QL2	0.439061301	0.004604265	3.624174961	
ATOH1	0.439018001	0.004608933	3.62373221	
IGBP1	-0.439004975	0.004609156	-3.623599026	
AKAP4	0.43898078	0.004611021	3.623351644	
AGFG2	0.438955036	0.004613114	3.623088435	
ASZ1	0.438891878	0.00461913	3.622442755	
SPATA19	0.438882732	0.00461913	3.622349249	
WNT16	0.438879657	0.00461913	3.622317822	
CTSE	0.438867774	0.004619188	3.622196346	
C12orf53	0.438845785	0.004620735	3.621971572	
SLC22A13	0.438830985	0.004621223	3.621820284	
KCNS2	0.438787557	0.00462484	3.621376394	
PPP1R10	-0.438783477	0.00462484	-3.621334689	
SIX6	0.438767985	0.004625432	3.621176351	

DSCR9	0.438755351	0.004625605	3.621047223	
C5orf22	-0.438740131	0.004626158	-3.620891665	
MCM8	-0.438682927	0.004632902	-3.620307055	
GPR176	0.438652745	0.004635665	3.619998617	
TRAPPC2	-0.438631342	0.004637134	-3.619779917	
FABP7	0.438603966	0.004639249	3.619500175	
DPM3	0.438594121	0.004639249	3.619399587	
WFIKKN1	0.438544543	0.004639815	3.61889302	
DCX	0.438571603	0.004639815	3.619169504	
DLAT	-0.43855353	0.004639815	-3.618984849	yes
OR6C75	0.438560019	0.004639815	3.619051141	
LOC100130872	0.438469939	0.004641733	3.618130843	
MGC52282	0.438440237	0.004641733	3.617827424	
GLIS1	0.438460194	0.004641733	3.618031288	
WDR47	-0.438479736	0.004641733	-3.618230922	yes
MYBPH	0.438443725	0.004641733	3.61786305	
C20orf11	-0.438472952	0.004641733	-3.618161619	
MESP1	0.438497544	0.004641733	3.618412855	
SNX21	0.438499354	0.004641733	3.61843135	
EIF2C4	-0.438426737	0.004642044	-3.617689515	
ATAD1	-0.438396592	0.004644814	-3.617381594	
MARCKSL1	0.438374119	0.004646452	3.617152046	
SHISA4	0.43835958	0.004646918	3.617003541	
INPP5J	0.438347305	0.004647049	3.616878169	
COX15	-0.438303691	0.004650742	-3.616432719	
UNC5D	0.438282271	0.004650742	3.616213961	
KIAA1210	0.438292075	0.004650742	3.616314092	
SEC1	0.438276831	0.004650742	3.616158411	
ENSA	-0.438201843	0.00466016	-3.615392634	
HOXC11	0.438183667	0.004661169	3.615207041	
TFIP11	-0.438091645	0.004673136	-3.614267471	
FUSIP1	-0.438049325	0.004676048	-3.613835424	
ALOXE3	0.438057346	0.004676048	3.613917301	

GALK1	0.437986013	0.004680762	3.61318912	
MYH1	0.437983564	0.004680762	3.613164118	
KCNH7	0.438002265	0.004680762	3.613355018	
RCC1	0.43796807	0.004681379	3.613005962	
IHH	0.437924009	0.004686248	3.61255623	
AMHR2	0.437825939	0.004695961	3.611555338	
PPP1R14A	0.437824819	0.004695961	3.611543908	
NCR1	0.437834857	0.004695961	3.611646348	
MRPL54	0.437771485	0.004702024	3.610999661	
ANKRD28	-0.43769957	0.004702024	-3.610265863	
OSTF1	-0.437712659	0.004702024	-3.61039942	
ERAS	0.437741212	0.004702024	3.610690755	
HSBP1	-0.437729685	0.004702024	-3.610573135	yes
ARHGDIG	0.437698161	0.004702024	3.610251488	
ATP1A3	0.437693648	0.004702024	3.610205449	
TLCD2	0.437748149	0.004702024	3.61076154	
NPBWR2	0.437642211	0.004704681	3.609680661	
ENPP7	0.437619382	0.004704681	3.609447766	
KRTAP10-11	0.437663804	0.004704681	3.609900959	
C17orf75	-0.437628381	0.004704681	-3.609539568	yes
HTRA3	0.437639152	0.004704681	3.609649457	
SLCO4A1	0.437594721	0.004706679	3.609196184	yes
CRTAM	0.437477947	0.004722459	3.608005062	
OR4F15	0.437465799	0.00472259	3.60788116	
FBXL18	0.437451457	0.004723049	3.607734893	
LOC100128233	0.437410139	0.004727552	3.60731351	
KANK3	0.437291685	0.004740309	3.606105605	
SPDYE4	0.437291361	0.004740309	3.606102309	
PARD6A	0.43729547	0.004740309	3.606144201	
NRTN	0.43727374	0.004741264	3.605922645	yes
ANKLE1	0.437239628	0.004744701	3.605574844	
H2BFWT	0.437203183	0.004747267	3.605203292	
FUBP1	-0.43720006	0.004747267	-3.605171447	

CDK5R2	0.437185299	0.004747796	3.605020967	
KIAA1012	-0.43711657	0.004756453	-3.60432035	yes
TLR9	0.437063952	0.004757693	3.603784023	
TCL1A	0.43708853	0.004757693	3.604034537	
ACSBG2	0.437068298	0.004757693	3.603828317	
C19orf2	-0.43706339	0.004757693	-3.603778292	
CASP14	0.437051515	0.00475779	3.603657257	
RPS26P54	0.436992916	0.004764935	3.603060031	
RGSL1	0.436980377	0.004765134	3.602932249	
LOC100129455	0.436947636	0.004766689	3.60259859	
LOC154872	0.436958487	0.004766689	3.602709171	
TMPRSS9	0.436931447	0.00476744	3.602433615	
GPR25	0.436914698	0.004768277	3.602262944	
C2orf61	0.43686557	0.004774006	3.601762346	
CLDND2	0.436795682	0.004779493	3.601050286	
GHRL	0.436796399	0.004779493	3.601057591	
ZC3HAV1	-0.436809301	0.004779493	-3.601189037	
CISH	0.436721339	0.004786321	3.60029292	
C10orf27	0.43671701	0.004786321	3.600248824	
TESSP2	0.436732931	0.004786321	3.600411011	
ADSL	-0.436684401	0.004788707	-3.599916657	
APLP2	-0.436678893	0.004788707	-3.599860555	
CHGA	0.436665374	0.004789061	3.599722849	
DHRS9	-0.436564558	0.004801145	-3.598696033	yes
LHX9	0.436563381	0.004801145	3.598684042	
BAT2D1	-0.436532368	0.004804159	-3.598368206	
BFAR	-0.436490187	0.004808874	-3.597938669	
CLPS	0.436469986	0.004810248	3.597732964	
C20orf201	0.436456699	0.004810572	3.597597667	
DNAJB8	0.436422805	0.004814031	3.597252558	
CDH22	0.436386762	0.004816387	3.596885579	
NT5C1B	0.436385022	0.004816387	3.596867867	
COL9A2	0.43636629	0.004816394	3.596677148	

POM121L9P	0.436362681	0.004816394	3.596640407	
B3GNT9	0.436347778	0.004816967	3.596488681	
GREB1	0.436312441	0.004820653	3.596128938	
MC2R	0.436278301	0.004824159	3.5957814	
HACL1	-0.436219331	0.004829759	-3.59518115	
PIGW	-0.436228662	0.004829759	-3.595276124	
TFF2	0.436195944	0.00483163	3.594943106	
TMEM119	0.436154535	0.004833062	3.594521656	
TMEM151B	0.436153912	0.004833062	3.594515315	
EDA2R	0.436153199	0.004833062	3.594508061	
CALN1	0.436141101	0.004833213	3.594384932	
RBP3	0.436048086	0.004845734	3.593438373	
CDH23	0.435943552	0.004860052	3.592374746	yes
PSMD14	-0.435872278	0.004867633	-3.59164965	
AOC2	0.435871966	0.004867633	3.591646475	
AP2B1	-0.435847238	0.004869727	-3.59139493	
OR1N2	0.435807485	0.004870729	3.590990559	
OR4K13	0.43582605	0.004870729	3.5911794	
MRPL44	-0.435807425	0.004870729	-3.590989951	
HOXB4	0.435770592	0.00487372	3.590615307	
TSPAN6	-0.435754705	0.00487372	-3.590453718	
SART3	-0.43576482	0.00487372	-3.590556595	
MUC3A	0.435716243	0.004875438	3.590062532	
SPG21	-0.435728566	0.004875438	-3.590187865	
ARMC5	0.435710301	0.004875438	3.590002103	
KRT36	0.435675228	0.004879132	3.589645418	
MYH13	0.43564464	0.004882137	3.589334357	
GPR61	0.435604665	0.004886592	3.588927855	
GANC	-0.435554237	0.004887225	-3.588415102	
C21orf123	0.43554527	0.004887225	3.58832393	
ALLC	0.435567028	0.004887225	3.58854516	
GFI1B	0.435572765	0.004887225	3.588603491	
C4orf35	0.435581292	0.004887225	3.588690192	

OMA1	-0.435442286	0.004887295	-3.587276938	yes
DACT2	0.435423502	0.004887295	3.587085984	
EPHA6	0.435435106	0.004887295	3.587203944	
FLJ41327	0.435460164	0.004887295	3.58745868	
KCTD3	-0.435423653	0.004887295	-3.587087515	
EXD3	0.435513452	0.004887295	3.588000433	yes
PRPF40A	-0.435429265	0.004887295	-3.587144566	
RIN3	0.435489336	0.004887295	3.587755254	
TRIM46	0.435443438	0.004887295	3.58728865	
NKX6-2	0.435481069	0.004887295	3.587671212	
CABP1	0.435425673	0.004887295	3.587108051	
FAM113B	0.435374228	0.004893194	3.586585109	
ACTR10	-0.435359842	0.004893715	-3.586438882	
CRYAA	0.435334186	0.004895976	3.586178114	
KCNK18	0.43530947	0.004898093	3.585926901	
ZNF280A	0.435253163	0.004905091	3.585354653	
C2orf86	-0.435226816	0.004907464	-3.585086894	yes
NFYA	-0.435180252	0.004907869	-3.584613723	
RXFP3	0.435206286	0.004907869	3.584878267	
SON	-0.435200551	0.004907869	-3.584819988	
MINPP1	-0.435185506	0.004907869	-3.584667112	
TREML3	0.435160578	0.004909214	3.584413803	
SLC17A3	0.435107528	0.004914025	3.583874779	
SLC35A5	-0.435110324	0.004914025	-3.583903186	
RICS	-0.43504581	0.004921885	-3.583247743	yes
COX7B2	0.435011763	0.004925463	3.582901855	
MAGEA1	0.434986641	0.004927526	3.582646654	
TFR2	0.434976541	0.004927526	3.58254405	
SEMA6B	0.434950094	0.004929929	3.582275412	yes
ADAM30	0.4349374	0.004930198	3.58214647	
GPR85	0.434921109	0.004931027	3.581980995	
MGC33407	0.434883179	0.004935217	3.581595742	
ATP2B4	-0.434826094	0.004938985	-3.581015974	

MIB1	-0.434831698	0.004938985	-3.581072888	
LRTM2	0.434845514	0.004938985	3.5812132	
CASP6	-0.434801936	0.00494104	-3.580770641	
ANXA4	-0.43477508	0.004943516	-3.580497916	yes
ANKRD19	0.434761363	0.00494377	3.580358626	
TTC9B	0.434751588	0.00494377	3.580259363	
GJC3	0.434681952	0.00495291	3.579552283	
FNDC7	0.434661585	0.004954381	3.5793455	
C20orf118	0.434650256	0.004954445	3.579230472	
GPD1	0.434580846	0.004963567	3.578525807	yes
ZSCAN2	0.434537657	0.004968606	3.578087383	
CHIT1	0.434503874	0.00497218	3.577744463	
CLDN2	0.434486756	0.00497315	3.577570708	
EML4	-0.434449182	0.004973911	-3.577189337	
RFPL4B	0.434450462	0.004973911	3.577202327	
C15orf44	-0.434466986	0.004973911	-3.577370043	
DACH2	0.434426205	0.004974553	3.576956138	
CCDC140	0.434408504	0.004974553	3.57677649	
KCNG2	0.434406785	0.004974553	3.576759038	
CUL3	-0.434401505	0.004974553	-3.576705458	
ARFGEF2	-0.434360918	0.004979198	-3.576293558	
CCL7	0.434209076	0.00499788	3.574752843	
TNP2	0.434218473	0.00499788	3.574848185	
C20orf39	0.434221041	0.00499788	3.57487424	
CT47.13	0.434180852	0.005000604	3.5744665	
PKHD1	0.434156977	0.005002647	3.574224284	
COL4A3BP	-0.434082733	0.005012612	-3.573471144	
GALNTL2	0.434030523	0.005016532	3.572941576	
ZNF787	0.434025235	0.005016532	3.572887935	
BEAN	0.434041813	0.005016532	3.573056079	
PNMA2	0.433958778	0.00501755	3.572213925	
KLHDC7B	0.433974337	0.00501755	3.572371723	
DOK6	0.433947391	0.00501755	3.572098439	

PSME4	-0.433972559	0.00501755	-3.572353683	
TUBB2B	0.433919621	0.00501755	3.571816821	yes
C1orf187	0.433986434	0.00501755	3.572494408	
MARCH7	-0.433940913	0.00501755	-3.572032753	
SSTR2	0.433942117	0.00501755	3.572044957	
TNR	0.433926787	0.00501755	3.571889496	
ZNF207	-0.433910327	0.00501755	-3.571722573	
SORCS3	0.433858234	0.005022867	3.571194339	
AATK	0.433854923	0.005022867	3.571160765	
BEST1	0.433805956	0.005028882	3.57066426	
CHRNA2	0.433773314	0.005032326	3.570333316	
NAGS	0.433722083	0.005037227	3.569813921	
FOXA3	0.433709836	0.005037227	3.569689773	
ATP6V1D	-0.433712188	0.005037227	-3.569713613	
MARS2	-0.433675196	0.005040993	-3.569338615	
FGF6	0.433645946	0.005042202	3.569042122	
CORO6	0.433653228	0.005042202	3.56911593	
ZNF804B	0.433626674	0.005042286	3.568846774	
ZMYM2	-0.433613026	0.005042286	-3.568708438	
VANGL1	-0.433613319	0.005042286	-3.568711405	
GDAP1L1	0.433562788	0.005048526	3.568199244	
BAZ1A	-0.433527664	0.005051032	-3.567843273	yes
GNRH2	0.433525387	0.005051032	3.567820194	
KLF2	0.433495877	0.00505373	3.567521129	
PGRMC1	-0.433486793	0.00505373	-3.56742908	
FXSD7	0.433359328	0.005072242	3.56613749	
COMTD1	0.433341143	0.00507326	3.565953249	
TTLL8	0.433331378	0.00507326	3.56585431	
OR4K15	0.433306995	0.005075424	3.565607285	
FAM71E2	0.433284525	0.005077285	3.565379651	
FEZF1	0.433255301	0.005080221	3.5650836	
COL4A4	0.433219309	0.005082525	3.56471901	
SC4MOL	-0.433226472	0.005082525	-3.564791562	

FBP2	0.433205448	0.005083019	3.564578601	
SLC6A2	0.433183346	0.005084826	3.564354728	
TRMT12	-0.433163122	0.005085064	-3.564149882	
YEATS4	-0.433160362	0.005085064	-3.564121927	
LASS6	-0.433136489	0.005087155	-3.563880136	yes
MRPS27	-0.433096	0.005090184	-3.563470067	
FBXO38	-0.43309927	0.005090184	-3.563503187	
OR10A3	0.433066878	0.005092789	3.563175137	
LOC731797	0.433058187	0.005092789	3.563087125	
PNMA5	0.433038863	0.00509416	3.562891435	
INPP4B	-0.433027979	0.005094186	-3.562781212	yes
WDR73	-0.433005571	0.005096049	-3.562554311	
SEMA6C	0.432939183	0.005097988	3.561882097	
ZIM3	0.432941048	0.005097988	3.56190098	
OR5B17	0.432897502	0.005097988	3.561460089	
GAP43	0.432890094	0.005097988	3.561385082	
LOC284912	0.43295841	0.005097988	3.562076774	
FAM148B	0.432875696	0.005097988	3.561239319	
C22orf36	0.432936696	0.005097988	3.561856914	
LOC401557	0.432875921	0.005097988	3.561241596	
DPYSL5	0.432913017	0.005097988	3.561617166	
SMARCD3	0.432926907	0.005097988	3.561757795	yes
RTCD1	-0.43294077	0.005097988	-3.56189816	yes
RAB9B	0.432822727	0.005104735	3.560703085	
GLCE	-0.432804977	0.005105864	-3.560523399	
KCNJ3	0.432793178	0.005106043	3.560403963	
CLEC1B	0.432750967	0.00511051	3.559976694	
ZNF140	-0.432743868	0.00511051	-3.559904836	
MSH2	-0.432706406	0.005114793	-3.559525659	
CPSF3	-0.432688803	0.005115903	-3.559347501	
PAPOLA	-0.432650923	0.005116998	-3.558964136	yes
CHRNB4	0.432626258	0.005116998	3.558714516	
RP11-49G10.8	0.432620675	0.005116998	3.558658016	

PIK3CB	-0.432618018	0.005116998	-3.558631127	
TMX3	-0.432633561	0.005116998	-3.558788423	
TTYH1	0.432651273	0.005116998	3.558967678	yes
RNF166	0.432580135	0.005121356	3.558247768	
AHCYL1	-0.432532137	0.005123931	-3.557762091	
TNNI2	0.432539048	0.005123931	3.557832024	
MFAP3L	0.43254039	0.005123931	3.557845597	
RAB7A	-0.432453767	0.005134225	-3.556969161	
RILP	0.432446637	0.005134225	3.556897027	
C7orf45	0.432344624	0.005148901	3.555865039	
SRPK3	0.432314287	0.005152071	3.555558177	
SPATA2L	0.432278433	0.005155164	3.555195527	
SMPX	0.432273818	0.005155164	3.555148848	
KREMEN2	0.43225232	0.005156915	3.554931416	
NAE1	-0.432238341	0.005157456	-3.554790039	
GTF2F2	-0.432180048	0.005165139	-3.55420051	
AFTPH	-0.432129418	0.005170461	-3.55368852	yes
PLA2G12A	0.432125832	0.005170461	3.553652255	
LST1	0.432109151	0.005171441	3.553483583	
PTH2R	0.4320886	0.005173046	3.553275781	
WFIKKN2	0.432076181	0.005173339	3.553150212	
NCBP1	-0.432050227	0.005175819	-3.552887793	
CXorf56	-0.432035518	0.005176483	-3.552739076	
NKX2-1	0.432019923	0.005177291	3.552581409	
AIFM3	0.431989619	0.005180476	3.552275035	
OR4K2	0.43190675	0.005190456	3.551437312	
MTF1	-0.431912931	0.005190456	-3.551499797	yes
FLVCR2	0.431895658	0.005190538	3.551325192	
CST8	0.431859006	0.005191663	3.55095472	
CNR2	0.431841053	0.005191663	3.550773258	
ZNF579	0.43184851	0.005191663	3.550848627	
SV2C	0.431835841	0.005191663	3.550720583	
BTBD1	-0.431862718	0.005191663	-3.550992244	yes

HRC	0.431813039	0.005192194	3.55049012	
FLJ10213	-0.431811434	0.005192194	-3.550473901	
ARL14	0.431777904	0.005195914	3.55013503	
SLC5A2	0.431755084	0.005196191	3.54990441	
USP42	-0.431765561	0.005196191	-3.550010292	yes
LOC642648	0.431729166	0.005198681	3.549642487	
RPS12P23	0.431700328	0.005201646	3.549351073	
CHRM1	0.431576495	0.005209081	3.548099867	
COL11A2	0.431581564	0.005209081	3.548151073	
OTOP1	0.431610845	0.005209081	3.548446908	
NPLOC4	-0.431616666	0.005209081	-3.548505666	
DOK5	0.43156437	0.005209081	3.547977362	
KCNK15	0.431577329	0.005209081	3.548108285	
USH2A	0.431601395	0.005209081	3.548351428	
HPS3	-0.431564224	0.005209081	-3.547975886	
MED13	-0.431559697	0.005209081	-3.547930153	
NKX3-2	0.431491987	0.005216661	3.54724613	
BRCC3	-0.431502324	0.005216661	-3.547350555	
SLC8A2	0.431453072	0.005221278	3.546853036	
SOX12	0.431403283	0.005227669	3.54635014	
MED14	-0.431382292	0.005229376	-3.546138127	
RNASEL	-0.431338966	0.005233796	-3.545700558	
ELOVL5	-0.431334144	0.005233796	-3.545651856	
MPV17	-0.431312893	0.005235548	-3.545437248	
OR2Y1	0.431275755	0.005239444	3.545062207	
SPO11	0.431260707	0.005239444	3.544910253	
FLJ20464	0.43125004	0.005239444	3.544802535	
TBX1	0.431247021	0.005239444	3.544772053	
C14orf133	-0.431212365	0.005243387	-3.544422114	
RNASE2	0.431140962	0.005253337	3.543701189	
S1PR2	0.431098283	0.005258602	3.543270308	
ABCG5	0.431087543	0.005258645	3.543161892	
RNASEN	-0.431045176	0.005263864	-3.542734204	

SMOC1	0.431022676	0.005264118	3.542507081	
KIAA0196	-0.431027035	0.005264118	-3.54255108	
LEP	0.430970753	0.005269194	3.541982979	
SAP30	0.430978094	0.005269194	3.542057082	
TRPC2	0.430952803	0.00527042	3.54180181	
IL10RB	-0.430926516	0.005273015	-3.541536499	
RNF182	0.430902288	0.005273558	3.54129198	
ITPKA	0.430903516	0.005273558	3.541304372	
LOC100133316	0.43086759	0.00527582	3.540941806	
TRIP4	-0.430877669	0.00527582	-3.541043521	yes
SERPINA11	0.430825278	0.005281049	3.540514832	
LOC150763	0.430750528	0.005285656	3.539760573	
TMOD3	-0.43075676	0.005285656	-3.539823449	yes
FLJ44477	0.4307489	0.005285656	3.539744147	
MFRP	0.430776854	0.005285656	3.540026201	
C4orf49	0.430745021	0.005285656	3.539705004	
IL1F8	0.430680139	0.005294608	3.539050402	
VASH2	0.430661314	0.005295989	3.538860486	
NLRP3	0.43060488	0.005299605	3.538291184	
GLT25D2	0.430591965	0.005299605	3.538160909	
ABCE1	-0.430597896	0.005299605	-3.538220733	
DYNLT3	-0.430587238	0.005299605	-3.538113229	
XPR1	-0.430605833	0.005299605	-3.538300796	
OR7G1	0.430529775	0.005307355	3.537533618	
GCK	0.430491884	0.00531017	3.537151452	
MARK3	-0.430499161	0.00531017	-3.537224846	
CD58	-0.430464525	0.005312966	-3.536875525	
MTNR1B	0.430428623	0.005317175	3.536513457	
PAK2	-0.430386379	0.005322434	-3.536087451	
GNAI3	-0.430359068	0.005324708	-3.535812058	
BEST2	0.430351822	0.005324708	3.535738993	
DAND5	0.430311578	0.005326386	3.535333205	
OR4D1	0.430326705	0.005326386	3.535485734	

OR1L6	0.430310498	0.005326386	3.535322321
NXPH2	0.430284667	0.005327224	3.535061873
RBM23	-0.430294309	0.005327224	-3.535159088
FAM159A	0.430253023	0.005329024	3.534742836
BGLAP	0.430253717	0.005329024	3.53474983
SYNJ2BP	-0.430231394	0.005330886	-3.534524781
FAF1	-0.430219164	0.005331194	-3.534401489
LOC100130264	0.43019402	0.005331551	3.534148009
WDR40A	-0.430185911	0.005331551	-3.53406626
MRPS14	-0.430204467	0.005331551	-3.534253326
AQP2	0.43016887	0.005332656	3.533894474
NGDN	-0.430113853	0.005338587	-3.533339902
IL20RA	-0.430112331	0.005338587	-3.533324562
SUPV3L1	-0.430070588	0.005343788	-3.532903826
IGF2BP1	0.430046466	0.005346071	3.532660708
KIF5A	0.429986796	0.005354254	3.532059351
CNOT2	-0.429971079	0.005355146	-3.531900966
PIGL	-0.429883563	0.005367974	-3.531019103
RNASE8	0.429846428	0.005372434	3.530644941
HRCT1	0.429830778	0.005373318	3.53048726
FES	0.429808687	0.005373555	3.530264694
SLC13A5	0.429818584	0.005373555	3.530364404
OTOA	0.429769912	0.005374376	3.52987406
GPR68	0.429774194	0.005374376	3.529917204
FAM71F1	0.429762448	0.005374376	3.529798864
HTR3B	0.429776818	0.005374376	3.529943637
OTUD7A	0.429744824	0.005375593	3.529621332
RAD23B	-0.42969912	0.00538149	-3.529160939
KATNA1	-0.429679725	0.005383004	-3.528965568
EXOC5	-0.429665153	0.005383714	-3.528818797
PTCD3	-0.429599398	0.005392968	-3.52815652
PDF	0.429586176	0.005393455	3.528023356
PRR4	0.429570941	0.005394279	3.527869918

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GPX6	0.429548623	0.005396286	3.527645165
ALK	0.429527433	0.005396385	3.527431773
TKTL1	0.429533975	0.005396385	3.527497649
VAX2	0.429492022	0.005400584	3.527075185
CTRB1	0.429474329	0.005401413	3.526897017
KRT81	0.429466483	0.005401413	3.526818016
YTHDC2	-0.429423479	0.005406887	-3.526385014
TBR1	0.429325898	0.005418924	3.525402583
UBR5	-0.429320784	0.005418924	-3.525351096
ATG10	-0.429323401	0.005418924	-3.525377441
ZNF784	0.429308418	0.005419274	3.525226609
G6PC	0.429241007	0.005428863	3.524548034
SIRPB1	0.429200724	0.005433905	3.524142574
TCP10L	0.429080272	0.005450829	3.522930337
IL27	0.429060129	0.005450829	3.522727638
PRH2	0.429059104	0.005450829	3.522717315
SLC15A5	0.429079312	0.005450829	3.52292067
CREB3L3	0.429023785	0.005455053	3.522361919
VPREB3	0.428997815	0.005457703	3.522100609
KDSR	-0.428972665	0.005459132	-3.521847559
FLJ14100	0.428968836	0.005459132	3.521809029
GTF3C3	-0.428833316	0.005480307	-3.520445665
LOC100133346	-0.428795676	0.005484946	-3.520067048
EXOSC3	-0.428748997	0.005486098	-3.51959753
AGPAT5	-0.428752996	0.005486098	-3.519637752
ZKSCAN1	-0.428747891	0.005486098	-3.519586415
ZDHHC16	-0.428778056	0.005486098	-3.519889814
CYLC1	0.428724169	0.005488384	3.519347826
FAM174A	-0.428673313	0.005495273	-3.518836357
ZNF24	-0.428633633	0.005500273	-3.518437319
RBPJL	0.428622062	0.00550044	3.518320963
APLNR	0.428609558	0.00550044	3.518195223
YARS2	-0.428601954	0.00550044	-3.518118767

ADAM10	-0.428557627	0.005506235	-3.517673042
COL9A3	0.428513559	0.005511991	3.517229959
MGAT5	-0.428473604	0.005513573	-3.516828266
RNF103	-0.428479077	0.005513573	-3.516883284
RNF170	-0.428474083	0.005513573	-3.51683308
PAQR9	0.428431891	0.005518936	3.51640891
MCCC2	-0.428414168	0.005520216	-3.516230748
GHITM	-0.428375167	0.005520749	-3.5158387
NXT1	0.428396127	0.005520749	3.516049393
USP32	-0.428370868	0.005520749	-3.515795486
A2LD1	0.428370224	0.005520749	3.515789017
TP53BP2	-0.428347502	0.005522883	-3.515560616
NT5DC4	0.42833366	0.005523504	3.515421485
MED4	-0.428315899	0.005524794	-3.515242964
CPNE6	0.428281445	0.005528931	3.514896674
GRM6	0.428241047	0.005534086	3.514490666
OR52B2	0.428217034	0.005536447	3.514249347
PKLR	0.428165456	0.00554004	3.513731033
NUDT11	0.428175626	0.00554004	3.513833234
BSN	0.428178957	0.00554004	3.513866708
KRTAP12-4	0.428125256	0.005543199	3.513327097
ACN9	-0.428121037	0.005543199	-3.513284705
CCDC47	-0.428116451	0.005543199	-3.513238627
KCNA4	0.428083445	0.005547104	3.512906987
MUC12	0.428060916	0.005549219	3.512680636
EPHB1	0.428046551	0.005549395	3.512536315
GLOD5	0.428023363	0.005549395	3.512303358
KRCC1	-0.428019261	0.005549395	-3.512262142
C14orf43	0.428037976	0.005549395	3.512450165
FLJ40142	0.428004005	0.005550268	3.512108883
TARBP1	-0.427910166	0.005564601	-3.511166231
FSTL5	0.427890351	0.005566259	3.510967199
KLK12	0.427871752	0.005567709	3.51078039

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SNX27	-0.427799016	0.005578455	-3.510049868	
VSX1	0.42778547	0.00557904	3.509913832	
THADA	-0.427773402	0.005579371	-3.509792631	
LOC441795	0.427745056	0.00558076	3.50950798	
KRT75	0.427745833	0.00558076	3.509515786	
PRRT2	0.427706369	0.005584781	3.509119497	
MGC45922	0.427691282	0.005584781	3.508968003	
RP1L1	0.427696404	0.005584781	3.509019434	
SLC30A6	-0.427653543	0.005589532	-3.508589074	
TRIM42	0.427599126	0.005597159	3.508042711	
SLC22A25	0.427542236	0.005603478	3.507471585	
NHLRC3	-0.427542531	0.005603478	-3.507474542	
SYT9	0.42751913	0.005603975	3.507239631	
LBP	0.427523592	0.005603975	3.507284422	
RSPO2	0.427494592	0.005606464	3.50699331	
TMEM131	-0.427471787	0.005607678	-3.506764397	yes
TCEB3B	0.427467341	0.005607678	3.50671977	
EXOSC2	-0.427284876	0.005637326	-3.504888507	
AGPS	-0.427275721	0.005637326	-3.504796641	
EIF4G2	-0.427244184	0.005641043	-3.504480191	yes
LYSMD2	0.427225013	0.005642043	3.504287831	
SNN	0.427218226	0.005642043	3.504219731	
JARID1B	-0.427184826	0.005642586	-3.503884612	
DSCAM	0.427190194	0.005642586	3.503938474	
PDHA2	0.427204259	0.005642586	3.504079594	
ATP11B	-0.427168035	0.00564375	-3.50371615	
OR1S1	0.427148589	0.005645375	3.503521044	
TXNIP	-0.427109743	0.005648946	-3.503131335	
CLIC6	-0.427107857	0.005648946	-3.503112411	
LOC651503	0.427088279	0.005650597	3.502916006	
XIRP2	0.427025758	0.005659712	3.502288852	
CLASP1	-0.427015135	0.005659808	-3.502182291	
TEAD4	0.426991364	0.005662077	3.501943866	

SAMD1	0.42698196	0.005662077	3.501849541	
TDRD10	0.426949766	0.005662427	3.501526647	
ADORA1	0.426967563	0.005662427	3.501705136	
OR1A1	0.426950127	0.005662427	3.501530264	
TMSB15A	0.426891112	0.005670887	3.500938398	
ABRA	0.426870571	0.005672714	3.500732403	
DDX56	-0.426836544	0.005676893	-3.500391186	
FGD1	0.426805072	0.005677126	3.500075598	
FEZF2	0.426808431	0.005677126	3.500109281	
ADAMTS12	0.426812566	0.005677126	3.50015074	
SLC25A24	-0.426767331	0.00567957	-3.499697169	
PIK3R4	-0.426760944	0.00567957	-3.499633135	
NAGPA	0.426764145	0.00567957	3.499665228	
C14orf162	0.42673733	0.00568041	3.49939637	
WNT10A	0.426736065	0.00568041	3.499383688	
MFAP3	-0.426704112	0.005682486	-3.499063334	
UTX	-0.426713453	0.005682486	-3.49915698	yes
RIMKLA	0.426572795	0.005694922	3.497746923	
OXA1L	-0.426581797	0.005694922	-3.497837163	
CCL1	0.426617783	0.005694922	3.498197889	
FAM163B	0.426597967	0.005694922	3.497999245	
CARD14	0.426584683	0.005694922	3.497866094	
TAF1B	-0.426605689	0.005694922	-3.498076652	
BCORL1	0.426486179	0.005708323	3.496878785	
HTR4	0.426472092	0.005709038	3.496737598	
SNAPC3	-0.426441169	0.005712703	-3.496427698	
GPN1	-0.426399953	0.005718175	-3.496014663	
HOXB13	0.426377513	0.005720357	3.495789798	
OR6X1	0.426327244	0.005727425	3.495286099	
FCHO2	-0.426299558	0.005730533	-3.495008696	
OR11H6	0.426279155	0.005732362	3.494804276	
SLC20A2	-0.426261586	0.005733694	-3.494628258	
LOC100133397	0.426216715	0.005738686	3.494178728	yes

TNNC2	0.426213222	0.005738686	3.49414373
TDRD5	0.426195393	0.005740066	3.493965128
WNT10B	0.426151902	0.005745964	3.493529457
HOXC6	0.426141459	0.005746046	3.493424852
AFF2	0.426124646	0.005747139	3.493256443
TSEN2	-0.426115298	0.005747139	-3.493162809
PLA2G2D	0.42607493	0.005752472	3.492758479
SLC8A3	0.426065083	0.005752472	3.492659853
ZNF423	0.426029634	0.005756965	3.49230482
CARKD	-0.425970153	0.005765704	-3.49170914
ADARB2	0.425932155	0.005770088	3.491328636
DOHH	0.42592541	0.005770088	3.491261092
MAGEB18	0.425912168	0.005770668	3.491128495
OR1N1	0.425896166	0.005771736	3.490968271
GDI2	-0.425828678	0.005781913	-3.490292549
FCN2	0.425814924	0.005782564	3.490154844
SIM1	0.425805097	0.005782564	3.490056454
CSNK1A1L	0.425663854	0.005802843	3.488642549
STX12	-0.425680079	0.005802843	-3.488804955
MBTPS2	-0.425660882	0.005802843	-3.4886128
YME1L1	-0.425629112	0.005806701	-3.488294813
OR51F2	0.425619278	0.005806701	3.488196389
RPS7P4	0.425565015	0.005812759	3.487653306
LGALS12	0.425568304	0.005812759	3.487686223
SLC22A14	0.425555388	0.005812759	3.487556962
COL20A1	0.425540007	0.005813728	3.487403035
OR5M8	0.425526246	0.005814213	3.48726533
KIAA0427	0.425517427	0.005814213	3.48717708
ZNF557	-0.425487565	0.00581776	-3.486878247
ZACN	0.42544846	0.005822954	3.486486955
OR10W1	0.425401857	0.00582949	3.486020659
EXOC3L	0.42532606	0.005834398	3.485262337
APOE	0.425324769	0.005834398	3.48524942

yes

FAM26F	0.425345145	0.005834398	3.485453264	
CLDN18	0.425335463	0.005834398	3.485356402	
LOC729085	0.425335081	0.005834398	3.485352589	
CLCN1	0.425305362	0.005835375	3.485055274	
AIFM1	-0.425299481	0.005835375	-3.484996445	
C1orf105	0.425282019	0.005836724	3.484821765	
TMEM41B	-0.425211288	0.005847586	-3.48411425	
OR52E4	0.425189021	0.005849797	3.483891537	
C14orf129	-0.425159504	0.005853305	-3.483596312	
SLC10A4	0.425110273	0.005859227	3.483103946	
OR10V1	0.425106625	0.005859227	3.48306746	
RAB32	0.425074103	0.005863279	3.48274223	
KCNK10	0.425049313	0.005865949	3.482494331	
C11orf20	0.425027051	0.005866397	3.482271716	yes
KLK14	0.425029768	0.005866397	3.482298889	
LONP2	-0.42501298	0.005867148	-3.482131024	
TTR	0.424999317	0.005867827	3.481994401	
TNFSF8	0.424968771	0.005871532	3.481688983	
C9orf46	-0.424952405	0.005872478	-3.481525347	
CFHR5	0.424943758	0.005872478	3.481438892	
RANGRF	0.424915377	0.005875798	3.48115514	
GLP1R	0.424843797	0.005885107	3.480439544	
INTS9	-0.424849233	0.005885107	-3.480493882	
AVL9	-0.424832942	0.005885286	-3.480331036	
BBS5	-0.424817395	0.005886308	-3.480175622	
WDFY3	-0.424800848	0.005887511	-3.480010217	
TMEM77	-0.42474639	0.005889579	-3.479465879	
C22orf37	0.424777118	0.005889579	3.479773014	
IFNAR2	-0.424740102	0.005889579	-3.479403029	
KIR2DL4	0.424752649	0.005889579	3.479528438	
SBNO1	-0.424766969	0.005889579	-3.479671571	
P2RX1	0.424728093	0.005889728	3.479282998	
KIAA1468	-0.424718994	0.005889728	-3.479192063	yes

TRIM15	0.42470976	0.005889728	3.479099766	
AGK	-0.424696657	0.005890316	-3.478968817	
CHMP2B	-0.424665654	0.005894123	-3.478658968	yes
G3BP1	-0.42461576	0.005901331	-3.47816036	
LAMC3	0.424580176	0.005901712	3.477804772	
CSF2	0.424523271	0.005901712	3.477236175	
C4orf45	0.424519024	0.005901712	3.47719374	
NAPSB	0.424537456	0.005901712	3.477377909	
LGALS13	0.424518238	0.005901712	3.477185888	
PRTN3	0.424573393	0.005901712	3.477736998	
SFRP1	0.424526498	0.005901712	3.477268424	
SLC6A3	0.424588332	0.005901712	3.477886276	
UXS1	-0.424543208	0.005901712	-3.477435381	
TSC22D2	0.42451551	0.005901712	3.477158635	
THUMPD1	-0.424488338	0.005904839	-3.476887153	
C17orf95	-0.424463488	0.005905415	-3.476638877	
LOC257358	0.424447711	0.005905415	3.476481257	
ANKMY2	-0.424452236	0.005905415	-3.476526462	
SPI1	0.424445969	0.005905415	3.476463855	
IVNS1ABP	-0.42440674	0.005910718	-3.476071952	yes
HNF1A	0.424395499	0.00591098	3.475959656	
C20orf186	0.424383044	0.005911462	3.475835237	
ACRBP	0.424357142	0.005914367	3.475576495	
SMEK1	-0.424339598	0.005915767	-3.475401248	
MANEAL	0.424324861	0.005916662	3.47525405	
VAPA	-0.424312239	0.005917176	-3.475127969	yes
SOX14	0.424298899	0.00591782	3.474994727	
CST5	0.424198047	0.005934266	3.473987486	
TIMM23	-0.424186772	0.005934539	-3.473874884	
CLDN23	0.424109146	0.005943283	3.473099729	
LOC100133412	0.424121494	0.005943283	3.473223027	
TAC1	0.424115774	0.005943283	3.473165911	
LHX6	0.424090678	0.005944724	3.472915333	

NUPL1	-0.424081672	0.005944724	-3.472825403	yes
KRTAP19-8	0.424061486	0.005946613	3.472623854	
IZUMO1	0.423997647	0.005956414	3.471986491	
SLC7A10	0.423969712	0.005959713	3.471707603	
C6orf58	0.423956482	0.005960344	3.47157553	
FBXO24	0.423855683	0.005976886	3.470569356	
SLC17A4	0.423831781	0.005979462	3.470330782	
KLHDC8A	0.423813605	0.005980996	3.470149377	
ALDOB	0.423787379	0.005983997	3.469887629	
IMPA2	-0.423753512	0.005988391	-3.469549643	
OR6K3	0.423674133	0.006001091	3.468757512	
CALCB	0.423649987	0.006003721	3.46851658	
PRX	0.423629234	0.006005734	3.4683095	
OR7G2	0.423615365	0.006006233	3.468171124	
COLEC11	0.423607038	0.006006233	3.468088037	
AQP8	0.423596123	0.00600645	3.467979143	
DDX52	-0.42349274	0.006015563	-3.466947742	
PLEKHG4B	0.42350049	0.006015563	3.467025055	
STK32C	0.423491227	0.006015563	3.46693265	
GRIK5	0.423531635	0.006015563	3.467335761	
MYL2	0.423502884	0.006015563	3.467048938	
AMMECR1L	-0.423487942	0.006015563	-3.466899881	
PHAX	-0.423447281	0.006019449	-3.466494272	
DISP2	0.423452051	0.006019449	3.46654186	
ZBTB22	0.423418844	0.006022876	3.466210625	
ADAMTS4	0.423390287	0.006026328	3.465925793	
CDH16	0.423310113	0.006027121	3.465126181	
UGT3A2	0.423313194	0.006027121	3.465156902	
EXOSC7	-0.423309379	0.006027121	-3.465118855	
FSCN2	0.42335429	0.006027121	3.465566765	
UBE2K	-0.423327631	0.006027121	-3.465300888	
CLEC4GP1	0.423328174	0.006027121	3.465306301	
PKN2	-0.423319233	0.006027121	-3.465217131	

WDR26	-0.423308409	0.006027121	-3.465109184	yes
NAMPT	0.423276943	0.006029547	3.464795388	
MED31	-0.423275805	0.006029547	-3.464784036	
PTS	-0.423228288	0.006036481	-3.4643102	
CP110	-0.423201865	0.006039553	-3.464046729	
CBLN2	0.423158502	0.006044586	3.463614367	
AKT1S1	0.423155091	0.006044586	3.463580356	
BARHL2	0.423142186	0.00604518	3.46345169	
PRPF4	-0.42312314	0.006046902	-3.4632618	
SPRR4	0.423076175	0.006053754	3.462793573	
KCNV1	0.423048422	0.006056835	3.462516901	
PLEKHF2	-0.423040088	0.006056835	-3.462433826	
HGFAC	0.422957278	0.006070299	3.46160837	
GLYATL1	0.422938541	0.006071972	3.461421612	
ADD3	-0.422878262	0.006079525	-3.460820842	
C10orf114	0.42288334	0.006079525	3.460871444	
KCNN2	0.422864883	0.006080177	3.4606875	
OR52D1	0.422852317	0.006080177	3.460562272	
ADAM33	0.42284578	0.006080177	3.460497123	yes
ETFDH	-0.422768768	0.006092616	-3.45972969	
NVL	-0.422735998	0.006096891	-3.459403161	
HERC4	-0.422705257	0.006100793	-3.459096865	
SEP12	0.422669281	0.00610421	3.45873843	
COL10A1	0.422650106	0.00610421	3.458547394	
FLJ27243	0.422648245	0.00610421	3.458528855	
RNF141	-0.4226534	0.00610421	-3.458580211	
TCEAL5	0.422632973	0.006105255	3.458376705	
NMS	0.422599365	0.006106684	3.458041896	
E2F1	0.422596373	0.006106684	3.458012097	
CCDC83	0.422607145	0.006106684	3.458119406	
CLIP1	-0.422508421	0.006121201	-3.457135989	yes
GLRA1	0.422476987	0.006125249	3.4568229	
KRT86	0.422461033	0.006126425	3.456663995	

GJA3	0.42244043	0.006127986	3.456458799	
OR10AG1	0.422433397	0.006127986	3.456388758	
SYT8	0.422419904	0.006128707	3.456254372	
ALX3	0.42237257	0.006135715	3.455782992	
TCERG1	-0.422294728	0.006146622	-3.455007856	
OR4L1	0.422300388	0.006146622	3.455064207	
SLC15A2	-0.422268228	0.006147141	-3.45474399	yes
XPNPEP2	0.422263135	0.006147141	3.454693286	
C12orf34	0.422268609	0.006147141	3.454747786	
FAM9A	0.422185563	0.006150571	3.453920968	
SLITRK5	0.422177585	0.006150571	3.453841542	
OR5111	0.42218038	0.006150571	3.453869368	
CPSF2	-0.42219001	0.006150571	-3.453965234	
PELI1	-0.422197608	0.006150571	-3.454040884	
PTPRA	-0.422204349	0.006150571	-3.454107994	
CNTD2	0.422220469	0.006150571	3.454268482	
FCAR	0.422154752	0.006153039	3.453614234	
DLX6	0.42213572	0.00615323	3.453424776	
LCLAT1	-0.422134574	0.00615323	-3.453413359	
STAB2	0.422121352	0.00615391	3.453281744	
SMO	0.422101286	0.006154083	3.453081996	
MTMR1	-0.422107379	0.006154083	-3.453142653	
CCL17	0.422075631	0.00615708	3.452826632	
FBXO39	0.422054814	0.006158948	3.452619426	
SERPINB1	-0.422046484	0.006158948	-3.452536507	
KIAA1024	0.422035462	0.006159221	3.452426803	
TFCP2	-0.422016596	0.006160956	-3.452239032	
ARNT2	0.421992467	0.006163674	3.45199888	
SNORD83B	0.42196987	0.006164326	3.451773989	
HNRNPK	-0.421973099	0.006164326	-3.45180612	
NLGN3	0.421959025	0.006164568	3.451666059	
BMPER	0.421938401	0.006166635	3.451460805	
CHRM5	0.42189823	0.006172352	3.451061051	

NFE2	0.421877044	0.006174527	3.450850225	yes
C6orf81	0.421853718	0.006177102	3.450618119	
PHKG1	0.421838581	0.006178149	3.450467496	
ANO7	0.421801914	0.006181438	3.450102665	
HCN2	0.421805002	0.006181438	3.450133395	
COL5A1	0.421677562	0.006184208	3.448865529	yes
CXorf61	0.421760877	0.006184208	3.449694376	
FOLR2	0.421715711	0.006184208	3.449245038	
GABRR2	0.421697722	0.006184208	3.449066075	
GALK2	-0.421753023	0.006184208	-3.449616233	
HOXC8	0.421713753	0.006184208	3.449225553	
STAC2	0.421672892	0.006184208	3.44881907	
PIWIL3	0.421673065	0.006184208	3.448820786	
PDE9A	0.421718771	0.006184208	3.449275474	yes
WDR59	-0.42173529	0.006184208	-3.449439817	
NBPF3	-0.421676049	0.006184208	-3.448850479	
GCM1	0.421691346	0.006184208	3.449002647	
TDH	0.421657998	0.006185217	3.448670911	
OR52A1	0.421623827	0.006186279	3.448331007	
KISS1	0.421624012	0.006186279	3.448332844	
C9orf3	-0.421637207	0.006186279	-3.448464098	
LCT	0.421603632	0.006186682	3.448130127	
SLC19A3	0.421602692	0.006186682	3.448120785	
PROK1	0.421591698	0.006186964	3.448011425	
LOC100129427	0.421531157	0.006192967	3.447409285	
TRYX3	0.421533916	0.006192967	3.447436732	
LCN1	0.421541803	0.006192967	3.447515167	
HSD17B12	-0.421519344	0.006193121	-3.447291809	
AMAC1L3	0.421511382	0.006193121	3.447212623	
C1orf94	0.4214991	0.006193647	3.447090475	
NDUFA12	-0.421484923	0.006194527	-3.446949489	
IGF2	0.421438711	0.006201408	3.446489934	
OR1E2	0.421399708	0.006206943	3.446102098	

PGM2L1	-0.421362953	0.006210815	-3.445736629	yes
HPCAL4	0.421360135	0.006210815	3.44570861	
MLC1	0.42134566	0.006211755	3.445564694	
C20orf200	0.421327457	0.006213396	3.445383711	
NDUFS3	-0.421312256	0.006214474	-3.445232571	
TSSK4	0.421272654	0.006220133	3.444838858	
LEFTY2	0.421257347	0.006221233	3.444686682	
NFKBIL2	0.421204252	0.006227659	3.444158876	
NONO	-0.421212702	0.006227659	-3.444242873	
ZNF785	0.421181355	0.006229873	3.443931266	
PRKDC	-0.421173582	0.006229873	-3.443854005	
GNS	-0.421160716	0.006230517	-3.443726113	
DDX17	-0.421124635	0.006235529	-3.443367487	
PEX11G	0.421094771	0.006239374	3.443070669	
PHACTR4	-0.421073721	0.006241561	-3.442861459	
RBM7	-0.42094309	0.006259114	-3.44156331	
PNOC	0.420946581	0.006259114	3.441598002	
GRHL2	-0.42094291	0.006259114	-3.441561523	
PPP1R15B	-0.420966079	0.006259114	-3.441791741	
SLC35D2	-0.42090604	0.006264297	-3.441195168	
SLC29A2	0.420882723	0.006265141	3.440963496	
SLC14A2	0.420885469	0.006265141	3.440990783	
RNF6	-0.420861605	0.006267351	-3.440753684	yes
ACTBL2	0.420835622	0.006270483	3.440495538	
UBE4A	-0.420744668	0.006285916	-3.439591983	
CCDC116	0.420702458	0.006290604	3.439172705	
TNFRSF10D	0.420701106	0.006290604	3.439159275	yes
UNC13D	0.420548824	0.006314662	3.437646862	
PCID2	-0.420546201	0.006314662	-3.437620811	
LOC643905	0.420563349	0.006314662	3.437791104	
HSD17B4	-0.420458521	0.006327358	-3.436750166	
LOC442245	0.420432495	0.006327358	3.436491754	
RAB2A	-0.420442076	0.006327358	-3.436586882	

AASDHPPT	-0.420437013	0.006327358	-3.436536613	
KCNE2	0.420465992	0.006327358	3.436824349	
C1orf58	-0.42041369	0.00632797	-3.436305053	yes
GCHFR	0.42040109	0.00632797	3.436179954	
IKBKAP	-0.42040985	0.00632797	-3.436266926	
RHBDD3	0.420371643	0.006328213	3.435887597	
MOCS1	0.420380777	0.006328213	3.435978285	
TTC19	-0.42038791	0.006328213	-3.4360491	
MARCH11	0.420326025	0.006335121	3.43543473	
GPT	0.420303634	0.006336808	3.435212459	
JMJD1B	-0.420289036	0.006336808	-3.435067546	
THSD7B	0.420293903	0.006336808	3.435115858	
HTT	-0.420239223	0.006338465	-3.434573088	
OR6C1	0.420233485	0.006338465	3.434516139	
MCART6	0.420267798	0.006338465	3.434856727	
SUSD2	0.420249752	0.006338465	3.434677605	
DEFB137	0.420242786	0.006338465	3.434608457	
HSP90AB1	-0.420211975	0.006340783	-3.434302634	
UTF1	0.42016787	0.006345628	3.43386489	
FOXP2	-0.420170056	0.006345628	-3.433886586	
AMIGO1	0.420129095	0.006349459	3.433480075	
SLC35F5	-0.420134001	0.006349459	-3.433528766	
MARVELD2	-0.420100249	0.006353184	-3.433193806	yes
FBN2	0.420077297	0.006355783	3.43296604	
SPANXN1	0.420040678	0.006358287	3.432602669	
DNM1P33	0.420036156	0.006358287	3.432557799	
BIRC6	-0.420049063	0.006358287	-3.432685876	
DAPP1	-0.419973489	0.006368493	-3.431936006	yes
LOC100130988	0.419930756	0.006374432	3.431512035	
HEXDC	0.419923805	0.006374432	3.431443067	yes
STIP1	-0.419911483	0.006375004	-3.431320826	
CDKN2D	0.419898063	0.006375786	3.431187685	
SBK2	0.41988335	0.006376817	3.43104173	

CCT8	-0.419862726	0.00637884	-3.430837129
LARS2	-0.419841951	0.00637884	-3.430631043
MUC6	0.419826157	0.00637884	3.430474373
COL5A3	0.419848481	0.00637884	3.430695822
CD5L	0.419835429	0.00637884	3.430566348
HTR1A	0.419783756	0.006382248	3.430053785
MYL3	0.419761803	0.006382248	3.42983604
HMP19	0.419778869	0.006382248	3.430005314
RP5-1077B9.4	0.419793803	0.006382248	3.43015345
KIR3DX1	0.419768554	0.006382248	3.429903007
MDGA2	0.419745589	0.006383572	3.42967523
NEUROG2	0.41972909	0.006384951	3.42951159
C17orf44	0.419716649	0.006385553	3.429388195
USP14	-0.41965162	0.006396254	-3.428743281
FRS3	0.419542636	0.006415436	3.427662584
TSG101	-0.419521315	0.006415959	-3.427451188
LOC730098	0.419528567	0.006415959	3.427523091
RPP14	-0.419484306	0.006419508	-3.427084259
C13orf16	0.419486354	0.006419508	3.427104562
ZNF644	-0.419451296	0.006424081	-3.426756995
LOC100130858	0.419427762	0.006425036	3.426523687
SFTPB	0.419431855	0.006425036	3.426564257
C2orf29	-0.419396935	0.006429192	-3.426218082
CEPT1	-0.419288832	0.006441576	-3.425146548
ALDH1A1	-0.419303401	0.006441576	-3.425290952
KIR3DL1	0.419281425	0.006441576	3.425073134
PIGX	-0.41929921	0.006441576	-3.425249406
ZNF217	-0.419277131	0.006441576	-3.425030571
RIOK3	-0.419288522	0.006441576	-3.425143476
NR2E3	0.419265308	0.006442069	3.424913399
LCNL1	0.419192308	0.006454399	3.424189932
KIAA1383	0.41915116	0.006458778	3.42378217
COL18A1	0.419158949	0.006458778	3.423859355

LRRC10	0.419117704	0.006463466	3.42345065	
TMEM86A	0.419078187	0.006465739	3.423059093	
CTSL3	0.419084578	0.006465739	3.42312242	
TRMT5	-0.419078271	0.006465739	-3.42305993	
TNFRSF13C	0.418978491	0.006481498	3.422071364	
RINT1	-0.418987369	0.006481498	-3.422159317	
FLJ16165	0.418953726	0.006482894	3.421826025	
ITCH	-0.418952797	0.006482894	-3.421816821	
C3orf17	-0.418880875	0.006491483	-3.42110438	
NHLRC2	-0.418888314	0.006491483	-3.421178069	
DGCR6L	0.418893195	0.006491483	3.421226416	
SKP2	-0.418851326	0.006495435	-3.420811702	yes
CYP17A1	0.418803586	0.006501131	3.420338856	
TRPV2	0.418805384	0.006501131	3.420356664	yes
LOC158572	0.418773734	0.006503404	3.420043213	
C18orf12	0.418773439	0.006503404	3.420040294	
DLD	-0.418683012	0.006512033	-3.419144793	
GAMT	0.41868757	0.006512033	3.419189931	
APOA2	0.418712659	0.006512033	3.419438378	
ECHDC1	-0.418685574	0.006512033	-3.419170164	yes
BPHL	-0.418689912	0.006512033	-3.419213124	
ZNF3	-0.418671341	0.00651251	-3.419029231	
LRP3	0.418648085	0.006515248	3.418798946	
CXCL3	0.418545069	0.006533574	3.417778991	
SEZ6L	0.418500195	0.006539909	3.417334746	
TMEM87B	-0.418494258	0.006539909	-3.417275973	
LOC100129278	0.418463145	0.006544197	3.41696798	
C6orf1	0.418452528	0.006544471	3.416862885	
TBK1	-0.418438765	0.006545362	-3.416726649	
ECSIT	0.41838859	0.006553391	3.416230015	
ASXL2	-0.418357552	0.006557673	-3.41592281	yes
ATG3	-0.418279381	0.006571219	-3.415149169	
EXPH5	-0.418241375	0.006575071	-3.414773065	yes

VIL1	0.418245835	0.006575071	3.414817205	
MED19	0.418218753	0.00657771	3.414549213	
PSMB1	-0.418194658	0.00658064	-3.414310792	
SACM1L	-0.418176172	0.006581001	-3.41412788	
AP4E1	-0.418174421	0.006581001	-3.414110557	
NCKAP1	-0.418120788	0.006586551	-3.413579896	
C14orf100	-0.418137031	0.006586551	-3.413740606	
LOC652904	0.418118644	0.006586551	3.413558687	
NUP50	-0.418103549	0.006587714	-3.413409344	
OR10C1	0.418083772	0.006589799	3.413213681	
KCNJ11	0.418056823	0.006593153	3.412947075	
TRPM3	0.418048381	0.006593153	3.412863555	
LMO7	-0.417954697	0.006607893	-3.411936839	
SNX4	-0.417952869	0.006607893	-3.411918755	
KCNQ4	0.417946127	0.006607893	3.411852074	
CRK	-0.417936681	0.006607946	-3.411758641	
SHBG	0.41791657	0.006610106	3.411559718	
RASGRP2	0.417841815	0.006623072	3.410820389	yes
FBXO44	0.417803934	0.006628755	3.410445766	yes
IREB2	-0.417642275	0.006659015	-3.408847319	
MMP25	0.417629847	0.006659662	3.408724451	
PRPH2	0.417569614	0.006668217	3.408128989	
NUP155	-0.417568503	0.006668217	-3.408118006	
IFNA8	0.417508696	0.006678305	3.407526804	
DSCR3	-0.417447781	0.006684503	-3.40692472	
CTNNB1	-0.41743462	0.006684503	-3.406794641	
PRAGMIN	0.417441472	0.006684503	3.406862356	
SYCP2L	0.417422627	0.006684503	3.406676103	
OR4D9	0.417424536	0.006684503	3.406694979	
IL21R	0.417441385	0.006684503	3.406861497	
VPS53	-0.417405531	0.006685061	-3.406507146	
RNASE7	0.417401521	0.006685061	3.406467509	
NME4	0.417386729	0.006686186	3.406321321	yes

C4orf29	-0.417373577	0.006686984	-3.40619135	
GUF1	-0.417352504	0.006687538	-3.4059831	
RAE1	-0.417361342	0.006687538	-3.406070437	
FERD3L	0.417335823	0.006689042	3.405818256	
MIOX	0.417316976	0.006690979	3.405632009	
WARS2	-0.417298438	0.006692855	-3.405448826	
SYNE2	-0.417247775	0.006701151	-3.404948218	
CD1D	0.417208037	0.006707269	3.404555596	
RNF113B	0.417117526	0.006723564	3.403661399	
CYP21A2	0.417071949	0.006729435	3.403211176	
KIAA1644	0.417069979	0.006729435	3.403191717	
SH2B3	0.417052141	0.006731181	3.403015515	
PDZD4	0.417014079	0.006736989	3.402639552	
LTB	0.417000951	0.006737792	3.402509887	
ROS1	0.416988742	0.006738411	3.402389299	
USP24	-0.416957883	0.006742777	-3.402084517	
YWHAB	-0.41688182	0.006756239	-3.401333336	
OR9Q1	0.416846487	0.00675968	3.400984431	
ISG15	0.416852649	0.00675968	3.401045276	
CCDC63	0.416804518	0.006762624	3.40057001	
UTP18	-0.416815999	0.006762624	-3.400683378	
STC1	0.416806574	0.006762624	3.400590309	
NAGA	-0.416782793	0.006765165	-3.400355503	
OR4C11	0.416771445	0.006765616	3.400243453	
USP39	-0.416671936	0.006783854	-3.399261022	
PRB3	0.416654143	0.006785608	3.399085368	
IL9	0.416640377	0.006786549	3.398949481	
TMEM61	0.416564722	0.006798663	3.398202685	
KIAA1239	0.416562262	0.006798663	3.398178402	
ATP1B4	0.416527239	0.00680391	3.397832725	
FAM69B	0.416489644	0.006805996	3.39746167	yes
UPRT	-0.416489888	0.006805996	-3.397464083	
OAZ3	0.416496113	0.006805996	3.397525516	

FLJ43860	0.416443102	0.006811741	3.397002351	
MSX2P1	0.416443628	0.006811741	3.397007538	
MAK10	-0.416430948	0.006812362	-3.39688241	yes
RPSA	-0.416400287	0.006816735	-3.396579837	
DDX53	0.416374938	0.006820034	3.396329696	
WDR92	-0.416357594	0.00682171	-3.396158553	
CSN3	0.416278203	0.006832298	3.395375217	
SULT1B1	0.416291951	0.006832298	3.395510858	
STRA8	0.416285871	0.006832298	3.395450879	
CMTM1	0.416259343	0.006832442	3.395189148	
SPANXD	0.416264049	0.006832442	3.395235572	
PTGER1	0.416233563	0.006835837	3.394934804	yes
KRT27	0.416174942	0.006845915	3.394356504	
LOC441046	0.416108515	0.006855315	3.393701265	
NTRK3	0.416101573	0.006855315	3.39363279	
LY6K	0.416109857	0.006855315	3.3937145	
LOC220077	0.416056426	0.00686267	3.393187492	
ZNF224	-0.416017022	0.00686886	-3.392798869	
C3orf56	0.415941556	0.006882425	3.392054641	
CORT	0.41590333	0.006883758	3.391677695	
TSPYL6	0.415898803	0.006883758	3.391633054	
FKBP10	0.415916857	0.006883758	3.391811088	yes
CBX2	0.415908201	0.006883758	3.391725724	
RASA1	-0.415886111	0.006884502	-3.391507911	
KRT84	0.415821468	0.006895877	3.39087054	
RPL31P4	0.41579827	0.006898775	3.39064182	
PCBP3	0.415780993	0.006900461	3.390471492	
FCRLB	0.415724997	0.006907621	3.389919466	
FJX1	0.415714437	0.006907621	3.389815367	
LOC440419	0.415726937	0.006907621	3.389938586	
NUMB	-0.415709882	0.006907621	-3.389770459	
SETD4	-0.415686881	0.006910485	-3.389543723	
EFCAB3	0.415628873	0.006916826	3.388971944	

ZDHC2	0.415631121	0.006916826	3.388994099
RPAIN	-0.415630701	0.006916826	-3.388989961
OR51F1	0.415610876	0.006918666	3.38879456
OR4K17	0.415576254	0.006922968	3.388453319
FN3K	0.415571875	0.006922968	3.388410165
RPL23AP12	0.415553682	0.006924851	3.388230862
SSPO	0.415527584	0.006926505	3.387973665
NMB	0.415528536	0.006926505	3.38798304
AVPR1A	0.415485594	0.006932815	3.387559863
TMEM116	-0.415478854	0.006932815	-3.387493443
PPP2CA	-0.415461652	0.006934499	-3.387323929
C20orf94	-0.415431467	0.006937696	-3.387026497
ANUBL1	-0.415428082	0.006937696	-3.386993136
CBX5	-0.415383759	0.006940327	-3.38655642
C13orf35	0.415379268	0.006940327	3.386512166
SLC22A6	0.415384161	0.006940327	3.386560373
CHST2	0.415389525	0.006940327	3.386613226
METAP1	-0.415320969	0.00695048	-3.38593778
MMD2	0.415290337	0.006951229	3.385636006
NEFL	0.415293017	0.006951229	3.385662406
PPP2R5B	0.41529609	0.006951229	3.385692679
RP13-388O5.1	0.415260699	0.006955484	3.385344029
WDR62	0.415247032	0.006956448	3.385209403
KIAA2026	-0.415148877	0.006965574	-3.38424256
KANK4	0.415159939	0.006965574	3.384351515
SYCE2	0.415151516	0.006965574	3.384268552
RAB22A	-0.415154959	0.006965574	-3.384302464
ASCL5	0.415190761	0.006965574	3.384655106
FIZ1	0.41516971	0.006965574	3.384447751
SLC5A11	0.415121635	0.006969344	3.383974247
WDR68	-0.415084874	0.006975084	-3.383612202
HCN3	0.415056983	0.006978994	3.383337516
RP1-27O5.1	0.415041944	0.006980248	3.383189413

KIAA0368	-0.415000769	0.006986098	-3.382783948
NDUFA10	-0.414995721	0.006986098	-3.382734238
ZNF271	-0.414902822	0.007003485	-3.381819508
NECAB1	0.414861848	0.007010125	3.3814161
PCDHA12	0.414834272	0.007013988	3.381144619
C15orf62	0.414793459	0.007020604	3.38074284
HIF1AN	-0.414768443	0.00702394	-3.380496583
ZNF283	-0.414748012	0.007026325	-3.380295467
ATP5B	-0.414731652	0.007027863	-3.380134432
IQCB1	-0.414704663	0.007031614	-3.379868773
FGFR10P	-0.414635133	0.00704423	-3.379184435
SPACA3	0.414609868	0.007047629	3.378935794
KPNA4	-0.414569574	0.007049667	-3.37853925
OR5T3	0.414579127	0.007049667	3.378633261
MAGEB2	0.414568195	0.007049667	3.378525683
SLC11A2	-0.414563385	0.007049667	-3.378478343
LOC643997	0.414555328	0.007049667	3.378399063
LOC100133426	0.414508595	0.007054577	3.377939192
PDZD3	0.414500108	0.007054577	3.377855685
ECE2	0.414516041	0.007054577	3.378012462
OXSR1	-0.414496017	0.007054577	-3.377815428
ASTN1	0.414454727	0.00706133	3.377409155
CUL4A	-0.414436663	0.007063236	-3.37723143
CLTC	-0.414360722	0.007077244	-3.376484299
ZNF192	-0.414347215	0.0070782	-3.376351421
HYAL1	0.414330372	0.007079856	3.376185723
HSPB6	0.414255928	0.007093579	3.375453439
KRTAP5-2	0.414220615	0.007099111	3.375106102
C7orf34	0.414159171	0.007107293	3.37450179
MPG	0.414154851	0.007107293	3.374459296
DLGAP3	0.414156415	0.007107293	3.374474677
C10orf104	-0.414136661	0.007109239	-3.374280409
NCR2	0.414126176	0.007109567	3.374177297

ZNF239	0.414105342	0.00711207	3.373972409	
CCDC27	0.414076526	0.007113084	3.373689042	
ZNF321	-0.41407323	0.007113084	-3.373656628	
SLC10A2	0.414078524	0.007113084	3.373708687	
CNTNAP4	0.41406485	0.007113084	3.373574227	
WDR3	-0.414045284	0.007115324	-3.373381833	
COMMD2	-0.414021649	0.007118419	-3.373149433	yes
RAB42P	0.41399369	0.007122425	3.372874525	
GALNT1	-0.413941013	0.007127889	-3.372356599	
SOX9	0.41394453	0.007127889	3.372391177	
USP1	-0.413950747	0.007127889	-3.372452301	
ATAD2B	-0.41390275	0.00713285	-3.371980432	
CALB1	0.413899648	0.00713285	3.371949928	
C1orf150	0.413847465	0.007134418	3.37143694	
RHOXF1	0.41386856	0.007134418	3.371644311	
C6orf123	0.413838854	0.007134418	3.371352301	
MYBPC3	0.413852367	0.007134418	3.371485132	
RARS	-0.413844553	0.007134418	-3.371408322	
FOXRED2	0.413882255	0.007134418	3.371778947	
APPBP2	-0.413792024	0.007141401	-3.370891971	
DGKK	0.413770188	0.007141401	3.37067734	
C22orf33	0.413777102	0.007141401	3.370745298	
PCMT1	-0.413776224	0.007141401	-3.370736673	
EDN3	0.413760437	0.007141585	3.370581498	
MYH8	0.413731042	0.007145325	3.370292587	
RAB1A	-0.413724946	0.007145325	-3.370232671	
ASB17	0.413700581	0.007145451	3.369993203	
OR56B1	0.413697742	0.007145451	3.369965303	
LOC441179	0.413699016	0.007145451	3.369977823	
AP1S3	-0.413637744	0.007156239	-3.369375674	
PSMD6	-0.413618592	0.007158411	-3.369187466	
C21orf29	0.41358132	0.007163595	3.368821214	
ZBED3	0.413576327	0.007163595	3.368772149	

SIRT4	0.413558144	0.007165565	3.368593479	
CKAP4	0.413523111	0.007171099	3.368249262	
C3orf46	0.413458773	0.007180965	3.367617144	
TET2	-0.413462921	0.007180965	-3.367657891	yes
TAS1R2	0.413433221	0.007184501	3.367366109	
ANXA7	-0.413408026	0.007187964	-3.367118602	
ZNF83	-0.413391827	0.007189521	-3.366959472	
DAB1	0.413362819	0.00719192	3.366674516	
RMND5A	-0.413370554	0.00719192	-3.366750499	yes
CSTF2T	-0.41335258	0.007192216	-3.366573937	
C16orf73	0.413337806	0.007193473	3.36642881	
LTA	0.413320692	0.007194662	3.366260709	
FLJ46838	0.413302961	0.007194662	3.366086555	yes
MFSD11	-0.413308111	0.007194662	-3.366137133	
LMAN2L	-0.413296853	0.007194662	-3.366026558	
ACTRT1	0.413278632	0.007194781	3.365847598	
MRPS35	-0.413282	0.007194781	-3.365880677	
LOC100133033	0.413259919	0.007196877	3.365663803	
ANKRD53	0.413190297	0.00720978	3.364980037	
CILP	0.41317689	0.007210753	3.364848373	
CBLN4	0.413128294	0.007213581	3.364371169	
MS4A13	0.413136677	0.007213581	3.364453483	
SH3GLB1	-0.41313911	0.007213581	-3.364477373	
C19orf52	0.4131515	0.007213581	3.364599041	
UBA6	-0.41310756	0.007216114	-3.364167566	
QRSL1	-0.413095401	0.007216825	-3.364048176	yes
KCTD18	-0.413062011	0.007218305	-3.363720326	
PRM1	0.413075666	0.007218305	3.363854398	
TGFB111	0.413067942	0.007218305	3.363778561	yes
VPS35	-0.413049775	0.007219034	-3.363600188	
ACADM	-0.413015547	0.00722444	-3.363264128	
TMEM31	0.412983076	0.007229476	3.362945338	
TATDN1	-0.412915518	0.007241992	-3.362282117	

LOC100131792	0.412880718	0.007245659	3.361940518	
ELFN2	0.412884761	0.007245659	3.361980206	
KRT71	0.412870969	0.007245862	3.361844819	
GAPDHS	0.412857121	0.00724694	3.361708896	
NOXA1	0.412840578	0.007248593	3.361546517	
GEMIN5	-0.412831245	0.007248708	-3.361454908	
C18orf23	0.4127609	0.007261849	3.36076449	
CCDC138	-0.412735238	0.007263577	-3.360512646	yes
hCG_1757335	-0.41274192	0.007263577	-3.360578224	
LOC401233	0.412716205	0.007265767	3.360325862	
CRTC1	0.412701943	0.007266938	3.360185898	yes
CCDC110	0.41258419	0.007290265	3.359030453	
BRWD2	-0.412561114	0.007293329	-3.358804036	
LCE5A	0.412535971	0.007294956	3.358557358	
NEUROG1	0.412536327	0.007294956	3.358560855	
A3GALT2	0.412510363	0.007297688	3.358306123	
MUC15	-0.41244083	0.007297688	-3.357624005	yes
TNRC6B	-0.412444613	0.007297688	-3.35766111	
CYFIP1	-0.412459714	0.007297688	-3.35780925	
ACSL6	0.412445059	0.007297688	3.357665485	
TES	-0.412480252	0.007297688	-3.35801073	
OR52N5	0.412455119	0.007297688	3.357764177	
INTS2	-0.41248485	0.007297688	-3.358055829	
LOC643406	0.412435559	0.007297688	3.357572295	
TBL1XR1	-0.412500951	0.007297688	-3.358213786	
AICDA	0.412398943	0.007303665	3.357213124	
SUCLG2	-0.412385646	0.00730464	-3.357082695	
LOC283392	0.412365096	0.007307173	3.356881133	
RER1	-0.412335534	0.007311642	-3.356591182	
GALNTL5	0.412313196	0.007314562	3.356372094	
GK5	-0.412297796	0.007315075	-3.356221056	
LMX1A	0.41229095	0.007315075	3.356153918	
CEACAM19	0.412284568	0.007315075	3.356091322	

LRRN3	0.41226137	0.007318182	3.355863818	yes
PDZRN4	0.412231011	0.007319606	3.355566095	
HARS	-0.412241202	0.007319606	-3.35566604	
TM2D2	-0.412228528	0.007319606	-3.35554175	
C1orf2	0.412206118	0.007322547	3.35532199	
APOC3	0.412188215	0.007324519	3.355146438	
ENO3	0.412138284	0.007324548	3.354656834	
IPP	-0.412159236	0.007324548	-3.354862278	yes
PRM2	0.412151543	0.007324548	3.354786848	
SCARNA11	0.412177143	0.007324548	3.355037865	
C12orf65	0.412135719	0.007324548	3.354631683	
TAAR2	0.412156536	0.007324548	3.354835803	
CHRM4	0.412105449	0.007329185	3.354334889	
UTS2	0.412062566	0.007332786	3.353914456	
CSN1S1	0.412075245	0.007332786	3.354038765	
WNT1	0.412065872	0.007332786	3.35394687	
ARID3C	0.412045267	0.007334635	3.353744861	
C21orf122	0.411964601	0.007350142	3.352954078	
UBXN4	-0.411952919	0.007350783	-3.352839564	
LOC100131507	0.411902748	0.007359733	3.35234778	
COPB1	-0.41181421	0.007376991	-3.351480016	
PSMB4	-0.411795226	0.007379215	-3.35129397	
OR5I1	0.411709714	0.00738831	3.350455992	
SHE	0.411710364	0.00738831	3.350462362	
BRI3	0.411721405	0.00738831	3.350570553	
VAT1L	0.41172302	0.00738831	3.350586386	
KIAA1853	0.411731474	0.00738831	3.350669227	
KLF3	-0.411691595	0.007390351	-3.350278452	
PYY2	0.411644611	0.007398653	3.349818095	
PNMA3	0.411618582	0.007402414	3.349563071	
SUGT1	-0.411598265	0.007403238	-3.349364012	
SERPINA4	0.411597401	0.007403238	3.349355549	
ZC4H2	0.411557835	0.007409942	3.34896792	

SEP15	-0.411507985	0.007418887	-3.348479577	
ANKRD24	0.411457425	0.007427996	3.347984313	
OR2B11	0.411407418	0.007435103	3.347494501	yes
IGDCC4	0.411414948	0.007435103	3.347568257	
IDS	-0.411391842	0.007436604	-3.347341951	
KLHL10	0.411327927	0.007448647	3.346715984	
PSMA6	-0.411271128	0.007459152	-3.346159757	
DMXL1	-0.411236632	0.007462896	-3.345821961	
NOTCH4	0.411239974	0.007462896	3.345854681	
DGAT2L6	0.411199896	0.007465678	3.34546225	
TBX22	0.411197877	0.007465678	3.345442488	
TSSK3	0.411211878	0.007465678	3.345579573	
GPR64	0.411181885	0.007467279	3.3452859	
C7orf11	-0.411162653	0.007467693	-3.345097599	
ASGR1	0.411164311	0.007467693	3.34511383	
PXDNL	0.411117441	0.00746984	3.344654945	
SLFNL1	0.4111293	0.00746984	3.344771053	
NPC1L1	0.411111134	0.00746984	3.3445932	
C5orf15	-0.411109525	0.00746984	-3.344577447	
FGF16	0.411120107	0.00746984	3.344681053	
FADS3	0.411078414	0.007470966	3.344272877	yes
OR5K2	0.41108117	0.007470966	3.344299857	
LOC100133431	0.411085863	0.007470966	3.344345801	
GRM4	0.411059043	0.00747331	3.344083245	
ITGB3BP	-0.411029285	0.007477929	-3.343791933	
CDC23	-0.41101963	0.007478149	-3.343697421	
OR8D2	0.411008411	0.007478712	3.343587609	
FAM167B	0.410990907	0.007480652	3.343416267	
B3GNT2	-0.410925118	0.00749317	-3.342772331	
MRPL39	-0.410892934	0.007498333	-3.342457339	yes
OR3A4	0.410875307	0.007500304	3.342284827	
BAAT	0.410851186	0.007503702	3.342048762	
COX6B2	0.410837158	0.007504885	3.34191148	

CHIA	0.410810016	0.007505158	3.34164587	
GALR2	0.410813107	0.007505158	3.341676114	
CDK5R1	0.410825861	0.007505158	3.341800926	
ADORA2A	0.410793721	0.007506841	3.34148641	
PACRGL	-0.410749354	0.00751469	-3.341052273	
NPAS4	0.410716704	0.00751997	3.340732803	
LOC100133395	0.410662638	0.00752842	3.340203817	
IPO11	-0.410661044	0.00752842	-3.340188222	
LOC728115	-0.410605246	0.007538808	-3.339642333	
C10orf57	-0.410591456	0.007539947	-3.339507434	yes
PIK3C3	-0.410545577	0.007548162	-3.339058632	
NIPBL	-0.410498858	0.007556569	-3.338601651	
DKK4	0.41047973	0.00755889	3.338414549	
USP34	-0.410395414	0.007575624	-3.337589913	
OR8D4	0.410338639	0.007584379	3.33703469	
IL21	0.410339042	0.007584379	3.337038633	
LOC100131112	0.410238966	0.007598838	3.336060063	
FDX1L	0.410254933	0.007598838	3.336216184	
SMPDL3B	0.41024702	0.007598838	3.336138812	
DCLRE1C	-0.410245067	0.007598838	-3.33611971	
ECHDC3	0.410206507	0.007600312	3.335742703	
CUL1	-0.410211466	0.007600312	-3.335791186	
FCHSD1	0.410206694	0.007600312	3.335744528	
RNASEH1	-0.410195028	0.00760095	-3.335630467	
NPFFR2	0.410161374	0.007601865	3.335301449	
CREB1	-0.410156518	0.007601865	-3.335253971	
PDE6H	0.410161203	0.007601865	3.335299778	
CPZ	0.410168763	0.007601865	3.335373684	
IL18	-0.410140813	0.007603005	-3.335100444	
RTN2	0.410134196	0.007603005	3.335035748	
ADAM3A	0.410120604	0.007604116	3.334902875	
ENPP4	-0.4100754	0.007609815	-3.334460991	
HK3	0.410076558	0.007609815	3.334472309	

OR2S2	0.410069174	0.007609815	3.334400131	
PTPRO	0.409996614	0.007624033	3.33369089	
GNG12	-0.409947286	0.007633101	-3.333208771	
SLC38A6	-0.409925961	0.007635939	-3.333000365	
LBX2	0.409906452	0.007638373	3.332809706	
SYDE1	0.409871957	0.007644149	3.332472599	yes
KLHDC2	-0.409860764	0.007644732	-3.332363223	
NPVF	0.409848939	0.007645457	3.332247674	
DEFB132	0.409833098	0.007647078	3.33209287	
SRD5A2L2	0.409822025	0.007647636	3.331984674	
JMJD2D	0.409787442	0.007653438	3.331646757	
ESPN	0.409778338	0.007653558	3.331557806	
GPR83	0.409735718	0.007653796	3.331141377	
XPOT	-0.409738402	0.007653796	-3.331167603	
C1orf122	0.409738016	0.007653796	3.331163828	
MIB2	0.409733266	0.007653796	3.331117425	
GYPE	0.409725908	0.007653796	3.331045538	
NECAP2	-0.409734949	0.007653796	-3.331133872	
LOC729080	0.409673393	0.007663609	3.33053248	
GRIN1	0.40966418	0.007663756	3.330442473	
MOCS3	-0.409637369	0.007663949	-3.330180559	yes
TRPM5	0.409629892	0.007663949	3.330107513	
SNORD114-3	0.409644455	0.007663949	3.330249777	yes
FAR1	-0.409629122	0.007663949	-3.330099999	
TLX1	0.409608117	0.007666732	3.32989481	
HOXB9	0.40955624	0.007676419	3.329388071	
BPIL3	0.409517833	0.007683101	3.329012933	
CUX2	0.409482388	0.007689124	3.328666749	
MS4A12	0.409443084	0.007696017	3.3282829	
NDUFC2	-0.409423036	0.007698597	-3.32808711	
SLC2A2	0.409412285	0.007699094	3.327982115	
OR4D11	0.40937488	0.007705569	3.327616846	
PPP2R2D	-0.409320787	0.007713881	-3.327088653	

AADACL1	-0.409323072	0.007713881	-3.327110957	
C11orf84	0.409204423	0.007728821	3.325952539	
DMBT1	0.40919463	0.007728821	3.325856936	
FGF8	0.409208743	0.007728821	3.325994715	
PMP22CD	0.409195195	0.007728821	3.325862452	
FAM135B	0.409231045	0.007728821	3.326212447	
MMP27	0.40922564	0.007728821	3.326159674	
SRD5A3	-0.409211572	0.007728821	-3.326022332	
MRPS31	-0.409151904	0.007730369	-3.325439839	yes
CHRNA1	0.409165804	0.007730369	3.325575529	
SLC35F3	0.409136659	0.007730369	3.325291023	
TMEM2	-0.409172275	0.007730369	-3.325638703	
ATP6V1C1	-0.409159571	0.007730369	-3.325514684	
ST6GAL1	-0.40913729	0.007730369	-3.325297182	
P2RY12	0.409090467	0.00773885	3.324840127	
FAM159B	0.409081405	0.007738975	3.324751679	
GKN2	0.409049406	0.007742992	3.324439351	
KCNJ1	0.409046555	0.007742992	3.324411518	
CIB3	0.409026658	0.007743644	3.324217325	
TMEM132D	0.409029756	0.007743644	3.324247556	
IER5	0.409013554	0.007744682	3.32408943	
ACAD9	-0.408945671	0.007756153	-3.323426933	
LOC728318	0.408954032	0.007756153	3.32350853	
MYH4	0.408899202	0.007764722	3.32297347	
ACVR2A	-0.408873888	0.00776852	-3.322726446	
PAGE3	0.408807023	0.007777874	3.32207403	
C6orf15	0.408808343	0.007777874	3.322086907	
AZGP1	0.408809787	0.007777874	3.322100991	
WFDC13	0.408760086	0.007780838	3.321616081	
FOX11	0.408761011	0.007780838	3.321625111	
OR2W1	0.408762505	0.007780838	3.321639687	
UBAP2	-0.408759979	0.007780838	-3.321615037	
LIP1	0.40874901	0.0077814	3.321508028	

FNDC5	0.408734235	0.007782825	3.321363884	
SETD1A	0.408693886	0.007790036	3.320970255	
SERPINA3	0.408644204	0.007798021	3.32048561	yes
PKIA	0.408641675	0.007798021	3.320460945	
SLC13A1	0.408577671	0.007810611	3.319836646	
LOR	0.408514599	0.007823007	3.319221495	
EVI1	-0.40846391	0.007830677	-3.318727161	yes
HIVEP1	-0.408471223	0.007830677	-3.318798485	
RNF44	0.408289582	0.007864604	3.317027351	
IBTK	-0.408291603	0.007864604	-3.317047046	
DOC2BL	0.408302795	0.007864604	3.317156165	
DEFB112	0.408243906	0.0078731	3.316582046	
MS4A15	0.408214093	0.007877978	3.316291416	
CAST	-0.408203582	0.007878446	-3.31618895	yes
CPB2	0.408100101	0.007888571	3.315180269	
RP11-165H20.1	0.408102043	0.007888571	3.315199202	
OSGIN1	0.408141865	0.007888571	3.315587345	
VPS36	-0.40811166	0.007888571	-3.315292938	
MUPCDH	0.408148199	0.007888571	3.31564909	
GFOD1	0.40813185	0.007888571	3.315489728	
RBBP4	-0.408103764	0.007888571	-3.315215974	
OR10H4	0.408090953	0.007888731	3.315091108	
LAGE3	0.408027925	0.007901227	3.314476829	
HUWE1	-0.407975241	0.007908722	-3.313963406	
CRY1	-0.407953	0.007908722	-3.313746673	
HBD	0.407959587	0.007908722	3.313810862	
SEP4	0.407967353	0.007908722	3.31388654	yes
BRSK2	0.40798678	0.007908722	3.314075858	
SLC27A5	0.407908051	0.007916235	3.313308673	
MSLNL	0.407903364	0.007916235	3.313263008	
SETD1B	0.407849856	0.007924645	3.312741652	yes
CACNA1F	0.407854939	0.007924645	3.312791174	
PIGU	-0.407828218	0.007927678	-3.312530836	yes

C11orf85	0.407792174	0.007928211	3.312179674	
C1orf149	-0.407795956	0.007928211	-3.312216516	
SYCP1	0.407802541	0.007928211	3.312280666	
HPDL	0.407812552	0.007928211	3.312378205	
SMAD1	-0.407742116	0.007937781	-3.311692007	
ZYG11B	-0.407723016	0.007938299	-3.311505944	
TBCKL	-0.407731423	0.007938299	-3.311587839	
AK2	-0.407685556	0.007943643	-3.311141044	
PTGR1	-0.407682942	0.007943643	-3.311115585	yes
SCARNA8	0.40765576	0.007947962	3.310850816	
NAP1L4	-0.407614289	0.007955574	-3.31044688	
CHI3L2	0.407521911	0.007957486	3.309547202	
HNRNPA1L2	-0.407581856	0.007957486	-3.310131005	
FLJ23865	0.407530229	0.007957486	3.309628204	
HMGCR	-0.407524588	0.007957486	-3.309573274	
MYL1	0.407551143	0.007957486	3.309831884	
MIOS	-0.407573564	0.007957486	-3.31005024	
SCN2B	0.407532743	0.007957486	3.309652693	
TMEM50B	-0.407541278	0.007957486	-3.309735812	
CALB2	0.407557772	0.007957486	3.30989644	
BTBD10	-0.407582943	0.007957486	-3.310141592	
LOC284297	0.407473328	0.007962068	3.309074094	
PGF	0.407468444	0.007962068	3.309026538	yes
TBCE	-0.407493397	0.007962068	-3.309269527	
MYO18B	0.407476151	0.007962068	3.309101587	
CNIH3	0.407459789	0.007962128	3.308942257	
B4GALT5	-0.407434774	0.007965961	-3.308698678	
DNM1L	-0.407352444	0.007979153	-3.307897058	
NDUFAF1	-0.407355195	0.007979153	-3.307923847	
PRRG4	-0.407364068	0.007979153	-3.308010232	
UBR7	-0.407285284	0.007990796	-3.307243226	
UROS	-0.407292522	0.007990796	-3.307313683	
STARD6	0.407192742	0.007996701	3.306342381	

FAM170B	0.407209454	0.007996701	3.306505054	
SLC44A1	-0.407230318	0.007996701	-3.306708144	
RNF138	-0.407235854	0.007996701	-3.306762034	
HTRA1	0.407206675	0.007996701	3.306477998	yes
XPO4	-0.407196982	0.007996701	-3.30638365	
EFTUD1	-0.40722543	0.007996701	-3.306660561	
SLCO5A1	0.407211467	0.007996701	3.306524641	
LOC346329	0.407160869	0.008000856	3.306032142	
LOC727721	0.407155788	0.008000856	3.305982686	
TNKS2	-0.407149682	0.008000856	-3.305923257	
C20orf71	0.407131286	0.008003177	3.305744209	
ANXA2P2	-0.407056715	0.008018514	-3.305018452	yes
PFDN2	0.406994231	0.00803107	3.304410406	
C20orf111	-0.406966996	0.008033697	-3.304145386	
ATCAY	0.406966197	0.008033697	3.304137614	
EMID1	0.406915738	0.008041536	3.303646632	
ZNF264	-0.406919454	0.008041536	-3.303682788	
LOC100133388	0.406888584	0.008044881	3.30338244	yes
HBXIP	-0.406876287	0.008044881	-3.303262798	
CLRN2	0.406879428	0.008044881	3.303293352	
SNX22	0.406850936	0.008048834	3.303016149	
POLR3K	-0.406810698	0.008056254	-3.302624698	
KRTAP4-4	0.406800241	0.008056745	3.302522964	
NOL7	-0.406789072	0.008057402	-3.302414309	
LOC284067	0.406755149	0.008063358	3.302084321	
DBP	0.406733211	0.008066525	3.30187092	
MYEOV2	0.406697563	0.008067533	3.301524174	
INO80	-0.406712128	0.008067533	-3.301665841	
SHB	0.406695526	0.008067533	3.301504359	
CD247	0.406713532	0.008067533	3.301679502	
CLCN3	-0.40660006	0.008084655	-3.300575859	
NIPSNAP3A	-0.406601317	0.008084655	-3.300588075	
MEG3	0.406592846	0.008084655	3.300505699	

STAR	0.40658878	0.008084655	3.300466152	
CHRNA2	0.406548581	0.008088207	3.300075226	
OR8U1	0.406558803	0.008088207	3.30017463	
LILRA5	0.406554981	0.008088207	3.300137464	
RIN1	0.406468361	0.008105009	3.299295164	
ADAM11	0.406459083	0.008105232	3.299204952	
PRRX2	0.406444843	0.008106616	3.299066487	
FRG2C	0.406374167	0.008119266	3.298379334	
ATP1A4	0.406378019	0.008119266	3.298416783	
C6orf192	-0.406341952	0.008124362	-3.298066145	
SULT6B1	0.406335783	0.008124362	3.298006166	
MPZL2	-0.406307198	0.008125216	-3.297728285	
TSPYL3	0.40630739	0.008125216	3.297730153	
SH2D6	0.406313064	0.008125216	3.297785312	
GDPD4	0.40626017	0.008129279	3.297271136	
OR5L2	0.406240032	0.008129279	3.29707539	
PGP	0.406249302	0.008129279	3.297165492	
VWA1	0.406269596	0.008129279	3.297362764	yes
CCDC70	0.406247114	0.008129279	3.297144222	
CHRNA6	0.406266815	0.008129279	3.29733573	
KLB	0.406227691	0.008130226	3.296955426	
COQ7	-0.406201651	0.008133388	-3.296702329	
UBE2E3	0.406190579	0.008133388	3.296594714	
C1orf186	0.406181022	0.008133388	3.296501826	
MLLT10	-0.406188225	0.008133388	-3.296571828	
TUSC1	0.406160356	0.008134512	3.296300967	
OXSM	-0.406159649	0.008134512	-3.296294088	
KCNK7	0.406050649	0.008158164	3.295234802	
C10orf47	0.406003032	0.008161568	3.29477209	
SLC10A5	-0.406021791	0.008161568	-3.294954374	
MSC	0.406012152	0.008161568	3.294860711	
RBX1	-0.406009156	0.008161568	-3.294831605	
SCYL3	-0.405925426	0.008177888	-3.294018052	

FRAT1	0.405851199	0.008193439	3.293296916	yes
LIPM	0.405842491	0.008193539	3.293212324	
PRPSAP1	-0.405829304	0.008194698	-3.29308422	
SH2B2	0.405810673	0.008196407	3.292903229	
GDAP2	-0.405796318	0.008196407	-3.292763785	
ZFP64	-0.405805196	0.008196407	-3.292850032	
RPL29P30	0.405788956	0.008196407	3.292692271	
RNF2	-0.405763431	0.008200481	-3.292444332	yes
SH3D20	0.405715819	0.008209777	3.291981868	
PODXL2	0.40566143	0.008220685	3.291453626	
SNORA20	0.405650841	0.008221234	3.291350788	yes
DUSP8	0.405597368	0.008229981	3.290831481	
SH3RF1	-0.405598008	0.008229981	-3.290837695	
ARL6IP6	-0.405578669	0.008230495	-3.290649892	
IFITM5	0.405580952	0.008230495	3.290672062	
ECD	-0.405561349	0.008231945	-3.290481711	
CNGA1	0.405556026	0.008231945	3.290430016	
ACADSB	-0.405512896	0.008240211	-3.290011214	
UQCRC2	-0.405501818	0.00824088	-3.289903647	
ZNF845	-0.405399884	0.008263121	-3.288913964	
CBARA1	-0.405391376	0.008263181	-3.288831369	
ZDHHC7	-0.405370382	0.008264247	-3.288627555	
CPA6	0.405376666	0.008264247	3.288688569	
RAB11FIP5	0.405332336	0.008271332	3.28825822	
SUB1	-0.405298295	0.00827747	-3.287927779	
PDCD6IP	-0.405281252	0.008279563	-3.287762353	yes
RBMX	0.405265226	0.008281415	3.287606793	
PTH	0.405236172	0.008284803	3.28732479	
DEFB134	0.405234512	0.008284803	3.287308679	
NRSN1	0.405216357	0.00828648	3.287132472	
ASPHD1	0.405194511	0.00828648	3.286920439	
LOC401433	0.405197167	0.00828648	3.286946218	
GP6	0.40520639	0.00828648	3.287035737	

GTF2H3	-0.405179883	0.008288003	-3.286778469	
MMADHC	-0.405170331	0.008288317	-3.28668577	
TRH	0.405138539	0.008293932	3.286377234	
ALOX12B	0.405112976	0.008298064	3.286129159	
KRT26	0.405100718	0.008299025	3.286010201	
VIP	0.405066803	0.008305154	3.285681095	
MAP3K7IP3	-0.405016371	0.008315232	-3.285191738	yes
RBM5	-0.4049741	0.008320068	-3.284781601	
ANKFY1	-0.404971456	0.008320068	-3.284755953	
C13orf38	0.404979629	0.008320068	3.284835249	
FLJ45717	0.404940138	0.00832559	3.284452101	
ATG7	-0.404924864	0.00832597	-3.28430392	
SLITRK2	0.404922109	0.00832597	3.284277193	
MGC42105	0.404888245	0.008332106	3.283948664	
LOC100128374	0.404843281	0.008340904	3.28351248	
APOL5	0.404814957	0.008345722	3.283237728	
HADHA	-0.404798715	0.008347646	-3.283080177	
LOC100133325	0.404778335	0.008348594	3.282882503	
TSN	-0.404783988	0.008348594	-3.282937336	
IMPAD1	-0.404732668	0.008357451	-3.282439566	
CTPS2	-0.404724986	0.008357451	-3.282365063	
OR10H3	0.404712703	0.008358429	3.282245927	
FANCF	-0.404680118	0.00836428	-3.281929903	yes
MYO1D	-0.404670157	0.008364702	-3.281833304	
MRGPRX4	0.404619199	0.008374365	3.281339132	
TMED7	-0.404613523	0.008374365	-3.281284088	
CSH1	0.404598263	0.008376062	3.281136106	
ADAM29	0.404580915	0.008378262	3.280967893	
hCG_1983896	0.404560502	0.008381199	3.280769953	
CCDC155	0.404517671	0.008386662	3.280354654	
HSD3B2	0.404505016	0.008386662	3.280231951	
DERA	-0.404512726	0.008386662	-3.28030671	
PSMD1	-0.404513006	0.008386662	-3.28030942	

EYA4	-0.404433814	0.008391978	-3.279541638	
IDUA	0.404444124	0.008391978	3.279641587	
FAM135A	-0.404466215	0.008391978	-3.279855758	
TRPC5	0.404457047	0.008391978	3.279766875	
FRMD5	0.40443967	0.008391978	3.27959841	
CFLAR	-0.404467581	0.008391978	-3.279869004	
CEP70	-0.404366204	0.008406294	-3.278886212	
CSH2	0.404319195	0.008409742	3.27843053	
KIAA0831	-0.404322417	0.008409742	-3.27846176	
CCDC106	0.404342278	0.008409742	3.278654277	
FLJ46365	0.404326138	0.008409742	3.278497835	
UNQ9391	0.40430684	0.00841075	3.278310773	
PLA2G15	0.404280367	0.008415164	3.278054178	
C3orf20	0.404271985	0.008415216	3.277972933	
POLR3C	-0.404258822	0.008416421	-3.277845357	yes
ADAM12	0.404246485	0.008417427	3.277725789	
UPK1A	0.404193466	0.008417598	3.277211946	
COTL1	0.404227338	0.008417598	3.277540211	
PPP2R2A	-0.404214546	0.008417598	-3.277416242	
NCRNA00087	0.404188657	0.008417598	3.277165332	
C6orf25	0.40420604	0.008417598	3.277333798	
MGC13057	0.40422077	0.008417598	3.277476559	
C1orf217	-0.404199839	0.008417598	-3.277273707	
ZFYVE28	0.404141488	0.008427015	3.276708228	
FOXN4	0.404131551	0.008427446	3.276611927	
CHD8	-0.404114354	0.008429631	-3.276445282	
CSNK1G3	-0.404076922	0.008434993	-3.276082569	
SCN5A	0.40407586	0.008434993	3.276072285	
C6orf10	0.404019394	0.00844165	3.275525165	
DDX42	-0.404007607	0.00844165	-3.275410966	
GIMAP1	0.404025409	0.00844165	3.275583445	
FLJ44313	0.40401163	0.00844165	3.275449943	
PFKFB2	-0.404031364	0.00844165	-3.275641148	

GPHA2	0.403934262	0.008455459	3.274700379	
C14orf135	-0.403938252	0.008455459	-3.274739039	
FRRS1	-0.403894799	0.008463048	-3.274318092	
LOC100130507	0.403871208	0.008466794	3.274089563	
LHX3	0.403858766	0.008467838	3.273969044	
FLJ38379	0.403816491	0.008476119	3.273559548	
B3GNT1	0.403781087	0.008481762	3.273216634	
HGSNAT	-0.40376885	0.008481762	-3.273098115	
C20orf173	0.40377107	0.008481762	3.273119619	
C16orf82	0.403754325	0.008482233	3.272957435	
NAT8B	0.403742532	0.008482233	3.272843222	
CCDC48	0.403742613	0.008482233	3.272844006	
C14orf101	-0.40373019	0.008483258	-3.272723688	
ZDHHC5	-0.403686291	0.008490109	-3.272298554	
SPPL2A	-0.403685741	0.008490109	-3.27229322	
NEDD1	-0.403673461	0.00849112	-3.272174299	
FUT9	0.403629009	0.008499952	3.271743844	
INTS7	-0.403607211	0.008501424	-3.271532762	
ARL5A	-0.403598616	0.008501424	-3.271449541	
DHX33	-0.403599517	0.008501424	-3.271458265	
NKAIN3	0.403530043	0.00851614	3.270785583	
FLG2	0.40350402	0.008518949	3.270533633	
SPANXN4	0.403502293	0.008518949	3.270516915	
SLITRK1	0.40346936	0.008524999	3.270198071	
PAN3	-0.403432356	0.008526244	-3.269839847	
LOC100133404	0.403431838	0.008526244	3.269834824	yes
GIF	0.403452264	0.008526244	3.270032568	
NDUFA9	-0.403444381	0.008526244	-3.269956254	
MAPT	0.403414886	0.008528402	3.269670725	
SDCCAG1	-0.403380689	0.008534768	-3.269339687	
GLRA2	0.403335799	0.00854375	3.268905172	
MAGEE1	0.4033253	0.008544337	3.268803555	
C4orf6	0.403304901	0.008547342	3.268606108	

KRT32	0.403296165	0.008547499	3.268521559	
VASN	0.403275161	0.008549837	3.268318266	yes
PCDHGA4	0.403270412	0.008549837	3.268272301	
LPL	0.403257201	0.008551089	3.268144444	
C12orf33	0.403223169	0.008557431	3.267815081	
C6orf208	0.403193081	0.008562813	3.267523904	
BRWD1	-0.403138143	0.008570323	-3.266992273	
CTTNBP2NL	-0.403140535	0.008570323	-3.267015416	
TBRG1	-0.403139165	0.008570323	-3.267002162	
CTNND2	0.403127708	0.0085709	3.266891298	
MGC33894	0.403064796	0.008580374	3.266282569	
LRRC3	0.403064812	0.008580374	3.26628272	
C1orf14	0.403080527	0.008580374	3.266434773	
UAP1	-0.403053755	0.008581101	-3.26617574	
LOC100132728	-0.402987622	0.008585361	-3.265535913	
DBX1	0.403013639	0.008585361	3.265787616	
TTC39C	-0.402979891	0.008585361	-3.265461115	yes
DNAH8	0.403017646	0.008585361	3.265826382	
SLC39A5	0.402989243	0.008585361	3.265551592	
YJEFN3	0.402997201	0.008585361	3.265628584	
INO80D	-0.403003263	0.008585361	-3.265687228	
OR5M9	0.402957342	0.008586936	3.265242974	
RPL17	-0.402965234	0.008586936	-3.26531932	
TRIM40	0.402936505	0.008590069	3.265041396	
GIPC3	0.402910031	0.008594587	3.264785308	
KIAA1543	0.402836209	0.008610736	3.264071233	
ATP2A1	0.402827691	0.00861085	3.263988845	
FGF17	0.402807648	0.008613796	3.263794988	
CLEC6A	0.402771766	0.00862064	3.263447949	
IQSEC3	0.402752419	0.008623418	3.263260844	
KLHL5	-0.402715635	0.008628749	-3.262905102	
TTC35	-0.402714659	0.008628749	-3.262895671	
CTHRC1	0.40269574	0.008631425	3.262712714	

BXDC1	-0.402646904	0.008641225	-3.262240465	
LACRT	0.402631825	0.008641225	3.26209466	
TRIP11	-0.402639849	0.008641225	-3.26217225	
ITLN1	0.402609957	0.008644633	3.261883207	
CLCNKB	0.402570548	0.00865237	3.261502166	
PRR14	0.402531515	0.00866002	3.261124783	
ZNF480	-0.402496423	0.008666703	-3.26078552	
DPM1	-0.402447892	0.008676714	-3.260316358	
SMYD3	-0.402435286	0.008677844	-3.260194497	
DYRK1A	-0.402350177	0.008694936	-3.259371829	yes
KIAA0652	-0.402357474	0.008694936	-3.259442359	
SLC45A2	0.402335127	0.008696674	3.259226356	
ZNF267	-0.402284476	0.008707242	-3.258736819	
KIF18B	0.402259583	0.008709432	3.258496238	
DPPA4	0.402262292	0.008709432	3.258522426	
FAM108B1	-0.402238719	0.008710625	-3.258294609	
TLE4	-0.402244682	0.008710625	-3.25835224	yes
UBIAD1	0.402225666	0.008711872	3.258168466	
AZIN1	-0.402198979	0.008713912	-3.257910572	yes
SLC18A1	0.402201111	0.008713912	3.25793117	
KIAA0317	-0.402193374	0.008713912	-3.257856407	yes
VPS13A	-0.402111162	0.008713997	-3.257062008	
HPR	0.402112429	0.008713997	3.257074257	
IFNA10	0.402148477	0.008713997	3.257422571	
ASCL2	0.402176624	0.008713997	3.257694551	
ING3	-0.402139772	0.008713997	-3.257338449	
USP40	-0.402103408	0.008713997	-3.256987093	
RASGRF1	0.402096884	0.008713997	3.256924052	
T	0.402102167	0.008713997	3.256975097	
TOP2B	-0.402106786	0.008713997	-3.257019733	
PAAF1	-0.402106534	0.008713997	-3.257017292	
GTPBP10	-0.402149486	0.008713997	-3.257432314	
CDC16	-0.402116938	0.008713997	-3.257117823	

SAMD12	-0.402074283	0.00871762	-3.256705688
KERA	0.402048614	0.008722007	3.256457683
C14orf156	-0.402031469	0.008724279	-3.256292044
CMPK1	-0.401995684	0.008731184	-3.255946331
TRPM7	-0.401986775	0.00873141	-3.25586026
SNAP91	0.401946119	0.008739532	3.255467516
CCT2	-0.401878019	0.008745758	-3.254809708
OR2M3	0.401880838	0.008745758	3.254836941
ALCAM	-0.401905074	0.008745758	-3.255071038
OR2M4	0.401873155	0.008745758	3.254762729
RPL28	-0.40189642	0.008745758	-3.254987447
C6orf62	-0.401900171	0.008745758	-3.255023679
SNORA24	0.401862101	0.008746521	3.254655959
GPR45	0.401807342	0.008757151	3.254127077
APOH	0.401803451	0.008757151	3.254089495
MMP26	0.401785998	0.008759511	3.253920941
DAB2IP	0.401726871	0.008760333	3.253349931
AGXT	0.401762581	0.008760333	3.25369479
SGK3	-0.40173888	0.008760333	-3.253465899
FLJ43950	0.401751624	0.008760333	3.253588973
KCNK12	0.401747951	0.008760333	3.253553503
RNF34	-0.401730519	0.008760333	-3.253385158
REPS1	-0.401732007	0.008760333	-3.253399533
TNFSF11	0.401716088	0.008761035	3.253245805
GJA8	0.401688504	0.008765924	3.252979439
POLR3F	-0.401676565	0.008766915	-3.252864151
KCND1	0.401639538	0.008774164	3.252506617
ATF1	-0.401611734	0.008779115	-3.252238161
MRPL11	0.401585329	0.00878372	3.251983218
SDR16C5	-0.401544796	0.008791858	-3.251591882
HIPK1	-0.40151079	0.008796788	-3.251263586
DPP8	-0.401509158	0.008796788	-3.251247829
GPR17	0.401499797	0.008797139	3.25115746

KCNIP3	0.401476171	0.008801058	3.250929391	
FBXO41	0.401449439	0.008805756	3.250671342	
TDRD7	-0.401338588	0.008831542	-3.249601377	yes
ZNF131	-0.401316796	0.008835014	-3.249391051	
ASCC3	-0.401299843	0.008837273	-3.249227433	
KLF16	0.401271858	0.008842304	3.24895736	
SEC24B	-0.401254926	0.00884456	-3.248793958	
OR10Z1	0.401064742	0.008890447	3.246958864	
C21orf86	0.401052429	0.008891547	3.246840081	
CGGBP1	-0.401024425	0.00889661	-3.246569917	
ARPC4	-0.400963162	0.008909911	-3.245978929	
ATG2B	-0.400955887	0.008909911	-3.245908748	
GJB1	0.400944825	0.008910699	3.24580204	
C11orf53	0.400931202	0.008912134	3.245670633	
PROCA1	0.400899601	0.008916108	3.245365829	
C17orf59	0.400900604	0.008916108	3.2453755	
EFR3B	0.400828177	0.008932181	3.244676941	
ZNF831	0.40079477	0.008934342	3.244354764	
WDR7	-0.40077995	0.008934342	-3.244211837	
WDR70	-0.40078231	0.008934342	-3.244234594	
EXD2	-0.400809502	0.008934342	-3.244496842	
CACNA1B	0.400791293	0.008934342	3.244321233	
HDGFL1	0.400757501	0.008938021	3.243995348	
PPME1	-0.400740553	0.008940306	-3.243831918	
MS4A3	0.400730999	0.008940718	3.243739787	
PANX3	0.40069999	0.008940947	3.243440762	
NUP160	-0.400702475	0.008940947	-3.243464727	
C8orf82	0.400710393	0.008940947	3.24354108	yes
KCNK9	0.400698382	0.008940947	3.243425257	
ADCYAP1R1	0.400666974	0.008946903	3.243122415	
MIS12	-0.400655704	0.008947752	-3.243013741	yes
KCNS1	0.400643575	0.008948819	3.242896794	
ADAMTS20	0.400634656	0.008949073	3.242810798	

MRGPRE	0.400590575	0.008950216	3.242385801
OSR1	0.400621049	0.008950216	3.242679607
CD200R1L	0.400592866	0.008950216	3.242407887
CHST8	0.400611466	0.008950216	3.242587212
RDH16	0.400590933	0.008950216	3.242389246
ABHD13	-0.400557415	0.008956624	-3.242066103
FBLN7	0.400518496	0.008958474	3.241690906
CCDC80	-0.400527421	0.008958474	-3.241776948
NUBP1	-0.400519363	0.008958474	-3.241699268
SOHLH2	0.400525797	0.008958474	3.241761296
FAM187B	0.400489054	0.008962765	3.241407088
SHC2	0.400477894	0.008962765	3.241299509
KRTAP19-4	0.400478331	0.008962765	3.241303719
ZNF543	-0.400459019	0.008965553	-3.241117561
GLP2R	0.400381531	0.008983247	3.240370672
GATA2	0.400331674	0.00899393	3.239890159
TMEM145	0.400322784	0.008994183	3.239804479
ARV1	-0.400293656	0.008999593	-3.239523767
STRAP	-0.40025318	0.009005888	-3.239133706
KL	0.400259751	0.009005888	3.23919703
GPR44	0.400220872	0.009010103	3.23882237
MARCH5	-0.400228089	0.009010103	-3.238891915
PITRM1	-0.400212948	0.009010111	-3.238746022
AP1S2	0.400204941	0.009010142	3.238668861
TMEM138	-0.400171011	0.009016788	-3.238341925
KLHL30	0.400138449	0.009017964	3.238028186
TMEM106B	-0.400143852	0.009017964	-3.238080242
KBTBD4	-0.400134872	0.009017964	-3.237993725
CNDP1	0.40013844	0.009017964	3.238028106
PSMD12	-0.400096374	0.009025783	-3.237622816
CTSB	-0.400069958	0.00903052	-3.237368312
IFNA5	0.400014836	0.009040586	3.236837292
KRTAP12-1	0.400015121	0.009040586	3.236840042

GUCA2B	0.399980837	0.009047271	3.236509782	
BMP3	-0.399958663	0.009050933	-3.23629619	
C17orf66	0.399933191	0.00905544	3.236050831	
FLJ44817	0.399898241	0.009062379	3.2357142	
CTXN3	0.399858889	0.009068741	3.235335188	
RPAP3	-0.399857689	0.009068741	-3.23532363	
TRIM32	-0.399820098	0.009071872	-3.234961601	
GATA3	0.399835853	0.009071872	3.235113333	
SERPINF2	0.399826801	0.009071872	3.235026154	
CLIP4	-0.399814019	0.009071872	-3.234903052	
LPAR4	0.399802097	0.009072914	3.234788236	yes
CSTF1	-0.399792558	0.009073344	-3.234696383	
TAS2R1	0.399757442	0.00908034	3.23435821	
IL1F7	0.399731618	0.009084954	3.234109538	
GRIP2	0.399710506	0.009087242	3.233906249	
MEGF11	0.399706995	0.009087242	3.233872445	
POF1B	-0.399682074	0.009091627	-3.233632487	
RNF160	-0.399670048	0.0090927	-3.233516687	
BIN1	0.399607852	0.009106677	3.232917859	
RNF115	-0.399574942	0.009107307	-3.232601027	
MTRR	-0.39957383	0.009107307	-3.232590325	
LSG1	-0.399558319	0.009107307	-3.232440999	
BMP2K	-0.399577378	0.009107307	-3.232624477	
HSDL2	-0.399561663	0.009107307	-3.23247319	
RSPO3	0.399585058	0.009107307	3.23269841	
TMEM159	-0.399542871	0.009109264	-3.232292276	
RAVER1	0.399508803	0.009114065	3.231964325	
F5	0.399492866	0.009114065	3.231810909	
IARS	-0.399494045	0.009114065	-3.23182226	
TMEM209	-0.399505458	0.009114065	-3.231932124	
MKKS	-0.399442384	0.009125052	-3.231324986	
DEFB113	0.399379176	0.009139335	3.230716612	
WDR61	-0.399320376	0.009152498	-3.23015072	

C1orf146	0.399282405	0.009160289	3.229785306	
PCBD2	-0.399263016	0.009161252	-3.229598727	
TTLL4	-0.399270085	0.009161252	-3.229666756	
MTPAP	-0.399253218	0.009161761	-3.229504446	
ADIG	0.399235355	0.009164357	3.229332551	
CKMT2	0.399204264	0.009168398	3.22903339	
DLX5	0.399204084	0.009168398	3.229031658	
LOC100133396	0.399187548	0.009170653	3.228872541	
RAB10	-0.399165419	0.009171604	-3.228659622	
OR6M1	0.399160406	0.009171604	3.228611395	
ZNF75D	-0.399163025	0.009171604	-3.228636593	
ATE1	-0.399140603	0.009174707	-3.228420858	
GRASP	0.399102296	0.009182604	3.22805231	yes
NECAB2	0.399052665	0.009193444	3.227574843	
HCG9	0.399014216	0.009195169	3.227204979	
DBT	-0.399018144	0.009195169	-3.227242761	
GALNT3	-0.398983526	0.009195169	-3.22690976	
CEP192	-0.398985218	0.009195169	-3.226926034	
OGDHL	0.39902741	0.009195169	3.227331897	
RPL34	-0.399005405	0.009195169	-3.227120215	
NSUN3	-0.398984679	0.009195169	-3.226920853	
SOAT2	0.39903072	0.009195169	3.227363737	
SNORA13	0.398965564	0.009197804	3.22673698	
WHSC1L1	-0.398955357	0.009198428	-3.226638804	
DEFB127	0.398883298	0.009214733	3.225945732	
CYP3A7	0.398876953	0.009214733	3.225884708	
LOC100129434	0.398862561	0.009216447	3.225746292	
TMEM85	-0.398842427	0.009219653	-3.22555265	
MFSD6	-0.39883343	0.009219965	-3.225466133	
ELP3	-0.398812251	0.009223444	-3.225262453	
C1GALT1	-0.398791591	0.00922679	-3.225063779	
LOC100131928	0.398757778	0.009232615	3.224738623	
ARPC2	-0.398704656	0.009232615	-3.224227825	

OSBPL11	-0.398689493	0.009232615	-3.224082024	
FAM91A1	-0.398672848	0.009232615	-3.223921987	
ESRRB	0.398668	0.009232615	3.223875377	
KRT79	0.398669447	0.009232615	3.223889291	
ZBTB41	-0.398695384	0.009232615	-3.224138671	
NFKB1	-0.398683511	0.009232615	-3.224024508	
PPP1CB	-0.398670729	0.009232615	-3.223901618	
ARL8B	-0.398701246	0.009232615	-3.224195035	
SLC30A10	0.398726324	0.009232615	3.224436173	
C9	0.398668889	0.009232615	3.223883923	
KRTAP3-3	0.398707659	0.009232615	3.224256694	
AGER	0.398625091	0.009239736	3.223462832	
INTS8	-0.398625243	0.009239736	-3.223464295	
ETFA	-0.398562478	0.009250746	-3.222860883	
DKFZp434E1119	0.398574974	0.009250746	3.222981011	
PNPLA8	-0.398556917	0.009250746	-3.222807426	
LINGO3	0.398551744	0.009250746	3.222757699	
ATP6AP2	-0.398490516	0.009264687	-3.222169127	
INTS10	-0.398472881	0.009267263	-3.221999617	
ANK3	-0.3984555	0.009268414	-3.221832548	yes
LYAR	-0.398445177	0.009268414	-3.221733329	
OPALIN	0.398448428	0.009268414	3.221764575	
IWS1	-0.398398816	0.009278494	-3.22128773	
ANKRD55	0.398373793	0.009283005	3.221047242	
MLLT4	-0.398334809	0.00928914	-3.220672587	yes
KIAA0232	-0.398337307	0.00928914	-3.220696591	yes
C10orf18	-0.398322831	0.009290244	-3.220557476	
PCSK5	-0.398303998	0.009293142	-3.22037649	yes
LOC388931	0.398273412	0.009297663	3.22008257	
ZBTB24	-0.39827121	0.009297663	-3.220061418	
LEPROTL1	-0.398235211	0.009298972	-3.219715502	
KCNJ5	0.398236245	0.009298972	3.219725433	
CBLL1	-0.398247452	0.009298972	-3.219833117	yes

RBM39	-0.398257824	0.009298972	-3.219932782
ETV2	0.398224056	0.009299865	3.219608311
LYZL2	0.39820191	0.009303466	3.219395519
ETV5	0.398188104	0.009303466	3.219262867
TPR	-0.398187072	0.009303466	-3.219252952
LYZ	0.398173982	0.009304866	3.21912718
C19orf46	0.3981544	0.009307968	3.21893904
MS4A6E	0.398116404	0.009315895	3.218573993
SAMD8	-0.398081711	0.009321118	-3.218240706
PNPLA1	0.398073274	0.009321118	3.218159647
AFF3	0.398074835	0.009321118	3.21817465
LOC100130633	-0.398036599	0.009326681	-3.217807336
ST6GALNAC5	0.398043781	0.009326681	3.217876323
LOC284837	0.398015653	0.009328121	3.217606132
C10orf31	0.398017627	0.009328121	3.217625087
TICAM1	0.397991602	0.00932835	3.217375104
RUSC1	0.397993953	0.00932835	3.217397688
MTMR9	-0.397998154	0.00932835	-3.217438042
DYNC1LI1	-0.397936857	0.009340693	-3.216849267
CLEC4C	0.397923157	0.009342263	3.21671769
C1orf118	0.397888886	0.009349239	3.216388539
IPO8	-0.397870104	0.009350118	-3.216208152
PRKAG3	0.397873911	0.009350118	3.216244718
ZNF821	0.397848737	0.009353706	3.216002953
CTDSPL2	-0.397837366	0.009354667	-3.215893746
LILRA3	0.397818396	0.009357627	3.215711571
ZNF621	-0.397779881	0.009365732	-3.21534172
OR1I1	0.397739088	0.009371849	3.214950009
LOC51145	0.397748183	0.009371849	3.215037339
SEBOX	0.397733512	0.009371849	3.214896473
H3F3B	-0.397678817	0.009382198	-3.214371306
OPA1	-0.397686326	0.009382198	-3.214443402
OR6C6	0.39764565	0.009386879	3.214052867

TTY13	0.397646764	0.009386879	3.214063567	
CYP11B1	0.39761893	0.009391895	3.213796339	
NHLH1	0.397587869	0.009398059	3.21349815	
RAMP3	0.397529083	0.009408011	3.212933829	
METTL6	-0.397527082	0.009408011	-3.212914618	
FGB	0.397531768	0.009408011	3.212959604	
OR4N5	0.39742873	0.009428031	3.211970583	
C14orf53	0.397438376	0.009428031	3.212063162	
UNKL	0.397428283	0.009428031	3.211966295	yes
IRAK4	-0.397412032	0.009428709	-3.211810318	
SOD3	0.397410332	0.009428709	3.211794004	
PIP5K1A	-0.397391349	0.009431697	-3.211611816	
PRSS21	0.397368888	0.009435608	3.211396256	
ADSS	-0.397304368	0.009444554	-3.210777079	
hCG_1645727	0.397307233	0.009444554	3.210804569	
ABHD5	-0.397306358	0.009444554	-3.210796173	
TCEB1	-0.397308717	0.009444554	-3.210818818	
FLNB	-0.397247984	0.009453392	-3.210236028	
OPCML	0.397249352	0.009453392	3.210249154	
DUSP13	0.397253748	0.009453392	3.210291336	
MRS2	-0.397163239	0.009473708	-3.209422923	
CHPF	0.397156098	0.009473708	3.209354406	
AQP6	0.397119714	0.009479297	3.20900534	
MST150	0.397126434	0.009479297	3.209069809	
BZW1	-0.397108941	0.00948012	-3.208901989	
CDH18	0.397090673	0.009482936	3.208726736	
RAB3GAP2	-0.397016669	0.009497759	-3.208016831	
MTM1	-0.397004276	0.009497759	-3.20789796	
FAM48A	-0.397012679	0.009497759	-3.20797856	
STYX	-0.397008656	0.009497759	-3.207939973	
SFRS7	-0.396991741	0.009499054	-3.207777728	
HCRTR2	0.396980035	0.009500129	3.207665446	
ZDHHC19	0.396965299	0.009502012	3.207524096	

SIGLEC9	0.396947584	0.009503039	3.207354185	
P11	0.396946113	0.009503039	3.207340074	
EBF3	0.39693323	0.009504429	3.207216517	yes
PSMA1	-0.396906463	0.00950952	-3.206959791	
CLEC4M	0.396897093	0.009509975	3.20686993	
GLYAT	0.39687654	0.00951137	3.206672812	
PTCD2	-0.396877186	0.00951137	-3.20667901	
C8orf40	-0.396861017	0.009513467	-3.20652394	
RGNEF	-0.396837295	0.009517751	-3.206296451	
RTN1	0.396766097	0.009534713	3.205613709	
KRTAP10-9	0.396755899	0.009535392	3.205515923	
HEPN1	0.396745945	0.009536006	3.20542048	
G3BP2	-0.396727258	0.009538955	-3.205241299	
BCL6B	0.396716123	0.009539886	3.205134536	
MBTPS1	-0.396689284	0.009545015	-3.204877196	
ZNF507	-0.39667524	0.00954577	-3.204742547	yes
MOBKL1B	-0.396671164	0.00954577	-3.20470347	
SKP1	-0.396648614	0.009549756	-3.204487276	
MORF4L2	-0.396623438	0.009554445	-3.204245907	yes
ERO1L	-0.396594474	0.009554706	-3.203968239	
C1orf141	-0.396599991	0.009554706	-3.204021124	
CHST1	0.396606217	0.009554706	3.204080812	
RHBDL1	0.396591897	0.009554706	3.203943529	
ZNF252	-0.396572135	0.009557951	-3.203754084	
RTP2	0.396550392	0.009559682	3.203545654	
POU2F2	0.396553981	0.009559682	3.203580058	
FUT1	0.396525597	0.009562233	3.203307976	
CEP78	-0.396532639	0.009562233	-3.203375479	
UGT3A1	0.396480397	0.009572295	3.20287472	
CMAH	-0.396450999	0.009578129	-3.202592952	
INHBC	0.396404093	0.00958756	3.202143393	
PTCH2	0.396400578	0.00958756	3.202109705	
AP3B2	0.396367809	0.009594307	3.201795656	

CCR5	0.396330218	0.009600306	3.20143541
ZBTB47	0.39633656	0.009600306	3.20149618
KRTAP13-3	0.39630076	0.009606173	3.201153124
IPO5	-0.396265437	0.00961362	-3.200814643
OR10AD1	0.396185096	0.009629119	3.200044857
C9orf141	0.396198781	0.009629119	3.200175971
LTF	0.396184978	0.009629119	3.200043723
NAPEPLD	-0.396145552	0.009636651	-3.199665989
SPATA22	0.39614178	0.009636651	3.199629853
CDC42EP2	0.396095608	0.009645193	3.199187523
SNAI3	0.396088709	0.009645193	3.199121429
C14orf104	-0.396087244	0.009645193	-3.199107396
LOC388199	0.396071	0.00964752	3.198951786
CPXCR1	0.396048626	0.009651502	3.198737463
RUFY3	-0.395980711	0.009667785	-3.198086925
FGFBP3	0.395961777	0.009670845	3.197905572
PPM1J	0.395919833	0.009679959	3.197503842
NUP133	-0.395912849	0.009679959	-3.197436957
LCN12	0.395863207	0.009691335	3.196961527
HIC1	0.395816905	0.009701818	3.196518127
IL2RA	0.395801522	0.009703925	3.196370819
ABCA5	-0.395780032	0.009707689	-3.196165043
SLC39A4	0.395744298	0.009713971	3.195822873
KIRREL2	0.395741665	0.009713971	3.195797664
CDK8	-0.395705715	0.009721664	-3.195453451
UBR1	-0.395645691	0.009735453	-3.194878775
NOS3	0.395639754	0.009735453	3.194821933
CTBS	-0.395561941	0.00973691	-3.194077019
DUSP9	0.395622761	0.00973691	3.194659249
APEX1	-0.395597307	0.00973691	-3.19441557
OR6C65	0.395570639	0.00973691	3.194160286
DDI1	0.395566134	0.00973691	3.194117163
ATP1A1	-0.39560482	0.00973691	-3.194487498

yes

GOLPH3L	-0.395558454	0.00973691	-3.194043644	yes
SMURF2	-0.395587085	0.00973691	-3.194317723	
KCNK16	0.395596089	0.00973691	3.194403914	
CDC42BPA	-0.395591245	0.00973691	-3.194357545	
AGTR1	0.39553752	0.009740539	3.19384325	
APOB	0.395525797	0.009741664	3.193731039	
C8orf76	-0.395488976	0.009749617	-3.193378594	
OR5R1	0.395471577	0.009752288	3.193212059	
MKRN2	-0.395454228	0.009752883	-3.19304601	
FLJ42258	0.395456672	0.009752883	3.193069398	
HTR1B	0.395439733	0.009754765	3.192907277	
PSMC2	-0.395425056	0.009756698	-3.192766806	
OR1L1	0.395413206	0.009757862	3.192653394	
LDB3	0.395378105	0.00975958	3.192317457	
C21orf84	0.395391166	0.00975958	3.192442453	
MAL2	-0.395369034	0.00975958	-3.192230649	yes
HMHA1	0.395387845	0.00975958	3.192410673	
RCBTB1	-0.395372937	0.00975958	-3.192267999	
HPD	0.395339692	0.009763887	3.191949853	
ACY3	0.395338083	0.009763887	3.191934453	
ZNF791	-0.395314799	0.009768169	-3.191711637	
ROPN1	0.395294135	0.009771739	3.191513899	
C20orf79	0.395222566	0.009789197	3.190829094	
NES	0.395184287	0.009797584	3.190462854	yes
PCNX	-0.395164398	0.009799042	-3.190272564	
NPSR1	0.395148709	0.009799042	3.190122469	
C10orf108	0.395158017	0.009799042	3.190211511	
SDR42E1	-0.395149335	0.009799042	-3.190128453	
TM9SF4	-0.395118765	0.00980516	-3.189835992	
GGNBP1	0.395084697	0.009812408	3.18951009	
LOC100129940	0.395047009	0.009820653	3.18914957	
DDX6	-0.395003219	0.009828506	-3.188730694	
DHX8	-0.395010069	0.009828506	-3.188796218	

DTX1	0.394986194	0.009831101	3.188567851
LY75	-0.394952768	0.009838191	-3.188248151
RINL	0.394939664	0.009839713	3.188122815
ZNF717	-0.394921172	0.009842714	-3.187945957
CPAMD8	0.394877104	0.009852732	3.187524503
GPR107	-0.394852627	0.009857379	-3.187290428
SLC33A1	-0.394835128	0.009860112	-3.187123081
MAN1C1	0.394815914	0.009863317	3.18693934
NCRNA00086	0.394803953	0.009864531	3.186824966
MED23	-0.394754122	0.009876154	-3.186348481
TEAD2	0.394743999	0.009876864	3.186251688
SH2D3C	0.394712677	0.009883406	3.185952202
CDH17	0.394672887	0.009892284	3.185571772
ZNF766	-0.394570862	0.009918333	-3.184596423
RPRD1A	-0.394562163	0.009918653	-3.184513266
GABRR3	0.394516336	0.009929227	3.184075212
USP29	0.394461032	0.009942431	3.183546604
CALM1	-0.394450901	0.009943148	-3.183449778
ZNF689	0.394380296	0.00995718	3.182774984
KRT72	0.394372422	0.00995718	3.182699739
ELMOD2	-0.394364255	0.00995718	-3.182621687
KRT9	0.394392358	0.00995718	3.182890264
ZNF469	0.39436253	0.00995718	3.182605208
C20orf134	0.394335384	0.009962614	3.182345785
CXorf65	0.394316975	0.009965628	3.18216987
RNASEK	-0.394271198	0.009976232	-3.181732451
C15orf58	-0.39425191	0.009978118	-3.181548147
TRIM37	-0.394241818	0.009978118	-3.181451719
TUBA3C	0.394246222	0.009978118	3.181493802
PPHLN1	-0.394207713	0.009985495	-3.181125854
AADA4L4	0.394187468	0.009989026	3.180932431
RPP38	-0.394139005	0.009992043	-3.180469423
F13B	0.394161037	0.009992043	3.180679912

yes

POLR2B	-0.394162179	0.009992043	-3.180690825	
C1orf191	0.394145061	0.009992043	3.180527284	
TSC22D1	-0.394149699	0.009992043	-3.180571594	
C19orf60	0.39410972	0.00999809	3.180189657	
FYTTD1	-0.394100952	0.009998439	-3.180105896	yes
EME2	0.394017118	0.010018548	3.179305076	
GPR4	0.394013616	0.010018548	3.179271622	
CD300LF	0.393984407	0.010024588	3.178992635	
C1orf25	-0.393957636	0.010029953	-3.178736932	yes
GPIHBP1	0.393948133	0.010030508	3.17864617	
GPR120	0.39393939	0.010030852	3.178562668	
OR4D5	0.393927432	0.010032092	3.17844846	
OTOL1	0.393890706	0.010040236	3.178097713	
C1orf124	-0.393870659	0.010043734	-3.177906256	
LCE3C	0.393786493	0.010065136	3.17710253	
OR1J4	0.393771222	0.010067306	3.176956708	
ORC2L	-0.393713247	0.01007692	-3.176403153	
LARS	-0.393709579	0.01007692	-3.176368133	
LOC65998	0.393706828	0.01007692	3.176341865	
HIST3H3	0.393710054	0.01007692	3.176372669	
MAGEB16	0.393688605	0.01007992	3.176167883	
ZNF576	0.393663403	0.010082776	3.17592727	
OR2H2	0.393670432	0.010082776	3.175994374	
TMEM66	-0.393648325	0.010084898	-3.175783319	
C4orf36	-0.393617576	0.010087213	-3.175489763	
PAP2D	0.393631794	0.010087213	3.175625502	
C12orf4	-0.393622678	0.010087213	-3.175538473	
RNF11	-0.393607209	0.010088018	-3.175390802	
PRPS1	-0.393581424	0.010093141	-3.175144646	
FAM24A	0.393556746	0.010097956	3.174909072	
MYO1B	-0.39354661	0.010098698	-3.174812321	
C19orf54	0.393535259	0.010099781	3.174703965	
RAB3A	0.393523479	0.010100985	3.174591527	

FLJ42957	0.393500249	0.010105398	3.174369794	yes
SPEG	0.393477003	0.010109818	3.174147909	yes
L1TD1	0.393464499	0.010111227	3.174028568	
SH3D19	-0.393452723	0.010112431	-3.173916175	
OR52I2	0.393415424	0.010120798	3.173560188	
PPP1R3A	0.393390956	0.010125568	3.173326672	
STAG2	-0.393381342	0.010126168	-3.173234925	
TMC8	0.393318554	0.010141709	3.172635735	
AOF1	-0.393306253	0.010143066	-3.172518352	
NPAS3	0.393298228	0.010143221	3.17244178	
GARNL1	-0.393248562	0.010151306	-3.171967871	
TXNDC12	-0.393243424	0.010151306	-3.171918839	
GPR135	0.393240241	0.010151306	3.171888475	
CA2	0.393239599	0.010151306	3.171882345	
OR5AS1	0.39321232	0.010152694	3.171622071	
EIF2AK1	-0.393189882	0.010152694	-3.171407988	
LCE3E	0.39320123	0.010152694	3.17151626	
GPR84	0.393205883	0.010152694	3.171560654	
DERL1	-0.393220977	0.010152694	-3.171704668	
FAM20B	-0.393192248	0.010152694	-3.171430562	
ZNF426	-0.393164231	0.010156946	-3.171163257	
FATE1	0.393159853	0.010156946	3.171121496	
OPRD1	0.393132723	0.010160385	3.170862661	
SNIP1	0.393139267	0.010160385	3.170925095	
MMAA	-0.393074416	0.01017471	-3.170306433	
LOC100129969	0.393044566	0.010174721	3.170021694	
ADAM5P	0.393054533	0.010174721	3.170116768	
C2CD3	-0.3930488	0.010174721	-3.170062074	
HINT1	-0.393065768	0.010174721	-3.170223935	
PRPF38A	-0.393021964	0.010178993	-3.169806091	
CBS	0.393014274	0.010179061	3.169732746	
LILRB1	0.392934521	0.010199274	3.168972066	
C1QTNF8	0.392920951	0.010199274	3.16884264	

PRDM16	0.392920301	0.010199274	3.168836441	
IMPA1	-0.392893186	0.010204831	-3.168577841	yes
RFWD2	-0.39286722	0.010210065	-3.168330216	
CSAG1	0.392805519	0.010224069	3.167741823	
NAT13	-0.392802825	0.010224069	-3.167716134	
TXNDC9	-0.39277371	0.010225772	-3.167438508	
C15orf32	0.392778302	0.010225772	3.167482294	
CCDC9	0.392767053	0.010225772	3.167375028	yes
OTC	0.392769291	0.010225772	3.167396373	
BZRPL1	0.392737513	0.010226132	3.167093363	
DKKL1	0.392736045	0.010226132	3.167079367	
C17orf76	0.392737959	0.010226132	3.167097621	
LOC440015	0.392756368	0.010226132	3.167273146	
KPTN	0.392714532	0.010230118	3.16687425	
UGP2	-0.392670171	0.010240578	-3.166451306	
A1BG	0.392614045	0.010252729	3.165916227	yes
CLLU10S	0.392603304	0.010252729	3.165813823	
IFT80	-0.392590176	0.010252729	-3.165688683	
SYT16	0.392604598	0.010252729	3.165826161	
SLAMF9	0.392596294	0.010252729	3.165746999	
ALDH1L1	0.3925354	0.010259286	3.165166527	
ASPRV1	0.392531365	0.010259286	3.165128068	
PXT1	0.392556468	0.010259286	3.165367357	
FGR	0.392536723	0.010259286	3.165179137	
ANKRD17	-0.392529961	0.010259286	-3.16511468	
DIABLO	-0.392512517	0.010262131	-3.164948406	
FAM43B	0.392481996	0.01026869	3.164657487	
MPV17L	0.392425331	0.010281759	3.164117417	
RASGEF1C	0.392421168	0.010281759	3.164077739	
CD160	0.392338665	0.010303124	3.163291478	
SMCR7	0.39230543	0.010303536	3.162974769	
ITLN2	0.39232262	0.010303536	3.163138574	
LDHAL6A	0.392300164	0.010303536	3.162924595	

SLC39A6	-0.392310462	0.010303536	-3.16302272	
TEX13A	0.392300195	0.010303536	3.162924886	
RGS19	0.392287784	0.010304953	3.162806621	
PPY2	0.39226994	0.010307926	3.162636587	
HESX1	0.392205932	0.010324061	3.16202671	
ST8SIA6	0.392162541	0.010332217	3.161613304	
AQR	-0.392167072	0.010332217	-3.161656474	
UCHL5	-0.392143752	0.010335467	-3.161434301	
PFN2	-0.39213391	0.010336164	-3.161340537	
SLC25A40	-0.392118937	0.010338327	-3.161197894	
WDR82	-0.39207914	0.010347582	-3.160818773	
CRLF3	-0.392010228	0.010365174	-3.160162344	
FAM82B	-0.391919837	0.010388191	-3.159301404	
CDKN2AIP	-0.391915092	0.010388191	-3.159256217	
ZIM2	0.391896428	0.010391422	3.159078458	
ZNF701	-0.391878269	0.010394509	-3.158905527	
MMP19	0.39185875	0.010395867	3.158719635	
SLC10A3	0.391861734	0.010395867	3.158748057	
AMACR	-0.391818365	0.010405337	-3.158335052	
TERF2IP	-0.391808928	0.010405924	-3.158245194	
EGFL7	0.39178285	0.010411292	3.157996861	yes
CITED4	0.39176346	0.010414739	3.157812237	
RFX7	-0.391747068	0.01041725	-3.157656147	
PLBD1	-0.39173995	0.01041725	-3.157588379	
GABRG2	0.391633808	0.010443539	3.156577811	
OR13J1	0.391639762	0.010443539	3.156634496	
CD248	0.391548981	0.010465866	3.155770287	
GAL3ST3	0.39152356	0.010471072	3.155528307	
FLJ41649	0.391467859	0.010485029	3.154998121	
FBXW11	-0.391434203	0.010492624	-3.154677789	
NOL11	-0.391391638	0.010502803	-3.154272686	
LRP5L	0.39136572	0.01050817	3.154026027	
SSTR1	0.391341695	0.010510852	3.153797399	

GDPD5	0.391342141	0.010510852	3.153801645	
FLJ40292	0.391317402	0.010515752	3.153566217	
DIS3	-0.39127899	0.010520835	-3.153200701	
CLDN11	0.391277728	0.010520835	3.153188694	yes
VPS13C	-0.391282249	0.010520835	-3.153231707	
PDE6A	0.391258241	0.010524346	3.153003267	
FLJ40235	0.39125045	0.010524467	3.152929128	
ERMP1	-0.391217623	0.010530231	-3.152616782	
ACVRL1	0.391215829	0.010530231	3.152599712	yes
OR51I2	0.391205823	0.010530995	3.15250451	
ESR2	0.391176878	0.010533546	3.152229116	
OR1S2	0.39117812	0.010533546	3.152240935	
MMP17	0.391174926	0.010533546	3.152210548	
WFDC10B	0.391154026	0.010536049	3.152011701	
TTF1	-0.39115157	0.010536049	-3.151988335	
KIF7	0.391078818	0.010552182	3.151296226	
TAT	0.391073916	0.010552182	3.151249593	
ZFYVE16	-0.391075656	0.010552182	-3.151266147	
PEX16	0.391061197	0.010553739	3.151128603	
LRRC8B	-0.391022547	0.010560695	-3.150760941	yes
PPP1R1B	0.391024643	0.010560695	3.150780884	
CYP20A1	-0.391006315	0.010562335	-3.150606541	
HKDC1	0.391002192	0.010562335	3.150567327	
FAM107A	0.390973523	0.010568534	3.150294634	
OR2C1	0.390926972	0.010579942	3.149851883	
RBM26	-0.390916195	0.010580939	-3.149749383	
GBA3	0.390863124	0.010594259	3.149244656	
NRGN	0.390824162	0.010603477	3.148874138	yes
TTC7B	0.390799481	0.010608533	3.148639437	
LIMS1	-0.390788672	0.010609543	-3.148536651	
POPDC3	0.390776855	0.010610847	3.148424288	
ACTL6B	0.390746357	0.010617606	3.148134285	
SMAD4	-0.390730729	0.010620024	-3.147985688	

MT1H	0.390708237	0.010624449	3.147771834
NRIP1	-0.39069194	0.010627065	-3.147616883
ALDH1A2	0.390682988	0.010627535	3.147531773
LTA4H	-0.390673234	0.01062824	-3.147439029
GPD1L	-0.390651154	0.010630403	-3.147229106
OR1L3	0.390654221	0.010630403	3.147258264
OR51S1	0.390598303	0.010636673	3.146726658
RFX6	0.390611172	0.010636673	3.146849005
FAM184B	0.390594914	0.010636673	3.146694441
MYBPC1	0.390611148	0.010636673	3.146848769
SFRS2IP	-0.390593027	0.010636673	-3.146676504
BPNT1	-0.390567581	0.010641971	-3.146434606
F2RL1	-0.390515866	0.01065373	-3.145943014
RAN	-0.390512742	0.01065373	-3.145913319
DHX29	-0.390496771	0.01065626	-3.145761506
RBM4	-0.39045873	0.010663246	-3.145399926
BLZF1	-0.39045827	0.010663246	-3.145395555
NEDD8	-0.390428787	0.010667058	-3.145115332
TRPM8	0.390423287	0.010667058	3.145063061
SHARPIN	0.390424726	0.010667058	3.145076737
C9orf45	-0.39037287	0.010679695	-3.144583906
ZFYVE9	-0.390325739	0.010691381	-3.144135999
PYY	0.390296358	0.010697861	3.143856803
KIAA0020	-0.390288716	0.010697955	-3.143784187
LOC645605	0.390258677	0.010704633	3.143498741
EIF2B1	-0.390196173	0.010720868	-3.142904848
CIRH1A	-0.390143262	0.010734297	-3.142402143
CAGE1	0.3900859	0.010748037	3.1418572
LIPA	-0.39008155	0.010748037	-3.141815871
COG7	-0.390074708	0.010748037	-3.141750876
ELOVL1	-0.390033321	0.010758093	-3.141357725
EBNA1BP2	-0.389992386	0.01076186	-3.140968885
KRTAP7-1	0.389999557	0.01076186	3.141037003

CD300E	0.390008135	0.01076186	3.141118486	
ANKRD7	0.389991307	0.01076186	3.140958635	
CREG2	0.38997581	0.010764278	3.140811435	
POU5F1P1	0.389900196	0.01078447	3.140093266	
SPTBN5	0.389816332	0.01080714	3.139296826	
PIPOX	0.389803016	0.010808921	3.139170369	
CRCP	-0.389773346	0.010815551	-3.138888627	
PRG2-2	0.389750213	0.010820246	3.138668968	
PRLR	0.389728187	0.010824613	3.138459825	
OPRL1	0.389706305	0.010828941	3.138252049	
HRG	0.389643448	0.010845445	3.13765526	
MAGEB17	0.389634422	0.010845957	3.137569563	
C20orf160	0.38957688	0.010860902	3.137023285	yes
CTRC	0.389548247	0.010866355	3.136751481	
KIAA1370	-0.389543958	0.010866355	-3.136710762	
BRUNOL4	0.389511821	0.010871079	3.1364057	
WDR77	-0.389508592	0.010871079	-3.136375049	
TAX1BP1	-0.389506195	0.010871079	-3.136352295	yes
ZNF326	-0.389481753	0.010876186	-3.13612029	
BEND3	0.389468795	0.010877873	3.135997299	
VWA5A	-0.389441713	0.010883771	-3.135740246	
MAP3K7	-0.389430154	0.010885043	-3.135630536	
CXADR	-0.389399241	0.010891995	-3.135337139	
LOC257039	0.389392258	0.010891995	3.135270864	
SPTBN4	0.389356947	0.010900357	3.134935749	
NUDT5	-0.389257439	0.010927751	-3.133991448	
PDGFRL	0.389250709	0.010927751	3.133927586	
CGREF1	0.389229694	0.010931857	3.13372818	
NARS2	-0.389220818	0.010932332	-3.133643965	
SEPHS1	-0.389205167	0.010934786	-3.133495459	
DYNLL1	-0.389198045	0.010934786	-3.133427882	
HTR3D	0.389183069	0.010937088	3.133285791	
C2orf63	-0.389058689	0.01096783	-3.132105773	

HSD17B1	0.389058656	0.01096783	3.132105455	
RLF	-0.389063777	0.01096783	-3.132154041	
SUV420H1	-0.389038967	0.010971554	-3.131918684	
SPAST	-0.388976006	0.01098828	-3.131321452	
FBXO3	-0.388917775	0.011003604	-3.13076914	
TH1L	-0.388879054	0.01101307	-3.130401894	
ORC5L	-0.388852783	0.011013404	-3.130152739	
DDX47	-0.388848824	0.011013404	-3.1301152	
C10orf11	0.388852562	0.011013404	3.130150649	
CLDN9	0.388866587	0.011013404	3.130283659	
IPMK	-0.388794103	0.011027702	-3.129596257	yes
STIL	-0.388783009	0.011028853	-3.129491058	
SLCO1B1	0.388742171	0.011033347	3.129103805	
C8orf74	0.388739312	0.011033347	3.129076695	
ZNF444	0.388741779	0.011033347	3.12910009	
DNM1P34	0.388739014	0.011033347	3.129073871	
OR7G3	0.388728768	0.011034244	3.128976716	
PROCR	0.388700025	0.011040723	3.128704185	
CPNE3	-0.388690212	0.011041491	-3.128611134	
KIAA1881	0.388670758	0.011045169	3.128426688	
BTBD9	-0.388655811	0.011047488	-3.128284973	yes
NDUFA5	-0.388637536	0.011048648	-3.1281117	
WNK1	-0.388637442	0.011048648	-3.128110816	
NAT6	0.388609828	0.011054794	3.127849009	
GTF2H1	-0.38856752	0.011065385	-3.127447918	
DENND2C	-0.388535705	0.011072811	-3.127146319	
SH2D2A	0.388487448	0.011085218	3.126688883	
MAZ	0.388466631	0.011089324	3.126491556	
TRUB1	-0.388455017	0.011090643	-3.126381479	
ERCC6	-0.388372675	0.011111206	-3.125601035	
SYT7	0.38837309	0.011111206	3.125604974	
RNFT1	-0.38835395	0.011114686	-3.125423571	
FBXO18	-0.388325207	0.011121208	-3.125151173	

XPNPEP1	-0.388304709	0.01112523	-3.124956927	
CTSS	-0.388290925	0.011127213	-3.124826303	
RUNX3	0.388277515	0.011129083	3.124699222	
SERINC5	-0.388243118	0.011137333	-3.12437328	
FAM150B	0.3881805	0.011154175	3.123779949	
SLC17A8	0.388139842	0.011164348	3.123394727	
ZSWIM6	-0.388114379	0.011165525	-3.123153479	
ACD	0.388114231	0.011165525	3.12315208	
BFSP2	0.388121499	0.011165525	3.123220938	
C10orf78	-0.388068757	0.011177176	-3.122721264	
SQLE	-0.388041605	0.011183247	-3.122464049	
USP46	-0.387954706	0.011207569	-3.121640892	yes
GSPT1	-0.387917102	0.011214834	-3.121284715	
PPP1R7	-0.387916452	0.011214834	-3.121278555	
ATXN7L2	0.387896087	0.011218847	3.121085668	
ZNF548	-0.387876334	0.011222674	-3.120898591	
HNRNPU	-0.387852905	0.011227628	-3.120676692	
CRYBB2	0.38780815	0.011239116	3.120252843	
XCL1	0.387735599	0.011256919	3.119565816	
SPACA1	0.387740575	0.011256919	3.119612934	
CCR9	0.387721267	0.011257324	3.119430099	
LCE2B	0.38771722	0.011257324	3.119391782	
BCCIP	-0.387712562	0.011257324	-3.119347679	
RP11-429E11.3	0.387639182	0.011262592	3.118652879	
CCT7	-0.387638951	0.011262592	-3.118650698	
RUNDC3A	0.387649739	0.011262592	3.118752834	
LARP4	-0.387666014	0.011262592	-3.11890693	
MARK1	-0.387643232	0.011262592	-3.118691226	
TBX15	0.387634089	0.011262592	3.11860466	
WNT9B	0.387623088	0.011262592	3.118500509	
KIRREL3	0.387653469	0.011262592	3.118788154	
CARTPT	0.387627869	0.011262592	3.118545768	
KIAA0753	-0.387681816	0.011262592	-3.119056545	

SLC16A12	0.387571762	0.011276132	3.118014586
ORMDL1	-0.387460115	0.011308246	-3.11695769
UBQLN1	-0.387426143	0.011314259	-3.116636135
MATR3	-0.387426794	0.011314259	-3.116642293
FAM19A3	0.387371378	0.011324723	3.116117796
NSUN4	-0.387379145	0.011324723	-3.116191302
RB1CC1	-0.387370522	0.011324723	-3.116109696
PEX1	-0.387352791	0.011327965	-3.115941879
STH	0.387333431	0.011331709	3.115758657
VPS13B	-0.387316641	0.011334662	-3.115599755
SPOPL	-0.387305823	0.011335773	-3.115497381
HEYL	0.387297852	0.011336006	3.115421947
GPR137B	-0.387248598	0.011348984	-3.11495584
LZTS1	0.38717996	0.011365939	3.114306359
COG6	-0.387179304	0.011365939	-3.114300151
TNRC4	0.387166035	0.011367812	3.114174602
HTR6	0.387116871	0.011378991	3.113709438
S100A7A	0.387115484	0.011378991	3.113696312
OR2H1	0.387077384	0.011386322	3.113335861
PLXNB3	0.387083427	0.011386322	3.11339303
CLCF1	0.387047446	0.011388899	3.113052632
WDR75	-0.387054775	0.011388899	-3.113121961
CNOT8	-0.38705392	0.011388899	-3.113113878
LOC400940	0.387015212	0.011396654	3.112747692
GCNT4	-0.386945821	0.011415941	-3.112091291
SYN2	0.386937683	0.011416231	3.112014318
SLC38A3	0.386907772	0.011422624	3.111731398
C1orf183	0.386895486	0.011422624	3.111615197
SELI	-0.386898569	0.011422624	-3.111644354
DYNC1LI2	-0.386855858	0.011431829	-3.111240391
P2RX3	0.386851454	0.011431829	3.111198732
HES2	0.386790134	0.011447308	3.110618812
CAND1	-0.38678727	0.011447308	-3.110591723

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FBXO47	0.386777753	0.011448031	3.110501724	
CYLD	-0.386769103	0.011448483	-3.110419926	
PRG4	0.38671872	0.011461926	3.109943481	
TUBGCP4	-0.386705557	0.011463785	-3.109819017	
FAM90A1	0.38668777	0.011467085	3.109650823	
ARD1B	0.3866209	0.011485689	3.109018562	
COPS6	-0.386604345	0.011486638	-3.108862034	
IDE	-0.386603477	0.011486638	-3.108853827	
NACAD	0.386572148	0.011494171	3.108557629	
LYST	-0.386508003	0.011508434	-3.107951219	
GNL2	-0.386514894	0.011508434	-3.108016367	
C1orf223	0.386504916	0.011508434	3.107922044	
OR4K14	0.38648732	0.011511688	3.107755704	
ATXN2	-0.386445021	0.011522667	-3.107355862	yes
MRPL42	-0.386404802	0.011533004	-3.106975696	
FLVCR1	-0.386392282	0.011534675	-3.10685736	
OR6Q1	0.386371641	0.011537561	3.106662269	
NGFR	0.386361657	0.011537561	3.106567906	
VPS29	-0.386361521	0.011537561	-3.106566625	
SSFA2	-0.386351875	0.011538334	-3.106475452	
MAPKSP1	-0.386298239	0.011552889	-3.105968537	
C20orf152	0.386240776	0.011568662	3.105425497	
SNORD36A	-0.386229179	0.011570049	-3.105315915	
LAMC2	-0.386214999	0.011572247	-3.10518192	
NDUFB6	-0.386174026	0.011582861	-3.104794751	
USF2	0.386156747	0.011586036	3.104631484	
CD300LD	0.386136063	0.011588028	3.104436048	
SMAD7	0.386138979	0.011588028	3.104463602	
BATF2	0.386097199	0.011597992	3.104068848	
RPL30	-0.386075496	0.011602564	-3.103863799	
C1orf111	0.386059217	0.01160543	3.103710003	
WASF3	0.3859982	0.011622385	3.103133563	
NEUROD2	0.385931312	0.011638952	3.102501715	

CIDEA	0.385933338	0.011638952	3.102520861
CCNJL	0.385894183	0.011648407	3.102151013
AIP1	0.385716702	0.011702278	3.100474829
JARID1A	-0.385701395	0.011704858	-3.100330282
ST13	-0.385683361	0.011708303	-3.100159998
SNX32	0.385635324	0.011721269	3.09970641
DDX18	-0.385620824	0.011723596	-3.0995695
MRPL47	-0.385609688	0.011724857	-3.099464355
MAP4K5	-0.385543625	0.011742372	-3.09884063
SLCO4C1	-0.385540223	0.011742372	-3.098808517
CLDN14	0.385512709	0.011748842	3.098548765
LIN7A	0.385491241	0.011753393	3.098346101
SERPIN3	-0.385466315	0.011759045	-3.098110792
FKSG2	0.385459098	0.011759063	3.098042661
AVP	0.385424498	0.011767799	3.097716055
DLGAP2	0.385405653	0.011771521	3.097538173
TCL6	0.38537844	0.01177563	3.097281312
NGRN	-0.385380597	0.01177563	-3.09730167
OLFM4	0.385339692	0.011782247	3.096915585
OR13C2	0.385336214	0.011782247	3.096882753
SPIN2A	0.38533928	0.011782247	3.096911694
PROKR1	0.385324914	0.011783569	3.096776107
RALYL	0.385300342	0.011785891	3.096544192
DNAJC15	-0.385305256	0.011785891	-3.096590572
ELOVL2	0.385296181	0.011785891	3.096504922
SCN1A	0.385285702	0.011786954	3.096406027
GRIA4	0.385220502	0.011805475	3.095790726
SSTR5	0.38521153	0.011806058	3.095706051
SRrp35	0.38517612	0.011810521	3.095371911
NDUFA4	-0.385178706	0.011810521	-3.095396311
RNGTT	-0.385185057	0.011810521	-3.095456245
NUP205	-0.385166141	0.011811403	-3.095277748
ZCCHC8	-0.385159078	0.011811403	-3.095211105

HTRA4	0.385087573	0.011829691	3.094536409
LOC347411	0.385088266	0.011829691	3.094542947
SEP3	0.385076045	0.011831095	3.094427646
RPE	-0.385049631	0.011834978	-3.094178437
C15orf56	0.385054736	0.011834978	3.094226602
ASAH1	-0.385020236	0.011842101	-3.093901108
DAPK2	0.384991582	0.011842364	3.093630786
MOSPD3	0.384990885	0.011842364	3.09362421
LCE3D	0.385005519	0.011842364	3.093762267
TRIM63	0.38499565	0.011842364	3.093669167
C7orf33	0.384946691	0.011854231	3.093207306
FLYWCH1	0.384913351	0.011862629	3.092892805
DCC	0.384904522	0.011863174	3.092809529
SEC14L4	0.384892819	0.011864172	3.092699133
HSPC152	-0.384880033	0.011864172	-3.092578531
NIPA2	-0.38488138	0.011864172	-3.092591233
CLEC17A	0.384867871	0.011865787	3.092463814
CYP3A43	0.38484574	0.011870598	3.092255073
DSP	-0.384832385	0.011872224	-3.092129106
PGK1	-0.384826429	0.011872224	-3.092072935
HSD3B1	0.384780148	0.011879374	3.091636438
ITGAM	0.384782324	0.011879374	3.091656962
DENND4C	-0.384775667	0.011879374	-3.091594179
RPS8P4	0.384794448	0.011879374	3.0917713
PLEKHA5	-0.384673527	0.011907607	-3.090630952
CPNE1	-0.384677434	0.011907607	-3.090667791
OR2W5	0.384592065	0.011927515	3.089862827
PHIP	-0.384592658	0.011927515	-3.089868411
MTL5	0.384590305	0.011927515	3.089846233
FBXL22	0.384583183	0.011927518	3.089779083
MORC3	-0.384550419	0.011935779	-3.089470167
ZNF581	0.384537494	0.011936116	3.089348306
QPCTL	0.384535155	0.011936116	3.089326253

CA3	0.384513477	0.01194081	3.089121877
ZNHIT3	-0.384504277	0.011941484	-3.089035142
ITIH2	0.384466442	0.01195139	3.088678459
PSMA8	0.384399144	0.011968928	3.08804406
MYH7B	0.384397877	0.011968928	3.088032117
MTPN	-0.384345079	0.011983689	-3.08753445
GTSF1L	0.384298892	0.011992077	3.087099122
ME2	-0.384301846	0.011992077	-3.087126965
PAX4	0.384297825	0.011992077	3.087089066
STK38L	-0.384217674	0.012015721	-3.086333684
C19orf24	0.384200134	0.012016883	3.086168385
TDRD12	0.384199887	0.012016883	3.086166059
LOC340096	0.384183072	0.012020031	3.086007603
C17orf50	0.3841454	0.012029941	3.085652602
RSBN1L	-0.384126662	0.012033716	-3.085476042
C4orf40	0.384118738	0.012033985	3.085401374
EXOC4	-0.384105043	0.012036126	-3.085272331
GAD2	0.384075986	0.012043252	3.084998547
C17orf64	0.384057386	0.012044685	3.084823296
SENP5	-0.384057821	0.012044685	-3.084827394
BTBD8	-0.384048945	0.012045123	-3.084743764
ZBTB43	-0.383996568	0.012059532	-3.084250294
PDXP	0.383990395	0.012059532	3.084192138
ACTR2	-0.383980196	0.012060543	-3.084096056
C6orf72	-0.383890061	0.012082939	-3.083246953
TMEM198	0.38389011	0.012082939	3.083247413
LOXL1	0.38389788	0.012082939	3.083320607
GPR142	0.383854217	0.012090071	3.082909316
RHBDD1	-0.383853982	0.012090071	-3.082907104
BBS7	-0.383827702	0.012096323	-3.082659561
CADM3	0.383810486	0.012099624	3.082497406
NUP62CL	-0.383768448	0.012111017	-3.082101475
AGT	0.383761207	0.01211107	3.082033278

C1orf144	-0.383713286	0.012124392	-3.081581966	
PPM1B	-0.383694613	0.012128177	-3.081406114	
TMEM69	-0.383684816	0.012129064	-3.081313851	
HTR7P	0.383600769	0.012154215	3.080522409	
SEZ6	0.38358394	0.012157405	3.080363951	
BCMO1	0.383572539	0.012158819	3.080256598	
VPS26A	-0.383560425	0.012160468	-3.080142539	
GMPR2	-0.383533746	0.012166883	-3.079891343	
LOC100133366	0.383524988	0.012167435	3.079808879	
PPP1R12C	0.383509358	0.012170236	3.079661727	yes
ACMSD	0.38349201	0.012171323	3.079498394	
CECR2	0.383491896	0.012171323	3.07949732	
PCK1	0.383470374	0.012176056	3.0792947	
AMPD3	-0.383432582	0.012186122	-3.07893892	yes
RCL1	-0.383385043	0.012199392	-3.078491401	
ADAMTS10	0.383336394	0.01221304	3.078033468	yes
WDR41	-0.383318984	0.012216437	-3.077869588	
ZNF616	-0.383292177	0.012222922	-3.077617272	
LYPD4	0.38326987	0.012227931	3.077407322	
RAB6B	0.383249511	0.012232301	3.077215705	
PLA2G2A	0.383235829	0.012234477	3.07708694	
POU6F1	0.38318479	0.012246622	3.076606596	
SOLH	0.383191354	0.012246622	3.076668372	
NOX1	0.383162949	0.012250115	3.076401061	
MAP7D1	0.383160057	0.012250115	3.076373842	
ZFX	-0.383001344	0.012300128	-3.074880427	
GPR137C	0.382991938	0.012300902	3.074791939	
CENPB	0.382944374	0.012311956	3.074344446	
DULLARD	0.382948071	0.012311956	3.074379233	
CYLC2	0.382929931	0.012314398	3.074208576	
NLRP11	0.382919044	0.012315665	3.074106149	
C20orf27	0.382883567	0.012325067	3.073772408	
FGF23	0.38287465	0.012325683	3.073688531	

SFRS15	-0.382860709	0.012327962	-3.073557388	
LINGO1	0.382842115	0.012331782	3.073382484	
KRTAP11-1	0.382805864	0.012340612	3.073041499	
C5orf28	-0.382801346	0.012340612	-3.072999001	
IQCJ	0.382761881	0.012351354	3.0726278	
SCARNA4	0.382742445	0.01235546	3.072445002	yes
LOC100128064	0.382720348	0.012360451	3.072237172	
SLC35A4	-0.382696408	0.012366055	-3.072012029	
SMEK2	-0.382681936	0.012368518	-3.071875926	
IARS2	-0.382670004	0.01237014	-3.071763706	
GFI1	0.382609852	0.012387778	3.071198043	
PRKAG1	-0.382600801	0.012388444	-3.071112935	
DUS2L	-0.382582723	0.012392112	-3.070942939	
THEM5	0.382538831	0.012398425	3.070530224	
LPO	0.382535566	0.012398425	3.070499527	
FAM20A	0.382543875	0.012398425	3.070577656	
MS4A5	0.382543347	0.012398425	3.070572685	
TIGD1	-0.382504897	0.012406285	-3.070211167	
BRD3	0.382464519	0.012417382	3.069831527	
GSTP1	-0.382441096	0.012422839	-3.069611315	
CALHM3	0.382408266	0.012429088	3.069302676	
THPO	0.382409025	0.012429088	3.069309805	
VASH1	0.382390749	0.012432581	3.069138002	
OR2M2	0.382360853	0.012440203	3.068856957	
PSMD4	-0.382299061	0.012458475	-3.068276114	
MOS	0.382275851	0.012461721	3.068057946	
ANKRD10	-0.382275274	0.012461721	-3.068052527	
ABTB2	0.38225591	0.012463492	3.067870517	
ANGPT2	0.382258961	0.012463492	3.067899199	
RAB3GAP1	-0.38224158	0.012465931	-3.067735832	
PRPF8	-0.382224857	0.012467077	-3.067578654	
TAF7	-0.382224092	0.012467077	-3.067571461	
VHL	-0.382178818	0.01247986	-3.067145959	

C8orf31	0.382161693	0.012483237	3.06698502
HSPH1	-0.382118482	0.012492993	-3.066578938
SHC3	0.382121378	0.012492993	3.066606155
HMGB4	0.382101594	0.012496295	3.066420237
ZNF451	-0.382093832	0.012496542	-3.066347297
TMEM75	0.382064572	0.012503988	3.066072349
OR8K1	0.381985204	0.012528237	3.065326591
LILRP2	0.381960098	0.012534305	3.065090706
SLC22A9	0.381941892	0.012534849	3.06491966
OR8B12	0.381942153	0.012534849	3.064922108
TCTE3	0.381937418	0.012534849	3.064877626
LOC643330	0.381894709	0.012546832	3.064476385
SERINC4	0.38187283	0.012551825	3.064270845
UQCC	-0.38186048	0.012553617	-3.064154823
CHP	-0.381819763	0.012562588	-3.063772333
KRTAP23-1	0.381822776	0.012562588	3.063800636
ATP13A3	-0.38180134	0.012566425	-3.063599276
OR1L8	0.381791916	0.012567236	3.063510761
TG	0.381779255	0.012569136	3.063391827
SLC6A1	0.381766647	0.012571019	3.063273405
MAPK10	-0.381746733	0.012575361	-3.063086355
CDO1	0.381676577	0.012595517	3.062427434
CHIC2	-0.381672855	0.012595517	-3.06239248
PLD5	0.381637686	0.012605009	3.062062184
RPS9	0.381570223	0.012625407	3.061428655
RRAGD	-0.381555962	0.012627856	-3.061294732
LOC100133364	0.381467008	0.012648448	3.060459481
PELI3	0.381481193	0.012648448	3.060592666
ADIPOR1	-0.381473914	0.012648448	-3.060524327
CMAS	-0.381480756	0.012648448	-3.060588569
hCG_2018279	0.381459982	0.012648456	3.060393519
ARIH1	-0.381452254	0.012648702	-3.060320956
ADAMTS13	0.381442186	0.01264974	3.060226433

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TRHR	0.381420391	0.012654744	3.060021806	
FADS6	0.381357855	0.012673542	3.059434701	
GRK4	0.38130108	0.012688039	3.058901728	
HERPUD2	-0.381305937	0.012688039	-3.05894733	
ATP6V1B1	0.381203888	0.012718389	3.057989442	
ATG16L1	-0.381182606	0.012718389	-3.057789693	
TBC1D24	0.381169681	0.012718389	3.057668386	
ZFP62	-0.381175355	0.012718389	-3.057721645	
DYSF	0.381182242	0.012718389	3.057786277	yes
TJP2	-0.381177287	0.012718389	-3.057739779	
RPL6	-0.381160358	0.012719181	-3.057580892	
ASB12	0.381132364	0.012726318	3.057318164	
DHX9	-0.38111373	0.012730277	-3.057143283	
KIAA1614	0.381095525	0.01273409	3.05697244	
BMP8A	0.381067653	0.012741193	3.056710885	
GPR55	0.381039664	0.01274834	3.056448237	
PHKB	-0.381023053	0.012751616	-3.056292356	
SLC25A4	-0.381011237	0.012753261	-3.056181486	
GDF1	0.381003542	0.012753503	3.056109283	
OR1M1	0.380952343	0.012768564	3.055628883	
C3orf71	0.38088216	0.012787736	3.054970405	
SCIN	-0.380882583	0.012787736	-3.054974375	
MAGEC2	0.380866561	0.012790677	3.054824062	
NLRP5	0.380857981	0.012791223	3.054743567	
C20orf144	0.38080344	0.012804915	3.054231913	
OR2L13	0.38077602	0.012804915	3.053974687	
GRHL1	-0.380806743	0.012804915	-3.054262896	
TRPC4	0.380780707	0.012804915	3.054018662	
CPEB4	-0.380786959	0.012804915	-3.054077302	
TAF1A	-0.38079313	0.012804915	-3.05413519	
LHFPL5	0.380730419	0.012818115	3.053546948	
C1orf182	0.38068349	0.012829397	3.053106765	
FASTKD1	-0.38068761	0.012829397	-3.05314541	

RB1	-0.380656809	0.012836142	-3.052856524
ICAM4	0.380617183	0.012846062	3.052484881
HOMER3	0.380613895	0.012846062	3.052454049
MAP1LC3C	0.380604712	0.012846821	3.052367924
HNRPLL	-0.380588189	0.012850094	-3.052212965
HNRNPM	-0.380549775	0.012859049	-3.051852723
FANCL	-0.380548125	0.012859049	-3.051837249
GNLY	0.380541036	0.012859091	3.051770778
ATP6VOE1	-0.380528565	0.012860979	-3.051653832
DUSP11	-0.380519959	0.012861542	-3.051573127
TTC38	0.380499805	0.012864252	3.051384143
TLL1	0.380498133	0.012864252	3.05136846
BMP2	0.380488571	0.012865143	3.051278805
C20orf106	0.380476855	0.012866775	3.051168938
SLC6A4	0.380455095	0.012871852	3.050964905
FARSB	-0.380398957	0.012888732	-3.050438549
RPS6KA6	-0.38035854	0.012900228	-3.050059619
C11orf71	-0.380301032	0.012917612	-3.049520489
C10orf140	0.380264288	0.01292547	3.049176046
NP	-0.380269839	0.01292547	-3.049228079
SLC9A6	-0.380194944	0.012946965	-3.048526034
RAPH1	-0.380174473	0.012951625	-3.048334162
CNOT10	-0.380165733	0.012952241	-3.04825224
PCDHAC2	0.380158414	0.012952367	3.048183645
SYPL1	-0.380120514	0.012963044	-3.047828426
NEBL	-0.380110354	0.012964152	-3.047733198
PAFAH1B1	-0.380101844	0.01296469	-3.047653442
KCNIP1	0.380062496	0.012975876	3.047284679
CLRN1	0.380035378	0.012982844	3.047030553
ZNF273	-0.379984189	0.012995736	-3.046550862
CLDN4	-0.379989558	0.012995736	-3.046601174
FAM40A	-0.379941457	0.013008117	-3.046150456
RP5-1000E10.4	-0.37992499	0.013011413	-3.045996154

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TFDP2	-0.37984698	0.013036035	-3.045265258
LOC100128655	0.379832592	0.013036208	3.045130457
LOC119358	0.379834785	0.013036208	3.045151001
RAET1E	-0.379822991	0.01303713	-3.045040511
CYHR1	0.379802263	0.013041911	3.044846319
NBEA	-0.379782841	0.013043833	-3.044664369
SHOC2	-0.379785437	0.013043833	-3.044688688
UCRC	-0.379744293	0.013051457	-3.044303264
C19orf68	0.379740054	0.013051457	3.044263555
MAF	0.379746986	0.013051457	3.044328487
CRYBB3	0.37972094	0.013055684	3.044084502
DSTYK	-0.37967184	0.013070329	-3.04362458
ANKRD33B	0.379648113	0.013076164	3.043402348
OSBPL8	-0.379640755	0.013076312	-3.043333429
CTTN	-0.379628579	0.013078134	-3.043219381
SFRS1	-0.379607549	0.013083036	-3.043022417
ACE	0.379555295	0.013098805	3.042533033
RDM1	0.379508203	0.013110378	3.042092018
C3orf47	0.379514354	0.013110378	3.042149617
RPL26P12	0.379423248	0.013137585	3.041296485
CAMK2B	0.37941269	0.013138851	3.041197631
LMAN1L	0.3793694	0.013151547	3.040792301
TNPO1	-0.379326966	0.01316237	-3.040395006
G2E3	-0.379324573	0.01316237	-3.040372599
STK32B	0.379302087	0.01316781	3.040162079
ICOSLG	0.379294859	0.013167915	3.040094412
MPL	0.37928035	0.013170567	3.039958576
ANKRD18A	-0.37925307	0.013175265	-3.039703198
VTA1	-0.379256571	0.013175265	-3.039735965
OR56A3	0.379225309	0.013182557	3.039443319
ACOX1	-0.379173594	0.013196201	-3.038959219
NAPG	-0.379172499	0.013196201	-3.038948969
DNAJC13	-0.379125959	0.013210086	-3.038513346

yes

ACP1	-0.379110276	0.013213159	-3.038366561	
TPT1	-0.379083317	0.013217239	-3.038114241	
MXD3	0.379077886	0.013217239	3.038063411	
COL25A1	0.379081097	0.013217239	3.038093462	
ASCC1	-0.379004696	0.013240503	-3.037378437	yes
MACC1	-0.378957374	0.013254704	-3.036935593	
BCL11B	0.378924054	0.013263991	3.0366238	
ATRNL	-0.378890013	0.013273538	-3.03630527	
ZNRF4	0.378880467	0.013273627	3.036215948	
INO80E	0.378875929	0.013273627	3.036173488	
SF3B3	-0.378864024	0.013275385	-3.036062098	
C21orf70	0.378790565	0.013298832	3.035374801	
SYNPO2L	0.378764808	0.013305478	3.035133828	
PCM1	-0.378747381	0.013309188	-3.034970795	
DAZAP2	-0.378717341	0.013317351	-3.034689771	yes
FAM173B	-0.378694085	0.013320683	-3.034472222	
ELOVL3	0.378695805	0.013320683	3.034488312	
C1orf157	0.378682669	0.013320834	3.034365432	
SIAE	-0.378679844	0.013320834	-3.034339003	
ILF3	-0.378615694	0.013341059	-3.033738948	
RANBP9	-0.378568368	0.013352912	-3.033296294	
BTRC	-0.378569058	0.013352912	-3.033302756	
TMEM186	-0.378545102	0.013354472	-3.033078692	
MRGPRX1	0.378552001	0.013354472	3.033143216	
C2orf7	0.37854325	0.013354472	3.033061372	
ZNF638	-0.378487684	0.013363699	-3.032541703	
LALBA	0.37849158	0.013363699	3.03257814	
MLH1	-0.378507576	0.013363699	-3.032727739	
RARRES2	0.37848589	0.013363699	3.032524925	
TRA2B	-0.378482683	0.013363699	-3.032494932	
TOX4	-0.378466202	0.013367093	-3.032340806	
PCF11	-0.378431728	0.013375877	-3.03201843	
TMEM144	-0.378427609	0.013375877	-3.031979912	

PPAPDC3	0.378395619	0.013382327	3.03168077	
BECN1	-0.3783976	0.013382327	-3.031699294	
LOC389493	0.378345906	0.013395467	3.03121593	
PAIP2	-0.378344777	0.013395467	-3.031205368	
KIAA1147	-0.378336328	0.013396019	-3.031126375	
VCP	-0.378286986	0.013411085	-3.030665034	
LOC100133419	0.378258914	0.013418607	3.030402581	
HYAL3	0.378251866	0.013418664	3.03033669	
LOC100129484	0.378232301	0.013423168	3.03015378	
PRAMEF12	0.378212412	0.013425342	3.029967843	
NUP107	-0.37821802	0.013425342	-3.030020268	
CA14	0.378200789	0.013427026	3.029859184	
C10orf84	-0.378160964	0.013438737	-3.029486891	
TSP50	0.378148998	0.01344039	3.029375036	
LIN7C	-0.378142549	0.01344039	-3.029314754	
ITM2B	-0.37810002	0.013453074	-3.02891722	
SYAP1	-0.378077315	0.013458708	-3.028704992	
HBE1	0.378061614	0.013461849	3.028558242	
PDLIM1	-0.378032256	0.013469857	-3.028283851	
SERPINB11	-0.378017789	0.013472561	-3.028148635	
SMARCAD1	-0.378008351	0.013473474	-3.028060431	
ZNF662	0.377960145	0.01348821	3.027609905	
TBCCD1	-0.377913357	0.0135	-3.027172665	
SLC12A6	-0.377915158	0.0135	-3.027189498	
STS	-0.377894713	0.013503118	-3.026998443	
ZNF823	-0.377890875	0.013503118	-3.026962583	yes
LOC387763	0.377878036	0.013505249	3.026842605	
MTMR2	-0.377861855	0.013508574	-3.026691402	
RBM42	0.377825676	0.013519044	3.026353353	
CBX4	0.377818491	0.013519157	3.026286211	
FAM40B	0.377803446	0.01352208	3.026145641	
RLN1	0.377795058	0.013522623	3.026067266	
XRN2	-0.377775214	0.013527262	-3.025881861	

STK3	-0.377747739	0.013534633	-3.025625161	
ZP4	0.377685601	0.013554417	3.025044645	
YIPF7	0.377675518	0.01355557	3.024950449	
ZMAT5	0.377663887	0.01355583	3.024841794	
AGXT2L1	0.377661064	0.01355583	3.024815417	
TTY11	0.377616131	0.013569472	3.02439568	
MYH15	0.377605935	0.013570668	3.024300436	
N6AMT2	-0.377582464	0.013576624	-3.024081203	
FRG1	-0.377557408	0.013583151	-3.023847161	
ANKRD30A	0.377528782	0.013590962	3.023579789	
FOXI2	0.377519079	0.013591984	3.023489158	
TC2N	-0.377491083	0.01359465	-3.023227682	yes
FAM133A	0.377492902	0.01359465	3.023244669	
HOXA3	0.377493139	0.01359465	3.023246882	
C1orf71	-0.377458561	0.013603867	-3.022923946	
EEF1A1	-0.377408562	0.013619374	-3.022457006	
CSTF3	-0.37737655	0.013625916	-3.022158067	
MDFIC	0.377369814	0.013625916	3.022095166	
DNTTIP2	-0.377378937	0.013625916	-3.022180357	
ELA3B	0.377321835	0.013640717	3.021647144	
LOC100133337	-0.377219881	0.013674996	-3.020695212	
ERP27	0.377167695	0.013682128	3.020208005	
mei-01	0.377152491	0.013682128	3.020066061	
LIN28B	0.377159192	0.013682128	3.020128624	
TPP2	-0.377179895	0.013682128	-3.020321901	
CAMK2A	0.377172083	0.013682128	3.02024897	
ZNF700	-0.377186591	0.013682128	-3.020384409	
NLRP12	0.377152181	0.013682128	3.020063173	
C18orf25	-0.377132995	0.01368465	-3.019884058	
SETX	-0.377131507	0.01368465	-3.019870171	
ZNF234	-0.377092257	0.013686854	-3.019503776	
SRFBP1	-0.377091201	0.013686854	-3.019493913	
LOC401875	0.377098092	0.013686854	3.019558242	

GLRA4	0.37711333	0.013686854	3.019700491	
UBE2G1	-0.37710136	0.013686854	-3.019588746	
MRPL55	0.377031668	0.013705889	3.018938217	
MYADML2	0.377018778	0.013708077	3.018817902	
C15orf27	0.376969164	0.013717313	3.018354831	
LOC25845	0.376973992	0.013717313	3.018399893	
NPR1	0.376976472	0.013717313	3.018423033	
PIGF	-0.376965896	0.013717313	-3.018324333	yes
ZYG11A	0.376942145	0.013723434	3.01810266	
LRRC20	0.37693491	0.01372358	3.018035139	
ZCCHC17	-0.37685039	0.013751713	-3.017246371	
TMEM50A	-0.376830283	0.01375405	-3.01705874	
ZNF529	-0.376834223	0.01375405	-3.017095514	
CHURC1	-0.376812034	0.01375819	-3.016888459	
MRGPRF	0.376787937	0.013764452	3.016663605	yes
TCP11	0.376728151	0.013783673	3.016105759	
C16orf80	-0.376700971	0.013791066	-3.015852172	
NYX	0.376681635	0.013795611	3.015671775	
ONECUT1	0.376642962	0.013807189	3.015310977	
MAPK6	-0.376590974	0.013821138	-3.014825987	
NEK4	-0.376595441	0.013821138	-3.014867654	yes
C3orf45	0.376549963	0.013831536	3.014443418	
C9orf75	0.376545844	0.013831536	3.014405001	
HILS1	0.376541946	0.013831536	3.014368639	
KCNH5	0.37651472	0.013838969	3.014114681	
TAAR9	0.376473942	0.013845135	3.013734326	
OR1Q1	0.37647818	0.013845135	3.013773859	
SNORA9	0.376482144	0.013845135	3.013810828	
EIF4E2	-0.376470525	0.013845135	-3.013702457	
ELP2	-0.376442155	0.013852992	-3.013437858	
KIAA1274	0.376424812	0.013856832	3.013276107	
PHLDA2	0.376408328	0.013857873	3.013122365	
GTPBP3	0.376411979	0.013857873	3.013156421	

CRYBA1	0.376389056	0.013862418	3.012942627	
MAGEA10	0.376372124	0.01386611	3.012784729	
HSF1	0.376338979	0.013875723	3.012475621	
ZNF85	0.37631633	0.013881507	3.012264419	
BPIL1	0.376307671	0.013882183	3.012183673	
PRR18	0.376286828	0.01388731	3.011989314	
HECW1	0.376253737	0.013896916	3.011680752	
APOBEC2	0.376215041	0.013901928	3.01131994	
CD55	-0.376200884	0.013901928	-3.011187945	
FRYL	-0.376220296	0.013901928	-3.011368942	
OR52L1	0.376213684	0.013901928	3.011307284	
XRCC5	-0.376199198	0.013901928	-3.011172227	
MTMR6	-0.376201604	0.013901928	-3.011194656	
ELAVL4	0.376182506	0.013905545	3.011016591	
ASXL3	0.376160771	0.013911008	3.010813946	
OR10T2	0.376139431	0.013916329	3.010614996	
TMEM38A	0.376082986	0.013934509	3.010088775	yes
OR6B3	0.376050417	0.013942348	3.009785159	
LOC387825	0.376033568	0.013942348	3.009628102	
LOC388796	-0.376027608	0.013942348	-3.009572545	
PRH1	0.376031014	0.013942348	3.009604294	
CD19	0.376029391	0.013942348	3.009589159	
LOC100133131	0.375973131	0.013957994	3.00906474	
LOC645769	0.375971356	0.013957994	3.009048199	
KRT73	0.375961784	0.013959013	3.008958982	
USP16	-0.375941272	0.013960398	-3.008767795	
DNAJB1	-0.375937638	0.013960398	-3.008733918	
SCGB2A2	0.375939069	0.013960398	3.00874726	
HOXB3	0.375871983	0.013982011	3.008122006	
EIF2S1	-0.375820339	0.013996003	-3.007640714	
SNORA71B	0.375820387	0.013996003	3.007641159	
SLC27A2	-0.375770619	0.014011638	-3.007177381	
NEK9	-0.375764265	0.014011638	-3.007118174	

CAPNS1	-0.375749344	0.014014632	-3.006979137
FAM53A	0.375718369	0.014021041	3.006690506
NALCN	0.375723138	0.014021041	3.006734944
ADAM17	-0.37567457	0.014032178	-3.006282413
UCHL3	-0.375675933	0.014032178	-3.006295105
ILDR2	0.375662365	0.014034176	3.006168695
SNRNP200	-0.375612947	0.014046714	-3.005708272
RIT2	0.375603738	0.014046714	3.005622472
ZNF436	-0.37561412	0.014046714	-3.005719198
PRPF4B	-0.375601236	0.014046714	-3.005599165
GUCY2C	0.375547503	0.014064041	3.005098584
SIPA1L1	-0.375522479	0.014070778	-3.004865474
ATP2B2	0.375505527	0.014074537	3.004707554
PLAA	-0.375497664	0.014074939	-3.004634306
SLC12A1	0.375477352	0.01407994	3.004445102
CNIH2	0.375456442	0.014085165	3.004250328
PGAM2	0.375442202	0.014087925	3.004117695
THAP3	0.375426693	0.014091155	3.003973235
UBE2D1	-0.375377086	0.014107002	-3.003511195
BRAP	-0.375356322	0.014112181	-3.00331781
JRKL	-0.375291938	0.014133526	-3.002718195
RXFP4	0.375276058	0.014136903	3.002570318
LOC100132014	0.375232595	0.014148003	3.002165578
KIAA1429	-0.375238245	0.014148003	-3.002218194
ABCA4	0.375220036	0.014150151	3.002048635
ELAVL3	0.375204633	0.014150845	3.001905207
PF4V1	0.375206836	0.014150845	3.001925716
CROT	-0.375170727	0.014158408	-3.00158949
C4orf41	-0.375172082	0.014158408	-3.001602109
CHML	-0.375163108	0.014158725	-3.001518545
UCN	0.375126973	0.014167394	3.001182102
C20orf7	-0.375126239	0.014167394	-3.001175265
CPNE7	0.375076929	0.014183205	3.000716176

ODF4	0.375047538	0.014188774	3.000442551	
C3orf23	-0.375038465	0.014188774	-3.000358082	
NXF3	0.375033407	0.014188774	3.000310993	
CEP97	-0.375054809	0.014188774	-3.000510242	
MCM3AP	-0.375028156	0.014188774	-3.000262107	
ZSCAN16	-0.375011013	0.014192637	-3.000102522	
B4GALNT4	0.374986333	0.014199306	2.999872772	
TTC14	-0.374967024	0.014203978	-2.999693029	
HSPA12B	0.374949834	0.014205349	2.999533014	
C9orf6	-0.374953168	0.014205349	-2.999564053	yes
SALL4	0.374922744	0.014212921	2.999280854	
C1orf68	0.374904324	0.014214753	2.999109402	
LMO1	0.374909739	0.014214753	2.999159805	
SLC27A6	0.374895371	0.014214814	2.999026062	
SMAD2	-0.374890663	0.014214814	-2.998982244	
DCD	0.374862825	0.01422267	2.998723136	
SLK	-0.374854946	0.014223092	-2.998649803	
KIAA1279	-0.374846972	0.01422355	-2.998575587	yes
UNQ1887	-0.374751867	0.014256504	-2.997690481	
NIPA1	-0.374670745	0.014284295	-2.9969356	
ESM1	0.374654833	0.014287723	2.996787536	
KIAA1024L	0.374571125	0.014306432	2.996008683	
NSL1	-0.374584042	0.014306432	-2.99612886	
GLB1	-0.37457174	0.014306432	-2.996014405	
ARGFX	0.374595448	0.014306432	2.99623499	
JMJD1A	-0.374572568	0.014306432	-2.996022106	
TRIM11	0.374550679	0.014311565	2.995818456	
SEPSECS	-0.374515421	0.014322249	-2.995490442	
NCRNA00114	0.374498257	0.014326157	2.995330759	
LRPPRC	-0.374475923	0.014332004	-2.995122996	
FNTA	-0.374414969	0.014352347	-2.994555976	
RAB18	-0.37433677	0.014379199	-2.993828605	
PPP2R3C	-0.374329611	0.014379357	-2.993762027	

GRIK4	0.37431447	0.014382518	2.993621202
FAM128A	0.374296022	0.01438439	2.99344962
ZNF598	0.374298708	0.01438439	2.993474604
LOC646359	0.374228303	0.014407345	2.992819823
RPL15	-0.374220814	0.014407629	-2.992750178
HTN1	0.374198492	0.014409865	2.9925426
ITGB6	-0.374184203	0.014409865	-2.992409719
P4HA1	-0.374181221	0.014409865	-2.992381987
PLCE1	-0.374189931	0.014409865	-2.992462983
HYI	0.374197836	0.014409865	2.992536496
HNRNPA2B1	-0.374163123	0.014414149	-2.992213693
AGFG1	-0.374134446	0.01442242	-2.99194704
LOC730241	0.374077688	0.014438844	2.99141929
WAS	0.374077445	0.014438844	2.991417028
FAM179B	-0.37406096	0.014442527	-2.991263753
TROVE2	-0.374023792	0.01445402	-2.990918188
ZNF681	-0.374003891	0.014458996	-2.99073317
TP53TG5	0.373984467	0.014463795	2.990552589
LOC642776	0.373977044	0.014464059	2.990483573
ZNHIT2	0.373898869	0.014491081	2.989756846
OR10P1	0.373857357	0.014504253	2.989370973
PNPLA3	0.373849631	0.014504633	2.98929916
OR9K2	0.373831099	0.014506561	2.989126908
CCL25	0.373836737	0.014506561	2.989179311
FMR1	-0.373778846	0.014523819	-2.988641238
HYAL4	0.373758026	0.014529167	2.988447733
FGF5	0.373734216	0.014535651	2.988226444
SOX10	0.373659377	0.01456152	2.987530944
SOX30	0.373627159	0.014571213	2.987231559
OR10A6	0.37358597	0.014579215	2.986848824
TPD52	-0.37359173	0.014579215	-2.98690234
GGNBP2	-0.37359852	0.014579215	-2.986965433
CBR3	0.373455656	0.0146263	2.985638058

DEFB121	0.373401814	0.014644288	2.985137861	
JAK2	-0.373392697	0.014645205	-2.985053166	
LCE2A	0.373362685	0.014654104	2.984774373	
SPDYA	0.373329243	0.014663148	2.984463736	
GHRH	0.373325595	0.014663148	2.984429847	
OR4B1	0.373248256	0.014687599	2.983711501	
OR2M5	0.373250054	0.014687599	2.983728202	
TACSTD2	-0.373216626	0.014697141	-2.983417731	
TOR1A	-0.373168441	0.014703593	-2.982970232	
ANAPC4	-0.373174808	0.014703593	-2.983029364	
C6orf222	0.373189914	0.014703593	2.983169652	
LRFN3	0.373166235	0.014703593	2.982949742	
UNC119	0.373169014	0.014703593	2.982975557	
RPS15AP25	0.373150398	0.014707092	2.982802672	
DMRTA2	0.373132614	0.014711337	2.982637522	
CHD1	-0.373113901	0.014715941	-2.982463745	
LCE1A	0.37308285	0.014725278	2.982175403	
KIFC3	0.373063355	0.014729898	2.981994379	
SRY	0.373057403	0.014729898	2.981939112	yes
DEFA4	0.373050691	0.014729901	2.98187679	
SLC22A18AS	0.373000925	0.014746434	2.981414702	
FAM170A	0.372980119	0.014751852	2.981221519	
OTUD6A	0.372920999	0.01476685	2.980672643	
CSRP2	0.372921578	0.01476685	2.980678017	
NUP214	-0.37292295	0.01476685	-2.980690752	
PRMT3	-0.37290862	0.014769035	-2.980557716	
ENPP6	0.3728908	0.014773313	2.980392282	
UBR4	-0.372879543	0.014774639	-2.980287774	
UBA3	-0.37287396	0.014774639	-2.980235947	
SNORD59B	-0.372862298	0.01477655	-2.980127688	
SEMG1	0.372833863	0.014784917	2.979863721	
KIR3DL2	0.372776487	0.014804435	2.979331131	
LOC441208	0.372763947	0.014806688	2.979214737	

AHR	-0.372746231	0.014810937	-2.979050297	
ANKRD13B	0.372713798	0.014820862	2.97874927	
PCDHGC5	0.372692718	0.014826413	2.97855362	
ST8SIA3	0.372663896	0.014834954	2.978286122	
TRPC3	0.372621242	0.014848841	2.977890271	
FAM49B	-0.372597743	0.014855336	-2.9776722	
VTI1B	-0.372558838	0.01486779	-2.977311165	
AK3L1	0.372454598	0.014905557	2.976343934	
BRP44L	-0.372437084	0.014909753	-2.976181436	
PSMG2	-0.37241296	0.014916513	-2.975957624	
NEURL2	0.372395922	0.014920049	2.975799544	
TFRC	-0.372383783	0.014920049	-2.975686926	
MAGEC1	0.372388199	0.014920049	2.975727898	
FRMPD1	0.372345301	0.014931084	2.975329923	
TMEM180	0.372341972	0.014931084	2.975299043	
LOC727726	-0.372296526	0.014946135	-2.974877457	
KLK1	0.372267471	0.014953168	2.974607937	
RPL12P2	0.372265058	0.014953168	2.974585552	
LGR4	-0.372251741	0.014955474	-2.974462021	
KIAA1712	-0.372245764	0.014955474	-2.97440658	
RPL36	0.372166012	0.014965714	2.973666862	
C10orf125	0.372168071	0.014965714	2.973685955	
C9orf142	0.37218655	0.014965714	2.973857347	yes
HSD11B2	0.372186607	0.014965714	2.97385788	
OR2W3	0.372207239	0.014965714	2.974049241	
ZFAND5	-0.372195315	0.014965714	-2.973938644	
CACNA1I	0.372168745	0.014965714	2.97369221	
WDR1	-0.372183419	0.014965714	-2.973828308	
C2orf84	0.372141589	0.014972616	2.973440347	
C20orf74	-0.372130667	0.01497427	-2.973339049	
FLJ33544	0.372117335	0.014976861	2.973215403	
OR14J1	0.372095794	0.014980053	2.973015632	
AK3	-0.372098689	0.014980053	-2.973042481	

LOC100130291	-0.372044396	0.014989678	-2.972538988	
TROAP	0.372049268	0.014989678	2.972584171	
EPHA5	0.372045775	0.014989678	2.972551774	
SH3TC2	0.372053106	0.014989678	2.972619756	
TAF13	-0.371996116	0.015005886	-2.972091284	
TNFRSF9	0.371971325	0.01501295	2.971861411	
KRTAP4-2	0.371929252	0.015026758	2.971471299	
PCGF2	0.371911743	0.015030989	2.971308963	
EXOSC9	-0.371880891	0.015040431	-2.971022912	
AEBP2	-0.371798622	0.015069972	-2.970260212	
RDH10	-0.371777073	0.015075795	-2.970060439	
HEXIM2	0.371753757	0.015079991	2.969844305	
DECR1	-0.371753026	0.015079991	-2.969837525	
YIPF6	-0.371733915	0.015084863	-2.969660378	
OR7A5	0.371724042	0.015086121	2.969568853	
TARBP2	0.371690253	0.015096743	2.969255653	
LOC100131373	0.371668171	0.015102785	2.969050976	
SAP18	-0.371639419	0.015109396	-2.968784492	
CCDC124	0.371625075	0.015109396	2.968651545	
C9orf131	0.371624678	0.015109396	2.96864786	
ZNF518A	-0.37162931	0.015109396	-2.968690794	
GABPB1	-0.371612867	0.015111417	-2.968538398	
TRBV28	0.371556329	0.015130979	2.968014408	
ADAD1	0.371546164	0.015132357	2.967920213	
OR6C70	0.371536118	0.015133689	2.967827107	
HSDL1	-0.371505077	0.015143263	-2.967539447	
NTN5	0.371485847	0.015148202	2.967361253	
LZIC	-0.371430993	0.015167143	-2.966852956	
ZXDA	0.371410012	0.015172779	2.96665855	
LPPR2	0.371400636	0.015173851	2.966571677	
C11orf30	-0.371389449	0.015175637	-2.966468023	yes
DLX4	0.371378691	0.015177254	2.966368341	
CLDN5	0.371316877	0.015198967	2.965795636	

RASD2	0.371309697	0.015199178	2.965729118	
CUL5	-0.371301058	0.015199963	-2.965649087	
PHPT1	0.37129278	0.015200607	2.965572393	
WIT1	0.371269102	0.015207317	2.965353038	
CDH15	0.371210713	0.015224925	2.964812142	
ZNF136	-0.371204506	0.015224925	-2.964754641	
WSCD2	0.371205438	0.015224925	2.964763278	
MLH3	-0.371150301	0.015243693	-2.964252546	
ZP1	0.371115809	0.015252069	2.963933071	
RAB5A	-0.371119982	0.015252069	-2.963971716	
tAKR	0.371091493	0.015259053	2.963707848	
TFAP4	0.371082795	0.015259866	2.963627295	
FAM149B1	-0.371059509	0.015263824	-2.963411625	yes
LMBRD1	-0.371060302	0.015263824	-2.963418965	
VPS26B	-0.371050821	0.015264635	-2.963331159	
RPP40	-0.37098467	0.015275055	-2.962718538	yes
MRPS30	-0.370998998	0.015275055	-2.962851219	
GPR112	0.37101139	0.015275055	2.962965978	
BARD1	-0.370990958	0.015275055	-2.962776768	
SDHA	-0.371004779	0.015275055	-2.962904763	
TMEM88	0.370991982	0.015275055	2.962786248	
SEC23IP	-0.370977579	0.015275239	-2.962652863	yes
COG2	-0.370958363	0.015277596	-2.962474922	
MRC2	0.37096354	0.015277596	2.962522858	yes
RAI2	0.370925086	0.015288138	2.962166767	
CEACAM20	0.370907539	0.015290424	2.962004289	
P2RY4	0.370906059	0.015290424	2.961990587	
MED6	-0.370891952	0.015292044	-2.961859955	yes
ADFP	0.370882097	0.015292044	2.961768709	
ARHGEF12	-0.370883484	0.015292044	-2.961781553	
WAPAL	-0.370821039	0.015310976	-2.961203366	
HIST1H2BN	0.370827536	0.015310976	2.961263523	
LANCL1	-0.370808733	0.015313229	-2.961089427	

SNX2	-0.370798156	0.015314797	-2.960991508	
TFB1M	-0.370767411	0.015324359	-2.960706857	
GALC	-0.370702488	0.015347486	-2.960105825	
OR1L4	0.370691361	0.015349276	2.960002822	
XCL2	0.370667554	0.015356101	2.95978244	
RP11-431O22.2	0.370651256	0.015359947	2.959631572	
SYP	0.370622666	0.015368677	2.959366927	
IPO7	-0.370603433	0.015373692	-2.959188908	
AR	0.370591144	0.015375948	2.95907516	
CXCR3	0.3705622	0.015384827	2.958807261	
ABCB5	0.37054597	0.015388652	2.958657048	
OR52K2	0.370510445	0.015400158	2.958328254	
SLC26A10	0.370481499	0.01540905	2.958060368	yes
LOC727913	0.37042334	0.015429591	2.957522147	
FBXO46	0.370407112	0.015433425	2.957371977	
KRT20	0.370378561	0.015439541	2.957107772	
PPFIA3	0.370384912	0.015439541	2.957166544	
BBS9	-0.370340558	0.015452069	-2.956756125	
ELA1	0.370327632	0.015454591	2.956636527	
ZCCHC5	0.370313084	0.015455968	2.956501916	
NARG1L	-0.370310969	0.015455968	-2.956482348	
OR2V2	0.370275709	0.015467412	2.956156112	
CES7	0.370178333	0.015503712	2.955255228	
PFN3	0.370168127	0.015505153	2.955160806	
C16orf54	0.370161493	0.015505165	2.955099434	
GPD2	-0.37009688	0.015523963	-2.954501743	
FLJ40448	0.370094752	0.015523963	2.954482055	
MYBL2	0.370097333	0.015523963	2.954505929	
TRA2A	-0.369984669	0.01556548	-2.953463858	
MTF2	-0.36997701	0.015565904	-2.953393021	
LRRC37B	-0.369939009	0.015575867	-2.953041579	
TESSP1	0.369942995	0.015575867	2.953078441	
B4GALNT2	0.369931136	0.015576379	2.952968767	

DLGAP1	0.369912994	0.015581018	2.952800989	
FLJ32065	-0.369904699	0.0155817	-2.952724282	
RAC1	-0.369886392	0.015586408	-2.952554979	
PRAME	0.369876594	0.015587696	2.952464372	
DEFB136	0.369867227	0.01558881	2.952377753	
LOC728060	0.36985457	0.015591248	2.952260711	
MAT2B	-0.369807506	0.015607531	-2.951825519	
FAH	0.369757605	0.015615795	2.95136412	
POMP	-0.369754021	0.015615795	-2.95133098	
ZNF280C	-0.369757666	0.015615795	-2.951364679	
UNQ9368	0.369772294	0.015615795	2.951499929	
MRPS9	-0.369764066	0.015615795	-2.951423854	
YLPM1	-0.369734777	0.015620891	-2.951153049	
RGAG4	0.369723487	0.015622785	2.951048672	
MATK	0.36969976	0.01562969	2.950829298	
LOC100129196	0.369673936	0.015637444	2.950590556	
FOXO1	0.369631554	0.01565188	2.950198745	
C6orf154	0.369613863	0.015653704	2.950035202	
UBE2H	-0.369616272	0.015653704	-2.950057465	
C13orf23	-0.369592534	0.015659654	-2.949838027	
PAICS	-0.369585735	0.015659741	-2.949775178	
KIAA1841	-0.369562823	0.015666332	-2.949563389	
MYH2	0.369544786	0.015668604	2.949396661	
POLR2K	-0.369544034	0.015668604	-2.949389706	
TOP1	-0.369503785	0.015682204	-2.949017678	
PRAC	0.369451429	0.01570071	2.948533769	
N4BP1	-0.369349438	0.015739344	-2.947591192	yes
RNF7	-0.369329695	0.015744681	-2.947408741	
ARL1	-0.369313744	0.01574848	-2.947261345	
SRP68	-0.369285536	0.015757254	-2.947000686	
MNT	0.36926158	0.015764306	2.946779328	
MTSS1	-0.369247967	0.015767162	-2.946653538	
HS6ST3	0.369232999	0.015768518	2.946515242	

METTL13	-0.369231473	0.015768518	-2.946501141	
ELP2P	0.369194702	0.015778512	2.94616139	
SNX7	-0.369187137	0.015778512	-2.946091497	
KCNQ5	0.369189896	0.015778512	2.946116991	
C12orf66	-0.3691787	0.015779269	-2.946013547	
RAB33A	0.369161407	0.015783624	2.945853777	
EIF3L	-0.36915461	0.015783716	-2.945790978	
SCYL2	-0.36914109	0.01578654	-2.945666067	
GLUL	-0.369089774	0.015797642	-2.945191994	
LOC348926	0.369088974	0.015797642	2.945184604	
KCNK3	0.369096397	0.015797642	2.945253173	
ERGIC2	-0.369077671	0.015797642	-2.945080183	
N4BP2	-0.369081814	0.015797642	-2.945118452	
RP2	-0.36907437	0.015797642	-2.945049691	yes
S100A10	-0.369057976	0.015801639	-2.944898246	
AMELY	0.369042969	0.015805072	2.944759618	
MED7	-0.368968521	0.0158327	-2.944071931	
IL13RA1	-0.368945556	0.015839381	-2.943859814	
MCART3P	0.368877064	0.015863237	2.943227222	
YIPF5	-0.368873916	0.015863237	-2.943198155	
NEK7	-0.368852362	0.015867274	-2.942999088	
HHIPL2	0.368850898	0.015867274	2.942985575	
LSM14A	-0.368754334	0.015904035	-2.942093829	
HEATR5B	-0.368727509	0.015910727	-2.941846132	
VPS33A	-0.36872485	0.015910727	-2.94182158	
OR2L3	0.368705159	0.015916098	2.941639755	
CLTA	-0.36868949	0.015917143	-2.941495082	
ATXN10	-0.368693647	0.015917143	-2.941533467	
CLECL1	0.368674939	0.015920414	2.941360724	
LYSMD3	-0.36864954	0.015925443	-2.941126214	
LCE3B	0.368653073	0.015925443	2.94115884	
KIF13B	-0.36861477	0.015936994	-2.940805199	
CIDECP	0.368589301	0.015943621	2.940570058	

TMEM167A	-0.368585485	0.015943621	-2.940534831
NPL	-0.368521855	0.015967017	-2.939947418
LPA	0.368499414	0.015973536	2.939740256
LOC148003	0.368474802	0.015980948	2.939513061
LY9	0.368450579	0.015986222	2.939289466
PSMD10	-0.368442305	0.015986222	-2.939213096
HS3ST4	0.368445417	0.015986222	2.939241819
FCGR3A	0.36843316	0.015987288	2.939128683
SF3A2	0.368392919	0.016001127	2.938757257
SNORD115-34	0.368358903	0.016012417	2.938443298
KLK2	0.368350674	0.016013109	2.938367353
WDR48	-0.368332109	0.016018051	-2.938196014
SH3BP1	0.368318413	0.016020992	2.938069608
CST9L	0.368239744	0.016048917	2.937343609
ZNF695	0.368237482	0.016048917	2.937322735
NIP7	-0.368217727	0.01605436	-2.937140438
RND3	-0.368101628	0.016099555	-2.936069187
AHSA2	-0.368081108	0.016101071	-2.935879861
FLJ45079	0.368059223	0.016101071	2.935677946
MUT	-0.368058708	0.016101071	-2.935673197
PCSK6	0.368060646	0.016101071	2.935691075
RBM22	-0.368077668	0.016101071	-2.935848118
GPSM3	0.368090711	0.016101071	2.935968461
PIP	0.368016269	0.016115905	2.935281672
SNORD116-4	0.367969918	0.016129664	2.934854072
OR4A16	0.367970039	0.016129664	2.93485519
NXNL2	0.367901387	0.016147704	2.934221912
MKRN1	-0.367913157	0.016147704	-2.934330482
FBXL3	-0.367906634	0.016147704	-2.934270311
PPEF2	0.367900184	0.016147704	2.934210814
IL28B	0.367880657	0.016153084	2.934030698
WISP3	0.367871171	0.016154307	2.933943201
C21orf93	0.367836853	0.016165818	2.933626673

C18orf51	0.367784574	0.016184709	2.933144502	
MKI67IP	-0.367778225	0.016184709	-2.93308595	
LOC284422	0.367712819	0.016209147	2.932482762	
TJP1	-0.367697187	0.016212928	-2.932338607	
GGT5	0.367658255	0.016223679	2.9319796	yes
IFNA21	0.367658708	0.016223679	2.931983778	
SLC25A36	-0.367629918	0.016232745	-2.9317183	
DNNT	0.367618911	0.016234608	2.931616813	
P2RY6	0.367596677	0.016241141	2.9314118	
PRMT5	-0.367589879	0.016241254	-2.931349119	
ARL5B	-0.36755066	0.016251172	-2.930987517	
IL11RA	0.36754647	0.016251172	2.930948879	
PRLH	0.367552608	0.016251172	2.931005473	
RBM14	-0.367522299	0.016258101	-2.930726029	
LGALS4	0.367516777	0.016258101	2.930675122	
MID1	-0.367502037	0.016261524	-2.930539222	
JAKMIP3	0.367469793	0.016272238	2.930241961	
MESDC1	0.367433898	0.016284481	2.929911056	
MAGEA12	0.367332311	0.016324158	2.928974632	
EPYC	0.367313116	0.01632673	2.928797701	
CCL16	0.367318573	0.01632673	2.928848003	
OPA3	0.3672452	0.016352401	2.92817174	
CTNNA2	0.367230775	0.016355709	2.928038795	
PSMA3	-0.367223694	0.016355945	-2.927973533	
TRAPPC6B	-0.367155333	0.016381842	-2.927343539	
BHLHA15	0.367106964	0.016399388	2.92689782	
SLC2A7	0.367089044	0.016403651	2.926732699	
CD8B	0.367083765	0.016403651	2.926684056	
FAM47C	0.367061682	0.016410183	2.926480574	
ACOT7	0.367051908	0.016411551	2.926390513	
OR10K1	0.367029448	0.016418243	2.926183574	
C10orf113	-0.366912137	0.016463413	-2.925102767	
ENTPD4	-0.366908955	0.016463413	-2.925073451	

YWHAQ	-0.366870394	0.016476903	-2.924718228
ZMYM4	-0.366860856	0.016478177	-2.924630358
SLC7A14	0.366820368	0.016489745	2.924257404
ENTPD2	0.3668248	0.016489745	2.92429823
TMTC4	-0.366792143	0.016498897	-2.92399742
LOC100133363	0.366763893	0.016505318	2.923737206
PLB1	0.366767594	0.016505318	2.923771294
LHX4	0.366747339	0.016509554	2.923584734
GSTA1	-0.366737887	0.016510795	-2.923497678
C6orf130	-0.366698111	0.016524833	-2.923131334
C16orf81	0.366626293	0.016552421	2.92246993
C9orf5	-0.366609105	0.016556936	-2.922311646
OR2A14	0.366581495	0.01656586	2.922057394
ZFP3	-0.366571232	0.016567275	-2.921962888
WNT8B	0.366565138	0.016567275	2.921906769
SOCS6	-0.366544798	0.016573128	-2.921719473
NEIL2	0.366524191	0.016579097	2.921529726
FAM155B	0.366484443	0.016590418	2.921163739
PTPN13	-0.366490243	0.016590418	-2.921217135
SNORD115-33	0.366467598	0.016592045	2.921008639
C12orf35	-0.366473375	0.016592045	-2.921061825
ARF4	-0.366454894	0.016594673	-2.920891671
LOC100128653	0.366434969	0.01660036	2.920708218
EVI5L	0.366421564	0.016603287	2.920584802
C14orf126	-0.366373312	0.016620988	-2.920140577
GPR151	0.36636379	0.01662174	2.920052916
C9orf71	0.366355458	0.01662174	2.919976215
NEU2	0.366352048	0.01662174	2.91994482
PDS5A	-0.366324997	0.01663046	-2.919695796
PTPN9	-0.366318455	0.01663048	-2.919635577
GRAMD1A	0.366298137	0.016636346	2.919448542
HAT1	-0.366278542	0.016641908	-2.919268167
YES1	-0.366253795	0.016649659	-2.919040377

GABRG1	0.36623778	0.016650031	2.918892963	
SMYD2	-0.366240175	0.016650031	-2.918915001	
SNAPC2	0.366233449	0.016650031	2.918853091	yes
C10orf32	-0.366218884	0.016653461	-2.918719031	
GABRA6	0.366212382	0.016653466	2.918659188	
MARVELD1	0.366197611	0.016656985	2.918523234	
PLEKHG4	0.366165002	0.016668086	2.918223101	
PDLIM5	-0.36614036	0.016668624	-2.917996308	
SHROOM1	0.366150677	0.016668624	2.91809126	
KLC3	0.366137796	0.016668624	2.917972711	
PTPLAD2	-0.36615289	0.016668624	-2.918111629	
PHC2	0.366125921	0.016670916	2.917863426	
LOC120824	0.366110131	0.016673826	2.917718104	
FBXL6	0.366102989	0.016673826	2.917652373	
GMCL1L	0.366099635	0.016673826	2.917621508	
TCF7L1	0.366080329	0.01667928	2.91744384	
DHX15	-0.366010636	0.01670618	-2.916802508	
OR3A1	0.366004139	0.016706188	2.916742716	
AKAP11	-0.365988524	0.016710079	-2.916599038	
OR2A5	0.365941221	0.016727475	2.916163784	
OR10G8	0.365922132	0.016732853	2.915988148	
PDIA3P	-0.365898713	0.016735574	-2.91577267	
KIAA1033	-0.365889851	0.016735574	-2.915691137	
MDM4	-0.365892096	0.016735574	-2.915711795	
XKR8	0.365903378	0.016735574	2.915815593	
ZNF263	-0.365867294	0.016739826	-2.915483604	
SSBP4	0.365863132	0.016739826	2.915445313	
RAD51L1	-0.365860465	0.016739826	-2.915420779	
TRPC7	0.365846248	0.016743131	2.915289982	
C22orf31	0.365781124	0.016764715	2.914690869	
CTNNA3	0.365781437	0.016764715	2.914693741	
GDE1	-0.36577627	0.016764715	-2.914646215	
LOC100130370	0.365683417	0.016795104	2.913792092	

TMEM70	-0.365679293	0.016795104	-2.913754162
GABRQ	0.365691028	0.016795104	2.9138621
PRDX6	-0.365690348	0.016795104	-2.913855844
LOC728450	0.365653373	0.016803426	2.91351575
OAZ1	-0.365614631	0.016817241	-2.913159424
CETN3	-0.365592768	0.016823835	-2.912958343
ZNF383	-0.365576981	0.016827054	-2.912813155
NARS	-0.365572325	0.016827054	-2.912770334
UBE4B	-0.365565383	0.01682726	-2.912706489
C10orf118	-0.36555842	0.016827475	-2.912642454
FAM178B	0.365516592	0.01684263	2.91225779
MCHR2	0.365481379	0.01685496	2.911933968
AMPH	0.365455796	0.016858786	2.911698722
C14orf177	0.365446627	0.016858786	2.911614404
RBM47	-0.365449307	0.016858786	-2.911639052
FAM62B	-0.365465001	0.016858786	-2.911783365
C7orf25	-0.365415494	0.016869374	-2.911328138
FFAR1	0.365334011	0.016901604	2.910578941
ANKRD34A	0.365314621	0.016907165	2.910400667
ASB1	-0.365289634	0.016913688	-2.910170952
INTS4	-0.365286546	0.016913688	-2.910142556
PTCHD2	0.36525752	0.0169234	2.909875717
SLC24A5	0.365239941	0.016928189	2.909714115
F2	0.365213676	0.016936719	2.909472667
SMEK3P	0.365183292	0.016944249	2.909193361
XPO6	-0.365186595	0.016944249	-2.90922372
RBP2	0.365139351	0.016960406	2.908789456
SMAD5	-0.36510988	0.016970335	-2.908518564
ZZEF1	-0.365092514	0.016975044	-2.908358954
LAIR2	0.365072095	0.016981073	2.908171275
KIAA0947	-0.365064801	0.016981437	-2.908104239
TRIM9	0.365006093	0.016997182	2.907564683
PHACTR1	0.364993837	0.016997182	2.907452046

METTL5	-0.365007057	0.016997182	-2.907573545	yes
EBF4	0.36500203	0.016997182	2.907527345	
HS1BP3	0.364999503	0.016997182	2.907504122	
UCN2	0.364989661	0.016997182	2.907413667	
RPIA	-0.364972883	0.017000444	-2.907259481	
CLDN6	0.364969222	0.017000444	2.90722584	
ZNF770	-0.364948482	0.017006622	-2.907035248	
RAD50	-0.364889949	0.017029143	-2.906497374	
OR1A2	0.364865046	0.017036108	2.90626855	
C2orf70	0.364860969	0.017036108	2.906231089	
ODF2L	-0.364817239	0.017052251	-2.905829278	
SILV	0.364777076	0.017066861	2.905460273	
FTHL11	-0.364746745	0.017068847	-2.905181613	
RAB26	0.364761629	0.017068847	2.905318355	
USP7	-0.364751267	0.017068847	-2.905223158	
C16orf70	-0.364757482	0.017068847	-2.905280254	
C16orf79	0.364728767	0.017073487	2.90501645	
VASP	0.36472317	0.017073487	2.904965027	
ERCC4	-0.364683158	0.017085953	-2.904597446	
ZBED5	-0.364681554	0.017085953	-2.904582718	
TNP1	0.364673651	0.017086591	2.904510114	
ACTR3	-0.364645744	0.017095908	-2.904253755	
C19orf67	0.364633367	0.017098489	2.904140064	
OR10Q1	0.364622297	0.017100503	2.904038375	
STK35	-0.364601473	0.017106752	-2.903847091	
C6orf70	-0.364569503	0.01711226	-2.90355344	
SLC37A3	-0.364570234	0.01711226	-2.903560148	
SNORD46	0.364574203	0.01711226	2.90359661	
NET1	-0.364555219	0.017115673	-2.903422241	
NF1	-0.364548064	0.01711599	-2.903356516	
RBM16	-0.364523944	0.017120887	-2.903134984	
NOLC1	-0.364528919	0.017120887	-2.903180675	
CPA1	0.364499727	0.017121962	2.902912565	

NNT	-0.364491567	0.017121962	-2.90283762
TCTN3	-0.364497415	0.017121962	-2.902891329
NPTN	-0.364476798	0.017121962	-2.902701982
C17orf82	0.364509211	0.017121962	2.902999665
RPL7AP53	0.364470698	0.017121962	2.902645957
KIF1A	0.364470113	0.017121962	2.902640582
EVI5	-0.364479645	0.017121962	-2.902728125
RBM12	-0.364440902	0.017131866	-2.902372318
C15orf41	-0.364427676	0.017134827	-2.90225085
CYP3A4	0.364387323	0.017149583	2.901880278
LOC646813	-0.364331741	0.01717098	-2.901369888
RPL18	-0.364296512	0.017183531	-2.901046411
VPS13D	-0.364272164	0.017191346	-2.900822851
ZNF175	-0.36422795	0.017207829	-2.900416901
HEATR7B2	0.364207336	0.017214025	2.900227639
EXOSC4	0.364191556	0.017218113	2.900082769
ARF6	0.364169707	0.017222053	2.899882182
SIGLEC5	0.364175366	0.017222053	2.899934136
LOC643751	-0.364160433	0.017223303	-2.899797042
TUBB3	0.364111403	0.017239116	2.899346943
TEX14	0.364112572	0.017239116	2.899357673
LOXL2	0.36409971	0.017241426	2.899239596
SNAI1	0.364090244	0.017242762	2.899152702
KCNC2	0.364069896	0.017248854	2.898965925
CYP7A1	0.364005746	0.017274107	2.898377085
LOC388955	-0.363999174	0.01727418	-2.898316764
MS4A10	0.363949304	0.017293209	2.897859046
SLC2A13	-0.363866807	0.017325831	-2.897101931
GCG	0.363862076	0.017325831	2.897058516
KIF2A	-0.36385122	0.017327784	-2.896958892
C11orf40	0.363809643	0.017337431	2.896577354
ATP2B1	-0.363808542	0.017337431	-2.896567252
C4orf30	-0.363803627	0.017337431	-2.896522152

GUCA1C	0.363805221	0.017337431	2.89653678
AGA	-0.363796249	0.01733786	-2.896454451
ANKRD5	-0.363775565	0.017344131	-2.896264651
BMF	0.363761086	0.017347678	2.896131797
ENOSF1	-0.363744479	0.017349352	-2.895979414
WRB	-0.363744792	0.017349352	-2.895982287
KRBA1	0.363730197	0.017352815	2.895848371
BCLAF1	-0.363685816	0.017369506	-2.89544117
CISD1	-0.363673342	0.017372178	-2.895326722
HOXA9	0.363660662	0.017374942	2.895210383
SNUPN	-0.363626241	0.017387268	-2.89489459
ENTHD1	0.363598598	0.017389322	2.894640987
ECH1	-0.363603841	0.017389322	-2.894689093
COPS4	-0.363613652	0.017389322	-2.8947791
TUG1	-0.363596005	0.017389322	-2.894617203
TREML4	0.363576312	0.017392364	2.894436541
KIAA0528	-0.363581335	0.017392364	-2.894482627
PCDHA3	0.363546433	0.017397483	2.894162451
IL25	0.363545515	0.017397483	2.894154029
DENND1C	0.363558011	0.017397483	2.894268662
STAG1	-0.363512364	0.017406454	-2.893849931
HTR3E	0.36351556	0.017406454	2.893879246
ABHD3	-0.36346078	0.017426364	-2.893376773
HOXB2	0.363422854	0.01744027	2.893028908
C3orf55	0.363383388	0.017447779	2.892666942
GNAT2	0.363373477	0.017447779	2.892576038
KLHL35	0.363386435	0.017447779	2.892694883
NOP58	-0.36339371	0.017447779	-2.892761605
CABP5	0.36336834	0.017447779	2.892528933
PRRG3	0.363367537	0.017447779	2.89252156
NLRP9	0.363345897	0.017448884	2.892323099
RBM3	-0.363346116	0.017448884	-2.892325113
STAT3	-0.363350666	0.017448884	-2.892366842

GPBP1	-0.363308763	0.017462456	-2.891982554
TM4SF1	-0.363284056	0.01747055	-2.891755977
RABIF	-0.363258595	0.017476163	-2.891522494
LOC644037	0.363263847	0.017476163	2.891570661
RBM18	-0.363236552	0.017483085	-2.891320362
C1GALT1C1	-0.363204966	0.017494228	-2.891030737
GDF2	0.36317626	0.017504103	2.890767524
SPATA8	0.363158654	0.017509072	2.890606092
SNORD116-23	0.363139214	0.017514854	2.890427853
ARF1	-0.363130166	0.017516038	-2.8903449
FAM63B	-0.363107244	0.017523365	-2.890134736
C1orf27	-0.363081381	0.017531995	-2.889897622
LOC100129488	0.363057664	0.017539247	2.889680197
NBR1	-0.36305227	0.017539247	-2.889630745
ATL3	-0.363011381	0.017551723	-2.889255896
ENTPD8	0.363012965	0.017551723	2.889270415
MRPL30	-0.362991279	0.017557813	-2.889071622
OR6N1	0.362982291	0.017558975	2.888989226
NUP54	-0.362959517	0.017566252	-2.888780468
PEX12	-0.362884294	0.017596818	-2.888090966
SDC4	-0.362857106	0.01760607	-2.887841773
OR5T1	0.362828613	0.017615907	2.887580623
EMILIN1	0.362791944	0.017623812	2.887244561
SPINK9	0.362797742	0.017623812	2.8872977
SRF	0.362791747	0.017623812	2.887242756
DLGAP4	0.362784963	0.017624	2.887180581
ZNF846	-0.36276067	0.017629148	-2.88695795
PLA2G5	0.362764122	0.017629148	2.886989582
SLU7	-0.362744258	0.01763362	-2.886807546
GARNL4	0.362668927	0.01766282	2.886117237
CHST9	-0.362665963	0.01766282	-2.886090084
OR4F6	0.362613793	0.017683244	2.885612058
ZBTB8OS	-0.362587543	0.017692118	-2.885371541

TMEM216	-0.362580027	0.017692636	-2.885302672	
SNORD115-15	0.362532324	0.017707557	2.884865622	
USP54	-0.36252753	0.017707557	-2.8848217	
ANXA2	-0.362535992	0.017707557	-2.884899234	yes
TANK	-0.362473544	0.017728837	-2.884327124	
CDS1	-0.362418404	0.017734667	-2.883822006	yes
SLC29A4	0.362410865	0.017734667	2.883752945	
SLC35B3	-0.362445782	0.017734667	-2.884072799	
BIVM	-0.362422238	0.017734667	-2.883857129	
LOC619207	0.362419291	0.017734667	2.883830131	
DRGX	0.362420333	0.017734667	2.883839674	
GLIS2	0.362430235	0.017734667	2.883930378	
HIST1H2AG	0.362409688	0.017734667	2.883742164	
MBOAT4	0.362398385	0.017736882	2.883638627	
TSSK2	0.3623801	0.01774222	2.883471136	
CNDP2	-0.362358288	0.017749138	-2.883271341	
LOC80054	0.362332535	0.017757821	2.883035456	
PPP2R5A	-0.362317926	0.01776152	-2.882901646	
LOC339483	0.362292729	0.01776996	2.882670872	
DMXL2	-0.362199435	0.017795575	-2.881816451	
C20orf103	0.362208886	0.017795575	2.881902996	
ADAM2	0.362213349	0.017795575	2.881943872	
ATP10D	-0.362197504	0.017795575	-2.881798761	
TTY14	0.362210597	0.017795575	2.88191867	
ADAM18	0.362209714	0.017795575	2.881910576	
HTR3C	0.362177088	0.017801712	2.881611799	
KIAA0240	-0.362171136	0.017801712	-2.881557294	
CEP110	-0.362139042	0.017810421	-2.881263394	
VN1R2	0.362141305	0.017810421	2.881284122	
CYP11B2	0.362122535	0.017814984	2.88111224	
LDLRAD3	0.362114405	0.017815788	2.881037799	
RIMS3	0.362088434	0.0178246	2.880799988	
NR2C1	-0.362070827	0.01782966	-2.880638773	

ADAMTS15	0.36205963	0.017831844	2.880536246	
MGA	-0.362006372	0.017851379	-2.880048623	
NAALADL2	-0.362003477	0.017851379	-2.880022113	
C1orf107	-0.361975319	0.017858343	-2.879764313	
CEP57	-0.361977359	0.017858343	-2.879782996	
DSG4	0.361954636	0.017864796	2.879574957	
SIRT5	-0.361920068	0.017872424	-2.8792585	
LOC440563	0.361928744	0.017872424	2.879337918	
PSMC6	-0.361918688	0.017872424	-2.879245863	
C20orf165	0.36188957	0.017882678	2.878979306	
C1orf61	0.361880662	0.017883839	2.87889776	
SHANK3	0.361823615	0.01790668	2.878375557	yes
FXVD3	-0.361809024	0.017910404	-2.878241994	
PGA5	0.361791891	0.017912423	2.878085172	
PSMA2	-0.361792368	0.017912423	-2.878089545	
TLX3	0.361774164	0.017913194	2.877922923	
SCCPDH	-0.361777102	0.017913194	-2.87794981	
CCPG1	-0.361771209	0.017913194	-2.87789587	
TSPAN1	-0.361733255	0.017927454	-2.877548488	
PSMD13	-0.361706635	0.01793661	-2.87730485	
ISM2	0.36162413	0.017969663	2.876549793	
FAM123C	0.361620788	0.017969663	2.876519208	
ACCN3	0.361600849	0.017975817	2.876336744	
BLOC1S2	-0.361527274	0.018003615	-2.875663487	
ZNF764	0.361526749	0.018003615	2.875658681	
CPNE5	0.361501964	0.018011974	2.875431902	
VPS45	-0.36149178	0.018013723	-2.875338726	
FAM169A	-0.361439042	0.018034753	-2.874856195	
GPHB5	0.36142159	0.018038452	2.874696532	
FOLR3	0.361412795	0.018038452	2.874616066	
KRT1	0.361411928	0.018038452	2.874608135	
LRRC28	-0.361396948	0.018039517	-2.874471087	
PGGT1B	-0.361399332	0.018039517	-2.874492895	

ADRB3	0.361387685	0.018039953	2.874386344
MYL10	0.361383358	0.018039953	2.874346758
ALG8	-0.361375364	0.018040715	-2.874273619
EIF1	-0.361343919	0.018049249	-2.873985957
TMEM128	-0.361347375	0.018049249	-2.874017568
C6orf100	0.361315228	0.018059401	2.873723489
FAM171A2	0.361300546	0.018061793	2.87358919
GALP	0.361297338	0.018061793	2.873559841
PCOLCE2	0.361260909	0.018075464	2.873226616
C11orf86	0.361252763	0.018076298	2.873152105
OR2K2	0.36121105	0.018089046	2.872770564
IDI1	-0.361205774	0.018089046	-2.872722308
TMEM90A	0.361212349	0.018089046	2.872782445
LEPREL2	0.361188521	0.018092801	2.872564502
SERP2	0.361178597	0.018092801	2.872473736
FLJ42280	0.361183066	0.018092801	2.872514609
DIRAS1	0.361162751	0.018094274	2.872328803
MDFI	0.361168511	0.018094274	2.872381486
STMN2	0.361118367	0.0180988	2.871922885
MAPRE1	-0.361135511	0.0180988	-2.872079673
HIBCH	-0.361114999	0.0180988	-2.871892083
ANXA2P3	0.361122346	0.0180988	2.871959269
MC3R	0.36111516	0.0180988	2.871893557
SUCLA2	-0.361123383	0.0180988	-2.871968753
HMGB1L10	-0.361058679	0.018118679	-2.871377027
GRB2	-0.361062454	0.018118679	-2.871411548
SPTY2D1	-0.361026365	0.018130517	-2.871081529
ZNF248	-0.360967736	0.018151479	-2.870545416
NAT1	-0.360971936	0.018151479	-2.870583822
PNLIPRP3	0.360938574	0.018161898	2.870278769
IGKV5-2	0.360900436	0.018176416	2.869930068
C15orf51	0.360886571	0.01817987	2.869803297
MAGEA4	0.360871461	0.018183891	2.869665157

ZNF493	-0.360857547	0.018187369	-2.86953794	
IP6K2	-0.360843807	0.018187898	-2.869412322	
GALNT4	-0.360845188	0.018187898	-2.869424952	
SLC43A1	0.360816921	0.018197298	2.869166528	
CXorf27	0.360791022	0.018206251	2.868929762	
PDCD6	-0.360774899	0.018209006	-2.868782374	
AGMAT	0.360766126	0.018209006	2.868702174	
CRYZL1	-0.360770433	0.018209006	-2.868741543	
ARIH2	-0.360741268	0.018216586	-2.868474941	
RHBDD2	-0.36073696	0.018216586	-2.86843556	
AMY2B	-0.360716464	0.018223079	-2.868248207	
CSMD3	0.36068268	0.01823302	2.867939394	
RILPL1	0.360682147	0.01823302	2.867934523	
TCEAL3	0.360650343	0.018244691	2.867643825	
DNAJC11	-0.360642903	0.018245221	-2.867575821	
SMARCAL1	-0.360635243	0.018245852	-2.867505803	
CDH9	0.360621031	0.018247182	2.867375912	
NRG3	0.360611282	0.018247182	2.867286806	
GAPVD1	-0.36061676	0.018247182	-2.867336876	
SC5DL	-0.360607219	0.018247182	-2.867249669	
SCGB1C1	0.360568737	0.018261918	2.866897966	
TRIM58	0.360561491	0.018262361	2.866831744	
KIAA1949	0.360534249	0.018268673	2.866582779	
C1orf69	0.360528878	0.018268673	2.866533692	
NKIRAS1	-0.36052912	0.018268673	-2.866535904	
ZDHHC24	0.360515401	0.018271971	2.866410537	
RAPGEF3	0.36049697	0.018277539	2.866242101	yes
TIAM2	0.360473446	0.018285442	2.866027133	
FDPSL2A	-0.36037253	0.018328851	-2.865105004	
VGLL2	0.360348117	0.018337181	2.864881945	
UNC5C	0.360307345	0.018353032	2.864509429	
NINJ1	0.360289047	0.01835856	2.864342262	
C9orf68	-0.360269122	0.018364839	-2.864160228	

SPATA21	0.360164367	0.018409547	2.863203267	
PYGM	0.360153192	0.018409547	2.863101184	
NSMAF	-0.360155543	0.018409547	-2.863122662	
UBE2M	0.360146805	0.018409602	2.863042838	
ZC3H11A	-0.360128904	0.018414962	-2.86287933	
TEKT5	0.360113613	0.018419121	2.86273966	
C1orf103	-0.360090692	0.0184268	-2.862530303	
UPF2	-0.360054011	0.01844083	-2.862195272	
MIPEP	-0.360005712	0.018460236	-2.861754152	
LOC400696	0.35996415	0.018476544	2.861374581	
TMEM192	-0.359936023	0.018486651	-2.861117717	
IGHV7-81	0.359900133	0.018489421	2.860789975	
LOC389936	0.359907908	0.018489421	2.860860974	
KIF16B	-0.35989921	0.018489421	-2.860781549	
C10orf119	-0.359898491	0.018489421	-2.860774981	
SUCLG1	-0.35990689	0.018489421	-2.860851678	
SEC16B	0.359892449	0.018489421	2.860719808	
BANF2	0.359837797	0.018505862	2.860220768	
AWAT2	0.359838374	0.018505862	2.860226036	
OR5W2	0.359831868	0.018505862	2.860166629	
DLK2	0.359834357	0.018505862	2.860189352	yes
LOC100131170	0.359823388	0.01850689	2.860089197	
LIPC	0.359772866	0.018527385	2.859627908	
CNNM1	0.359741319	0.018539103	2.859339884	
OR2T8	0.35969879	0.01855592	2.858951615	
SNORD115-7	0.359675312	0.018562528	2.858737276	
FBXO21	-0.359672034	0.018562528	-2.858707346	
HMGXB4	-0.359664302	0.018563213	-2.85863676	
SYTL2	-0.359651266	0.018566359	-2.858517763	
PEX5L	0.359634687	0.01857115	2.858366418	
MBL2	0.359618311	0.018572947	2.858216922	
LOC728844	-0.359621877	0.018572947	-2.858249481	
NHSL2	0.359547148	0.018603096	2.857567342	

SF3A3	-0.359520713	0.018612479	-2.857326056
ATCD1	0.359458516	0.018638509	2.856758384
FGFRL1	0.359440652	0.018639195	2.856595354
SVOP	0.35943829	0.018639195	2.856573791
PCDHA2	0.359449677	0.018639195	2.856677717
SLC35E4	0.359365962	0.018667065	2.855913732
SLCO1C1	0.359369328	0.018667065	2.855944445
BBS4	-0.359349676	0.018671744	-2.855765111
ZDHHHC14	0.359331614	0.018677253	2.85560029
UPK2	0.359319535	0.018679972	2.855490068
ZBTB33	-0.359297862	0.018685305	-2.855292299
PHF11	-0.359295611	0.018685305	-2.855271757
BUB3	-0.359268687	0.018694953	-2.85502609
ABI3	0.359244388	0.01870338	2.85480437
CCDC107	0.359209464	0.018716773	2.854485731
WDR40B	0.359201606	0.018717527	2.854414032
ISOC2	0.359165901	0.018731295	2.854088278
VWA5B2	0.359134642	0.018742992	2.853803092
WNT3	0.359103332	0.018754719	2.853517456
RBL2	-0.359093819	0.018756249	-2.853430672
CACYBP	0.359044652	0.018776346	2.852982163
MSI2	-0.359029428	0.018780339	-2.852843294
C15orf45	0.359023645	0.018780339	2.852790539
CYP8B1	0.358925131	0.01882361	2.851891972
SENP6	-0.358888838	0.018837359	-2.851560963
GFER	0.358883368	0.018837359	2.851511081
GART	-0.358869943	0.018840408	-2.851388643
ORC4L	-0.35885816	0.018840408	-2.85128118
OTOF	0.35885857	0.018840408	2.851284921
FAM29A	-0.358799121	0.018859358	-2.850742776
MPPED1	0.358804908	0.018859358	2.850795547
FPGT	-0.358808395	0.018859358	-2.850827341
OR9A4	0.358736144	0.018875677	2.850168494

KLHL18	-0.358723319	0.018875677	-2.85005155	
TMEM188	-0.358720787	0.018875677	-2.850028459	
KPRP	0.358750459	0.018875677	2.850299026	
PCDH24	0.358749577	0.018875677	2.850290986	
CHMP1B	-0.358725808	0.018875677	-2.85007425	
ST3GAL2	0.358725615	0.018875677	2.850072487	yes
COQ10B	-0.358713316	0.01887626	-2.84996034	
MAPKAPK5	-0.358685108	0.018886602	-2.849703134	
MGEA5	-0.358649492	0.018897503	-2.849378401	
SH3TC1	0.358654592	0.018897503	2.8494249	
GML	0.358634288	0.018899258	2.849239782	
OR1F1	0.35863331	0.018899258	2.849230858	
CCNDBP1	-0.358610789	0.018906932	-2.849025537	
INHBE	0.358568741	0.018923811	2.848642186	
TMEM45B	-0.358539898	0.018926128	-2.848379238	
INHBA	0.358532707	0.018926128	2.848313689	
LOC375337	0.358535432	0.018926128	2.84833853	
GOLT1B	-0.358555675	0.018926128	-2.848523071	
ANKIB1	-0.35854599	0.018926128	-2.848434778	
MAGEA8	0.358509402	0.018934182	2.848101239	
NCRNA00095	0.358490665	0.018937151	2.84793043	
ALG11	-0.358492484	0.018937151	-2.847947014	
DSCR4	0.358448646	0.018954041	2.847547407	
PRDM9	0.358438088	0.018956088	2.847451168	
PPP2CB	-0.358430435	0.018956765	-2.847381415	
GLT1D1	0.358417848	0.018959772	2.847266678	
SLC20A1	-0.3583847	0.018972488	-2.84696455	
CYB5R1	-0.358376896	0.018973238	-2.846893415	
FLJ90680	0.358359816	0.01897837	2.846737746	
XRN1	-0.358350734	0.018979725	-2.846654969	
OCIAD1	-0.358337602	0.018982993	-2.846535286	
RNF19B	-0.358320928	0.018987937	-2.846383313	
OR51D1	0.358286053	0.019001486	2.846065483	

KLHL20	-0.358267385	0.019007377	-2.84589535	
PDE8A	-0.358216588	0.019028477	-2.845432437	
TEDDM1	0.358182997	0.019041444	2.845126344	
SCGB3A2	0.35813729	0.019060162	2.844709858	
MRPL35	-0.358114154	0.019068188	-2.844499057	
RPL7P48	0.358075056	0.019082398	2.844142824	
ACTN4	-0.358071783	0.019082398	-2.844112996	
GMEB1	-0.357982673	0.019121777	-2.843301164	
DCST2	0.357927225	0.019145199	2.842796043	
TGFA	-0.357913376	0.019148834	-2.842669887	yes
SYNGR3	0.357903417	0.019150619	2.842579168	
OR4N2	0.357893176	0.019152538	2.842485889	
PAPD4	-0.357858192	0.019166241	-2.842167221	
STX16	-0.357796162	0.019192849	-2.841602237	
RP5-1022P6.2	-0.357781076	0.019197083	-2.841464835	
CCR3	0.35775161	0.01920818	2.841196466	
ACTL7A	0.357742733	0.019208312	2.841115623	
RABGEF1	-0.35773892	0.019208312	-2.841080897	
DYM	-0.35771351	0.019217478	-2.840849486	
LOC139431	0.357680327	0.019223486	2.840547293	
LRRN4CL	0.357680596	0.019223486	2.840549743	
SR140	-0.35767181	0.019223486	-2.840469729	
C5orf36	-0.357669908	0.019223486	-2.840452406	
USP25	-0.357693657	0.019223486	-2.840668684	
PAWR	-0.357659665	0.019225416	-2.840359136	
AIM1	-0.357628474	0.019237353	-2.840075099	
RPLP1P3	0.357600441	0.019247786	2.839819838	
AMDHD1	0.357582476	0.019253411	2.839656248	
CHMP2A	-0.357575264	0.019253895	-2.83959058	
ALDH8A1	0.357558039	0.019259168	2.839433745	
NPM3	0.357538532	0.019262569	2.839256126	
ETNK1	-0.357539808	0.019262569	-2.83926775	
ATP9B	-0.357526517	0.019265352	-2.839146729	

SCLT1	-0.357502736	0.019273765	-2.838930213
ADNP	-0.357483511	0.019278973	-2.838755172
SNORD114-26	0.357479465	0.019278973	2.83871834
PGK2	0.35746908	0.019280978	2.838623794
ANXA11	-0.35745023	0.019287038	-2.838452178
EDN2	0.357430099	0.019291491	2.838268905
ATP5S	-0.357428544	0.019291491	-2.838254749
TRIM60	0.357401411	0.019295591	2.838007743
SLC30A8	0.357406455	0.019295591	2.838053656
PAPOLG	-0.357411257	0.019295591	-2.838097377
TMEM218	-0.357334162	0.019324853	-2.837395558
SERPINB12	0.357287839	0.019344106	2.836973909
LOC645195	0.357263489	0.019351558	2.836752271
KIAA1109	-0.357259938	0.019351558	-2.836719946
C12orf50	0.35722928	0.019363308	2.836440911
THOC7	-0.357216187	0.019364483	-2.836321738
LRRFIP2	-0.357214462	0.019364483	-2.836306038
OR5AP2	0.357196681	0.019370053	2.836144207
KRTAP6-3	0.357153805	0.019381742	2.835753998
C16orf86	0.357161951	0.019381742	2.835828134
LIN28	0.357159936	0.019381742	2.835809795
MTAP	-0.357119389	0.019395316	-2.835440795
IGSF22	0.356999208	0.019450212	2.834347183
HSPA1A	-0.35697359	0.019459584	-2.834114089
LOC440733	0.356961127	0.019462613	2.834000692
RAET1G	0.35694032	0.019469668	2.833811383
ERLIN2	-0.35692644	0.0194704	-2.83368509
LOC645225	0.356931972	0.0194704	2.833735429
C8orf48	0.356912306	0.01947358	2.833556499
ZNF808	-0.356907489	0.01947358	-2.833512672
DSPP	0.356892414	0.019477874	2.833375526
RPL26P19	0.356885528	0.019478215	2.833312876
FLJ90757	0.356873748	0.019480919	2.833205708

TMEM123	-0.356847601	0.019490561	-2.832967836	
HEBP2	-0.356787802	0.01951353	-2.83242384	yes
TOMM70A	-0.356787708	0.01951353	-2.832422984	
TBC1D4	0.35676921	0.019519487	2.832254719	yes
OR10G2	0.356757354	0.019522234	2.83214687	
GALNTL1	0.356720711	0.019536972	2.831813563	yes
IRF6	-0.356710328	0.019538268	-2.831719122	
CCNC	-0.356705685	0.019538268	-2.831676888	
C10orf110	0.356692269	0.019541774	2.83155486	
ATP6V1H	-0.356679135	0.019545143	-2.831435399	
COG4	-0.356668544	0.019547282	-2.831339074	
SEZ6L2	0.356634746	0.019560659	2.831031679	
COMMD1	-0.356625328	0.019562232	-2.830946025	
C4orf34	-0.356605116	0.019563347	-2.830762199	
GNGT1	0.35660452	0.019563347	2.830756778	
FAM3A	0.356613004	0.019563347	2.830833934	
FAM71D	0.356566163	0.019578944	2.830407939	
TMEM149	0.356526123	0.019595367	2.830043821	
C22orf28	-0.356515052	0.019597746	-2.829943142	
PRKAA2	-0.356472036	0.019615627	-2.829551984	
SH2D4B	0.35645008	0.019623294	2.829352335	
EP300	-0.35644197	0.019623785	-2.829278596	
GBAS	-0.356436739	0.019623785	-2.829231029	
MKLN1	-0.356425042	0.019626472	-2.829124676	
INPP5F	-0.35638819	0.019641381	-2.828789596	
CSE1L	-0.356373546	0.019642508	-2.828656454	
LOC644717	0.356376272	0.019642508	2.828681238	
DAO	0.356346581	0.01965262	2.828411294	
TUBGCP3	-0.356333173	0.019656143	-2.828289393	
DSCAML1	0.356311588	0.019660649	2.828093151	
RG9MTD2	-0.356315808	0.019660649	-2.828131515	
ADK	-0.356298505	0.019661926	-2.827974205	
FKBP1B	0.356283223	0.019661926	2.827835278	

RGAG1	0.356285937	0.019661926	2.827859956	
TMEM67	-0.356286573	0.019661926	-2.82786573	
ADIPOQ	0.356278179	0.019661926	2.827789422	
LOC646799	0.356270784	0.019662529	2.827722199	
SNX19	-0.356261166	0.019664214	-2.827634756	
GAB4	0.356230046	0.019676359	2.82735186	
LOC285696	0.356192644	0.019691569	2.827011865	
LRRTM2	0.35614465	0.019711951	2.826575617	
ROM1	0.356137154	0.019712606	2.826507477	
HBII-52-24	0.35605818	0.019742118	2.825789684	
MIP	0.356067874	0.019742118	2.825877786	
LOC441931	0.356062262	0.019742118	2.825826783	
ZNF774	0.356045628	0.019745242	2.825675606	
NHEDC1	0.356016563	0.019746932	2.825411458	
RNF144B	-0.356035778	0.019746932	-2.825586085	
ACER3	-0.356011426	0.019746932	-2.825364771	
ARHGAP22	0.35602113	0.019746932	2.825452967	
OR51E2	0.356017309	0.019746932	2.825418234	
VPS54	-0.355971005	0.019763664	-2.824997435	
OR4K1	0.355919496	0.019785828	2.824529354	
GRK7	0.355898551	0.01978913	2.82433903	
ITGAV	-0.355888164	0.01978913	-2.82424465	
MGST1	-0.355889471	0.01978913	-2.824256523	
JMJD2A	-0.355903061	0.01978913	-2.824380019	
LOC729808	0.355878885	0.019790663	2.824160334	
MPST	0.355866503	0.019793714	2.824047827	
PCBP2	-0.355854123	0.019796765	-2.823935338	
SERBP1	-0.355819572	0.019807658	-2.823621401	
HSP90AA1	-0.355821971	0.019807658	-2.823643199	
USO1	-0.355793018	0.019817647	-2.823380143	
CATSPER3	-0.355785099	0.019818518	-2.823308198	
SLC22A17	0.355763973	0.019825855	2.823116255	yes
LRRTM3	0.355700531	0.019853926	2.822539893	

TELO2	0.355692424	0.019854892	2.822466239
ATP5L	-0.355656343	0.019869575	-2.822138469
OR4D6	0.355579378	0.019904341	2.821439353
FAM103A1	-0.355541826	0.019919778	-2.821098261
MRPL49	-0.355524993	0.019922019	-2.820945377
PRKRA	-0.35552975	0.019922019	-2.820988578
RAB21	-0.355482208	0.019934007	-2.820556785
LOC389634	0.355486531	0.019934007	2.820596051
DOK2	0.355490464	0.019934007	2.820631765
IL19	0.355464987	0.019939461	2.820400381
UPB1	0.355437903	0.019949769	2.820154413
PP8961	0.355375186	0.019977633	2.819584858
ANKRD13C	-0.355357901	0.019982114	-2.819427895
RPS6KA4	0.355353828	0.019982114	2.819390908
OR51G1	0.355283914	0.020013568	2.818756071
RPL29P8	0.355274751	0.020015064	2.818672871
CYP2C18	-0.355241106	0.020028646	-2.818367384
COX16	-0.35521863	0.02003369	-2.81816332
TAF1	-0.355219567	0.02003369	-2.818171822
C14orf132	0.355199973	0.020036149	2.817993933
SLC12A5	0.355195268	0.020036149	2.81795121
SCP2	-0.355198325	0.020036149	-2.817978966
NDUFS4	-0.355184206	0.020038586	-2.817850781
LY96	0.355152598	0.020051176	2.817563823
SETD2	-0.355110799	0.020065782	-2.817184365
MYH16	0.355114452	0.020065782	2.817217526
ANKHD1	-0.355085619	0.020075207	-2.816955777
CKAP5	-0.355078049	0.020075922	-2.816887058
LOC387720	0.35507179	0.020075989	2.816830246
FLJ45831	0.355037165	0.020090093	2.81651594
OR9G4	0.355007707	0.020100412	2.816248552
LOC391081	0.354994137	0.020100412	2.816125373
LRTM1	0.355000957	0.020100412	2.816187277

SPSB2	0.354991836	0.020100412	2.816104492
PLRG1	-0.354975878	0.020102254	-2.815959648
COPB2	-0.354976559	0.020102254	-2.815965826
ATN1	0.354959525	0.020107323	2.815811216
SLC4A1AP	-0.354929712	0.020119062	-2.81554063
RTN4	-0.354866804	0.02014722	-2.814969702
LOC100129492	-0.354857065	0.020149017	-2.814881314
C1orf86	0.354803441	0.020169562	2.814394679
MAB21L1	0.354805403	0.020169562	2.81441248
HHIP	0.354787707	0.020174338	2.814251905
DACT1	0.354760637	0.020184748	2.814006256
NPFF	0.354741502	0.020191218	2.813832627
ZNF648	0.354729093	0.020194347	2.813720026
OR4A15	0.354713511	0.020199054	2.813578641
GLIPR1L1	0.354689097	0.020208155	2.81335712
UHRF1BP1L	-0.354670525	0.020211312	-2.813188616
USP3	-0.354672015	0.020211312	-2.813202136
NEK1	-0.354651105	0.020217933	-2.813012413
C20orf43	-0.354625274	0.020227746	-2.812778056
FAM55A	0.354596257	0.020236108	2.8125148
ZNF629	0.354597496	0.020236108	2.812526036
PIK3C2A	-0.354557704	0.020252267	-2.812165041
C19orf41	0.3545384	0.020254633	2.811989919
FBXW2	-0.354528526	0.020254633	-2.811900347
ACR	0.354534332	0.020254633	2.811953014
CNTN5	0.354542397	0.020254633	2.812026177
MAN2A1	-0.354462399	0.020283257	-2.811300489
DCUN1D5	-0.354458901	0.020283257	-2.811268765
TRIM61	0.354427091	0.020296083	2.810980226
KCNRG	-0.354370384	0.020319198	-2.810465884
PRTG	0.354368592	0.020319198	2.810449629
CNKS3	-0.354335135	0.020332867	-2.81014619
BET3L	0.354322995	0.020335884	2.810036086

MYCN	0.354288196	0.020350234	2.809720487
LRIG2	-0.354277479	0.020352543	-2.809623294
SULT1C4	0.354269088	0.020353688	2.8095472
PRKAA1	-0.354207188	0.020381619	-2.808985867
OR51T1	0.354152335	0.020405953	2.808488477
CASP4	-0.354146427	0.020405953	-2.808434902
MDM2	-0.354134841	0.020408612	-2.808329853
TMCC3	0.354122824	0.020408612	2.808220891
ELAC2	-0.35412891	0.020408612	-2.808276072
VSIG8	0.354080721	0.020420113	2.807839142
LGALS2	0.3540755	0.020420113	2.807791808
C1orf147	0.354082514	0.020420113	2.807855404
ZNF799	-0.354078922	0.020420113	-2.807822834
TMC2	0.354044186	0.020432766	2.807507901
RAB6C	0.354032978	0.020435332	2.807406292
TRAK1	-0.354014561	0.02043764	-2.807239319
CRKRS	-0.354018688	0.02043764	-2.807276734
CEP290	-0.3540101	0.02043764	-2.807198874
NGLY1	-0.353991644	0.020443846	-2.80703156
A1CF	0.353976699	0.020448291	2.806896074
ATL2	-0.353965702	0.020450754	-2.806796385
SLC16A11	0.353945326	0.02045793	2.806611669
H2AFV	-0.353917018	0.020469093	-2.806355052
SIRPB2	0.35389273	0.020478241	2.806134892
PPEF1	0.35388353	0.020479805	2.806051493
TDRG1	0.353867787	0.020484659	2.8059088
ZNF71	0.353841784	0.020491614	2.8056731
CHST3	0.353846407	0.020491614	2.805715
MRPL45	-0.3538342	0.020492367	-2.805604362
CIB4	0.353740756	0.020530216	2.804757438
PGBD5	0.353746001	0.020530216	2.804804973
LTV1	-0.353742384	0.020530216	-2.804772189
RABL3	-0.353731066	0.020532033	-2.804669619

TEX28	0.353630965	0.020579447	2.803762475	
SORBS3	0.353614206	0.020584836	2.80361061	
USP47	-0.35357912	0.020599484	-2.803292691	
CLEC10A	0.353557596	0.020604798	2.803097654	
LOC401010	0.353556436	0.020604798	2.80308715	
TAPT1	-0.353547588	0.020606195	-2.803006978	
RASA2	-0.353472237	0.020641226	-2.802324271	
KIAA1191	-0.353451053	0.02064887	-2.802132345	
GCAT	0.353434156	0.020654346	2.801979259	
C1orf56	0.353410882	0.020663052	2.801768417	
TMEM30A	-0.353377806	0.020673969	-2.801468774	
UGCGL1	-0.353377174	0.020673969	-2.80146305	
LZTFL1	-0.353349106	0.020685113	-2.801208789	yes
ACOT9	-0.353342668	0.020685295	-2.801150466	
FAF2	-0.353293879	0.020695401	-2.800708523	
OR1D2	0.35330948	0.020695401	2.800849836	
IL17RB	0.353292352	0.020695401	2.800694689	
KIAA1310	-0.353297153	0.020695401	-2.800738185	
GLT8D1	-0.353306581	0.020695401	-2.800823581	
SOS1	-0.353276932	0.020700141	-2.800555018	
MAFA	0.353269944	0.020700604	2.800491722	
C14orf179	-0.353225036	0.020714145	-2.800084971	
IL1RAPL2	0.353227306	0.020714145	2.800105527	
FGF20	0.353236855	0.020714145	2.800192019	
LOC340900	0.353198749	0.020721578	2.799846886	
ASNSD1	-0.353198248	0.020721578	-2.799842346	
DPY19L4	-0.353181978	0.020724781	-2.799694994	
PMS2L1	-0.353179797	0.020724781	-2.799675241	
MED9	0.353173432	0.020724931	2.799617599	
KCNQ2	0.353144844	0.020736367	2.799358686	
LOC100132319	0.353100031	0.020748616	2.798952858	
ERI2	-0.353107825	0.020748616	-2.799023439	
RBM34	-0.353095984	0.020748616	-2.798916208	

METTL14	-0.35309332	0.020748616	-2.798892077	
TNN	0.3530904	0.020748616	2.79886564	
MLNR	0.353034689	0.020764604	2.798361149	
POLA1	-0.353041645	0.020764604	-2.798424138	
TH	0.353042868	0.020764604	2.798435207	
LAPTM4A	-0.353035258	0.020764604	-2.798366299	
RNF208	0.353017997	0.02077001	2.798210001	
RAB5B	-0.353006824	0.020772609	-2.798108832	
LOC100129540	0.3529241	0.020802371	2.797359809	
CCR7	0.352924774	0.020802371	2.797365913	
NGFRAP1	0.352924119	0.020802371	2.797359987	
RAB23	-0.352932598	0.020802371	-2.797436754	
UFSP2	-0.352899395	0.020811866	-2.797136139	
ABT1	-0.352871703	0.020815322	-2.796885426	
CEACAM16	0.352871938	0.020815322	2.79688756	
CAB39	-0.352862329	0.020815322	-2.79680056	
FOSL1	0.352868378	0.020815322	2.79685533	
RBM17	-0.352880032	0.020815322	-2.796960831	
INTS5	0.352853413	0.02081678	2.79671984	
LILRB2	0.352819183	0.020827306	2.796409961	
F11	0.352814594	0.020827306	2.796368414	
MUDENG	-0.352815217	0.020827306	-2.796374057	yes
ANKRD34B	0.352754422	0.020854902	2.795823711	
ZNF337	-0.352719756	0.020869312	-2.795509919	
ZDHHC6	-0.352714081	0.020869312	-2.795458553	
GRIK1	0.352692371	0.02087617	2.795262046	
DDX4	0.352688548	0.02087617	2.79522744	
PLAGL2	-0.352674123	0.020880447	-2.795096875	
SNORD115-32	0.352647191	0.02088598	2.794853111	
KLKBL4	0.352645144	0.02088598	2.794834585	
TGFBRAP1	-0.35265422	0.02088598	-2.794916728	
ELA3A	0.352630609	0.020888157	2.794703028	
OR5A2	0.352628789	0.020888157	2.794686555	

MEP1A	0.352598538	0.020900524	2.794412773
HRNR	0.352577686	0.020908093	2.794224054
LEFTY1	0.352479661	0.020955159	2.793336964
ERP29	0.352463777	0.020957103	2.79319323
HOXD12	0.352466857	0.020957103	2.793221097
LOC283685	0.352443561	0.020964363	2.793010295
C11orf57	-0.352424049	0.020971265	-2.792833745
FLJ11151	-0.352354768	0.021000229	-2.792206878
STX3	-0.35234944	0.021000229	-2.792158672
SLC30A3	0.352350086	0.021000229	2.792164522
LYG2	0.352322753	0.021010824	2.791917221
SLC26A8	0.352309762	0.021014391	2.79179969
UNC93A	0.352278377	0.021027109	2.791515748
BTD	-0.352272915	0.021027109	-2.791466331
MRPL51	-0.352233815	0.021044096	-2.791112606
TMEM74	0.35220088	0.021057924	2.790814669
LCAT	0.352128109	0.021092265	2.79015641
TRAFD1	-0.352110773	0.021093921	-2.789999601
PARP1	-0.352106778	0.021093921	-2.789963471
BEGAIN	0.352108988	0.021093921	2.789983455
GPR113	0.352086276	0.021101371	2.789778031
SNORD115-8	0.352022058	0.021125135	2.789197217
C9orf72	-0.35202738	0.021125135	-2.789245346
C11orf83	0.352033538	0.021125135	2.789301041
RAB13	0.352003684	0.021131498	2.789031039
GHDC	0.351942162	0.021160132	2.788474658
C6orf174	0.351849685	0.021204807	2.787638414
ETAA1	-0.351835803	0.021205336	-2.787512893
FAM70A	0.351833392	0.021205336	2.787491097
PPCS	-0.351830556	0.021205336	-2.787465454
FBXL2	-0.351806944	0.021214431	-2.787251951
PSMD2	-0.351704472	0.021260737	-2.78632548
LOC646976	0.351707885	0.021260737	2.786356344

CXorf1	0.351699439	0.021260737	2.786279981	
DCTN4	-0.351688397	0.021262009	-2.786180155	
MBNL3	-0.35168492	0.021262009	-2.786148727	
PRPF39	-0.351671746	0.021265713	-2.786029622	
FAM43A	0.351646052	0.02127233	2.785797351	yes
SLC34A3	0.351640896	0.02127233	2.785750734	
PTER	-0.351644966	0.02127233	-2.785787535	
VPS25	-0.351621519	0.021279253	-2.785575573	
TIMM8A	-0.351597033	0.02128883	-2.785354227	
NAPB	-0.351545261	0.02131258	-2.784886249	
hCG_1659830	0.351535164	0.021314693	2.784794991	
LPCAT3	-0.351508728	0.021322166	-2.784556039	
DDHD1	-0.351508811	0.021322166	-2.784556793	
ACOT6	0.35145048	0.021349316	2.784029581	
PRNT	0.351419325	0.021358378	2.783748017	
IRF5	0.351414985	0.021358378	2.783708795	
C21orf91	-0.351426058	0.021358378	-2.783808869	
FAM110A	0.351397379	0.021364406	2.783549676	
NROB2	0.351367154	0.021377005	2.783276532	
FLJ34503	0.351352948	0.021381266	2.783148156	
KIAA1128	-0.351291477	0.02141016	-2.782592671	
PAX6	0.351285056	0.021410368	2.782534651	
SUNC1	0.351272693	0.021413674	2.782422941	
SPIN3	0.351252387	0.021419948	2.782239454	
LATS2	0.351248622	0.021419948	2.782205437	
C2orf83	0.351237446	0.021422637	2.782104459	
GNB2L1	-0.351212244	0.021431303	-2.781876746	
TMEM170A	-0.35120278	0.021431303	-2.781791239	
CCDC28A	-0.351204421	0.021431303	-2.78180606	
ZNF506	-0.351189938	0.021434864	-2.781675206	
ARL6IP5	-0.351119371	0.021468571	-2.781037654	
PRO1768	0.351075832	0.021488185	2.780644324	
VN1R5	0.351053705	0.021496611	2.780444432	

C18orf26	0.350928926	0.021547496	2.779317325	
LPAR5	0.350926549	0.021547496	2.779295852	
RPE65	0.350928244	0.021547496	2.779311159	
STXBP3	-0.35092645	0.021547496	-2.779294957	
ULK1	0.350948149	0.021547496	2.779490952	
PMS2L4	-0.35082483	0.021593254	-2.778377165	
SH3GL2	0.350821183	0.021593254	2.778344229	
CD5	0.350830006	0.021593254	2.778423905	
DPPA5	0.350791255	0.021599498	2.77807395	
KLHL7	-0.350796001	0.021599498	-2.778116813	
SNORA71D	0.350797427	0.021599498	2.77812969	
THSD1P	-0.350772389	0.02160625	-2.777903574	
CCR8	0.350746174	0.021616865	2.77766685	
BMX	0.350736038	0.021619033	2.777575319	
TM9SF1	-0.350719551	0.02162454	-2.777426438	
TBC1D19	-0.35069909	0.021632138	-2.777241682	
C11orf73	-0.350677723	0.021640215	-2.777048741	
TMED2	-0.350639617	0.021657104	-2.776704673	
C7orf63	-0.350606706	0.021671267	-2.776407527	
ZNF431	-0.350580261	0.021675703	-2.776168768	
C12orf70	0.350580615	0.021675703	2.776171956	
SECISBP2	-0.3505864	0.021675703	-2.776224193	yes
RNF169	-0.350568001	0.021678998	-2.776058073	
KIF13A	-0.350520972	0.021700616	-2.775633499	
LOC387787	0.350501672	0.021707626	2.775459265	
EBF1	0.35048821	0.021711559	2.775337734	yes
MANBA	-0.350480683	0.021712362	-2.775269784	
AADAT	-0.350474612	0.021712398	-2.775214981	
C6orf191	0.350440286	0.02172734	2.774905113	
SKI	0.350428126	0.02173059	2.774795351	
MAP2K5	-0.350418515	0.021732495	-2.77470859	
FLJ35776	-0.350390834	0.02174394	-2.774458729	
LOC220429	0.350349671	0.021759344	2.77408718	

CYB561D1	0.350355452	0.021759344	2.77413936
CCL8	0.350312915	0.021775598	2.773755434
TMF1	-0.350273961	0.021793027	-2.773403862
CXorf64	0.350245087	0.021803588	2.773143273
BPTF	-0.350242003	0.021803588	-2.773115446
RPGRIP1L	-0.350225623	0.021809083	-2.772967619
OSBPL9	-0.350218684	0.021809582	-2.772904994
HAMP	0.35018297	0.021825317	2.772582699
PARP8	-0.350107494	0.021862145	-2.771901627
FAM168A	0.350100873	0.021862475	2.771841886
NFIA	-0.350076083	0.021869265	-2.7716182
DTWD1	-0.350076709	0.021869265	-2.771623846
HEATR4	0.350041535	0.021884418	2.771306481
KIF5B	-0.350034428	0.021885008	-2.77124236
HARS2	-0.35002559	0.021886518	-2.771162616
TGDS	-0.349986232	0.021904237	-2.77080752
MRPL53	-0.349973038	0.021908063	-2.770688487
NUDT21	-0.349927477	0.021925909	-2.770277448
YWHAE	-0.349927611	0.021925909	-2.770278662
TFB2M	-0.349905909	0.021931006	-2.770082879
DOCK7	-0.349908427	0.021931006	-2.77010559
C17orf71	-0.349882619	0.021937021	-2.769872775
AP3B1	-0.349883207	0.021937021	-2.769878081
FOXO4	0.349867407	0.021941926	2.769735558
NXP3	0.349838275	0.021954241	2.76947277
ZNF840	0.349811526	0.021965293	2.769231485
UBR2	-0.34976967	0.021984398	-2.768853943
FLJ45139	0.349750175	0.021988405	2.768678111
OTUD7B	-0.349755863	0.021988405	-2.768729411
OR52A5	0.349732199	0.021994795	2.768515976
FAM32A	-0.349717752	0.021999306	-2.768385677
PTAR1	-0.349703548	0.022003688	-2.768257567
WDR12	-0.349685806	0.022009957	-2.768097554

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TMIGD2	0.34965994	0.02201826	2.767864283	
GNPAT	-0.349658272	0.02201826	-2.76784924	
FBXO10	0.349646175	0.022018331	2.767740144	yes
CD1A	0.34964792	0.022018331	2.767755879	
OR4S1	0.349614202	0.0220322	2.767451802	
TP53INP1	-0.349572767	0.02205113	-2.767078154	
SPZ1	0.349558251	0.022055689	2.766947256	
C5orf42	-0.349483801	0.022092293	-2.766275939	
KRR1	-0.349466008	0.022098613	-2.76611551	
ZNF780A	-0.349410941	0.022118487	-2.765619021	
FLJ37543	0.34941111	0.022118487	2.765620543	
SNORA52	0.349421279	0.022118487	2.765712229	
DUSP14	-0.349368718	0.022128294	-2.765238357	
DUSP10	-0.349378981	0.022128294	-2.765330882	
DSC1	0.349372386	0.022128294	2.765271427	
MEOX2	0.349381206	0.022128294	2.765350938	
MAP3K4	-0.349339577	0.022140706	-2.76497564	
RFX3	-0.349304408	0.022156355	-2.764658597	
NT5DC1	-0.349285139	0.02216028	-2.764484897	
HMGCLL1	0.34928891	0.02216028	2.764518889	
LOC100129876	0.349240384	0.022181086	2.764081463	
FUT5	0.349232871	0.022181912	2.764013741	
PRDX1	-0.349205215	0.022190537	-2.763764465	
RPS11	-0.349203475	0.022190537	-2.763748779	
ZNF74	0.349198884	0.022190537	2.763707397	
LMTK2	-0.349188655	0.022192823	-2.763615195	
FGFR4	0.349142374	0.022214476	2.763198059	
SIGLEC14	0.34913529	0.022215074	2.76313421	
SETBP1	0.349123567	0.022218165	2.763028552	
TMEM49	-0.349076579	0.022240219	-2.762605076	
CD59	-0.349043591	0.022254756	-2.762307783	
POTEA	0.349036619	0.022255295	2.762244954	
KCNIP4	0.349020248	0.022260894	2.762097425	

FLJ41423	0.349007814	0.022264375	2.761985378	
MAGI3	-0.348981178	0.022273125	-2.761745349	
MPP5	-0.348979628	0.022273125	-2.761731385	
DYNC2LI1	-0.348961589	0.022279474	-2.761568829	
UCP3	0.348955909	0.022279474	2.761517652	
DEFB116	0.348943603	0.02228289	2.761406761	
C9orf97	-0.348853959	0.022324674	-2.760599043	
C1orf175	0.348848205	0.022324674	2.760547202	
RHBG	0.348854316	0.022324674	2.760602257	
PMS1	-0.348817142	0.022338219	-2.760267339	
COL16A1	0.348799466	0.022339109	2.760108084	
C8orf12	0.348797606	0.022339109	2.760091329	
CEP350	-0.348808249	0.022339109	-2.760187218	
CBR4	-0.348752945	0.022360008	-2.759688979	
TMEM19	-0.348709121	0.022377249	-2.759294188	
C14orf142	-0.348714668	0.022377249	-2.759344162	
FOXR1	0.34864429	0.022405866	2.758710202	
TM9SF3	-0.348650228	0.022405866	-2.758763686	
OR8H1	0.348589592	0.022430733	2.75821752	
PNLIPRP2	0.348586441	0.022430733	2.758189134	
KRTAP6-2	0.34856602	0.022438568	2.758005204	
COL11A1	0.34852533	0.022457392	2.757638737	
BTN2A3	0.348495472	0.022467122	2.75736983	yes
SLAIN2	-0.348498863	0.022467122	-2.757400366	
IDO2	0.348479195	0.02247272	2.757223238	
PSPC1	-0.348470732	0.02247408	-2.757147024	
C16orf57	0.348445815	0.022484368	2.756922633	
PGLYRP4	0.348415001	0.022497863	2.756645144	
LOC100133091	0.348397854	0.022500183	2.756490731	
OR8G5	0.348400574	0.022500183	2.756515222	
MRE11A	-0.348392866	0.022500183	-2.756445814	
C18orf16	0.348372102	0.022508226	2.756258839	
ZNF394	-0.348338569	0.022523211	-2.755956898	

ITPRIPL1	0.348322014	0.022528974	2.755807832	
SESN1	-0.348287503	0.022544502	-2.755497098	
HNRNPH1	-0.348262841	0.022554681	-2.755275051	
MURC	0.348214411	0.02256807	2.754839023	
EFCAB5	0.34820849	0.02256807	2.754785716	
NDNL2	0.348232241	0.02256807	2.754999545	
C10orf95	0.348223683	0.02256807	2.754922499	
KRTAP1-1	0.348217866	0.02256807	2.754870122	
PRKAR1A	-0.348171798	0.02258481	-2.754455389	
FMO1	0.348111845	0.022614242	2.753915675	
GFPT2	0.348090289	0.022622754	2.753721638	
UNC13A	0.3480843	0.022622777	2.753667723	
TCP11L2	-0.348065572	0.022627506	-2.753499145	
LMOD3	0.348063737	0.022627506	2.753482626	
CCDC88B	0.348041181	0.022633325	2.753279592	
BIRC2	-0.348041986	0.022633325	-2.753286842	
CHM	-0.348020493	0.02264137	-2.753093383	
ZBTB40	-0.348012856	0.022642294	-2.753024647	
OSGEP	-0.347979997	0.022656989	-2.752728895	
CLCN2	0.347909738	0.022692135	2.752096554	
ARG1	0.347853948	0.022714144	2.751594476	
COPS7A	-0.347851676	0.022714144	-2.751574036	
RGS16	0.347860003	0.022714144	2.751648969	
KRTAP22-1	0.347760209	0.022760989	2.750750957	
CMTM2	0.347738544	0.022768201	2.750556013	
ACSL5	-0.34773517	0.022768201	-2.750525656	
RPH3AL	0.347725826	0.022770067	2.750441577	
TOMM40L	0.347695159	0.02278363	2.750165654	
LOC387745	0.347682844	0.022784623	2.750054849	
TTYH3	0.347681469	0.022784623	2.750042483	
PAR6B	-0.347606944	0.02282228	-2.749371983	yes
SDF2	-0.347576875	0.022832276	-2.749101475	
LOC728554	0.347578023	0.022832276	2.749111806	

C4orf3	-0.347560546	0.022834723	-2.748954581	
LNX1	-0.347561593	0.022834723	-2.748964002	
CDC42EP5	0.347471469	0.022880461	2.748153283	
RPS2P35	0.347393666	0.022913537	2.747453481	
DERL2	-0.34739362	0.022913537	-2.747453064	
FHOD3	0.347398165	0.022913537	2.747493946	
SNORA54	0.347378201	0.022918765	2.747314382	
MAPK1	-0.347348144	0.022928793	-2.747044058	
ZCRB1	-0.347350693	0.022928793	-2.747066984	
GPR180	-0.34731417	0.022940988	-2.746738507	
PLA2G3	0.347320101	0.022940988	2.746791845	
WDR64	0.347250374	0.022972913	2.746164789	
TREM2	0.347244477	0.022972913	2.746111765	
WNK2	0.347228279	0.022978585	2.745966103	
SERINC3	-0.347222107	0.022978717	-2.745910596	
PSMC5	-0.347196455	0.022989615	-2.745679927	
MS4A8B	-0.347189963	0.022989924	-2.745621555	
CBLB	-0.347171497	0.022996854	-2.745455512	yes
VPRBP	-0.347127181	0.023018085	-2.74505704	
THUMPD2	-0.347118765	0.02301946	-2.744981368	
PAPOLB	0.347060354	0.023047164	2.744456198	
EIF3D	-0.347056864	0.023047164	-2.744424821	
KCNH8	0.347035715	0.023055595	2.744234678	
SFT2D1	-0.347028098	0.023056531	-2.744166196	
CCT8L1	0.347021422	0.023056945	2.744106178	
TDRKH	0.347004272	0.023059879	2.743951998	
UBN2	-0.347006806	0.023059879	-2.743974779	
LSM1	-0.346988057	0.023065581	-2.743806228	
EPHA4	-0.346957946	0.023078988	-2.743535534	
LOC285453	-0.346900587	0.023107523	-2.743019924	
RNF139	-0.346865676	0.023123616	-2.742706118	
SOCS4	-0.346816686	0.023143107	-2.742265776	
ZNF366	0.34682128	0.023143107	2.742307067	

SLC45A1	0.346812821	0.023143107	2.742231035	yes
AHSA1	-0.346734329	0.023183469	-2.741525584	
SRP19	0.346707912	0.023194878	2.741288171	
CCNI	-0.346694022	0.023196015	-2.741163348	
EFHD1	0.346696297	0.023196015	2.741183792	
ANKRD26	-0.34668666	0.023196817	-2.741097189	
FCN1	0.346637305	0.023221013	2.740653659	
UBAP2L	-0.346603634	0.023236484	-2.740351093	
TMEM174	0.346591297	0.023240061	2.74024024	
RPA1	-0.346584642	0.023240471	-2.740180435	
C11orf21	0.346576004	0.023241986	2.740102819	
OR52A4	0.346568179	0.023243049	2.740032504	
MAS1L	0.346531148	0.023260407	2.739699776	
BPIL2	0.346514742	0.023266261	2.739552371	
PLSCR1	-0.346495164	0.023273887	-2.739376465	
PFKP	-0.346427811	0.023308047	-2.73877135	
NR2C2	-0.34641802	0.023308047	-2.738683386	
CCDC126	-0.346416269	0.023308047	-2.738667654	
FLJ35424	0.34637505	0.023326522	2.738297365	
ARRDC3	-0.346371399	0.023326522	-2.738264565	
PTPN21	-0.346320077	0.023337661	-2.737803532	
JMJD3	0.346320986	0.023337661	2.737811697	
GRIN2B	0.346333409	0.023337661	2.737923297	
SIRT6	0.346311402	0.023337661	2.737725613	
SNORA48	0.346310093	0.023337661	2.737713854	
DEPDC7	0.346328727	0.023337661	2.737881232	
MAML1	0.346319391	0.023337661	2.73779737	
DUSP5P	0.346296689	0.023341854	2.737593447	
MKRN3	0.346278506	0.023345692	2.737430119	
ARHGAP19	-0.346278012	0.023345692	-2.737425685	
MOG	0.346268476	0.023347722	2.73734003	
NKAPL	0.346201489	0.023379241	2.736738358	
CD46	-0.346197527	0.023379241	-2.736702771	

FEZ1	0.346194472	0.023379241	2.736675332	yes
DLEU2L	-0.34618693	0.023380157	-2.736607597	
DCP2	-0.346160657	0.023389683	-2.736371634	
FBXO22	-0.346158121	0.023389683	-2.736348855	
MID1IP1	-0.346151686	0.023389979	-2.736291066	
RTTN	-0.346114267	0.023407651	-2.73595501	
PDIA6	-0.346084669	0.023420943	-2.73568921	
FTH1	-0.346032373	0.023446989	-2.73521959	
EAPP	-0.34600807	0.023457326	-2.735001357	
PATE2	0.345994213	0.023461795	2.734876932	
BCL9L	0.345972492	0.023470685	2.734681897	
CDC37L1	-0.345943407	0.023480401	-2.734420737	
GTDC1	-0.345947101	0.023480401	-2.73445391	
IL17A	0.345858964	0.023524604	2.733662584	
LOC100131510	0.34580053	0.023554209	2.73313798	
FLJ40194	0.345787512	0.023554893	2.733021114	
MEPE	0.345787794	0.023554893	2.733023649	
SLC11A1	0.345742351	0.023577038	2.732615712	
OPN5	0.345680706	0.023605178	2.73206237	
DHX35	-0.345683504	0.023605178	-2.732087481	
LOC100128576	-0.345661634	0.023612619	-2.731891181	
STAM	-0.345592497	0.023648372	-2.731270639	
ADAMTS17	0.345584296	0.023649425	2.731197036	
GBE1	-0.345566055	0.023649425	-2.731033325	
ZFR	-0.345562137	0.023649425	-2.730998159	
QRICH1	-0.345561139	0.023649425	-2.730989207	
TEX15	0.345561717	0.023649425	2.730994391	
MRPL33	-0.345533734	0.023661595	-2.730743254	
AGPAT9	-0.345521284	0.023665304	-2.730631523	
CAPZA3	0.345514651	0.02366572	2.730572002	
KIF5C	0.345485019	0.023679159	2.730306081	
ADAM20	-0.345427776	0.023708252	-2.7297924	
C1orf64	0.345421037	0.02370873	2.729731925	

PGLYRP2	0.34535156	0.023741452	2.729108515
GSG2	0.345353012	0.023741452	2.729121546
LOC136242	0.345317728	0.023757312	2.728804969
THOC5	-0.345308124	0.023759418	-2.7287188
KIAA1737	-0.345232568	0.023799008	-2.728040934
FAM20C	0.345181302	0.023824824	2.727581028
LITAF	-0.345162217	0.023832334	-2.727409817
HSPA9	-0.345152674	0.023834411	-2.727324211
LOC100128626	0.345126232	0.023846114	2.727087025
SNORA28	-0.345118994	0.023846881	-2.727022091
RAB3IL1	0.345104554	0.02385175	2.726892569
OR13C8	0.345068582	0.023868894	2.726569911
SPANXN2	0.345040579	0.023878142	2.726318738
SMARCC1	-0.345041391	0.023878142	-2.726326017
TMEM136	-0.345034289	0.02387837	-2.726262319
CTCF	-0.345024878	0.023880378	-2.726177917
TUBB2C	-0.345012258	0.023884217	-2.726064728
C12orf74	-0.344998809	0.02388853	-2.725944101
TULP4	-0.34496956	0.023901073	-2.725681772
C9orf80	-0.344965049	0.023901073	-2.725641316
LCE1B	0.344931331	0.02391418	2.725338924
FAM89A	0.344930313	0.02391418	2.725329798
AGTPBP1	-0.344911353	0.023921646	-2.725159762
KRT8	-0.344886661	0.023925665	-2.724938336
PAPD5	-0.344887735	0.023925665	-2.72494796
TMEM22	0.344890711	0.023925665	2.724974648
IL4I1	0.344877351	0.023927622	2.724854842
CCDC104	-0.344855302	0.023936857	-2.724657118
DUSP18	-0.344841076	0.023941625	-2.724529552
KIFC2	0.34480415	0.02395937	2.72419844
RCN2	-0.344758007	0.02397567	-2.723784692
IRS4	0.344759523	0.02397567	2.723798285
RNF14	-0.344762713	0.02397567	-2.723826889

UBE3A	-0.344741801	0.02397999	-2.72363939	
H1FX	0.344738696	0.02397999	2.723611554	
USP53	-0.344730338	0.023980536	-2.723536617	
SSB	-0.344725987	0.023980536	-2.723497602	
LIPH	-0.344707703	0.023987635	-2.723333672	
AP3M1	-0.344676401	0.024002189	-2.723053027	
CHUK	-0.344647515	0.024013226	-2.72279406	
OR2T10	0.344645377	0.024013226	2.722774893	
DOK1	0.34461879	0.024025091	2.722536539	yes
ZNF320	-0.344575931	0.024046161	-2.722152321	
TRMT11	-0.344570284	0.024046161	-2.722101704	
RNASE1	0.344552744	0.024052851	2.721944474	yes
FLT4	0.344507522	0.024075429	2.721539105	yes
C14orf23	0.344480031	0.02408784	2.721292693	
SLC31A2	0.344466819	0.024092055	2.721174272	
DCUN1D1	-0.344431375	0.024109044	-2.720856585	
CD28	0.344396523	0.024125703	2.720544219	
ZFP106	-0.344345186	0.024151858	-2.72008412	
LRRC38	0.344314393	0.024162823	2.719808162	
CSDE1	-0.344317343	0.024162823	-2.719834595	
FLJ32810	-0.344301818	0.024166683	-2.719695473	
TAC4	0.344269617	0.024181848	2.71940691	
LST-3TM12	0.344222635	0.024204815	2.718985908	
RPAP2	-0.344218028	0.024204815	-2.718944624	
RNASEH2C	0.344201676	0.024210859	2.718798102	
LETMD1	-0.344190329	0.024214018	-2.718696427	
SIX3	0.344182228	0.024215305	2.718623842	
FBXL5	-0.344153222	0.024228653	-2.718363947	
FAM65C	0.344131257	0.024235903	2.718167145	
IDH3B	-0.344128926	0.024235903	-2.718146253	
C11orf87	0.344089921	0.024255035	2.717796789	
CIB2	0.344059083	0.02426776	2.717520512	
BCL2L13	-0.344056159	0.02426776	-2.717494318	

SPN	0.34404302	0.024271963	2.71737661	
SFRS14	-0.344021776	0.024280851	-2.717186292	
CCNT1	-0.343974378	0.024304869	-2.716761687	
FAM158A	0.343917383	0.024334465	2.716251131	
RMI1	-0.343888336	0.024347893	-2.715990953	
RASL11B	0.343838792	0.024372722	2.715547189	
SOD1	-0.343833773	0.024372722	-2.71550224	yes
GPSM1	0.343799284	0.024389326	2.715193341	
hCG_1776018	0.343746999	0.024416273	2.714725079	
LOC100128225	0.343708853	0.024435027	2.714383461	
OSM	0.343690318	0.024442392	2.714217482	
ZBTB1	-0.343677155	0.024446635	-2.714099608	
ACAD11	-0.343648218	0.024460053	-2.71384048	
NKG7	0.343625156	0.024470058	2.71363397	
GPR179	0.343583668	0.024490349	2.713262483	
KRTAP4-1	0.343578569	0.024490349	2.713216826	
ARFIP1	-0.343568368	0.024492876	-2.713125485	
RASSF1	0.343540513	0.024505685	2.712876084	
IL22	0.343490199	0.024531592	2.71242561	
PIN1L	0.343471361	0.024539159	2.712256952	
ATXN7	-0.343408468	0.024572439	-2.711693905	
ATOH7	0.343398305	0.024574951	2.711602927	
SYT14	0.34337694	0.02457498	2.711411669	
REG1B	0.34337482	0.02457498	2.711392697	
IKZF5	-0.343378687	0.02457498	-2.711427309	
C16orf14	0.343383242	0.02457498	2.711468082	
PPTC7	-0.343345929	0.024585225	-2.711134073	
TGFBR1	-0.343339708	0.024585225	-2.711078385	
OSBPL2	-0.343340666	0.024585225	-2.711086963	
REST	-0.343321045	0.024592706	-2.710911323	
DYNC111	0.343314403	0.024593166	2.710851873	
GGT1	0.343278721	0.024610596	2.710532485	
C12orf51	-0.343257426	0.024619624	-2.710341879	

FAM71E1	0.343174265	0.024664862	2.709597575
CR1	0.343081449	0.024715834	2.708766954
ARHGEF3	-0.343045588	0.024733443	-2.708446052
TTC8	-0.342996247	0.024758981	-2.708004543
UNQ5814	0.34298506	0.024762114	2.707904444
REG3A	0.342974481	0.024764891	2.707809786
CD300A	0.342944353	0.024776532	2.707540216
SLC24A2	0.342942967	0.024776532	2.707527817
MMP9	0.342892653	0.024802681	2.707077656
C6orf106	-0.342884585	0.024803984	-2.707005476
LOC100130815	0.342876603	0.024805238	2.706934059
C7orf46	-0.34285445	0.024814831	-2.706735874
MFSD7	0.342821247	0.024830935	2.706438826
LOC647086	0.342796523	0.024839342	2.706217657
ATPBD4	-0.342795272	0.024839342	-2.706206461
WDR36	-0.342782918	0.024843174	-2.706095947
ATP5G2	0.342755966	0.024855609	2.705854848
VAPB	-0.342740125	0.024861499	-2.705713152
TXNRD1	-0.342733212	0.024862127	-2.705651307
COPS2	-0.34272639	0.024862701	-2.705590286
JOSD2	0.342633445	0.024914091	2.704758938
SNAP23	-0.342619042	0.024919144	-2.704630116
IGLL1	0.342606097	0.024919883	2.704514337
JMJD4	0.342611067	0.024919883	2.704558791
UNQ5830	0.342599344	0.024920419	2.704453944
CHD4	-0.342589161	0.024922981	-2.70436287
RAX2	0.342569539	0.02493112	2.704187385
TPRX1	0.342559661	0.024933503	2.704099041
TMC1	0.342531286	0.02494682	2.70384528
RPP25	0.342525339	0.024946881	2.703792096
ABCC2	0.342490134	0.024964243	2.703477267
C3orf43	0.342459668	0.024975354	2.703204823
PRPF18	-0.342465123	0.024975354	-2.703253609

C12orf11	-0.342431896	0.024988332	-2.702956492
FAM162B	0.342370358	0.02502132	2.702406241
G0S2	0.342359964	0.025024018	2.702313304
SETD5	-0.34234245	0.025030937	-2.702156712
SLC4A1	0.342322509	0.025039297	2.701978421
AGL	-0.34231175	0.025042214	-2.701882223
FBXO2	0.342300377	0.025045496	2.701780546
SLC35A3	-0.342265242	0.025062875	-2.701466419
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PRSS16	0.342235196	0.025069966	2.701197811
MAPK7	0.342234815	0.025069966	2.701194401
C1orf115	0.342229944	0.025069966	2.701150861
DPY19L2P2	-0.34222141	0.025071567	-2.701074563
FBXO42	-0.342200306	0.025080631	-2.700885901
TYR	0.342194144	0.025080825	2.700830821
CTRL	0.342144033	0.025107124	2.700382863
UGT2A1	-0.342128131	0.025113107	-2.700240719
BAI2	0.342107061	0.025122163	2.700052379
IGDCC3	0.342087193	0.025130508	2.699874788
CRABP1	0.342053072	0.025145223	2.699569816
TNFRSF13B	0.342050788	0.025145223	2.699549399
TRIM4	-0.342043127	0.025146312	-2.699480923
CRYGN	0.34200586	0.025165021	2.699147843
GOLGA1	-0.341970575	0.025176626	-2.698832491
FAM111A	-0.341968878	0.025176626	-2.698817319
SRPK2	-0.341969037	0.025176626	-2.698818747
PAFAH1B3	0.341908564	0.025209091	2.698278303
C21orf90	0.341882355	0.025221244	2.698044091
GNG10	0.341851964	0.025235896	2.69777252
AFM	0.3417881	0.025267065	2.697201854
C22orf24	0.341788359	0.025267065	2.697204171
CRYGB	0.3417737	0.025272185	2.697073192
B4GALT1	-0.341747291	0.025280793	-2.696837229

KIF21A	-0.34173016	0.025280793	-2.696684163	
BHMT	0.341737991	0.025280793	2.69675413	
SOS2	-0.341732042	0.025280793	-2.69670098	
CCDC61	0.341731485	0.025280793	2.696696004	
MCCD1	0.341723533	0.025281272	2.696624955	
C8orf51	0.341680428	0.025303558	2.696239835	
SLC30A7	-0.341647736	0.025317238	-2.695947772	
FAM160B1	-0.341645909	0.025317238	-2.695931445	
NUP43	-0.341619355	0.025326158	-2.695694225	
IL1F10	0.341621147	0.025326158	2.695710233	
FAM96A	-0.341521941	0.025381019	-2.694824023	
SCO1	-0.34149393	0.025391929	-2.694573821	
IFT88	-0.341492101	0.025391929	-2.694557481	
DNAJA4	-0.341452443	0.025408734	-2.69420326	yes
RETN	0.341457553	0.025408734	2.694248903	
C6orf26	0.341425772	0.025421248	2.69396504	
C6orf66	-0.341400492	0.025432931	-2.693739259	
UBB	-0.341382459	0.025440266	-2.693578208	
SPOP	-0.341346509	0.02545837	-2.693257137	
AFAP1L1	0.341324207	0.025468278	2.693057966	
RLN3	0.341306063	0.025475688	2.692895938	
SKIV2L2	-0.34127289	0.025492142	-2.692599697	
VIPR2	0.341259513	0.025493189	2.692480242	
SLC4A4	-0.341262447	0.025493189	-2.692506441	
PCOLCE	0.341238621	0.025502261	2.692293684	
GRINL1A	0.341223728	0.025507723	2.692160704	
PNMAL1	0.341144201	0.025549521	2.691450607	
KLKP1	0.341142707	0.025549521	2.691437267	
PYCR1	0.341135864	0.02555014	2.691376162	
ADAM9	-0.341115892	0.025558675	-2.69119785	
C12orf24	0.341082744	0.02557516	2.690901898	
MED22	0.341073673	0.025577124	2.69082091	
CENPA	0.341066086	0.025578194	2.690753177	

IRX6	0.34103262	0.025594881	2.690454412	
RESP18	0.341000399	0.025610826	2.690166766	
OR8D1	0.340978053	0.025620813	2.689967279	
DYNC1H1	-0.340961111	0.025627538	-2.689816045	
HAO1	0.340917229	0.025650551	2.689424332	
LOC100133439	-0.3408918	0.025662417	-2.689197347	
ZDHHC4	-0.34087311	0.025670209	-2.689030526	
FAM69A	-0.340821883	0.025697703	-2.688573297	
USP37	-0.340814227	0.02569882	-2.688504969	
HOXB8	0.340804273	0.02570133	2.688416124	
C3orf52	-0.340782726	0.025710863	-2.688223819	yes
CSNK2A1	-0.340769737	0.025715213	-2.688107892	yes
SCFD1	-0.340749102	0.025724199	-2.687923733	
RP11-64P12.3	0.340707518	0.025745892	2.687552625	
KDELR2	-0.34066703	0.025766725	-2.687191316	
SMCR5	0.340661567	0.025766725	2.687142568	
RANBP2	-0.340648282	0.025771264	-2.687024022	
ARID4B	-0.340640386	0.025772532	-2.686953561	
PSPN	0.34063346	0.025773211	2.686891755	
SNX10	0.34061462	0.025781125	2.686723641	
WDR44	-0.340574557	0.025801934	-2.686366166	
ZMAT4	0.340528428	0.025826447	2.685954583	
KRT85	0.340521579	0.025827081	2.685893474	
ZNF585A	-0.34051437	0.025827935	-2.685829155	
PTPN4	-0.340404872	0.025891063	-2.684852267	
PIGK	-0.340343849	0.025924733	-2.684307904	
UNQ6484	0.34031825	0.025936812	2.684079549	
S100B	0.340297361	0.025946019	2.683893228	
GFRAL	0.340266959	0.025961039	2.683622049	
TMEM108	0.340258432	0.025962702	2.683545987	
C21orf99	0.340242482	0.02596367	2.683403725	
FBXL4	-0.340237027	0.02596367	-2.683355071	
ZNF702P	-0.340228427	0.02596367	-2.683278372	

TLL2	0.340240415	0.02596367	2.683385288
OFD1	-0.340227833	0.02596367	-2.683273066
VCX	0.340205225	0.02596685	2.683071431
TRNT1	-0.340205817	0.02596685	-2.68307671
ATP7B	-0.34021527	0.02596685	-2.68316102
THOC2	-0.340193659	0.025970373	-2.68296827
SCRG1	0.340187124	0.025970823	2.682909988
CLEC4E	0.340156279	0.025986127	2.682634898
OR8G2	0.340149932	0.025986463	2.682578295
SH3RF3	0.340103241	0.026011468	2.682161898
ZNF227	-0.34008337	0.026020078	-2.68198469
C20orf191	0.340050873	0.02602318	2.681694904
KCTD20	-0.340049324	0.02602318	-2.681681088
KIF4B	0.34007039	0.02602318	2.681868943
C9orf126	-0.340053179	0.02602318	-2.681715467
NLGN2	0.340065042	0.02602318	2.68182125
PION	-0.340043349	0.026023291	-2.681627813
RAB3C	0.340021146	0.026031506	2.681429819
MBTD1	-0.34001834	0.026031506	-2.681404803
NSMCE2	-0.3399903	0.026045125	-2.681154777
C1orf212	-0.339951554	0.026065308	-2.680809299
BTBD16	0.339930459	0.026074686	2.680621211
DRP2	0.339921885	0.026076392	2.680544762
VPS8	-0.339896144	0.026088622	-2.68031526
FYCO1	-0.339881866	0.026093826	-2.680187961
ENTPD5	-0.339867522	0.026099073	-2.680060075
NUDT17	0.339859221	0.026100614	2.679986071
TRRAP	-0.339796793	0.026135372	-2.679429522
SPINK6	0.339789595	0.026136237	2.67936536
SLC22A2	0.339759463	0.026151188	2.67909675
OR10X1	0.33972487	0.026168889	2.678788383
CLPX	-0.339717678	0.026169753	-2.678724269
FAM49A	0.339708214	0.026172013	2.678639907

ATP5F1	-0.339692496	0.026178119	-2.678499801	
S100A7	0.339662431	0.026188484	2.678231825	
TERC	0.339658285	0.026188484	2.678194869	
C4orf14	-0.339659127	0.026188484	-2.678202372	
ICA1L	-0.339575117	0.026229106	-2.677453603	
CACNB4	0.339582696	0.026229106	2.677521148	
LOC90826	-0.339574925	0.026229106	-2.677451891	
ZNF266	-0.339568774	0.026229332	-2.677397071	
MYO5C	-0.339545383	0.026240177	-2.677188607	
SDK2	0.339536245	0.026242245	2.677107169	
CDC5L	-0.339483194	0.026271378	-2.67663439	
KRT37	0.339466256	0.026278257	2.676483453	
GLE1	-0.339458215	0.026279651	-2.676411795	
TLN2	0.339451995	0.026279923	2.676356365	yes
OR4C3	0.339430452	0.026289646	2.676164393	
C14orf166B	0.339415911	0.026295052	2.676034823	
CHTF18	0.339404371	0.026298607	2.675931997	
NUP93	-0.339384663	0.026307204	-2.675756387	
PSMB3	-0.339369091	0.02631325	-2.675617634	
GBP6	-0.339310263	0.026342449	-2.675093471	
OR6K2	0.339310572	0.026342449	2.675096228	
NXT2	-0.339265751	0.026366394	-2.674696898	yes
KLHL14	0.339247068	0.026374376	2.674530449	
TMEM135	-0.339240204	0.026375049	-2.674469295	
REV3L	-0.339189837	0.026402644	-2.674020591	
GC	0.339147682	0.026425175	2.673645061	
USP33	-0.339135412	0.026429199	-2.673535762	
MTERFD1	-0.33911752	0.026436708	-2.67337638	
SCN4B	0.339108755	0.026438561	2.673298307	
KIAA0100	-0.339060702	0.026464776	-2.67287028	
CPS1	0.339050373	0.026467602	2.672778275	
ACP6	-0.339028954	0.02647731	-2.672587497	
NRL	0.339011967	0.026484269	2.672436202	

LOC389895	0.338995022	0.026487621	2.672285281
C20orf177	-0.339000039	0.026487621	-2.67232996
SLC47A2	0.338973221	0.026494797	2.672091113
SCARNA6	0.338971919	0.026494797	2.672079518
PAQR5	0.338953457	0.026495941	2.671915094
C19orf42	-0.338952768	0.026495941	-2.671908953
TM7SF4	0.338955847	0.026495941	2.671936375
C10orf49	0.338899646	0.026523083	2.671435859
ZNF345	-0.338897532	0.026523083	-2.671417033
CSF1	0.338885778	0.026526803	2.671312357
PGAP1	-0.338873815	0.026530653	-2.671205823
C11orf72	0.33886803	0.026530665	2.67115431
RPL37	-0.338820732	0.026549315	-2.670733126
TIA1	-0.338827394	0.026549315	-2.670792446
UGT8	-0.338822809	0.026549315	-2.670751618
KRT38	0.338809576	0.026552668	2.670633784
NPM1	-0.33880047	0.026554746	-2.670552704
ATPBD3	0.338769301	0.026570551	2.670275159
LCN8	0.338755573	0.026571921	2.670152926
ODF1	0.338756491	0.026571921	2.670161103
TRAPPC3	-0.338670348	0.026614372	-2.669394118
RBBP5	-0.338675379	0.026614372	-2.669438909
XPNPEP3	-0.33867011	0.026614372	-2.669392002
FGL1	0.338655633	0.026619803	2.66926311
DEC1	0.338649729	0.026619893	2.669210547
EFCAB7	-0.338639084	0.026622937	-2.669115771
CCDC85B	0.338589485	0.026644051	2.668674216
C16orf62	-0.338587939	0.026644051	-2.668660456
ZFP112	-0.338596719	0.026644051	-2.668738617
TMEM126B	-0.338571046	0.026650996	-2.668510063
LBR	-0.338527588	0.026672227	-2.668123208
RPL19P9	0.338525503	0.026672227	2.668104647
CTSF	0.338516442	0.026672717	2.668023986

DEPDC5	-0.338513205	0.026672717	-2.667995177
ISX	0.33849683	0.026679346	2.667849418
CRISP3	0.338481361	0.026685411	2.667711715
UNC13B	-0.338471018	0.026688275	-2.667619654
DMP1	0.338443097	0.026694933	2.667371133
TIE1	0.338445025	0.026694933	2.667388287
ZSCAN21	0.338446438	0.026694933	2.667400872
CENPM	0.33842383	0.026703374	2.667199639
BCL6	-0.338406466	0.026703444	-2.667045088
SNORD5	-0.338410361	0.026703444	-2.667079762
C1orf49	0.338407324	0.026703444	2.667052727
FLJ25758	0.338384968	0.026712033	2.666853753
EXOSC1	-0.33837547	0.026712033	-2.666769217
G6PC2	0.338377195	0.026712033	2.666784573
PADI2	0.338360605	0.026714139	2.666636919
RPS3A	0.338363579	0.026714139	2.666663385
OR6F1	0.338334375	0.026726939	2.666403475
PIK3CA	-0.338313242	0.026736558	-2.666215402
LSM5	-0.338287181	0.026749262	-2.665983473
ZNF268	-0.338273041	0.026754513	-2.665857642
PGM2	-0.3382587	0.026756297	-2.665730021
PFTK2	0.338259707	0.026756297	2.665738979
TBC1D20	-0.338244065	0.026760252	-2.665599781
GPATCH2	-0.338240891	0.026760252	-2.665571536
EMID2	0.33823503	0.026760326	2.665519383
DOCK1	-0.338222187	0.026764769	-2.6654051
ST6GALNAC2	-0.338197977	0.026769915	-2.665189666
SAAL1	-0.338196741	0.026769915	-2.665178669
TMEM71	-0.338200757	0.026769915	-2.6652144
TNFRSF11A	0.338183039	0.026774899	2.665056741
ALPP	0.338167279	0.026780521	2.664916509
ZNF223	-0.338162579	0.026780521	-2.664874686
TNMD	0.338149607	0.02678505	2.664759265

DHX36	-0.338127093	0.026795554	-2.664558943	
LANCL2	-0.338085125	0.026818252	-2.664185534	
OR52N2	0.33806741	0.026825759	2.664027926	
ZNF302	-0.338054189	0.026830451	-2.663910294	
IFNA6	0.338004736	0.02685787	2.663470328	
MEGF10	0.337986103	0.026865963	2.663304568	
EXT1	-0.337973217	0.026870451	-2.663189936	
MAGEB10	0.337937178	0.026889478	2.662869332	
KLK5	0.337921947	0.026895443	2.662733846	
CCT3	-0.337881731	0.026917111	-2.662376108	
CCDC150	0.337875833	0.026917213	2.662323646	
FAM119A	-0.33784845	0.026930825	-2.662080078	
DGKH	-0.337826399	0.026938752	-2.661883944	
TIGD2	-0.337824378	0.026938752	-2.66186597	
TBC1D27	0.337801578	0.02694949	2.661663172	
C6orf199	-0.33773822	0.026985769	-2.66109967	
EDAR	0.337719469	0.026990359	2.660932907	
GCLC	-0.337723563	0.026990359	-2.660969318	yes
CASP3	-0.337705819	0.026995348	-2.660811516	
AHI1	-0.337698568	0.026996306	-2.660747032	
FOXP4	0.337666613	0.027009222	2.66046285	
ALKBH3	-0.337669701	0.027009222	-2.660490308	
RIOK1	-0.337656175	0.027012191	-2.660370022	
C20orf197	0.337635373	0.027021694	2.660185035	
RAB11FIP1	-0.337622569	0.027026156	-2.660071182	
INSC	0.337607237	0.027032213	2.659934843	
RPL8	-0.337537582	0.027072271	-2.65931547	
DOCK5	-0.337526587	0.027072271	-2.65921771	
FKSG83	0.337527054	0.027072271	2.659221858	
AFG3L2	-0.337503775	0.027080727	-2.659014875	
CCDC58	-0.337492376	0.027080727	-2.658913524	
MUTED	-0.337490298	0.027080727	-2.658895052	
SMPD2	-0.337492033	0.027080727	-2.658910482	

LOC728276	0.33747859	0.027084507	2.658790952	
VSIG4	0.337450216	0.027095202	2.65853869	
C12orf5	-0.337454788	0.027095202	-2.658579338	
HTATIP2	-0.337439178	0.027098561	-2.658440546	
TREH	0.337411764	0.027110359	2.658196829	
TRAPPC5	0.33740907	0.027110359	2.658172873	
FAM55B	0.337268006	0.027191734	2.656918876	
ZC3H12B	0.337263347	0.027191734	2.656877463	
USP26	0.33727276	0.027191734	2.656961132	
KCNK1	-0.337180102	0.027234554	-2.65613755	
OR52E6	0.337178666	0.027234554	2.656124786	
FZD3	-0.337181954	0.027234554	-2.656154008	
LDHD	0.337081763	0.027292473	2.655263558	
PNO1	-0.337075812	0.027292618	-2.655210675	
CARD18	0.337064772	0.027294034	2.655112566	
THY1	0.337062145	0.027294034	2.655089215	yes
SPINK5L2	0.337020561	0.027316844	2.654719675	
CTSH	-0.336964098	0.027349143	-2.654217944	
NDUFA2	-0.336953231	0.027352422	-2.654121385	
WDFY2	-0.336924773	0.027366908	-2.653868518	
WDFY1	-0.336883788	0.027389386	-2.65350436	
EN2	0.336876797	0.027390198	2.653442241	
LOC100133207	0.336843376	0.027407867	2.653145307	
COQ9	-0.336823004	0.027417217	-2.652964308	
MBOAT2	-0.33680742	0.027423514	-2.652825861	
KRT77	0.336773608	0.027441451	2.65252547	
CYP4F8	0.336748759	0.027453671	2.652304724	
ENOX2	-0.336692799	0.027485785	-2.651807613	
PAQR3	-0.336662539	0.02749315	-2.651538817	
DR1	-0.336663353	0.02749315	-2.651546042	
NUP62	-0.336663199	0.02749315	-2.651544676	
RAB8A	-0.336658421	0.02749315	-2.651502231	
LOC100131232	0.33662704	0.027507723	2.651223489	

OR10H2	0.336620945	0.027507723	2.651169358
C10orf141	0.336618498	0.027507723	2.651147617
TGOLN2	-0.336597087	0.027517769	-2.650957445
ANKRD50	-0.336585909	0.027521268	-2.650858156
HISPPD1	-0.336528033	0.027553327	-2.65034412
ZDHHC20	-0.336518714	0.027553327	-2.650261359
IGFN1	0.336524017	0.027553327	2.650308452
PHTF1	-0.336506669	0.027557385	-2.650154388
FARP2	-0.336497324	0.027559714	-2.650071388
VPS52	-0.336466758	0.027575647	-2.649799932
ZBP1	0.336413228	0.027606319	2.649324567
ZNHIT6	-0.336396359	0.027612645	-2.649174762
KIF17	0.336391953	0.027612645	2.649135639
TSSK6	0.336367716	0.027623618	2.648920418
RAPGEF2	-0.336363443	0.027623618	-2.648882474
COLEC10	0.336321748	0.027639056	2.648512241
CMTM4	-0.336331712	0.027639056	-2.648600715
RELL2	0.336318756	0.027639056	2.648485678
ARSH	0.336316577	0.027639056	2.648466326
KU-MEL-3	0.336293205	0.027639606	2.64825881
SAR1B	-0.336292902	0.027639606	-2.648256119
ATP6V1A	-0.336304287	0.027639606	-2.648357202
FXD1	0.33630222	0.027639606	2.648338847
RIMS4	0.336271736	0.027645876	2.648068182
CCDC125	-0.336271996	0.027645876	-2.648070491
CNR1	0.336260284	0.027648486	2.647966509
CLDN8	-0.33625627	0.027648486	-2.647930869
NAT10	-0.336210829	0.027674025	-2.647527427
RBAK	-0.336199295	0.027677776	-2.64742502
SET	-0.33619318	0.027678043	-2.647370736
HIST1H2BK	-0.336178908	0.027683555	-2.647244026
TRIM47	0.33616609	0.027688133	2.647130236
WISP1	0.336095591	0.027729836	2.646504386

LOC649445	0.336088009	0.027731049	2.646437079
ZNF710	0.3360821	0.027731184	2.646384627
GNAQ	-0.336067111	0.027737169	-2.64625157
DSCR10	0.336058309	0.027739168	2.646173443
PLEKHG2	0.336029815	0.027753856	2.645920511
MSGN1	0.336010841	0.027760168	2.645752099
TRNP1	0.336008628	0.027760168	2.645732457
GAST	0.335987623	0.027762696	2.645546013
RPL29P12	0.335991418	0.027762696	2.645579699
PPP3R1	-0.335993553	0.027762696	-2.645598645
CEBPG	-0.335969032	0.02777101	-2.645380998
COL27A1	0.335955922	0.027775791	2.645264644
LOC400986	-0.335939071	0.02778266	-2.645115078
DPH5	-0.335933886	0.02778266	-2.645069058
FCF1	-0.335912488	0.02779279	-2.644879147
MBD3L1	0.335895179	0.027800285	2.644725532
PSORS1C1	0.335857456	0.027817285	2.644390749
MAP2K4	-0.335859422	0.027817285	-2.644408193
TMEM217	0.335822916	0.027835914	2.644084224
DENND1B	-0.3357905	0.02785318	-2.643796559
SEP14	0.335780236	0.027856136	2.643705483
KRT12	0.335766601	0.027857597	2.643584481
GULP1	-0.335768943	0.027857597	-2.643605268
LOC440934	0.335757739	0.027859648	2.64350585
RSPO1	0.335712115	0.027885469	2.643101005
HAP1	0.335631387	0.027934041	2.642384734
CANX	-0.335608593	0.027945123	-2.642182499
POLS	-0.335586307	0.027955881	-2.641984776
FBXO6	0.335563967	0.027965651	2.64178658
OGT	-0.335559862	0.027965651	-2.641750166
OR2G6	0.33550942	0.027994681	2.64130267
C19orf25	0.335468351	0.02801765	2.640938355
PIGM	-0.335439595	0.028032634	-2.640683275

RICTOR	-0.335432645	0.028033455	-2.640621625	
POM121L2	0.335426777	0.028033574	2.640569572	
ZSWIM2	0.335412286	0.028039296	2.640441031	
DDB1	-0.3353716	0.028062046	-2.640080155	
HTR1D	0.335358683	0.028063054	2.639965583	
USP15	-0.335359582	0.028063054	-2.639973558	
CABP4	0.335275364	0.028113571	2.639226612	
LOC100128830	0.335195105	0.028162169	2.638514848	
STT3A	-0.335180969	0.028167681	-2.638389496	
ARL6	-0.335170271	0.028170953	-2.638294622	
MSH3	-0.335157129	0.028175818	-2.638178091	
APOO	-0.335119502	0.028196665	-2.63784443	
KRT25	0.33510304	0.028203703	2.637698463	
C18orf20	0.335050087	0.028234581	2.637228945	
IFT52	-0.335035385	0.028240476	-2.637098588	yes
SWAP70	-0.335019166	0.028247364	-2.636954787	
MFNG	0.334989749	0.028262886	2.636693971	
PARP10	0.334958766	0.028279439	2.636419286	
FAM86A	0.334928622	0.028284297	2.636152049	
C2orf48	0.334937196	0.028284297	2.636228059	
RP1	-0.334945563	0.028284297	-2.636302238	
PDLIM7	0.334931996	0.028284297	2.636181962	yes
EIF3M	-0.334871249	0.028306989	-2.635643438	
ZNF653	0.334874835	0.028306989	2.635675228	
UGT2B17	0.334879383	0.028306989	2.635715545	
ZNF148	-0.334879554	0.028306989	-2.635717063	
C11orf45	0.334821053	0.028332434	2.635198482	
LOC285550	-0.334826715	0.028332434	-2.635248667	
SNORA71C	0.334805327	0.028339021	2.63505908	
MTMR14	-0.334703309	0.028402228	-2.63415484	
PHF10	-0.334680894	0.028413222	-2.633956184	
MACROD1	0.334661256	0.028418666	2.633782136	
RBPJ	-0.334662812	0.028418666	-2.633795925	

TMLHE	-0.334626831	0.028430017	-2.63347705	
PTPRZ1	-0.334622903	0.028430017	-2.633442236	
VCPIP1	-0.334621285	0.028430017	-2.633427898	
RNF39	0.334630175	0.028430017	2.633506686	
FLJ46210	0.334584197	0.028448866	2.63309922	
TTC26	-0.334581265	0.028448866	-2.63307324	
TRIM72	0.334555417	0.028462135	2.632844188	
AKAP9	-0.33452219	0.028476071	-2.632549751	
LOC400499	0.334526284	0.028476071	2.632586022	
FIP1L1	-0.334517221	0.028476071	-2.632505719	
LOC645188	0.3345106	0.028476697	2.632447045	
C3orf44	0.334498924	0.028476919	2.632343588	
DEFB115	0.334501124	0.028476919	2.632363082	
TMEM48	-0.334417472	0.028520801	-2.631621873	
FAM110C	0.334415272	0.028520801	2.631602384	
ATP6V0D1	-0.334422571	0.028520801	-2.631667056	
SPAG16	-0.33437744	0.028541999	-2.631267193	
SPHK2	0.334356899	0.028548069	2.631085213	
RGS13	0.33436117	0.028548069	2.631123044	
KCNA7	0.33433771	0.028556987	2.630915202	
IL26	0.334326817	0.028560434	2.630818704	
KLHL26	0.334183934	0.028651061	2.629552972	
DYNLT1	-0.33416198	0.028658086	-2.629358505	
HIRIP3	0.334162473	0.028658086	2.629362877	
WBSCR16	0.334128929	0.028676206	2.629065757	
PRICKLE3	0.3341228	0.028676513	2.629011471	
C6orf35	-0.334018054	0.02874215	-2.628083775	
METTL4	-0.33399485	0.028753782	-2.627878276	
LIAS	-0.333981777	0.028758696	-2.627762505	yes
C19orf23	0.333943599	0.028780272	2.627424419	
EGFLAM	0.333915231	0.028795346	2.627173207	
TINAG	0.333906364	0.028796317	2.62709469	
SMARCA5	-0.33390244	0.028796317	-2.627059947	

SLC5A3	-0.333887438	0.028802519	-2.6269271	
C19orf30	0.333861334	0.028816099	2.626695959	
FLJ41170	0.333805623	0.028849372	2.626202678	
DDX23	-0.333798739	0.028850184	-2.626141724	
NEU3	0.3337592	0.028868955	2.625791657	
CPNE8	-0.333763148	0.028868955	-2.625826609	
SLC44A4	-0.333702145	0.028903175	-2.62528653	
HNRNPA3	-0.333647925	0.028927988	-2.624806536	
MGC4294	0.333657914	0.028927988	2.624894967	
FBXO11	-0.333651056	0.028927988	-2.624834254	
BCAS2	-0.333622809	0.028939564	-2.624584198	
FLT3	0.333613581	0.028939564	2.624502516	
ST8SIA4	-0.333616135	0.028939564	-2.624525124	
ZNF611	-0.333556404	0.028973935	-2.623996389	
RAP1GDS1	-0.333523546	0.028992094	-2.62370555	
SNORD115-31	0.333506188	0.028999907	2.623551919	
LOC100133383	0.33349574	0.029003107	2.623459441	
LRRC33	0.333459356	0.029023639	2.623137411	
C5orf20	0.333447849	0.029027548	2.623035573	
ADAMTS5	0.333425862	0.029038466	2.622840977	
CUZD1	0.333391823	0.02905745	2.622539729	
TSPYL1	-0.333351666	0.02908054	-2.622184352	
ABHD10	-0.333288385	0.029119142	-2.621624369	
LOC100131054	0.333274534	0.029124634	2.621501803	
C18orf10	-0.333257181	0.029132476	-2.621348249	
PLVAP	0.333229689	0.029147119	2.621104991	yes
MSL3	-0.333201999	0.029161902	-2.62085999	yes
THNSL1	-0.333174391	0.029176636	-2.620615717	
FZD7	0.333144353	0.02919301	2.620349946	
ZNF780B	-0.333122558	0.029200052	-2.62015712	
GRAMD3	-0.333123551	0.029200052	-2.620165907	
MLLT3	-0.333082745	0.029221189	-2.619804897	
C1orf123	-0.333079793	0.029221189	-2.619778778	

FCAMR	0.333067232	0.029225832	2.619667656	
CLEC14A	0.333040431	0.029240051	2.619430563	yes
GDF5OS	0.332998368	0.029260742	2.619058459	
PRR12	0.333000195	0.029260742	2.619074626	
MTIF2	-0.33298352	0.02926693	-2.618927119	
RFC5	-0.332962837	0.029277048	-2.618744162	
MCEE	-0.332932715	0.0292909	-2.618477714	
EIF3I	-0.332930962	0.0292909	-2.618462212	
SNORD58A	-0.332919875	0.029294561	-2.618364147	
TCTN2	-0.332895194	0.029307381	-2.618145836	
GMPR	0.332874131	0.029317768	2.617959537	
EMP2	-0.332847131	0.02933216	-2.617720738	
CSN1S2A	0.332826516	0.029342251	2.61753841	
NME2	0.33280829	0.029350735	2.61737721	
GCLM	-0.332795418	0.029355608	-2.61726337	
TMEM133	-0.33277809	0.029363489	-2.617110121	
OR5B21	0.332704477	0.029405567	2.616459135	
DYNC2H1	-0.332705788	0.029405567	-2.616470729	
HNRNPAB	-0.33269666	0.029407032	-2.616390008	
GPR110	-0.332665492	0.02942428	-2.616114394	
FBXW7	-0.332627532	0.029441293	-2.615778733	
ANKRA2	-0.332628908	0.029441293	-2.615790899	
MAP4K2	0.33262339	0.029441293	2.61574211	
WBSCR22	-0.332588419	0.029457311	-2.615432889	
MATN1	0.33259198	0.029457311	2.615464378	
ZNF673	-0.332566158	0.029468555	-2.615236066	
TRDN	0.332513661	0.029492633	2.614771909	
RGL4	0.332517998	0.029492633	2.614810262	
ERAF	0.332524803	0.029492633	2.614870424	
ZHX1	-0.332484983	0.029508236	-2.614518368	
ERN1	0.332472502	0.029512869	2.614408032	
ATF6	-0.332420886	0.029544035	-2.613951716	
STK17B	-0.332392572	0.029559414	-2.613701416	

CALML5	0.332381654	0.029562994	2.613604901
INO80B	0.332361417	0.029572899	2.613426011
EXOC2	-0.332288282	0.029618452	-2.612779546
TBPL1	-0.332283062	0.029618452	-2.612733412
C10orf62	0.332256936	0.02962662	2.612502492
MYO5B	-0.332254123	0.02962662	-2.612477628
RAPGEF6	-0.332259413	0.02962662	-2.612524381
ST6GALNAC3	0.33224076	0.029631871	2.612359515
MYH3	0.33212048	0.029709895	2.611296493
LOC129293	0.332095836	0.029722845	2.611078715
DOCK9	-0.33208162	0.029728691	-2.610953088
GNG4	0.332067885	0.029734211	2.61083171
PPP2R1B	-0.332019968	0.029763048	-2.610408289
MYL12B	-0.331988057	0.029780979	-2.610126325
B3GNT4	0.331981409	0.029781668	2.610067583
RPL36P14	0.331947905	0.029800697	2.609771552
SLC37A1	-0.331930656	0.029808628	-2.609619148
MINA	-0.331851404	0.02985896	-2.608918948
DYRK4	0.331833148	0.029867593	2.608757668
C9orf29	0.331822614	0.029870944	2.608664605
BCAS3	-0.331808963	0.029876428	-2.60854401
C9orf93	-0.331774583	0.029896109	-2.608240295
LOC100128501	0.331736838	0.029908819	2.607906871
OR13C9	0.331743393	0.029908819	2.607964774
NEUROD1	0.331746836	0.029908819	2.607995191
ERMN	0.331733482	0.029908819	2.607877222
CAV3	0.331694727	0.029931516	2.607534892
FN3KRP	-0.331609097	0.029986398	-2.606778548
RPL36AL	-0.331550444	0.030022818	-2.606260533
GNPDA2	-0.331544023	0.030023358	-2.606203823
CAMP	0.331537631	0.030023878	2.606147371
EIF2S3	-0.331506538	0.03004138	-2.605872774
C16orf3	0.331450107	0.030076327	2.605374435

FAM71C	0.331427863	0.03008776	2.605178015	
CDRT4	-0.331405039	0.030099597	-2.604976471	
SLC5A9	0.331395573	0.030102237	2.604892883	
SMC3	-0.331360492	0.030122525	-2.604583118	
HAX1	-0.331345167	0.030129205	-2.604447802	
MYB	-0.331328395	0.030135369	-2.604299715	yes
FKBPL	0.331324959	0.030135369	2.604269377	
GYPC	0.331279083	0.030163124	2.60386433	
KLF5	-0.331255625	0.030171982	-2.603657224	
CDCA3	0.331254981	0.030171982	2.603651534	
BRCA1	-0.331229716	0.030177761	-2.603428483	
LOC729800	0.331238641	0.030177761	2.603507271	
AQP10	0.331232954	0.030177761	2.603457069	
CHD7	-0.331214516	0.030184366	-2.603294292	yes
DNM1	0.331187362	0.030199228	2.603054565	
CNBP	-0.331162468	0.030212534	-2.602834804	
STYXL1	-0.331148978	0.030217965	-2.602715719	
SLC31A1	-0.331136752	0.030222524	-2.60260779	
MRAP	0.331094725	0.030247684	2.6022368	
CSRNP2	-0.331075719	0.030256936	-2.602069037	
C21orf89	0.331063637	0.030261401	2.60196239	
ZNF250	-0.331057044	0.030262069	-2.601904197	
NAALAD2	0.331041879	0.030268668	2.601770341	
HEXA	-0.331024109	0.030273179	-2.601613486	
ANKRD32	-0.331025779	0.030273179	-2.601628226	
GBX1	0.33099732	0.030287825	2.601377039	
SCGB1D2	0.330947473	0.030318448	2.600937095	
LAMP2	-0.330913626	0.030338005	-2.600638375	
CAPN7	-0.330890385	0.03034976	-2.600433265	
FOLR1	0.330885421	0.03034976	2.60038946	
RBM38	0.330849132	0.030371028	2.600069213	
EIF3E	-0.33083284	0.03037843	-2.599925437	
KCNJ4	0.330814155	0.030387495	2.599760554	

SPAG4	0.330808116	0.030387784	2.599707263
CPT1A	-0.330799822	0.030389639	-2.599634073
C14orf45	-0.330788796	0.03039339	-2.59953678
CCDC6	-0.330780421	0.030395302	-2.599462879
OR2AK2	0.330727408	0.030428215	2.598995103
CXorf38	-0.330695877	0.030434506	-2.598716889
C6orf167	-0.330699555	0.030434506	-2.598749345
GUSBL2	-0.330700027	0.030434506	-2.598753506
CCDC41	-0.330700607	0.030434506	-2.598758624
OR10G3	0.33068784	0.030435459	2.598645979
TCP10L2	0.33068327	0.030435459	2.598605656
INSRR	0.330674245	0.030437827	2.598526025
ALPPL2	0.330653714	0.030448193	2.598344886
DKC1	-0.330640993	0.030453132	-2.59823265
MAST3	0.330609181	0.030469733	2.597951985
OR7A17	0.330605886	0.030469733	2.597922921
MYL9	0.33058347	0.03048142	2.597725158
RBM41	-0.330540717	0.030507266	-2.597347999
ICT1	-0.330499397	0.030528221	-2.596983495
FAR2	-0.330501595	0.030528221	-2.597002884
CRYBG3	-0.330435455	0.030568874	-2.596419457
ORC3L	-0.330412906	0.030580686	-2.596220562
C3orf10	-0.330400829	0.030585194	-2.596114043
ELF2	-0.330391743	0.030587618	-2.596033897
TCF7	0.330342446	0.030618109	2.595599095
C5orf51	-0.330328533	0.030623905	-2.595476387
ABI2	-0.33030069	0.030637542	-2.59523083
RNF114	-0.330297785	0.030637542	-2.595205211
HMG20A	-0.330274909	0.030648544	-2.595003465
C8orf85	0.330265207	0.030648544	2.594917896
HCG4	0.330265718	0.030648544	2.594922405
FAM164A	-0.330201813	0.030688946	-2.594358845
LOC100127971	0.330174262	0.030704298	2.594115893

OTUB2	0.330164909	0.030706918	2.594033421	
KIAA2018	-0.330146224	0.03071607	-2.593868661	yes
C19orf15	0.330127611	0.030725175	2.593704536	
C22orf30	-0.330075054	0.030750205	-2.593241116	
RARA	0.330078832	0.030750205	2.593274424	
DSN1	-0.330084796	0.030750205	-2.593327014	
LRRC4	-0.330046158	0.030762596	-2.592986341	
KCNAB3	0.330047942	0.030762596	2.593002065	
CSPP1	-0.330032659	0.030768129	-2.592867321	
OR8B3	0.330012291	0.030774548	2.592687748	
PSMB2	-0.330016858	0.030774548	-2.592728009	
ZNF341	0.329985304	0.030789542	2.592449819	
EIF3A	-0.32996267	0.030801488	-2.592250274	
SNORA37	0.329935212	0.030816824	2.592008205	
PRIM1	-0.329865285	0.030862001	-2.591391768	
P4HA2	-0.329757292	0.030934028	-2.590439858	
PDSS2	-0.329731377	0.030948332	-2.590211442	
BIRC5	0.329670002	0.030980083	2.589670519	
KRTAP20-1	0.329669507	0.030980083	2.589666157	
KCTD17	0.329670853	0.030980083	2.589678021	
POLDIP3	-0.329651905	0.030988543	-2.589511029	
SAMD9	-0.329623097	0.031004909	-2.58925715	
MATN3	0.329603548	0.031014749	2.589084868	
LOC492303	0.329594107	0.031017457	2.589001671	
FZD10	0.329587447	0.031018203	2.588942983	
IL12B	0.32949663	0.03107839	2.588142702	
PSG4	0.329448647	0.031108359	2.587719913	
C21orf30	0.329433174	0.031115342	2.587583584	
DRAP1	0.329405224	0.031131158	2.587337324	
C14orf105	0.329388002	0.031139383	2.587185594	
HMGCL	-0.329379437	0.031141481	-2.587110127	
CPT2	-0.32933108	0.031171767	-2.586684098	
SERTAD2	-0.3292895	0.031197271	-2.586317791	

SRMS	0.329272379	0.03120544	2.586166964	
ADAMTSL5	0.329237858	0.031221982	2.585862869	
JAK1	-0.329237979	0.031221982	-2.585863934	
SCRN3	-0.329207109	0.031239831	-2.585592008	
TLR7	0.329098244	0.031309227	2.58463311	
TMEM203	-0.329098835	0.031309227	-2.584638317	
SSX1	0.329087746	0.03131271	2.584540649	
HBP1	-0.329076539	0.031316699	-2.584441944	
MDM1	-0.329059834	0.031324599	-2.584294818	
ZNF443	-0.329050309	0.031327392	-2.584210924	
POU3F4	0.329035717	0.031333792	2.584082412	
HNRNPH3	-0.329008936	0.031336916	-2.583846558	
BAT1	-0.329010753	0.031336916	-2.58386256	
PIP4K2C	-0.329013353	0.031336916	-2.583885459	
FBXL20	-0.329015055	0.031336916	-2.583900445	
SGK2	0.328980307	0.031353311	2.583594436	
PPP1CC	-0.328957484	0.031365578	-2.58339345	
C7orf47	0.328908348	0.031392612	2.582960762	
STX7	-0.32891207	0.031392612	-2.582993536	
ASB8	-0.328879724	0.031405323	-2.582708704	
ABHD6	-0.328879326	0.031405323	-2.582705198	yes
USPL1	-0.328818993	0.031423624	-2.582173963	
C16orf63	-0.328828463	0.031423624	-2.582257342	
COL4A2	0.328809196	0.031423624	2.582087701	yes
SELM	0.328843088	0.031423624	2.582386116	yes
DLG1	-0.328808923	0.031423624	-2.582085294	
RPL29P31	0.328817971	0.031423624	2.582164958	
WDR19	-0.328813964	0.031423624	-2.582129679	
MYOZ1	0.328841651	0.031423624	2.582373465	
C11orf79	-0.328786839	0.031435388	-2.581890857	
SLC23A3	0.328748937	0.031442503	2.581557153	
C7orf27	0.328754498	0.031442503	2.581606113	
WDR5B	-0.328756835	0.031442503	-2.581626683	

LEPROT	-0.328770882	0.031442503	-2.581750364
AURKC	0.328748926	0.031442503	2.581557056
RPL18AP6	0.328719162	0.031459756	2.581295012
RNMT	-0.328696488	0.031467967	-2.581095396
SCAMP1	-0.32869729	0.031467967	-2.58110245
STK17A	-0.328689773	0.031468774	-2.581036279
GSDMC	-0.328662377	0.031480361	-2.580795091
BMP15	0.328667443	0.031480361	2.58083969
AK2P2	0.328588013	0.031529512	2.580140466
CYP2B7P1	-0.328530297	0.031566809	-2.57963243
LOC100128663	0.328513014	0.031575183	2.579480308
ZFAND1	-0.328446498	0.031618833	-2.578894861
EIF4A2	-0.328429548	0.031626981	-2.578745679
GPR153	0.328414669	0.031633644	2.578614737
MYO3B	0.328314463	0.031697697	2.577732872
MYCBP2	-0.328314249	0.031697697	-2.577730996
MYOZ3	0.328269559	0.031725797	2.577337731
SPG20	-0.32824605	0.031738683	-2.577130867
RAB25	-0.328216313	0.031756055	-2.576869204
ODZ3	0.328202971	0.031761636	2.57675181
PWWP2B	0.328100282	0.031831566	2.575848317
NACA	-0.328037061	0.031873135	-2.575292122
TDRD9	0.328031427	0.03187317	2.575242561
AMN	0.328009893	0.031884681	2.575053121
NAP1L1	-0.327970483	0.031909105	-2.574706441
KIAA1632	-0.327963154	0.031910366	-2.574641964
ST8SIA5	0.327938938	0.031918452	2.574428956
ZFP14	-0.327937752	0.031918452	-2.574418522
SNRPB	-0.327935212	0.031918452	-2.574396174
XPO7	-0.327879626	0.031948054	-2.57390724
P4HA3	0.327877709	0.031948054	2.573890384
ATXN3L	0.327877506	0.031948054	2.573888597
CCDC52	-0.327871029	0.031948702	-2.573831627

OR5H14	0.327860399	0.031952353	2.57373813
TMEM148	0.327853361	0.031953407	2.573676223
TRDV2	0.327845959	0.031954726	2.573611119
ERCC5	-0.327798275	0.031985181	-2.573191734
HRH2	0.327721059	0.032037054	2.572512653
GINS2	0.327701214	0.032043349	2.572338133
APPL2	-0.327704574	0.032043349	-2.572367678
LOC100130967	0.32766292	0.032065794	2.572001375
MOBK13	-0.327659097	0.032065794	-2.571967757
ZNF440	-0.327637164	0.032077655	-2.571774896
CRYGD	0.327595933	0.032099477	2.571412337
TMX1	-0.327598472	0.032099477	-2.571434667
LARP7	-0.327584742	0.032103552	-2.571313935
ZFYVE26	-0.327549897	0.032116704	-2.571007559
CHDH	0.327551302	0.032116704	2.571019913
PLCH2	0.327552974	0.032116704	2.571034615
HSPA14	-0.327538339	0.032121048	-2.570905936
PIBF1	-0.327391725	0.03220874	-2.569616944
CCDC111	-0.327403213	0.03220874	-2.569717935
FLJ37078	0.327389834	0.03220874	2.569600321
PIGV	-0.327390676	0.03220874	-2.569607718
TSKS	0.327407545	0.03220874	2.569756015
C11orf58	-0.327375118	0.032215394	-2.569470951
HOOK1	-0.327218226	0.032318261	-2.568091853
BCL3	0.327217593	0.032318261	2.568086291
TRAF3	-0.327217259	0.032318261	-2.568083354
PASD1	0.32720823	0.032320783	2.568003998
C1orf151	-0.327171691	0.032342042	-2.56768285
NSUN2	-0.327167965	0.032342042	-2.567650103
IFRG15	-0.327159337	0.032344273	-2.567574276
PAIP1	0.327134302	0.032354419	2.567354252
LIPG	0.327137091	0.032354419	2.567378763
OR4C46	0.327100464	0.032375072	2.567056869

TEX11	0.327069086	0.032393937	2.566781122	
SPINK4	0.327058642	0.032397501	2.566689342	
ZBTB44	-0.327027765	0.032416011	-2.566418003	
MLXIPL	0.326981733	0.032441546	2.566013508	
C21orf45	-0.326982658	0.032441546	-2.566021634	
MTO1	-0.32695878	0.032450196	-2.565811816	
ZNF235	-0.326962729	0.032450196	-2.565846518	
CCNL1	-0.326937433	0.03246175	-2.565624251	
RUSC2	0.326927284	0.032465106	2.565535077	yes
RP3-474I12.5	0.326904059	0.032473963	2.56533101	
NUDT12	-0.326906039	0.032473963	-2.565348404	
SORL1	-0.326857119	0.032504285	-2.564918587	
MRGPRD	0.326826867	0.032519027	2.564652807	
TCF23	0.326825884	0.032519027	2.564644164	
POL3S	0.32681942	0.032519685	2.564587377	
PRPS1L1	0.326789152	0.032537808	2.564321464	
CAP1	-0.326769969	0.032547801	-2.56415294	
FRS2	-0.326748986	0.032551919	-2.563968603	
NRK	0.32675797	0.032551919	2.564047531	
FGF2	0.326747667	0.032551919	2.563957016	
SFRS2	-0.326740798	0.032552878	-2.563896671	
DDX1	-0.32673193	0.032554899	-2.563818769	
CLASP2	-0.326724938	0.032554899	-2.563757346	
NPY5R	0.32672136	0.032554899	2.563725916	
ANKRD36B	-0.326701921	0.032561005	-2.56355516	
TFDP1	-0.326705079	0.032561005	-2.563582896	
C2orf64	-0.326678926	0.032573807	-2.563353164	
hCG_1781062	-0.326666993	0.032578487	-2.563248343	
GOLGB1	-0.326632092	0.032600043	-2.562941775	
DSG1	0.326604923	0.032615925	2.562703139	
RECQL4	0.32657464	0.032634105	2.562437152	
LASS2	-0.326554784	0.032643917	-2.562262761	
ARCN1	-0.326544627	0.032643917	-2.562173545	

PDHX	-0.326545808	0.032643917	-2.562183923
METTL7A	-0.326504605	0.032669278	-2.561822046
LOC728847	0.32646459	0.03269465	2.561470628
PTRH2	-0.32641904	0.032724118	-2.561070616
PPIL4	-0.326355494	0.032766887	-2.560512592
LOC100131613	0.32629948	0.032804137	2.560020753
GCNT1	-0.326243211	0.032841613	-2.559526697
FXR1	-0.32623202	0.032845778	-2.559428439
MAP1S	0.326209654	0.032858209	2.559232071
MAFG	0.326203591	0.032858583	2.559178846
SHISA3	0.326146084	0.032897027	2.558673972
SPRR2B	0.326138213	0.03289874	2.558604872
ARNTL2	-0.326131456	0.032899629	-2.558545553
FAM148A	0.326111639	0.032906732	2.558371586
HCK	0.326110753	0.032906732	2.558363804
IKBKB	-0.326087987	0.03291948	-2.558163949
PRDM8	0.326071723	0.032923299	2.558021179
ZNF300	-0.326075392	0.032923299	-2.558053389
CTCFL	0.326027717	0.032951794	2.557634895
NEFM	0.326003446	0.032965672	2.557421851
LRRFIP1	-0.325977094	0.0329811	-2.557190541
OR8B8	0.325948412	0.032994142	2.556938795
COG1	-0.325950618	0.032994142	-2.556958153
TECPR1	0.325935311	0.032999744	2.556823807
ISCA2	0.325922511	0.033001031	2.556711462
VPS41	-0.325922475	0.033001031	-2.556711145
MAPK14	-0.325898563	0.033014661	-2.556501276
MAPKAP1	-0.325888918	0.033017701	-2.556416629
ADH1A	0.325874856	0.033022693	2.556293213
KIAA1715	-0.325871098	0.033022693	-2.556260226
BTLA	0.325857965	0.033028325	2.556144971
FAM73A	-0.325840911	0.033036871	-2.555995305
YIPF4	-0.325802815	0.033061055	-2.555660976

C3orf70	0.3257847	0.033070397	2.555502008	
ARAP3	0.325774399	0.033073931	2.555411612	
TNFRSF10C	0.325736073	0.03309831	2.555075284	
PXMP3	-0.325719609	0.033106432	-2.554930818	
KCNJ12	0.325674264	0.033136057	2.554532927	
ELAVL1	-0.325666618	0.03313762	-2.554465841	
SERPINB13	-0.325639493	0.033153693	-2.554227835	
CYTH1	-0.32560746	0.03317343	-2.553946777	
TAOK1	-0.32558227	0.033206004	-2.553514831	
ERV3	-0.325541136	0.033213128	-2.553364881	
ZNRF3	0.325537587	0.033213128	2.55333375	
GPR20	0.325526066	0.033217587	2.553232675	
NUBPL	-0.325502183	0.03322899	-2.55302315	
GFM1	-0.325499698	0.03322899	-2.553001346	
ZNF571	-0.325471492	0.033245907	-2.552753904	
CGNL1	0.325357641	0.033326855	2.551755207	
RIT1	-0.325349634	0.033328698	-2.551684971	
C14orf106	-0.325314754	0.033350654	-2.551379028	
PRUNE	-0.325291955	0.033363573	-2.551179068	
CSTB	-0.325222198	0.033411688	-2.550567262	yes
DAGLB	-0.325176251	0.033438314	-2.55016431	
CEMP1	0.32517561	0.033438314	2.550158686	
RAD1	-0.325163508	0.033443235	-2.550052556	
FSD2	0.325142643	0.033450574	2.54986958	
MFSD8	-0.325143303	0.033450574	-2.549875369	
IQGAP1	-0.325023923	0.033535598	-2.548828551	
FBXO43	0.325014946	0.033535747	2.548749834	yes
STK4	-0.32501264	0.033535747	-2.548729615	
FBXO7	-0.325006798	0.033535973	-2.548678394	
RND1	0.324955503	0.033570396	2.548228649	
ANXA13	0.32494747	0.033572271	2.548158215	
ALOX15	-0.324919215	0.0335852	-2.547910492	
KIDINS220	-0.32492052	0.0335852	-2.547921938	

EPCAM	-0.324886913	0.033605354	-2.547627303	
TMBIM4	-0.324877865	0.033607997	-2.547547979	
EIF2AK2	-0.324847224	0.033625785	-2.547279351	
ACTC1	0.324843179	0.033625785	2.547243898	
OR11A1	0.324833943	0.033626378	2.547162923	
SETDB2	-0.324831315	0.033626378	-2.547139888	
COL8A1	0.324796629	0.033648351	2.546835825	
NSDHL	-0.324759261	0.03366739	-2.546508261	
CCBL2	-0.324754775	0.03366739	-2.546468933	
ZBTB5	-0.324761568	0.03366739	-2.546528482	
CALM2	-0.324730552	0.03368149	-2.546256604	
C14orf182	0.324709496	0.033693203	2.546072046	
ZNF33A	-0.324697464	0.033698107	-2.545966582	
S100A1	0.324674512	0.033711258	2.545765403	
RPS13	-0.324641949	0.033731674	-2.545479996	
ZCCHC12	0.324635087	0.033732676	2.545419856	
CYP19A1	0.324588932	0.033758324	2.545015335	
C17orf90	0.324584551	0.033758324	2.54497694	
OTOP3	0.324591423	0.033758324	2.545037169	
OR2J3	0.324578221	0.033758926	2.544921466	
AHNAK2	-0.32457236	0.033759175	-2.544870099	
SGEF	-0.324553959	0.033768905	-2.544708834	
PSENN1	-0.324487464	0.03381503	-2.544126114	
WFDC1	0.324417538	0.033863809	2.543513363	yes
KRTAP4-3	0.324409121	0.033865995	2.543439613	
OR7E24	0.32438052	0.033882396	2.543189	
ERGIC3	-0.324376426	0.033882396	-2.543153126	
CSF3	0.324350757	0.033897668	2.542928221	
OR52K1	0.324328263	0.033910538	2.542731129	
C1orf110	-0.324297679	0.033921158	-2.542463173	yes
CHRNA10	0.324302061	0.033921158	2.542501569	
C6orf105	0.324308546	0.033921158	2.542558385	
LOC399744	0.32427581	0.033927237	2.542271577	

TRIM33	-0.324279584	0.033927237	-2.542304634	
AKIRIN2	-0.324273083	0.033927237	-2.542247685	
SNORA55	0.324203293	0.033976045	2.541636272	
UTP3	-0.324178034	0.033991042	-2.541414994	
ZSCAN29	-0.324102281	0.034038031	-2.540751407	
SERPINC1	0.324105112	0.034038031	2.54077621	
NFKBIL1	0.324094152	0.034038031	2.540680204	
RFX5	-0.324097463	0.034038031	-2.540709206	
NPDC1	0.324087206	0.034039111	2.540619363	yes
EPHB2	0.323988724	0.034109922	2.539756773	
SFRS9	-0.323935102	0.034146608	-2.539287143	
PIK3AP1	0.32391183	0.034159957	2.53908333	
NUDT8	0.323906558	0.034159957	2.539037166	
CRH	0.323814476	0.034224003	2.538230781	yes
ZNF84	-0.323811671	0.034224003	-2.538206222	
XAGE5	0.323799808	0.034228848	2.538102338	
RBM28	-0.3237749	0.034243671	-2.537884235	
COLEC12	0.323744662	0.034262577	2.537619468	
ZNF610	-0.323696312	0.034294109	-2.537196118	
MGAT2	-0.323692422	0.034294109	-2.537162063	
DLL4	0.323681551	0.034298203	2.537066885	
LOC791120	0.323665874	0.03430598	2.536929625	
BXDC2	-0.323612003	0.034338796	-2.536457979	
LOC57228	-0.323612745	0.034338796	-2.536464478	
THEM2	-0.323580947	0.034358375	-2.536186092	
REG1A	0.323561205	0.034369281	2.536013267	yes
COL6A2	0.323541613	0.034373213	2.535841751	yes
AMD1	-0.323539511	0.034373213	-2.535823354	
RABL5	-0.323547862	0.034373213	-2.535896452	
SPRR2G	0.323528485	0.034377436	2.53572683	
LIPN	0.323509415	0.034387834	2.535559887	
STOX1	-0.323497412	0.034392809	-2.53545482	
RBBP6	-0.323485111	0.034398013	-2.535347142	

FOXF2	0.323476165	0.034400643	2.535268834
PSMD7	-0.323458938	0.034409632	-2.535118032
ZNF432	-0.323442295	0.034418174	-2.534972357
LOC120364	0.323391198	0.034448951	2.534525109
PDCD11	-0.32339628	0.034448951	-2.534569584
CYSLTR2	0.323364441	0.034465278	2.534290911
ZC3H4	0.32333907	0.034480545	2.534068857
CCR10	0.323293664	0.034511235	2.533671467
C14orf181	0.323287557	0.034511689	2.533618021
UMODL1	0.323244531	0.034540569	2.533241475
TDO2	0.323232187	0.034545828	2.533133449
TPH1	-0.323221586	0.034549745	-2.533040673
ITIH5L	0.32321072	0.034553866	2.532945585
C10orf71	0.323204495	0.034554412	2.532891114
GPR160	-0.323168238	0.034578104	-2.532573833
MYOG	0.32315184	0.034586494	2.532430346
SLC6A14	-0.323136634	0.034593967	-2.532297287
HEATR3	-0.323127282	0.034596926	-2.532215459
FRG1B	-0.323107247	0.034608126	-2.532040149
GPX4	-0.323094271	0.034613883	-2.531926609
PRR13	0.323074399	0.034624963	2.53175273
MRPS24	0.323062692	0.034629743	2.531650296
RNF219	-0.323056216	0.034630487	-2.531593634
C9orf57	0.323037319	0.034636106	2.531428297
VPS39	-0.323032401	0.034636106	-2.531385269
DND1	0.323040168	0.034636106	2.531453223
C9orf78	-0.323008559	0.034646003	-2.531176672
TRO	0.323013545	0.034646003	2.531220291
PCTK2	-0.322992274	0.034654323	-2.531034191
SLC6A8	0.322985676	0.034655164	2.530976467
LRRC4C	0.322971799	0.034661626	2.530855061
OR2M7	0.322957258	0.034668603	2.530727844
FGA	0.322932102	0.034679527	2.530507769

TTLL5	-0.322937356	0.034679527	-2.53055373	yes
OIP5	0.322833378	0.034743084	2.529644145	
FAM129C	0.322842583	0.034743084	2.529724663	
ZCCHC7	-0.322837738	0.034743084	-2.529682286	
WBSR17	0.322769467	0.0347883	2.529085105	
RNF183	0.322759937	0.034791416	2.52900175	
TSSC4	0.322742814	0.03479615	2.528851981	
GABRB3	0.322746925	0.03479615	2.528887935	
CSF3R	0.322689093	0.034833521	2.528382117	
ARHGAP5	-0.322664024	0.034840154	-2.528162869	
OR5B3	0.322668266	0.034840154	2.528199968	
CA5A	0.322668987	0.034840154	2.528206276	
PPM1M	0.322624156	0.034859159	2.527814197	
SFRS12IP1	-0.322617508	0.034859159	-2.527756059	
LAT2	0.322621572	0.034859159	2.527791599	
CASP5	0.322624339	0.034859159	2.527815798	
ZNF446	0.32253524	0.034918758	2.52703662	
HAVCR2	0.322516052	0.034929392	2.526868837	
C1orf161	0.322477998	0.034950838	2.526536081	
RPS11P5	-0.322477457	0.034950838	-2.526531353	
DIDO1	-0.322437109	0.03497794	-2.526178548	
LOC100130285	0.322405757	0.034993774	2.525904426	
KIAA0146	-0.322411136	0.034993774	-2.525951459	
CCNY	-0.322386902	0.034999886	-2.525739571	yes
HPS4	-0.322387025	0.034999886	-2.525740644	
GPR77	0.322381139	0.035000091	2.525689184	
ATP9A	-0.322352332	0.035018237	-2.525437319	
NAB2	0.322334388	0.035027928	2.525280442	
OR6C74	0.322319021	0.035035615	2.525146093	
HORMAD2	0.322305395	0.035041947	2.52502697	
RBKS	-0.322225399	0.035100029	-2.524327636	
GPX5	0.322115334	0.035181692	2.523365542	
SORCS2	0.322028181	0.035245572	2.522603805	

CEP135	-0.322001498	0.03526216	-2.522370603
NOSIP	0.321982448	0.035272774	2.522204111
NDUFC1	-0.321973988	0.035275093	-2.522130177
OR6C68	0.321950932	0.035288849	2.521928693
TYRP1	0.321938431	0.035294337	2.521819441
CYP4A22	0.321908339	0.035313617	2.521556472
CLDN20	0.321901159	0.035314935	2.521493733
SNW1	-0.321874517	0.035330885	-2.521260921
ZNF587	-0.321869826	0.035330885	-2.521219929
SNX1	-0.321811463	0.035368059	-2.520709948
TTPAL	-0.321812223	0.035368059	-2.520716591
FCHO1	0.321803107	0.035370303	2.520636938
TAS2R42	0.321765819	0.035390954	2.520311126
MYO7A	0.321770045	0.035390954	2.520348051
EIF4A3	-0.32174439	0.035403471	-2.520123895
FOXN3	-0.321732276	0.035408671	-2.520018058
DDIT4L	0.321717634	0.035411541	2.519890127
GPR139	0.321722006	0.035411541	2.519928328
ZBTB34	-0.321707806	0.035414947	-2.519804263
GAFA2	0.321656178	0.035447379	2.519353213
TBC1D15	-0.321655567	0.035447379	-2.519347877
STARD7	-0.321614157	0.035475637	-2.518986109
NEDD4L	-0.321599887	0.035478221	-2.518861449
SLMAP	-0.3216049	0.035478221	-2.518905242
CNTNAP2	0.321496443	0.035555385	2.517957832
LXN	-0.321479627	0.035557941	-2.517810951
SFTPD	0.32148087	0.035557941	2.517821811
HS3ST6	0.32147123	0.035557941	2.517737606
FMNL1	0.321473368	0.035557941	2.517756281
RPH3A	0.321450534	0.035569932	2.517556837
LMOD2	0.321414372	0.035589796	2.517240996
SAGE1	0.321415301	0.035589796	2.517249107
MOV10L1	0.321389445	0.035605136	2.517023277

DZIP3	-0.321379884	0.035608349	-2.516939777	
WIP12	-0.321362896	0.035617426	-2.516791413	
LOC113230	0.321304953	0.035658861	2.516285376	
REEP3	-0.321293328	0.035661999	-2.516183852	
UPF3A	0.321290004	0.035661999	2.516154832	
FKBP15	-0.321209636	0.035721221	-2.515453011	
LOC100132622	0.321191585	0.035730893	2.515295394	
KIR3DL3	0.321186439	0.035730893	2.515250454	
NFKBID	0.321176012	0.035734803	2.515159408	
SOAT1	-0.321146676	0.035749341	-2.514903255	
COLQ	0.321149003	0.035749341	2.514923577	
SIGLEC11	0.321139718	0.035750506	2.514842507	
LOC388965	0.321088203	0.035786973	2.514392712	
SEMA3C	-0.321077249	0.03578901	-2.514297073	
GBP3	-0.32107466	0.03578901	-2.514274473	
FGF11	0.321060873	0.035791243	2.514154101	
ZNF398	-0.321064698	0.035791243	-2.514187496	yes
FTHL18	0.321048096	0.035797024	2.514042546	
RNF187	0.321031468	0.035804082	2.513897379	
CDC25C	0.321028225	0.035804082	2.513869065	
PLEKHN1	0.321019373	0.035806753	2.513791785	
RAB39	0.321012653	0.035807735	2.513733113	
RPL5	-0.321003653	0.035810524	-2.513654545	
FOXJ3	-0.32097441	0.035825021	-2.513399251	
LRRC1	-0.320979035	0.035825021	-2.513439623	
MED8	-0.320944506	0.035843871	-2.513138193	
GKN1	0.320939689	0.035843871	2.513096142	
TTC37	-0.320899846	0.035871147	-2.512748336	
LECT2	0.32087554	0.035886097	2.512536165	
ZNF17	-0.320868459	0.035887369	-2.512474354	
LOC124220	0.320823377	0.035906545	2.512080849	yes
KCNN4	0.320812426	0.035906545	2.511985264	
TMEM179	0.320817703	0.035906545	2.512031321	

JPH2	0.320811454	0.035906545	2.511976777	yes
SNHG3-RCC1	-0.320824463	0.035906545	-2.512090326	
HOOK3	-0.320824624	0.035906545	-2.512091732	
CNPY1	0.320777887	0.035924517	2.511683801	
WDR42A	-0.32077892	0.035924517	-2.511692814	
ABCA3	0.320749011	0.035939112	2.511431767	
FRMD7	0.320746767	0.035939112	2.511412181	
MARCH9	0.320743104	0.035939112	2.511380215	
CABLES2	0.32068751	0.035978981	2.510895018	
ZDHHC8	0.320619307	0.036028933	2.510299816	
FRAG1	-0.320603858	0.036036881	-2.510165001	
RPS6KA5	-0.320581325	0.036050477	-2.509968372	
MARCH3	-0.320527687	0.03608452	-2.509500328	
ZNF420	-0.320530434	0.03608452	-2.509524295	
UTRN	-0.320514425	0.036086368	-2.509384602	
PAN2	-0.320517978	0.036086368	-2.509415604	
GRLF1	-0.320501735	0.036092126	-2.509273875	
LOC100130348	0.320475766	0.036108482	2.509047291	
LHX8	0.320444965	0.036128705	2.508778544	
FAM131C	0.320428827	0.036137223	2.508637741	
EFHC1	-0.320407407	0.036145592	-2.508450857	
TCF3	0.320410924	0.036145592	2.508481548	
MRGPRX2	0.320401762	0.036145731	2.508401614	
LYPLAL1	-0.320317725	0.036200609	-2.507668453	
FOXD4	0.320320408	0.036200609	2.507691861	
SFXN1	-0.320316695	0.036200609	-2.507659475	
LOC100128775	0.320238417	0.036256614	2.506976622	
DVL1	0.320235779	0.036256614	2.506953606	
NPY6R	0.320223026	0.036262446	2.506842369	
RPS18P12	0.320202129	0.036273404	2.506660081	
SEH1L	-0.320198409	0.036273404	-2.506627632	
AFP	0.320170444	0.03629143	2.506383708	
SLC16A9	-0.320159132	0.036296114	-2.506285044	

MUSTN1	0.320132846	0.036312803	2.506055772	
NSUN6	-0.320117271	0.036315077	-2.505919924	
HRK	0.320116909	0.036315077	2.505916769	
DIRAS3	0.32011361	0.036315077	2.505887999	
GFRA2	0.320103612	0.036318711	2.505800797	
LOC100132793	-0.320095236	0.036321045	-2.505727746	
PSAP	-0.320084022	0.036325656	-2.505629941	
TNKS1BP1	0.320031048	0.036363774	2.505167931	
SPC24	0.319999858	0.036384429	2.504895923	
VPREB1	0.319973125	0.036401512	2.504662792	
NBPF10	-0.319949976	0.036402553	-2.504460923	
COP5	-0.31995828	0.036402553	-2.504533338	
SNORD15B	0.319955377	0.036402553	2.504508023	
RFWD3	-0.319962523	0.036402553	-2.504570338	
GADD45G	0.319910413	0.036429053	2.504115927	
LOC145757	0.319888303	0.036429053	2.503923134	
EPC2	-0.319887448	0.036429053	-2.503915682	
OTOG	0.319884232	0.036429053	2.503887633	
CCIN	0.319905678	0.036429053	2.504074645	
SYS1	-0.319885128	0.036429053	-2.503895452	
C3orf58	-0.319854673	0.036434519	-2.503629896	
CCDC141	0.319851189	0.036434519	2.503599514	yes
NPC1	-0.319856695	0.036434519	-2.503647522	
CSGALNACT1	0.319864142	0.036434519	2.503712461	
ORAI3	0.319850141	0.036434519	2.50359038	
PPIL3	-0.319812866	0.036460102	-2.503265366	
DMRTC2	0.319798781	0.036467041	2.503142563	
OLFM3	0.31976328	0.036491215	2.502833035	
RAB11FIP3	0.319724	0.036518445	2.502490578	
LGALS8	-0.319714091	0.036522031	-2.50240419	
YY2	0.319670552	0.036552714	2.502024612	
TMEM92	0.319651762	0.036563461	2.501860813	
RP11-544M22.4	-0.319638346	0.036569879	-2.501743858	

DET1	-0.319603318	0.036593728	-2.501438503	
ZNF429	-0.319593845	0.036596969	-2.501355931	
NAGLU	0.319569578	0.036612149	2.501144395	
EIF4G3	-0.319551782	0.036622109	-2.500989271	yes
AZ11	0.319528086	0.036636836	2.500782727	
C6orf170	-0.319516287	0.036641959	-2.500679884	
TMEM68	-0.319469571	0.036670668	-2.500272705	
ZNF783	0.319470588	0.036670668	2.50028157	
VRK1	-0.319464388	0.036670668	-2.500227526	
MRFAP1	-0.319418377	0.036703452	-2.499826512	
ASB3	-0.3193564	0.036749181	-2.499286378	
CCDC76	-0.319347794	0.036751734	-2.499211377	
C3orf63	-0.319293207	0.036791526	-2.498735681	
GABRB2	0.31926567	0.036805627	2.498495716	
TIPRL	-0.319263038	0.036805627	-2.498472787	
SCAND1	0.319256415	0.036805627	2.498415071	
PMCH	0.319253999	0.036805627	2.498394018	
LOC149134	0.319243298	0.036809882	2.498300777	
CLDN7	-0.319223395	0.036820601	-2.498127346	
RASGEF1B	-0.319213727	0.036820601	-2.498043103	
BXDC5	-0.319216962	0.036820601	-2.498071287	
SH2D7	0.319194876	0.036831466	2.497878849	
C21orf66	-0.319170518	0.036846802	-2.497666608	
TBX6	0.319147598	0.036860976	2.497466908	
RNPEP	-0.319138338	0.03686407	-2.497386223	
OR5AC2	0.319113448	0.036879849	2.497169369	
DEFB118	0.319068713	0.036908333	2.496779623	
IL13RA2	0.319067473	0.036908333	2.496768817	
OR5M1	0.319053034	0.036915637	2.496643028	
SNORD116-25	0.319041156	0.036920863	2.496539543	yes
ARR3	0.319035377	0.036921134	2.4964892	
GCNT2	-0.319000187	0.036945305	-2.496182636	
TM4SF19	0.318973983	0.036950507	2.495954364	

COL2A1	0.318976876	0.036950507	2.495979561	
ZFP30	-0.31898322	0.036950507	-2.496034828	
SETD7	-0.318972012	0.036950507	-2.495937189	
CLN5	-0.318911123	0.036995601	-2.495406788	
IL1F6	0.318896149	0.037003357	2.495276358	
C4orf15	-0.3188745	0.037016548	-2.495087787	
ZPBP2	0.318855607	0.0370275	2.494923221	
ROR2	0.318843603	0.037032843	2.494818663	
INSL6	0.318820316	0.037047378	2.49461584	
DOK7	0.318771632	0.037079539	2.494191814	
SGK493	0.318769967	0.037079539	2.494177318	yes
FBXO45	-0.318746846	0.037089518	-2.493975951	
LEPRE1	0.318752225	0.037089518	2.494022799	yes
MPHOSPH9	-0.318721561	0.037105702	-2.49375574	
NCOA1	-0.318676305	0.037138189	-2.493361619	
LCTL	0.318660305	0.03714681	2.493222282	
MAPK8	-0.318623399	0.037172506	-2.492900898	
BTBD6	0.318615501	0.037174514	2.492832122	
LYPD6B	-0.318581561	0.037197803	-2.492536577	
RPS6KL1	0.3185611	0.037210081	2.492358415	
LRRC29	0.318544129	0.037217511	2.492210647	
TMEM167B	-0.318541136	0.037217511	-2.49218458	
COPA	-0.318520185	0.03722826	-2.492002161	
TMEM195	0.318512792	0.03722826	2.491937789	
ACOT1	0.318511679	0.03722826	2.491928094	
USP30	-0.318505843	0.037228586	-2.491877282	
TMEM161B	-0.31846701	0.037255907	-2.49153917	
TBC1D14	-0.318461018	0.037256361	-2.491487003	
OSBP2	0.318428519	0.037278512	2.491204057	
KRT33A	0.318404022	0.03729412	2.490990785	
ZNFX1	-0.318390345	0.037300871	-2.490871713	
GPR111	0.318362964	0.037318537	2.490633345	
SOCS2	0.318357912	0.037318537	2.490589359	

TRIM69	0.31833196	0.037335352	2.490363436
LOC100133428	0.318278137	0.037375034	2.489894906
KHDRBS1	-0.318207074	0.03742891	-2.489276335
FBXL13	-0.31819833	0.037431628	-2.489200223
WNT2	0.318191006	0.037433181	2.489136475
MSL2	-0.318165923	0.037449324	-2.48891816
STK36	-0.318150618	0.037457438	-2.488784944
LOC442075	0.318121832	0.037476635	2.488534411
MTERFD2	-0.318099055	0.03748643	-2.488336176
EXTL2	-0.318104487	0.03748643	-2.488383453
GYLTL1B	0.318058982	0.037510458	2.487987421
RPS8P7	0.318061253	0.037510458	2.488007184
ITSN2	-0.318052094	0.037511656	-2.487927479
FLJ32756	0.318042232	0.037515302	2.487841653
ZBBX	-0.318025986	0.037524203	-2.487700269
CLRN3	0.318015436	0.037528418	2.487608452
PPARGC1B	0.317984429	0.037542307	2.487338624
PDXDC1	-0.317992099	0.037542307	-2.487405368
WRN	-0.317982277	0.037542307	-2.487319895
ATP5D	0.317964893	0.037552151	2.487168627
KIAA1656	0.317954087	0.03755658	2.487074595
PXMP2	0.317940929	0.037562947	2.486960097
DGKQ	0.317899659	0.037592479	2.48660098
PODNL1	0.317882494	0.037602155	2.486451621
C14orf169	0.317841895	0.037631159	2.486098373
C16orf13	0.317766493	0.037688918	2.485442345
WDR27	-0.317746681	0.0377008	-2.48526998
KLHL25	0.317730769	0.037709463	2.48513155
RNF17	0.317721522	0.037712621	2.485051097
KIFAP3	-0.317708179	0.037719163	-2.484935021
C3orf49	0.317652674	0.037749741	2.484452165
FLJ39653	0.317657434	0.037749741	2.48449357
RNF214	-0.317649492	0.037749741	-2.484424485

LGALS14	0.317661218	0.037749741	2.484526489
SLC35A1	-0.317628371	0.037758684	-2.484240753
ARL9	0.317622408	0.037758684	2.484188883
PNPLA4	-0.317624166	0.037758684	-2.484204174
TMEM168	-0.317587436	0.037783131	-2.483884673
RS1	0.317542646	0.037815721	2.483495082
CDC42SE2	-0.317486903	0.037857413	-2.483010239
KRTAP12-3	0.31747291	0.037860021	2.482888542
UBE2Z	-0.317474087	0.037860021	-2.48289878
RPL13AP3	0.317460688	0.037861164	2.482782236
ZNF512	-0.317463812	0.037861164	-2.482809415
SNORD81	-0.317444623	0.037869988	-2.482642515
MRPS22	-0.317396188	0.037905664	-2.482221286
URB2	-0.317372962	0.03792044	-2.482019298
ZNF484	-0.317357644	0.037928656	-2.481886085
KCNB1	0.317351957	0.037928877	2.481836631
USP8	-0.317327039	0.037945066	-2.48161994
ADAMTS18	0.317309683	0.037954979	2.481469015
RHOG	0.317303811	0.037955355	2.481417954
HSPA4L	-0.317278273	0.037972069	-2.481195881
TMEM86B	0.317226447	0.038010645	2.48074523
SLFN13	-0.317216193	0.038014665	-2.480656078
BBS2	-0.317173711	0.038045499	-2.480286703
IL13	0.317160182	0.038049463	2.480169072
C14orf118	-0.317158112	0.038049463	-2.480151078
FLJ30679	0.317084042	0.038103974	2.479507094
HVCN1	0.317081819	0.038103974	2.47948777
ARL4A	-0.317027802	0.038126422	-2.479018171
DSE	-0.317032091	0.038126422	-2.479055457
SCUBE2	0.317045247	0.038126422	2.47916983
FAM108A5	0.317037053	0.038126422	2.479098598
HOMER1	-0.317034891	0.038126422	-2.479079803
SNRNP48	-0.317005814	0.038135724	-2.47882703

yes

GOLGA7	-0.317009008	0.038135724	-2.478854796	
DNASE1L2	0.316946287	0.038180862	2.478309567	
LYZL1	0.316916467	0.038201234	2.478050361	
OR52B4	0.316885119	0.038222892	2.47777788	
FRMD3	0.316878276	0.038224085	2.477718405	
KTN1	-0.316860372	0.03823452	-2.477562786	
PABPC1	-0.316828575	0.038241835	-2.477286415	
OR5K3	0.316820018	0.038241835	2.477212047	
NKX3-1	0.316819144	0.038241835	2.477204451	
SYT13	0.316832747	0.038241835	2.477322675	
KRIT1	-0.316829866	0.038241835	-2.477297639	
CRIP1	-0.316824884	0.038241835	-2.477254334	
ZNF454	0.31680318	0.038246133	2.477065702	
PEX26	0.316806698	0.038246133	2.477096278	
ATF7IP2	-0.316790477	0.038252229	-2.476955293	
KLHL8	-0.316772521	0.038258195	-2.476799236	
SPRYD5	0.316774844	0.038258195	2.476819428	
GLRX	-0.316739694	0.038281117	-2.476513943	
LRIT2	0.316677171	0.038328902	2.475970597	
IL28A	0.316665851	0.038333851	2.475872224	
YEATS2	-0.316637182	0.038339745	-2.475623103	
BRUNOL6	0.316639213	0.038339745	2.475640751	
CDKL1	-0.316646787	0.038339745	-2.47570656	
ZNF623	-0.316640011	0.038339745	-2.475647681	
DAP3	-0.316610459	0.038357595	-2.475390891	yes
SUPT4H1	-0.316561671	0.038393943	-2.474966961	
OR51A4	0.316482817	0.038455549	2.474281819	
IL5	0.316461281	0.038469089	2.474094713	
HCN4	0.316442707	0.038480145	2.47393334	
ALS2CR4	-0.316427976	0.038487976	-2.473805365	
ENPEP	0.316369466	0.0385326	2.47329705	yes
ALG2	-0.316324841	0.038565583	-2.472909397	
LOC116236	0.316253631	0.038620978	2.472290831	

MYPN	0.316229586	0.03863668	2.472081967
CCL26	0.316212393	0.038637502	2.471932632
BEX5	0.31621323	0.038637502	2.471939902
A2BP1	0.316220861	0.038637502	2.472006189
PLK4	-0.31616295	0.038674622	-2.471503194
APBA1	0.316147457	0.038681705	2.471368634
ANAPC1	-0.316143742	0.038681705	-2.471336363
NDUFA13	0.316111004	0.038704762	2.471052038
SDR9C7	0.316095891	0.038709448	2.470920785
TSGA10IP	0.316094643	0.038709448	2.470909946
PPIA	-0.31608848	0.038710089	-2.470856423
MRAS	0.316081552	0.038711376	2.470796256
COL19A1	0.31604507	0.03873305	2.470479423
ZRANB1	-0.316046106	0.03873305	-2.470488424
SLC25A12	-0.31603343	0.038738317	-2.470378344
TMEM199	-0.315993294	0.038767652	-2.470029805
TBC1D23	-0.315985495	0.038769678	-2.469962077
ASB7	-0.315974921	0.03877405	-2.469870252
PAPSS1	-0.315959453	0.038782557	-2.469735934
IFT74	-0.31589494	0.038832538	-2.469175757
LNPEP	-0.315863636	0.038850469	-2.468903954
KLF7	-0.315862948	0.038850469	-2.468897977
MPZL3	-0.315807336	0.038888408	-2.468415134
TAS2R9	0.315810252	0.038888408	2.468440452
C16orf91	0.315800688	0.038889466	2.468357416
ATP6V0A2	-0.315778098	0.038901308	-2.468161293
OMG	0.315775911	0.038901308	2.468142303
SF3B14	-0.315765426	0.038905618	-2.468051278
VEZF1	-0.315759449	0.038906109	-2.467999385
KBTBD2	-0.315648359	0.03899574	-2.467034991
LRRIQ1	-0.315632045	0.039005008	-2.466893376
TASP1	-0.315606773	0.0390173	-2.46667401
ZNF28	-0.315608438	0.0390173	-2.466688464

CCT4	-0.315580925	0.03903467	-2.466449647
NCR3	0.315568283	0.039040826	2.46633991
NDFIP1	-0.315517991	0.039078986	-2.465903388
C1orf128	-0.315490102	0.039098116	-2.465661332
CAPN12	0.315448352	0.039110684	2.465298989
C4orf44	0.315452379	0.039110684	2.465333935
FLJ44674	0.315448558	0.039110684	2.465300768
TMC5	-0.315449552	0.039110684	-2.465309402
TATDN2	-0.315461501	0.039110684	-2.465413108
TLK1	-0.315421051	0.039129326	-2.465062049
EXOC6	-0.315409584	0.039134496	-2.464962532
LOC100133400	-0.315363987	0.039168731	-2.464566827
NAF1	-0.315339204	0.039185251	-2.464351762
C10orf91	0.315302088	0.039210204	2.464029685
TAS2R7	0.315299142	0.039210204	2.464004119
ZCCHC13	0.315269036	0.039231279	2.463742875
MYCL1	0.315254851	0.039238779	2.463619793
ASF1A	-0.315240543	0.039246386	-2.463495641
SLC7A4	0.315229539	0.039251175	2.463400161
PPM2C	-0.31518855	0.039281559	-2.463044512
ARHGAP18	-0.315169608	0.039293131	-2.462880163
ZNF277	-0.315141494	0.039310064	-2.462636248
FBXO9	-0.315122832	0.039310064	-2.462474332
ICHTHYIN	0.315123397	0.039310064	2.462479233
SLC35E3	-0.315126237	0.039310064	-2.462503876
UPP1	0.315132946	0.039310064	2.462562083
SLC2A12	-0.315109121	0.039312571	-2.462355377
YPEL3	0.315113176	0.039312571	2.462390563
DCLK3	0.315089048	0.039325118	2.462181237
RRM2B	-0.315063523	0.039342329	-2.461959791
RNF149	-0.315037016	0.039360385	-2.461729837
ZNF260	-0.315014511	0.039375025	-2.461534613
IQUB	-0.314923569	0.039448265	-2.460745738

FAM46D	0.314897971	0.039465583	2.4605237	
CGA	0.314887803	0.039467828	2.460435505	
ACBD4	0.314881132	0.039467828	2.460377647	
ADAM7	0.314879191	0.039467828	2.460360808	
OLR1	0.314869875	0.039471196	2.460280003	
CCNH	-0.314830129	0.039500654	-2.459935276	
POLK	-0.31479359	0.039527379	-2.459618372	
SSR1	-0.314714579	0.039590599	-2.458933146	
FSTL3	0.314644995	0.039645793	2.458329722	yes
SUZ12	-0.314564378	0.039710554	-2.457630679	
ZMYND15	0.314543553	0.039723854	2.457450113	
C21orf129	0.314528686	0.039732023	2.457321212	
ZNF530	0.314500641	0.03974691	2.457078047	
GSTCD	-0.314505287	0.03974691	-2.457118335	
PUSL1	0.314494593	0.03974748	2.457025616	
PLA2G2E	0.314480687	0.039754826	2.456905048	
PTGFRN	-0.314442744	0.039782904	-2.456576081	
NEUROD6	0.31443064	0.0397887	2.456471151	
ZNF143	-0.314420669	0.039792657	-2.456384706	
RIPPLY1	0.314392126	0.039812643	2.456137254	
SPAG1	-0.314370278	0.039826856	-2.455947851	yes
OR51B2	0.314344354	0.039844595	2.455723115	
RGS21	0.31431331	0.039862869	2.455454007	
TSR1	-0.314312433	0.039862869	-2.455446405	
TBX3	0.314281274	0.039885145	2.455176314	
TRMT61B	-0.314246645	0.039910433	-2.454876142	
ZNF510	-0.314203243	0.039931001	-2.45449995	
KPNB1	-0.314208635	0.039931001	-2.454546679	
PCCA	-0.314206623	0.039931001	-2.454529246	
RPS10	0.314201339	0.039931001	2.454483446	
LOC93432	0.314161207	0.039961078	2.454135608	
DUSP2	0.314141434	0.039973539	2.453964233	
SNX24	-0.314080765	0.040012113	-2.453438435	yes

BOK	0.314086407	0.040012113	2.453487336
PAQR6	0.314084746	0.040012113	2.453472933
PPP6C	-0.31407141	0.040015558	-2.453357362
C16orf7	0.314065579	0.040015948	2.453306831
NRSN2	0.314057525	0.040018267	2.453237034
VEGFB	0.314018022	0.040047852	2.452894698
SNORA5C	0.314009174	0.040050861	2.45281802
SNORD80	-0.313987323	0.040065149	-2.452628667
OR52M1	0.313919869	0.040119032	2.452044161
SRP54	-0.313914129	0.040119345	-2.451994431
KLHL24	-0.31385526	0.040165825	-2.451484348
TEX13B	0.31381721	0.040194236	2.451154681
RNF113A	0.31378737	0.040215518	2.450896151
PKMYT1	0.313776814	0.040220024	2.450804697
TMEM5	-0.313748369	0.040235422	-2.450558262
PSG3	0.313753073	0.040235422	2.450599011
KLHL2	-0.313719054	0.040256265	-2.450304298
PAX5	0.313702267	0.040266204	2.450158865
LOC645181	0.313693199	0.040269419	2.450080317
TMEM201	0.313646119	0.04029639	2.449672473
SNORD33	0.313646132	0.04029639	2.449672591
OR51G2	0.313653512	0.04029639	2.449736517
IQCK	-0.313638135	0.040298664	-2.449603311
ACTL6A	-0.313629648	0.040301377	-2.4495298
FAM120B	-0.313617305	0.040307452	-2.449422877
XYLT1	0.313607236	0.040311545	2.449335657
DLEU1	-0.313584901	0.040325959	-2.449142188
RP11-35F15.2	0.313579959	0.040325959	2.449099386
FLJ35409	0.31355906	0.0403395	2.448918365
ARMC1	-0.313544204	0.040347773	-2.448789689
GPI	-0.313528971	0.040356377	-2.448657745
C10orf96	0.313520804	0.040358816	2.448587006
HELQ	-0.313515349	0.04035889	-2.448539757

RAP1B	-0.313459329	0.040403105	-2.448054571	
CHCHD4	0.313445098	0.040404712	2.447931324	
FLJ40504	0.313446735	0.040404712	2.447945497	
IFNGR1	-0.313441379	0.040404712	-2.447899108	
C6orf120	-0.313429404	0.040410481	-2.447795397	
C11orf49	-0.313362769	0.040464024	-2.447218324	
MAP7D2	0.31334813	0.04047213	2.447091552	
HSPA6	0.313330775	0.040473222	2.446941266	
C15orf52	0.313332876	0.040473222	2.44695946	
VAMP3	-0.31333425	0.040473222	-2.446971359	
STAMBP	-0.313286497	0.040507263	-2.446557844	
BEX1	0.313274619	0.040512961	2.446454989	
SMAD5OS	0.313223846	0.040552717	2.446015357	
NODAL	0.313193679	0.040569742	2.445754152	
C17orf53	0.313195044	0.040569742	2.445765969	
GCC2	-0.313179065	0.040577846	-2.445627617	
WDR21B	0.313158292	0.040586645	2.445447764	
HTR1E	0.313158844	0.040586645	2.445452544	
TULP3	-0.313103694	0.040629817	-2.444975063	
POT1	-0.31309093	0.040631601	-2.444864558	
RRN3	-0.313095829	0.040631601	-2.444906977	
DAAM2	0.313055659	0.040643721	2.44455921	yes
CXorf59	-0.313067104	0.040643721	-2.444658288	
PMCHL2	0.313057345	0.040643721	2.444573804	
PPP1R9B	0.313061917	0.040643721	2.444613388	
GPR182	0.313042737	0.040650354	2.444447341	
C17orf80	-0.313031219	0.040655756	-2.444347633	
STK33	-0.313025388	0.040656168	-2.444297153	
GPR31	0.312985742	0.040686266	2.443953949	
PRSS35	0.312953898	0.040709528	2.443678293	
SCGB1D1	0.312826816	0.040816587	2.44257832	
SERPIN8	-0.312807479	0.040828893	-2.442410961	
CMTM3	0.312779292	0.040848999	2.442167006	

NFIC	0.31277092	0.040851651	2.442094547
PYGO1	0.312753969	0.040861863	2.44194785
SBF2	-0.31272426	0.040883325	-2.441690733
ILDR1	-0.312702993	0.040897351	-2.441506687
FAM19A2	0.312663012	0.040924928	2.441160702
SLAMF8	0.312661009	0.040924928	2.441143372
NCAPD3	-0.312624127	0.04095275	-2.440824216
WISP2	0.312571359	0.040994624	2.44036761
DPPA2	0.312561076	0.040998973	2.440278633
CDH7	0.312553434	0.041000988	2.440212517
LOC100132178	-0.312548061	0.041001	-2.440166025
OR4C15	0.312519857	0.041021192	2.439921987
TRY6	0.312510664	0.041024581	2.439842449
FLJ42177	-0.312501097	0.041028301	-2.439759676
KLHL12	-0.312480718	0.041041584	-2.439583355
OR14I1	0.312447173	0.041066518	2.439293132
RBM35A	-0.312397066	0.04110613	-2.438859627
XRCC6	-0.312386833	0.041110446	-2.438771106
MTFMT	-0.312328989	0.041156951	-2.438270701
SLC22A24	0.312287811	0.041186292	2.437914495
SERHL	0.312285183	0.041186292	2.437891766
OR9G1	0.312276666	0.04118841	2.437818086
RAD51C	-0.31227208	0.04118841	-2.437778417
ANKRD33	0.312254919	0.041198881	2.437629974
SIGLEC16	0.312249513	0.041198925	2.437583213
PSMB7	-0.312214393	0.041220582	-2.437279435
ZNF20	-0.312219288	0.041220582	-2.437321779
MMP8	0.312190101	0.041237391	2.437069327
ESCO1	-0.31211801	0.041294211	-2.436445805
CAPZB	-0.312115426	0.041294211	-2.436423459
SLC9A11	-0.312078927	0.041321899	-2.436107796
MAFF	0.312071393	0.041323837	2.436042639
LOC643428	0.312017094	0.041367383	2.43557306

FOXQ1	0.311987907	0.0413886	2.435320663	
UBQLN3	0.311966826	0.041402605	2.435138369	
TMC3	0.311894459	0.04145278	2.434512603	
LOC441728	0.311894536	0.04145278	2.434513269	
PSMD5	-0.311901659	0.04145278	-2.434574861	
TMEM26	0.311871905	0.041468117	2.434317594	
BET1	-0.311862046	0.041472136	-2.434232342	
C4orf16	-0.311843169	0.041484198	-2.434069133	
ARHGAP21	-0.311788995	0.041527772	-2.43360074	
TRIM62	0.311746082	0.04156132	2.433229733	
NLRC3	0.311740445	0.041561573	2.433181	
CNBD1	0.311726376	0.041569361	2.43305937	
CYS1	0.311713008	0.041576524	2.432943803	
NR2F2	0.311703836	0.041579938	2.432864505	
BRE	-0.311665329	0.04160958	-2.432531623	
WDSUB1	-0.311644329	0.041623576	-2.432350086	
AKAP10	-0.311631928	0.041629883	-2.432242886	
MYL7	0.311548893	0.041699431	2.431525134	
ABHD14A	0.311527365	0.041712929	2.431339054	
ZNF761	-0.311523125	0.041712929	-2.431302409	
NDUFB4	-0.311496561	0.041731941	-2.431072809	
TBC1D29	0.311489969	0.041733054	2.431015831	
FTSJ3	-0.311416936	0.041793765	-2.430384631	
GABARAPL2	-0.311359876	0.041835391	-2.429891504	
DCUN1D2	-0.31136245	0.041835391	-2.429913753	
RTN4RL1	0.31133045	0.041857021	2.429637217	
XPO5	-0.311302719	0.041877138	-2.429397571	
LSM6	-0.311256546	0.041899412	-2.428998587	
SNORD59A	-0.311259661	0.041899412	-2.429025498	
PCNP	-0.311268098	0.041899412	-2.429098409	
CREBZF	-0.311256578	0.041899412	-2.428998864	
TUBB6	0.311236166	0.041911486	2.428822485	yes
SLC13A2	0.311232425	0.041911486	2.428790157	

UFC1	-0.311222524	0.041915581	-2.42870461
SHF	0.31120064	0.04193046	2.428515516
PPP1R13L	0.31118595	0.041930657	2.42838859
MIPOL1	-0.311150231	0.041930657	-2.428079972
NELF	0.31114514	0.041930657	2.428035985
GSR	-0.311191928	0.041930657	-2.428440242
KRTAP19-1	0.311136284	0.041930657	2.427959463
ATP6V1E1	-0.311139031	0.041930657	-2.427983202
FAM64A	0.311163706	0.041930657	2.428196393
IMP3	-0.311157147	0.041930657	-2.428139723
HDAC8	-0.311177971	0.041930657	-2.42831965
ALS2	-0.311143714	0.041930657	-2.428023662
CCDC90A	-0.311157229	0.041930657	-2.428140435
RELT	0.31114372	0.041930657	2.428023716
OR2J2	0.311120403	0.041935334	2.427822258
STOML2	-0.311123785	0.041935334	-2.427851478
ZFYVE1	-0.311104959	0.041944425	-2.427688826
DGCR14	0.311086996	0.041955786	2.427533635
DEFB126	0.311068419	0.041967702	2.427373142
CTNS	-0.31104224	0.041986467	-2.427146977
UGCGL2	-0.3110269	0.041995474	-2.427014453
OBSL1	0.310994564	0.042019798	2.426735104
FRZB	0.310988823	0.042020161	2.426685509
KCNMB4	0.310974183	0.042028544	2.426559042
KRTAP19-2	0.310956748	0.042028693	2.426408438
PDHB	-0.310962717	0.042028693	-2.426459997
TRIM68	-0.310960825	0.042028693	-2.426443651
RPS25	-0.310952668	0.042028693	-2.426373188
LOXL3	0.310928563	0.042045612	2.426164964
FMO4	-0.310902467	0.042064331	-2.425939553
NUP37	-0.310872256	0.042086771	-2.425678599
PI4KB	-0.310858854	0.04209405	-2.425562835
KIAA0841	0.310843744	0.042102872	2.425432322

ARSE	0.31083623	0.042104838	2.425367426	
KRTAP5-10	0.310823659	0.042107306	2.425258848	
ROCK1	-0.310822828	0.042107306	-2.425251672	
KPNA5	-0.310812575	0.042111746	-2.425163115	
RAB38	-0.310766853	0.042148216	-2.424768222	
ZNF226	-0.310755589	0.042153302	-2.424673541	
DNAJC14	-0.310748052	0.042155565	-2.424605851	
C10orf107	-0.310696797	0.042197069	-2.424163195	
GPRC5A	-0.310632692	0.042250234	-2.423609603	
PDIK1L	-0.310583628	0.04228983	-2.42318593	yes
SKIL	-0.310549127	0.042311424	-2.422888017	
OR1D5	0.310551874	0.042311424	2.422911739	
ANKS3	0.310537839	0.042316821	2.422790546	
RFNG	0.3105077	0.042339307	2.422530311	
TMEM18	-0.310493732	0.042342303	-2.422409708	
CAPS2	-0.310497835	0.042342303	-2.422445141	
IL22RA1	0.310482933	0.042347261	2.422316471	
SLC25A37	0.310453567	0.042369059	2.422062924	
PRELID1	-0.310394541	0.04241779	-2.421553318	
MYL12A	-0.310365657	0.04243918	-2.421303959	
EGR3	0.310351599	0.042444973	2.4211826	
PATL1	-0.310348619	0.042444973	-2.421156868	
SNPH	0.310288146	0.042495092	2.420634826	
HERC3	-0.310235933	0.042537741	-2.42018412	
FAM182A	0.31021035	0.042555375	2.419963297	
POLR2C	-0.310205899	0.042555375	-2.419924877	
FAM181A	0.310160773	0.042591617	2.419535372	
CNGB3	0.310103295	0.042639147	2.419039283	
KRT18P49	0.310053612	0.042679606	2.418610496	
BHLHA9	0.310015876	0.042709188	2.41828483	
CYP4F22	0.309988227	0.042729571	2.418046221	
KCNJ6	0.309970797	0.042740625	2.417895807	
LOC440742	0.30995302	0.042742258	2.417742405	

PTPN11	-0.309955429	0.042742258	-2.417763191	
DDX54	0.309957371	0.042742258	2.417779948	
N-PAC	-0.309938813	0.042750371	-2.417619801	
NRM	0.309919498	0.042759463	2.417453133	
PDC	0.309918207	0.042759463	2.417441995	
OR10J1	0.309901177	0.042770159	2.417295038	
LOC646891	0.309890219	0.042775306	2.417200486	
NUPL2	-0.309802627	0.042850565	-2.4164447	
NLRP13	0.309788103	0.042858985	2.416319391	
YPEL5	-0.309781534	0.042860122	-2.416262713	
CNOT4	-0.309741275	0.042892118	-2.415915369	
RASL12	0.309718144	0.042908432	2.415715815	yes
CHRNA7	0.309708452	0.042912434	2.415632192	
GP2	0.30969958	0.042915684	2.415555654	
FLJ10357	0.30962965	0.04296516	2.414952383	
PCDHGB3	0.30963491	0.04296516	2.41499776	
BNIP3L	-0.309637935	0.04296516	-2.415023851	
PIGO	-0.309601136	0.042986439	-2.414706412	
CHD9	-0.309581771	0.042999327	-2.414539366	
SNORD115-25	0.309545402	0.043027834	2.414225649	
ANKRD12	-0.309525235	0.043041469	-2.414051695	
POGZ	-0.30951013	0.043050456	-2.413921406	
SRP14	-0.309502353	0.043052711	-2.413854319	
MYST4	-0.309446468	0.043099194	-2.413372307	
LOC284900	0.30942305	0.043115839	2.413170328	
CSNK2A2	-0.309403959	0.043125456	-2.41300568	
EIF2B2	-0.309401951	0.043125456	-2.412988361	
RPL10P13	0.309393648	0.043128199	2.412916749	
DTWD2	-0.309377022	0.043138602	-2.412773362	
MUC5B	0.309353541	0.043155318	2.41257086	
LOC728675	0.30933271	0.043169599	2.412391211	
MRPL21	0.309310581	0.043180177	2.412200382	
ATP5A1	-0.309311901	0.043180177	-2.412211758	

ZNF367	0.309283593	0.043200139	2.411967646
PPIE	-0.309276912	0.043201392	-2.411910036
CDKAL1	-0.309263413	0.043208929	-2.411793622
FAM76A	-0.309248122	0.043218119	-2.411661766
OR51L1	0.309225814	0.043228876	2.411469402
CAPZA2	-0.309229244	0.043228876	-2.411498982
CYB5B	-0.309207116	0.043241211	-2.411308175
AEN	0.30918695	0.043254904	2.411134294
ZW10	-0.309165277	0.04326999	-2.410947417
EIF2C3	-0.309143161	0.043285491	-2.410756723
MGC57346	-0.309114973	0.043306601	-2.410513683
HSF5	0.309108744	0.043307442	2.41045998
SRGAP2	-0.309081332	0.043327845	-2.410223636
GSTM4	-0.309065077	0.043337947	-2.410083493
PDSS1	-0.309033329	0.043362369	-2.409809781
GSN	-0.309005691	0.043378086	-2.409571512
KIAA0415	0.309007933	0.043378086	2.40959084
MYLIP	-0.308941285	0.043419139	-2.409016287
OR1B1	0.308929408	0.043419139	2.408913906
PANX2	0.308941886	0.043419139	2.409021472
PLEKHA1	-0.308935657	0.043419139	-2.408967775
TACR2	0.308955499	0.043419139	2.409138819
KRTAP2-4	0.308934106	0.043419139	2.408954404
C6orf146	0.308919785	0.043423126	2.408830954
ARPC3	-0.308892975	0.043443017	-2.408599846
HEPHL1	0.308828478	0.043497819	2.408043895
WDR49	-0.30882303	0.043497943	-2.407996941
C10orf65	0.308805111	0.043499779	2.407842492
BRP44	-0.308809063	0.043499779	-2.407876555
FKBP6	0.308813892	0.043499779	2.407918173
FNTB	-0.308747838	0.043547629	-2.407348855
PIGA	-0.308736869	0.043547629	-2.407254315
RPS3	-0.308732239	0.043547629	-2.407214414

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BTG1	-0.308736275	0.043547629	-2.407249198
LOC100132564	0.308679637	0.043581643	2.40676107
C6orf201	0.308680193	0.043581643	2.406765862
HIRA	-0.308689183	0.043581643	-2.406843343
C16orf75	0.308669664	0.043585969	2.406675126
RPGR	-0.308608111	0.043638182	-2.406144674
BZW2	-0.308536228	0.04370005	-2.405525249
LPCAT1	0.308506889	0.043722399	2.405272439
IRF2BP2	0.308494259	0.043729209	2.405163616
SAMD10	0.308469849	0.043742041	2.40495329
CDH26	-0.308470946	0.043742041	-2.404962741
ERP44	-0.308407343	0.043795294	-2.40441474
FLJ21075	0.308398224	0.043798844	2.404336169
PTCHD3	0.30838605	0.043805239	2.404231284
C20orf181	0.308379355	0.043806531	2.404173605
POFUT1	-0.308354509	0.043824738	-2.403959545
PHYHIP1L	0.308347814	0.043826031	2.403901866
PICALM	-0.308324398	0.043842911	-2.403700137
ULK2	-0.30825368	0.043903928	-2.403090924
LOC201229	-0.308206597	0.043942934	-2.402685342
DNAJB4	-0.308187267	0.043954209	-2.402518835
PCMTD1	-0.308174634	0.043954209	-2.40241002
SNORA68	0.308173298	0.043954209	2.402398516
KRTAP4-12	0.308179155	0.043954209	2.402448967
HSD11B1	0.308152616	0.043968575	2.402220369
MOBK12C	0.308138707	0.043968785	2.402100565
ULK4	-0.30814205	0.043968785	-2.402129358
MRPL41	0.308134132	0.043968785	2.402061155
STOML1	0.308131172	0.043968785	2.402035661
PPIC	-0.308098214	0.043989673	-2.401751794
ZNF512B	0.308098796	0.043989673	2.401756803
STRN	-0.308087301	0.043994917	-2.401657795
LOC643015	-0.308055071	0.044020095	-2.401380207

UGT2A3	0.308032098	0.044036623	2.401182354
LOC442028	0.307955368	0.044103488	2.400521548
DMC1	0.307939607	0.044113285	2.400385824
SYVN1	0.307912118	0.044134075	2.400149097
SLC24A4	0.307889442	0.04415036	2.399953831
CLDND1	-0.307883766	0.04415071	-2.399904952
POLG2	-0.307873558	0.044155309	-2.399817057
CLK1	-0.307864101	0.044159206	-2.399735617
C9orf53	0.307786761	0.044226794	2.399069677
COPS8	-0.30776864	0.044232335	-2.398913653
AP3M2	-0.307759656	0.044232335	-2.398836293
FAM47B	0.307763061	0.044232335	2.398865611
OR5AK2	0.307766017	0.044232335	2.398891068
NELL1	0.30773996	0.044245853	2.398666712
LOC100133424	-0.307679172	0.044297987	-2.398143354
FAM19A1	0.307672532	0.044299246	2.398086189
SNORA65	0.307662767	0.044303443	2.398002125
TRAPPC4	-0.307646986	0.044313298	-2.397866266
C11orf60	-0.307616173	0.044337293	-2.397600994
RAG1	0.307604725	0.044343078	2.397502442
CDC40	-0.307583074	0.044358463	-2.397316062
CA5B	-0.307514998	0.044394446	-2.396730054
SNX18	0.307515477	0.044394446	2.396734175
RIPPLY2	0.307538346	0.044394446	2.396931032
HOXA7	0.307522642	0.044394446	2.396795853
C3orf62	-0.307515436	0.044394446	-2.396733819
RASAL1	0.307513064	0.044394446	2.396713405
PREPL	-0.307502499	0.044399408	-2.396622465
LOC100133399	0.307461588	0.044432955	2.396270318
GTPBP4	-0.307452298	0.044436719	-2.396190353
S100PBP	-0.307428607	0.044454056	-2.395986441
PDE2A	0.307413251	0.04446354	2.395854271
LOC391532	0.307370167	0.044496979	2.395483458

PRSS27	0.307367202	0.044496979	2.395457937	
DNAJC8	-0.307357913	0.044500748	-2.395377993	
ANKRD42	-0.307337637	0.044514883	-2.395203488	
CLCA1	0.307281756	0.044557639	2.394722569	
ZMYND8	-0.307283069	0.044557639	-2.39473387	
PLA2G1B	0.307251849	0.044580887	2.394465201	
LOC441178	0.307232341	0.044594318	2.394297324	
HADH	-0.307225808	0.04459549	-2.394241104	
SCYE1	-0.307203528	0.044611545	-2.394049379	
NPAL3	-0.307132936	0.044673303	-2.393441953	
CEP120	-0.307095046	0.044704159	-2.393115935	
RUVBL1	-0.307057218	0.044734975	-2.392790456	
MAGEA5	0.307036352	0.044749731	2.392610927	
RPP30	-0.307029196	0.044751497	-2.392549361	
RPL13P12	0.307018488	0.044756629	2.392457236	
TOMM34	-0.306998243	0.044770802	-2.392283061	yes
FXC1	-0.306982645	0.044780574	-2.392148865	
BCL2L11	-0.306962585	0.044794578	-2.391976288	
EPN1	0.306936461	0.04481434	2.391751543	
LCE2D	0.306896133	0.044842568	2.391404614	
ACAD10	-0.306896552	0.044842568	-2.391408219	
PRDM6	0.306854319	0.044877246	2.391044924	
TAF10	0.306801626	0.044922287	2.390591666	
PHF20L1	-0.306792942	0.044925513	-2.390516968	
FAHD1	-0.306756444	0.044955188	-2.390203032	
ZNF189	-0.306747537	0.044958629	-2.390126421	
KRT83	0.306721055	0.04497879	2.389898653	
LINS1	-0.306644536	0.045046609	-2.389240543	
RTKN	0.306635994	0.045049707	2.389167078	
FMN2	0.306623309	0.045056754	2.389057985	
IFT57	-0.306579728	0.045093253	-2.388683194	
PLA2G10	-0.306488851	0.045174924	-2.387901717	
NMD3	-0.306447781	0.045209102	-2.387548573	

AHDC1	0.306430116	0.045220928	2.38739668
EIF4A1	-0.306382186	0.045256637	-2.386984563
NFATC1	0.306384414	0.045256637	2.387003727
ZNF805	-0.306359332	0.045268376	-2.386788074
ASB2	0.306362567	0.045268376	2.386815886
RBM4B	-0.306307168	0.045313233	-2.386339588
PURA	-0.306276988	0.045337066	-2.386080125
CPO	0.306252285	0.045346559	2.385867756
PLEKHH3	0.30625121	0.045346559	2.385858515
MAML2	-0.306255578	0.045346559	-2.385896062
DHFRL1	-0.306244551	0.045347872	-2.385801266
FBXL17	-0.306221147	0.045365228	-2.385600072
OPRM1	0.3061554	0.045423189	2.385034891
FAM131B	0.306144264	0.045428799	2.384939168
FIT1	0.306105669	0.045460759	2.384607417
APAF1	-0.306068347	0.045491514	-2.384286624
ARPC1A	-0.306056034	0.045498262	-2.384180785
WAC	-0.30603279	0.045515512	-2.383981002
AKR1CL1	0.306018678	0.04552399	2.383859714
CWC15	-0.305987917	0.045543392	-2.383595331
FEM1A	0.305991127	0.045543392	2.383622921
NAB1	-0.305954214	0.045570713	-2.383305675
FAM126B	-0.305928504	0.045580265	-2.383084724
NFATC4	0.305931794	0.045580265	2.383112997
KIAA1797	-0.305928425	0.045580265	-2.383084043
LOC645877	0.305921823	0.045581532	2.383027308
LOC100133355	0.305889055	0.045602888	2.382745703
SHH	0.305892299	0.045602888	2.382773585
DPY19L1	-0.30587634	0.045604955	-2.382636436
TMEM25	0.305880931	0.045604955	2.382675889
MBD6	0.305850352	0.045624881	2.38241311
AP2M1	-0.30579474	0.045673344	-2.381935232
LCA5L	-0.30577912	0.045675712	-2.381801011

yes

POTEC	0.305776435	0.045675712	2.381777942	
ZC3H15	-0.305777202	0.045675712	-2.38178453	
C9orf16	0.305754291	0.045691959	2.381587663	
CCDC79	0.305734043	0.045702326	2.381413685	
SEC22B	-0.305732971	0.045702326	-2.38140448	
METTL3	-0.305723256	0.0457066	-2.381321001	
FAM12B	0.305683485	0.045739853	2.380979291	
RYK	-0.305667373	0.045745561	-2.380840859	
CHST10	0.305667008	0.045745561	2.380837721	yes
TWSG1	-0.305660334	0.045746906	-2.380780379	
ARMC8	-0.305632224	0.04576893	-2.380538875	
NDRG3	-0.305604899	0.045790206	-2.380304114	
SUPT16H	-0.30558767	0.045801743	-2.380156094	
EYS	0.305581525	0.045802579	2.380103307	
DUSP19	-0.305542451	0.04582097	-2.379767624	
EIF4EBP1	0.305554881	0.04582097	2.379874406	
C3orf14	-0.30554137	0.04582097	-2.379758338	
AZ12	-0.305542676	0.04582097	-2.379769556	
TPCN2	0.305521916	0.045828237	2.379591219	
HSD17B11	-0.305518019	0.045828237	-2.379557741	
C8A	0.305523888	0.045828237	2.379608164	
TCEB3	-0.30546274	0.04587655	-2.379082881	
DYDC1	-0.30541754	0.045904951	-2.378694627	
HOXA5	0.305426157	0.045904951	2.378768644	
KLHL9	-0.30541785	0.045904951	-2.378697294	
LOC100133411	0.305408213	0.045908871	2.37861451	
MDH1	-0.305397549	0.045914084	-2.378522919	
TUBA8	0.305327522	0.045971644	2.377921444	
NUDT18	0.305330471	0.045971644	2.377946774	
LRRTM1	0.305317979	0.045975777	2.377839488	
CDR2L	0.305307665	0.045980659	2.377750898	yes
TXNRD3	-0.305291227	0.045983476	-2.377609722	
BAG5	-0.30528894	0.045983476	-2.377590078	

SCRN1	-0.305293102	0.045983476	-2.377625829
JMY	-0.305283393	0.045983743	-2.377542443
IRS2	0.3052724	0.045984182	2.377448027
EEF1E1	-0.305275292	0.045984182	-2.377472862
PTPN7	0.305261502	0.045987804	2.377354434
C1QBP	-0.305258121	0.045987804	-2.377325393
JOSD1	-0.305180235	0.046058165	-2.376656527
AFF4	-0.305150281	0.046082103	-2.376399295
ACO2	-0.305141939	0.046085084	-2.376327662
UTP20	-0.305130972	0.046090612	-2.376233485
RALGPS1	-0.305114212	0.046101761	-2.376089566
SEPHS2	0.305090258	0.046119893	2.375883879
NUP85	-0.305070592	0.04613387	-2.375715014
STT3B	-0.305018925	0.046178932	-2.375271387
ZNF552	-0.304999749	0.046192447	-2.375106741
CCRL2	0.304901731	0.046282657	2.3742652
CRYGC	0.304890013	0.046283806	2.374164604
YPEL4	0.304892319	0.046283806	2.374184401
LOC100129113	0.304861324	0.04630148	2.373918311
ALDH1L2	0.304864636	0.04630148	2.373946744
MAGEL2	0.304843463	0.046313743	2.373764981
MED21	-0.304783554	0.046366984	-2.373250699
ZNF716	0.304773526	0.046371624	2.373164625
ZCCHC6	-0.304763221	0.046376536	-2.373076162
GPR35	0.304751965	0.046377242	2.372979547
C5orf44	-0.304756318	0.046377242	-2.373016911
GAPT	0.304695622	0.046427061	2.372495919
CCDC91	-0.304688659	0.046428717	-2.372436155
SLC29A3	0.304675453	0.046436466	2.372322805
SLC24A3	0.304649871	0.046456297	2.372103238
C10orf97	-0.304615751	0.046484475	-2.371810387
ZNF773	0.304567602	0.046526378	2.371397152
OBP2B	0.30455538	0.046528032	2.371292265

SGCG	0.304555661	0.046528032	2.371294677
HMG2	-0.304543693	0.046534311	-2.371191963
DLEU2	-0.304511453	0.046560688	-2.370915285
COL1A1	0.304502513	0.046564284	2.370838564
DNAJB3	0.304480909	0.046580268	2.370653172
SATB2	0.304472612	0.046583236	2.370581971
PHLDA3	0.304456025	0.046594317	2.370439631
METAP2	-0.304421631	0.046622831	-2.370144493
KRTAP21-2	0.304403548	0.046635385	2.369989323
AMZ2	-0.304345311	0.046687284	-2.369489623
C19orf59	0.304322206	0.046704776	2.369291372
UBE2V2	-0.304304369	0.046717106	-2.369138335
UTP14C	-0.304296366	0.046719793	-2.369069672
SLN	0.304245149	0.046759716	2.368630243
ZNF12	-0.304249178	0.046759716	-2.368664813
LEMD3	-0.304179212	0.046819292	-2.368064565
MYOF	-0.304130194	0.046862295	-2.367644052
PTPN5	0.304111627	0.046875377	2.367484781
POLR3A	-0.304083261	0.046898102	-2.36724145
C6orf168	-0.304053449	0.046922259	-2.366985726
FUT10	-0.304046474	0.046923945	-2.366925897
HBZ	0.303996173	0.04696829	2.36649444
SLC36A4	-0.303970491	0.046988407	-2.366274161
ZNF528	-0.303958537	0.046995001	-2.366171636
HMBX1	-0.303950718	0.046997522	-2.366104571
POTED	0.303924381	0.047018294	2.365878688
ARMC9	-0.303901897	0.047035276	-2.365685851
FLJ43080	-0.303893494	0.047038375	-2.365613785
RPN1	-0.303872087	0.0470543	-2.365430189
C17orf101	0.3038665	0.047054623	2.365382274
CSRP2BP	-0.303834612	0.047080895	-2.365108799
TIFAB	0.303818614	0.047091493	2.364971605
RXRG	0.303803686	0.047101038	2.364843587

RIOK2	-0.303759388	0.047139588	-2.364463712	
RHOT1	-0.303750004	0.047143663	-2.364383243	
UBXN7	-0.303739436	0.047148909	-2.36429262	
BTBD3	-0.303697305	0.047185348	-2.363931357	
SRPK1	-0.303674458	0.047202739	-2.363735446	
OR9A2	0.303647763	0.047223941	2.363506559	
OR2AG1	0.303638371	0.047228031	2.363426023	
LOC348840	0.303591854	0.047264448	2.363027189	
EI24	-0.303591056	0.047264448	-2.363020348	
WDR40C	0.303573476	0.047276648	2.362869625	
OR6K6	0.303516294	0.047328081	2.36237938	
PPP1R1C	0.303482424	0.047356443	2.362089007	
TXNL4A	-0.303417403	0.047415727	-2.361531611	
LAMB4	0.303372758	0.047454832	2.361148913	
BBS10	-0.303308391	0.04751164	-2.360597185	
ZMYM6	-0.303305071	0.04751164	-2.360568729	
SNORD52	-0.303299072	0.047512378	-2.360517302	
SLC25A32	-0.303283895	0.047517014	-2.360387221	
CCKAR	0.303288169	0.047517014	2.360423855	
IRF2	-0.303249458	0.047546032	-2.360092061	
LOC100133435	0.303189144	0.047600824	2.359575132	
SERPINE1	0.303142637	0.047641908	2.359176566	
CNIH4	-0.303123556	0.047651639	-2.359013039	
ACSM2B	0.303122358	0.047651639	2.359002772	
INTU	-0.3030601	0.047708468	-2.358469258	
OIT3	0.303045069	0.047718219	2.358340449	
SPRR2C	0.303018138	0.047739846	2.358109679	
ZNF135	0.303002702	0.047750006	2.357977414	
MRPL12	0.30299427	0.047753177	2.357905165	
SEC61B	0.302906849	0.047829999	2.357156114	
ZMAT2	-0.302911349	0.047829999	-2.357194673	
FLJ11506	-0.302887575	0.047844012	-2.356990977	yes
SRM	0.302880144	0.047846187	2.356927311	

OR4E2	0.30285964	0.047861435	2.356751638	
AJAP1	0.302842324	0.047873498	2.356603284	
SLC7A9	0.302805421	0.047905162	2.356287128	
RCBTB2	-0.302782921	0.047921511	-2.356094373	
WDR52	-0.302778578	0.047921511	-2.356057165	
ZNF675	-0.302744818	0.047944792	-2.355767956	
OR1J2	0.302747956	0.047944792	2.355794842	
RORA	-0.302730223	0.047954148	-2.355642929	
RNASE11	0.302706328	0.047971541	2.355438239	
SYCP3	0.302702353	0.047971541	2.355404188	
JMJD5	0.302674431	0.047994256	2.355165011	
LRRN1	-0.302651262	0.048012215	-2.354966548	
LGI4	0.302574903	0.048083544	2.354312498	
TMEM14A	-0.302563382	0.048089836	-2.354213824	
LOC100129503	0.302527123	0.04812097	2.353903274	
ZCCHC24	0.302463036	0.048180092	2.353354406	
CLK4	-0.302430675	0.048207353	-2.353077265	
IK	-0.302382589	0.048250452	-2.352665476	
ILF2	-0.302371319	0.048256509	-2.352568969	
SPHAR	-0.302333959	0.048283551	-2.352249046	
UBE2Q2	-0.302336047	0.048283551	-2.352266922	
HIST1H3E	-0.302317443	0.048294896	-2.352107619	
HSPB11	-0.302275346	0.048332023	-2.351747154	
ARL13B	-0.302223459	0.048379047	-2.351302884	
SLC14A1	0.302194465	0.048403002	2.351054638	
BDKRB1	-0.302164052	0.048428399	-2.350794252	
TMEM14B	-0.302152833	0.048434424	-2.3506982	yes
FBXO36	-0.302110939	0.048471433	-2.350339533	
CCDC56	-0.302095524	0.048481701	-2.350207567	
IP6K1	-0.302082965	0.048489086	-2.350100053	
STGC3	0.302076785	0.048490025	2.350047142	
WDR67	-0.302071181	0.048490382	-2.349999174	
SNORD115-4	0.302041415	0.048515163	2.349744355	

LMAN1	-0.302024884	0.048526568	-2.349602845
FLJ31713	0.302017717	0.048528508	2.34954149
LAYN	-0.301944398	0.048597381	-2.348913878
CBLN3	0.301914505	0.048622334	2.348658011
FLJ45974	0.301901679	0.048630008	2.348548225
PPP2R1A	-0.301893099	0.048633382	-2.348474792
ANTXRL	0.301871602	0.048649843	2.348290791
SMR3A	0.30184892	0.04866629	2.348096655
LY6G6D	0.301844716	0.04866629	2.348060673
TRGV2	0.301839627	0.04866629	2.348017117
NAV2	-0.301808623	0.0486924	-2.347751765
WNK3	0.301791548	0.048704392	2.347605637
RCN3	0.301737433	0.048753972	2.347142509
SCOC	-0.301719776	0.048766569	-2.346991402
TBC1D5	-0.301685976	0.048795562	-2.346702156
BTNL9	0.301669567	0.048801569	2.346561738
HAO2	0.301674756	0.048801569	2.346606141
AASDH	-0.301656244	0.048809774	-2.346447725
KRTAP12-2	0.301612034	0.048849369	2.346069424
ANO2	0.301558079	0.048898905	2.345607752
LCE1E	0.301498856	0.048946945	2.345101032
C10orf55	0.301501449	0.048946945	2.34512321
ALPK3	0.301495141	0.048946945	2.345069243
TAL2	0.301452271	0.048985266	2.344702461
UTP11L	-0.30142599	0.049006702	-2.344477614
LOC100132938	-0.30140765	0.049016623	-2.344320712
MSH6	-0.301405764	0.049016623	-2.344304584
HNF4G	-0.301390837	0.049026494	-2.344176877
PDS5B	-0.301381018	0.049031157	-2.34409288
CAT	-0.301373698	0.049033274	-2.344030253
UBA5	-0.30136315	0.049038681	-2.343940024
GLMN	-0.301271444	0.049126912	-2.343155535
RPS27AP17	0.301261787	0.049131417	2.343072932

ARL10	0.301254241	0.049133768	2.343008385	yes
ZFP161	-0.301239666	0.049143299	-2.342883715	
PFKFB4	0.301229775	0.049148046	2.342799111	
C17orf73	0.301185688	0.049187739	2.342422018	
FAM83E	0.301149287	0.049219597	2.342110672	
FAM116A	-0.301140902	0.04922281	-2.342038961	
PHC3	-0.301124406	0.049234321	-2.341897872	
HEMGN	0.301107376	0.049246379	2.341752224	
C1orf135	0.301090666	0.049258114	2.341609307	
SLC2A1	-0.30102064	0.049324447	-2.341010443	
CALCA	0.300968151	0.04937287	2.340561574	
LILRB4	0.300961843	0.049373962	2.340507636	
LEMD2	0.30090095	0.049431049	2.339986936	
CCDC102B	0.300894179	0.049432617	2.339929039	
MIA	0.300857433	0.049464959	2.339614836	
PMS2CL	-0.300851012	0.049466169	-2.339559934	
KHK	0.300840505	0.049471576	2.339470092	
KIF3A	-0.300826286	0.049480796	-2.339348518	
TCEAL2	0.300794766	0.049507792	2.339079024	
MOSPD2	-0.300774081	0.049523664	-2.338902168	
NCRNA00110	0.300741872	0.049551388	2.338626794	
PI4KA	-0.300683682	0.049600994	-2.338129321	
GEMIN8	-0.300683167	0.049600994	-2.338124918	
CDK6	-0.300673164	0.049605896	-2.338039396	
NCOA4	-0.30064429	0.049630223	-2.337792562	
SUV420H2	0.300631625	0.049637868	2.337684298	
KIAA0564	-0.300620934	0.049643481	-2.337592903	
TPST1	-0.300615041	0.049644154	-2.337542529	
OGDH	-0.300604349	0.049649769	-2.337451126	
TTC6	-0.30057697	0.049672575	-2.337217085	
SOX4	0.300563426	0.049681132	2.337101315	
NSD1	-0.300549911	0.04968966	-2.336985789	
MTR	-0.300527607	0.04970725	-2.336795139	

ATP6V0A1	-0.300511474	0.049718481	-2.336657243	
C8orf37	-0.300428128	0.049788249	-2.335944872	
IL17REL	0.300438304	0.049788249	2.336031848	
LMLN	-0.30043083	0.049788249	-2.335967964	
SLC22A7	0.300397474	0.049803674	2.335682886	
ZNF828	-0.300405858	0.049803674	-2.335754534	
IL1B	0.300400778	0.049803674	2.335711125	
WASL	-0.300387085	0.049808995	-2.33559409	
SNORD64	-0.300371527	0.049819653	-2.335461126	
CCDC129	0.300357857	0.049828363	2.335344302	
NUDT22	0.300350901	0.04983014	2.335284857	
RAB31	-0.300314954	0.049856458	-2.334977653	
FAM169B	0.300317844	0.049856458	2.335002346	
OR5K1	0.300304842	0.049859625	2.334891241	
OR8A1	0.300301422	0.049859625	2.334862008	
MRPL50	-0.300280733	0.049875595	-2.334685212	
TMEM150	0.300273422	0.049877744	2.334622731	yes
NOL4	0.300252926	0.04989352	2.334447584	
EMB	-0.300208307	0.049928828	-2.334066314	
GNB3	0.300210802	0.049928828	2.334087628	
CCDC99	-0.300203084	0.049928828	-2.334021681	
CTAG2	0.30016704	0.049960706	2.333713698	
KIF26B	0.30015269	0.049970143	2.333591083	
ZFP41	0.300129567	0.049983248	2.333393513	
ZNF496	0.300134638	0.049983248	2.333436836	
MAFB	0.30012405	0.049983545	2.333346371	
RAB12	-0.300096316	0.050006845	-2.333109412	
ZBTB16	0.300087509	0.05001055	2.333034163	
ZNF655	-0.300033074	0.05006153	-2.332569086	
TIMM9	-0.300026062	0.050063377	-2.332509179	
RGS10	0.300004322	0.050080492	2.332323451	
FLJ46481	0.299966593	0.050114197	2.332001133	
LOC100133409	-0.299909257	0.050168275	-2.331511328	

C2orf30	-0.299897124	0.050170013	-2.331407686
C17orf42	-0.299899666	0.050170013	-2.331429395
DUS4L	-0.29987346	0.050189157	-2.331205542
CYP2A7	0.299827283	0.050220953	2.330811104
CXorf22	-0.299829001	0.050220953	-2.330825772
PRDM11	0.299827169	0.050220953	2.330810125
AHNAK	-0.299812908	0.05023034	-2.330688313
ITGA2	-0.299790862	0.050247821	-2.33050001
CYP11A1	0.299783273	0.050250276	2.330435192
DDX10	-0.29977217	0.050256385	-2.330340355
UIMC1	-0.299679546	0.050347317	-2.329549262
LOC647597	0.299627706	0.050395871	2.329106535
PCSK4	0.299616556	0.050402042	2.32901132
FLJ22167	-0.299592209	0.05042197	-2.328803401
EIF6	-0.299563774	0.050440718	-2.328560572
OR2G2	0.299564438	0.050440718	2.328566244
LOC641515	0.299549474	0.05045018	2.328438464
CLDN16	-0.299497929	0.050493051	-2.327998314
SLC25A14	-0.299502099	0.050493051	-2.328033916
RNF146	-0.299466965	0.050514501	-2.327733915
HNRPDL	-0.299466928	0.050514501	-2.327733601
RIF1	-0.299445646	0.050531265	-2.327551883
TRIM23	-0.299376165	0.050598401	-2.326958638
TSPYL2	0.299357777	0.050612162	2.326801646
ADIPOR2	-0.29933816	0.050627212	-2.326634159
FUT7	0.299323046	0.050637555	2.326505124
EPS15	-0.299263707	0.050693813	-2.325998536
PHLDB3	0.299258838	0.050693813	2.325956964
RORB	0.299246922	0.050700818	2.325855243
RNF41	-0.299214886	0.050728898	-2.325581758
CCDC148	-0.299184517	0.050755244	-2.325322516
PTTG2	-0.299165703	0.050765115	-2.325161916
WNT11	0.299159426	0.050765115	2.325108337

FIG4	-0.29916072	0.050765115	-2.325119382	
TNS3	0.299139141	0.050780904	2.32493518	
TNFSF10	-0.29912396	0.050791344	-2.324805599	
PTGR2	-0.299109523	0.050801006	-2.324682375	
SSX2IP	-0.299014529	0.050895219	-2.323871574	
OR5C1	0.298988948	0.050916605	2.32365324	
TMEM139	0.298976876	0.0509238	2.323550217	
C1orf89	0.298926115	0.050971668	2.323117006	
HOXA6	0.298909386	0.050983769	2.322974239	
CBX3	-0.2988654	0.051024552	-2.322598873	
TLK2	-0.298836455	0.051049523	-2.322351869	
RMND1	-0.298828037	0.051052887	-2.322280034	
DSCR8	0.298808881	0.05106756	2.32211657	
ARL3	-0.298793107	0.051078673	-2.32198197	
SEMA7A	0.298762462	0.051105457	2.321720482	
TBC1D8	-0.298748678	0.051109217	-2.321602867	
LOC729603	-0.298748451	0.051109217	-2.321600932	
GLI2	0.298740374	0.051112227	2.321532013	
CLCA2	-0.298729523	0.051118161	-2.321439423	
LY6G6E	0.298714339	0.051128663	2.321309865	
RPL13AP5	-0.298695004	0.051143543	-2.321144899	
LOC51233	0.29857297	0.051266827	2.320103741	
HIST1H2AA	0.298559505	0.051275537	2.319988871	
CCL13	0.298544335	0.051286049	2.319859459	
UBE2B	-0.298534123	0.051291324	-2.319772342	
GMEB2	0.298474522	0.051348821	2.319263912	
LOC100133415	0.298462985	0.051355503	2.319165498	
RNF145	-0.298402147	0.051414369	-2.318646549	
TMEM187	0.298394509	0.051416929	2.318581401	
CBX7	0.298385459	0.051420985	2.318504206	
COL4A1	0.298373743	0.051427865	2.318404272	yes
C8orf80	0.298368303	0.051428098	2.318357875	
SMC6	-0.298311094	0.051477651	-2.317869926	

PIAS2	-0.298315087	0.051477651	-2.317903982
TRAF6	-0.298294045	0.051490191	-2.317724518
PCK2	0.29827647	0.051501384	2.317574622
TMEM117	-0.298273051	0.051501384	-2.317545463
JMJD1C	-0.298219373	0.051552785	-2.317087673
CLCA4	-0.298209529	0.051557694	-2.317003723
TRIM55	0.298201842	0.051560315	2.316938167
IQCF2	0.298176098	0.051582102	2.316718622
RRM1	-0.298141962	0.051612808	-2.316427526
CIB1	-0.298127197	0.05162295	-2.316301617
SLCO6A1	0.2981181	0.051627071	2.316224045
BHLHE41	0.298106253	0.051634115	2.316123023
DPAGT1	-0.298057866	0.051679997	-2.315710424
MOBK1A	-0.298051381	0.051681347	-2.31565512
C9orf79	0.298023813	0.051705116	2.315420061
KLHL13	-0.298011936	0.0517122	-2.315318794
DSTN	-0.29800072	0.051718584	-2.315223156
RRAGB	-0.297936813	0.051769945	-2.314678278
PRKAR2B	0.297944822	0.051769945	2.314746567
RALA	-0.297937497	0.051769945	-2.314684116
WDR35	-0.29792454	0.05177746	-2.314573642
C3orf54	0.297912168	0.051785081	2.314468165
AURKB	0.297906934	0.051785102	2.314423546
UBE2D2	-0.297888863	0.051798795	-2.31426948
SORT1	-0.297873368	0.051809747	-2.314137379
IFT81	-0.297858253	0.051820296	-2.314008521
CCDC66	-0.297841044	0.051827524	-2.313861813
ZMYM5	-0.297841641	0.051827524	-2.313866898
CIC	0.297823613	0.051840546	2.313713208
WWP1	-0.29780552	0.051846365	-2.313558968
FAM102B	-0.297797309	0.051846365	-2.313488976
TEAD1	-0.297802465	0.051846365	-2.313532929
PAPSS2	0.29781026	0.051846365	2.313599376

C3orf64	-0.297776522	0.051862969	-2.313311772	
NOC3L	-0.297756255	0.051879021	-2.313139015	
RXFP1	0.297712144	0.051920514	2.312763006	
C3orf67	-0.297687648	0.051941095	-2.312554204	
MAP3K1	-0.297607375	0.052013471	-2.311870002	
COL21A1	-0.2976092	0.052013471	-2.311885561	
BCO2	-0.297604245	0.052013471	-2.311843327	
TXLNA	-0.297587732	0.052019984	-2.311702587	
FSCN1	0.297592639	0.052019984	2.311744411	
ZXDB	0.297575905	0.052027057	2.311601789	
C8orf38	-0.29754834	0.052046236	-2.311366859	
FAM123A	0.297543193	0.052046236	2.31132299	
PILRA	0.297526856	0.052046236	2.311183756	
WDR53	-0.297526721	0.052046236	-2.311182607	
TUBAL3	0.297529388	0.052046236	2.311205341	
ZFP91	-0.297540349	0.052046236	-2.311298752	
AQP4	-0.297486432	0.05207818	-2.310839259	
DUOX1	-0.297487106	0.05207818	-2.310845002	
FGD5	0.297467949	0.052086814	2.310681747	
TUBB4Q	0.297471565	0.052086814	2.310712556	
SNX15	0.297406117	0.052147408	2.310154834	yes
DYNC1I2	-0.297365936	0.052184744	-2.309812443	
SPDYE1	0.297360842	0.052184744	2.30976904	
C1orf83	-0.297350915	0.052189804	-2.309684449	
CD2AP	-0.297316989	0.052220579	-2.30939537	
KIAA1009	-0.297303669	0.052229278	-2.309281876	
GPR87	-0.297297339	0.052230486	-2.309227941	
OR11G2	0.297291912	0.052230725	2.309181706	
GANAB	-0.297280606	0.052231692	-2.309085371	
C6orf225	-0.297281415	0.052231692	-2.309092261	
IMPACT	-0.297267164	0.052240525	-2.308970843	
PHF3	-0.297208633	0.052292138	-2.30847216	
NPAT	-0.297213104	0.052292138	-2.308510247	

WFDC5	0.29719377	0.052296924	2.30834553
C14orf143	-0.2971945	0.052296924	-2.308351752
RARB	-0.297187931	0.05229761	-2.308295782
ZNF567	-0.297171973	0.052309153	-2.308159825
ZFP42	0.297166642	0.052309294	2.308114413
SNAP29	-0.29715083	0.052320682	-2.307979708
POU5F1	0.2971378	0.052326992	2.307868699
PRKAR1B	0.297134554	0.052326992	2.307841045
HDHD3	-0.297103155	0.05235512	-2.307573553
HN1L	-0.297080749	0.0523736	-2.307382683
PIWIL2	0.297023392	0.052429646	2.30689409
PCGF6	0.297005828	0.05244294	2.306744483
GKAP1	-0.296990975	0.052453323	-2.30661796
IGKV2-40	0.296977401	0.052460455	2.30650234
CNOT6LP1	0.296973948	0.052460455	2.306472927
C3orf57	-0.296912564	0.052504131	-2.305950091
CDC26	-0.296913247	0.052504131	-2.305955906
ARSI	0.296917885	0.052504131	2.305995407
IPO9	-0.296922686	0.052504131	-2.306036298
RNASE12	0.296904265	0.052507472	2.305879399
C20orf194	-0.296892937	0.052514072	-2.305782918
GABRA2	0.296887656	0.052514164	2.305737941
USP35	0.296839425	0.0525605	2.305327162
SALL1	0.2968251	0.052570334	2.305205167
BANF1	0.296797182	0.052594818	2.304967398
S100Z	0.296788705	0.052598355	2.304895204
TCHHL1	0.296777219	0.052605136	2.304797389
TRAV9-2	0.296761769	0.052610593	2.304665821
RBP5	0.296764179	0.052610593	2.304686342
AGBL2	-0.296755681	0.052611558	-2.304613976
PROZ	0.296722727	0.052641487	2.30433334
SLC25A3	-0.296711071	0.052648458	-2.304234079
RPL35A	-0.296684848	0.052671141	-2.304010781

TMEM104	0.29666433	0.052687677	2.303836061	
PLEKHG7	-0.296647115	0.052700652	-2.303689477	
DEFB128	0.296623183	0.052720881	2.303485697	
TMIE	0.296562337	0.052778585	2.302967615	
FASTKD3	-0.296559374	0.052778585	-2.302942382	
CARD10	0.296518286	0.052817384	2.302592555	yes
SLC9A5	0.296512404	0.052818131	2.302542479	
EPB41L4A	-0.296486048	0.052841018	-2.302318086	
DDT	-0.296468702	0.052845413	-2.302170404	
GCET2	0.296466415	0.052845413	2.302150934	
XRCC4	-0.296471682	0.052845413	-2.302195778	
WBSCR28	0.296448753	0.052858904	2.302000572	
LOC100133333	-0.296442233	0.052860344	-2.301945065	yes
GS85	0.296377588	0.052913725	2.301394734	
ST7L	-0.296377212	0.052913725	-2.301391535	
C20orf195	0.296372155	0.052913725	2.301348481	
DMTF1	-0.296383846	0.052913725	-2.301448009	
ADCYAP1	0.296350295	0.052931777	2.301162397	
CLNS1A	-0.29633737	0.052940158	-2.301052368	
DCTN3	-0.296325304	0.052947608	-2.300949659	
CHI3L1	0.296292228	0.052977824	2.300668103	
NLRP10	0.296249748	0.053018251	2.300306516	
LOC100129624	0.296202409	0.053061939	2.299903585	
NPHP3	-0.296188725	0.053061939	-2.299787119	
PECAM1	0.296194362	0.053061939	2.299835098	
RSRC2	-0.296191467	0.053061939	-2.299810459	
EID1	-0.296182793	0.053062748	-2.299736631	
MRPL3	-0.296168391	0.053072054	-2.29961405	
TFAM	-0.296163847	0.053072054	-2.299575376	
VAMP2	0.296100424	0.053135283	2.299035594	
OR3A3	0.296043667	0.053191325	2.298552581	
C11orf64	0.296025473	0.05320547	2.298397747	
KRT19	-0.295991653	0.053236614	-2.298109946	

LOC100128840	0.295983359	0.053239996	2.298039368
HJURP	0.295965599	0.053253679	2.297888243
LOC441601	0.295937534	0.053278582	2.297649424
GIP	0.295928824	0.053282419	2.297575312
PYCRL	0.295913658	0.053287643	2.297446265
FCHSD2	-0.295918027	0.053287643	-2.29748344
DUSP22	-0.295828341	0.053374942	-2.296720334
C6orf50	0.295806907	0.05339266	2.296537966
SNX29	-0.295782737	0.053413366	-2.296332324
MASP1	0.295773079	0.053418247	2.296250158
WDR60	-0.29565375	0.053542883	-2.295234985
ZNF771	0.295641674	0.053550416	2.295132253
ERI1	-0.295628439	0.053559215	-2.295019673
SLC48A1	0.295622654	0.053559872	2.294970462
SAMHD1	-0.295595382	0.053584024	-2.294738472
CYB5A	-0.295557016	0.053614651	-2.294412123
SEC61A2	-0.295560839	0.053614651	-2.294444642
ZNF654	-0.295536468	0.053631463	-2.294237346
SNORA62	0.295523639	0.053639831	2.294128224
ENOPH1	-0.295516224	0.053642274	-2.294065154
MSL3L2	-0.295449802	0.053707496	-2.293500199
OPN1SW	0.295446299	0.053707496	2.293470409
TSEN54	0.295439616	0.05370914	2.293413572
C4orf46	0.295411802	0.053728262	2.293177016
C9orf156	-0.295413291	0.053728262	-2.29318968
FAM120A	-0.29538724	0.053738147	-2.292968122
KRTAP10-3	0.295387586	0.053738147	2.292971059
PSMF1	-0.295392159	0.053738147	-2.293009952
SNX5	-0.295370693	0.053750606	-2.292827398
N4BP2L2	-0.295354477	0.053759453	-2.292689483
PCCB	-0.295352264	0.053759453	-2.29267067
FRMPD3	0.295329486	0.05377875	2.292476956
INA	0.295316131	0.053787717	2.292363386

IGLL3	0.295277729	0.053824166	2.292036817	
KRTAP1-5	0.295260464	0.05383743	2.291890002	
PITPNM2	0.295253114	0.053839814	2.291827501	yes
MRPS18C	-0.295229599	0.053859945	-2.291627537	
METTL2A	-0.29518391	0.053898749	-2.291239042	
AUH	-0.295187742	0.053898749	-2.291271625	
CCDC59	-0.295176449	0.053901258	-2.291175602	
BRAF	-0.295165381	0.05390773	-2.291081487	
NCOR1	-0.295153523	0.053915071	-2.290980663	
EEA1	-0.295115938	0.053950691	-2.290661095	
LRRC16A	-0.295075082	0.053989927	-2.290313731	
SPNS3	0.294982192	0.054086487	2.289524006	
C5orf48	0.294956451	0.054109144	2.289305181	
YWHAZ	-0.294906415	0.054158599	-2.288879825	
GIN1	-0.294891127	0.05416975	-2.288749872	
MTX3	-0.294808581	0.054255146	-2.288048211	
SF3B1	-0.294749986	0.054314169	-2.287550178	
KIAA0586	-0.294736633	0.054323207	-2.287436684	
OTX1	0.294691445	0.054367456	2.287052627	
UBR3	-0.294680142	0.054369346	-2.286956568	
MICAL2	-0.294679381	0.054369346	-2.286950093	
LOC203510	0.294668183	0.054370798	2.286854928	
OR2G3	0.294667713	0.054370798	2.28685093	
ARL11	0.294659815	0.054373808	2.286783812	
LOC100133326	0.294624363	0.054407313	2.286482519	
NKRF	-0.294570959	0.054454984	-2.286028684	
TAGLN2	-0.294572614	0.054454984	-2.286042749	
CASC4	-0.294551642	0.054463551	-2.285864535	
LRFN5	0.294547697	0.054463551	2.285831012	
TRAK2	-0.294554626	0.054463551	-2.28588989	
COG3	-0.294539273	0.054467151	-2.285759427	
MAP3K7IP2	-0.294522506	0.054479994	-2.285616949	
SHPRH	-0.294506134	0.054492403	-2.285477825	

NOL8	-0.294489193	0.054505445	-2.285333869
COIL	-0.294464345	0.054527255	-2.285122739
CBLN1	0.294455787	0.054531008	2.285050018
NBN	-0.294414124	0.054571481	-2.284696014
RASGRP4	0.294402164	0.05457901	2.284594401
KLHL28	-0.294345361	0.054636324	-2.284111782
GYP A	0.294334964	0.054642125	2.284023451
ADORA2B	-0.29429744	0.054678066	-2.283704651
LRP11	-0.294281139	0.054690432	-2.283566166
TAF1C	0.29423871	0.054731852	2.283205718
RHOJ	0.294220774	0.054740294	2.28305335
ACTR8	-0.294222035	0.054740294	-2.283064057
TIMM22	-0.294149313	0.054814064	-2.282446304
POU2F1	-0.294135273	0.054823937	-2.282327045
PBLD	-0.294095442	0.054856782	-2.281988707
C7orf64	-0.294095638	0.054856782	-2.281990374
NMRAL1	0.294062842	0.054887347	2.281711809
MORF4	0.294048913	0.054893713	2.281593503
hCG_1644323	0.294041615	0.054893713	2.281531516
BMI1	-0.294042283	0.054893713	-2.281537192
MON2	-0.294001882	0.054932251	-2.281194043
SPATA13	-0.293956955	0.054972743	-2.280812482
FAM33A	-0.293955245	0.054972743	-2.280797959
ZNF287	-0.293921203	0.055003887	-2.28050885
RPL4	-0.293917003	0.055003887	-2.280473176
MAGT1	-0.293899155	0.055018042	-2.280321608
CCNB1	-0.293877748	0.055036177	-2.28013981
KIAA1267	-0.293852204	0.055047387	-2.279922885
C9orf106	0.293852911	0.055047387	2.279928891
C7orf49	-0.293855297	0.055047387	-2.279949149
ATF7IP	-0.293845665	0.055048918	-2.279867356
ZNF280B	0.293790141	0.055095918	2.279395861
TCEAL7	0.293791991	0.055095918	2.279411568

CASD1	-0.293788103	0.055095918	-2.279378557
MEIS1	-0.293747328	0.055129761	-2.279032326
MSH4	0.293745461	0.055129761	2.279016468
CCDC109B	-0.293742334	0.055129761	-2.278989915
STIM2	-0.293729987	0.055137791	-2.278885081
OCIAD2	-0.293691611	0.055169166	-2.278559233
CEP63	-0.293693557	0.055169166	-2.27857576
LOC100130100	0.293665557	0.05518098	2.278338021
PRAMEF11	0.293665571	0.05518098	2.27833814
NMI	-0.293671636	0.05518098	-2.278389635
ERF	0.293651503	0.05519093	2.278218693
CYP4V2	-0.293633945	0.055204803	-2.278069624
C2orf56	-0.293591127	0.05524697	-2.277706097
TAF8	0.293540759	0.055297628	2.277278488
LRRC37B2	-0.293529309	0.055304675	-2.27718128
DUSP12	-0.2935215	0.055307639	-2.277114994
LOC100128262	0.293501206	0.055324605	2.276942711
UBE2J1	-0.293483696	0.055338453	-2.276794062
EFCAB2	-0.293441748	0.055379726	-2.276437977
TEF	0.293327097	0.055502726	2.275464799
LOC100130089	0.293299197	0.055528295	2.275227991
C1orf201	-0.293285104	0.055538338	-2.27510838
TEX9	-0.293272137	0.055547116	-2.274998324
OCRL	-0.293245482	0.055571301	-2.274772096
MYST2	-0.293164515	0.055656674	-2.274084954
TMEM223	0.293152659	0.055664215	2.273984344
FAM175A	-0.293121367	0.055693669	-2.273718789
SRPX	0.293091635	0.055721375	2.273466492
TRBV7-9	0.29307033	0.055733758	2.273285698
TTC21B	-0.293075045	0.055733758	-2.27332571
RWDD3	-0.293050195	0.05575065	-2.273114843
TMPO	-0.293035519	0.055755557	-2.272990315
C1orf35	0.293039042	0.055755557	2.273020205

HAGHL	0.293017175	0.055770434	2.272834654
PALM2	0.292977236	0.055809698	2.272495772
FHOD1	0.292955556	0.055828355	2.272311824
PPIL6	-0.292906976	0.055862791	-2.271899652
MICB	0.292903834	0.055862791	2.271872988
CCDC28B	0.292902734	0.055862791	2.271863659
ITGA10	0.292903106	0.055862791	2.271866818
CTR9	-0.292899269	0.055862791	-2.271834263
SIRPA	0.292892278	0.05586486	2.271774947
CARS	-0.292858573	0.055897129	-2.27148899
IRAK1	0.292801681	0.055955647	2.271006343
ISG20L2	-0.29278628	0.055967237	-2.270875685
RRP7B	0.292778777	0.055969888	2.27081204
RD3	0.29276767	0.055976619	2.270717818
B4GALT2	0.292761293	0.055977997	2.270663717
PLCZ1	0.292729204	0.056008488	2.270391504
KIAA1432	-0.292716583	0.056016938	-2.270284449
LOC283711	0.29270983	0.056017634	2.270227158
UBA1	-0.292702876	0.056017634	-2.270168176
SLC25A46	-0.292700493	0.056017634	-2.270147958
VPS37C	0.292643943	0.056075864	2.269668282
IL18BP	0.292632632	0.056076992	2.26957234
F3	-0.292632892	0.056076992	-2.269574543
STK32A	0.292599782	0.05610839	2.269293708
MFF	-0.292584372	0.056120017	-2.269163007
IQSEC2	0.292527482	0.056178719	2.268680494
DSG2	-0.292508781	0.05618824	-2.26852189
ZNF138	-0.292512582	0.05618824	-2.268554127
TSPAN2	-0.29246998	0.056215977	-2.268192821
OR4N4	0.292471367	0.056215977	2.268204588
CARD17	0.292468885	0.056215977	2.268183535
RGS6	0.292447617	0.056234278	2.268003175
EYA1	-0.292435164	0.056242568	-2.267897566

ZNF556	0.292412343	0.056262642	2.267704036
CD70	0.292360496	0.056315727	2.267264367
BLK	0.292281045	0.056400278	2.266590666
KCNMB3	0.292275262	0.056400991	2.266541631
STRA13	0.29225861	0.056408213	2.266400433
ASB4	0.292260304	0.056408213	2.266414799
BAMBI	-0.292239999	0.056421574	-2.266242634
NFIX	0.292231414	0.056421574	2.266169845
C4orf42	-0.292231858	0.056421574	-2.26617361
C11orf55	0.292208182	0.056442169	2.265972866
C9orf86	0.292201028	0.056444447	2.265912211
RNF165	0.292156564	0.056489251	2.265535227
RANBP3L	0.292144568	0.056497052	2.265433524
EPHB3	0.292138553	0.056498035	2.265382529
SFXN5	0.292107173	0.056527945	2.265116495
KIAA1804	0.292092974	0.056538266	2.264996115
WDR43	-0.292065697	0.056563511	-2.264764869
ENAH	-0.292013851	0.05661682	-2.264325366
TTL	-0.291975579	0.056654658	-2.264000932
MOBP	0.291933564	0.056694462	2.26364479
MYL5	0.291930451	0.056694462	2.263618408
SGPP2	-0.291917126	0.056697916	-2.263505456
UQCRFS1	0.291920131	0.056697916	2.263530935
YTHDF2	-0.291874941	0.056732504	-2.263147899
PENK	0.291871429	0.056732504	2.263118126
PRR5	0.291873631	0.056732504	2.263136792
UNC119B	-0.291840301	0.056762226	-2.262854301
CA5BP	0.291826378	0.056772267	2.262736289
GABRA1	0.291818603	0.05677527	2.262670396
CYB5R2	-0.291795904	0.05679536	-2.26247801
MACF1	-0.291771148	0.056811913	-2.262268204
C2orf49	-0.291771563	0.056811913	-2.262271723
WNT4	0.291738691	0.056843191	2.261993135

SLC2A8	0.291728315	0.05684918	2.261905197
RNF126	0.291716105	0.056857271	2.261801721
LOC100131756	0.291673521	0.05690018	2.261440849
LOC100133276	0.291650857	0.05691535	2.261248786
MLL5	-0.291649994	0.05691535	-2.261241478
ARFGAP1	0.291633872	0.056927937	2.261104857
IL17RC	0.291626013	0.056931046	2.261038261
SPATA5	-0.291617772	0.056934595	-2.260968431
HSD17B2	0.291601788	0.056947027	2.260832983
LOC100133421	0.291551609	0.056998709	2.260407794
CDC42BPB	-0.291529511	0.057018174	-2.260220548
GPR119	0.291524012	0.057018578	2.260173959
DDX46	-0.291513682	0.057024531	-2.260086433
APOOL	-0.29150824	0.057024871	-2.260040322
SIPA1	0.291471198	0.057061513	2.259726473
MAGEB5	0.291419846	0.057114627	2.259291398
SCD5	0.291412665	0.057116967	2.259230559
FER1L6	-0.291373577	0.057150837	-2.258899408
OR8J3	0.291372928	0.057150837	2.258893908
ADAM8	0.291235272	0.05730346	2.25772779
GALNT13	0.291219956	0.057315187	2.257598046
SNORA29	-0.291178323	0.057357277	-2.257245398
C14orf138	-0.291171123	0.057359646	-2.257184412
LRRC58	-0.291165835	0.05735981	-2.257139621
C9orf84	-0.291153196	0.057368456	-2.257032568
OR4C13	0.291122115	0.057398393	2.256769314
TOPBP1	-0.291098275	0.05741998	-2.256567399
C14orf4	0.291060496	0.057457678	2.25624743
LOC339742	0.29103673	0.057479197	2.25604615
FKTN	-0.291014043	0.057499475	-2.255854015
SFRS12	-0.291008148	0.057500341	-2.255804095
MTMR10	-0.290997718	0.057506452	-2.255715762
GPR39	-0.290941926	0.057562288	-2.255243285

TMEM39A	-0.290939157	0.057562288	-2.255219838
C12orf40	0.290921399	0.057570932	2.255069456
REV1	-0.290924447	0.057570932	-2.255095263
PROK2	0.290914406	0.057573071	2.255010241
PDCL	-0.290906916	0.057575788	-2.25494681
RBM12B	-0.290894653	0.057580914	-2.254842969
STRADB	0.290892201	0.057580914	2.254822203
LYPD6	0.290882821	0.057585818	2.254742778
TCEANC	-0.290870893	0.057593674	-2.254641772
SNORD57	0.290828674	0.057636605	2.254284279
IRAK2	0.290815791	0.057643389	2.254175191
TTLL7	-0.290812534	0.057643389	-2.254147619
CERCAM	0.290788976	0.057664724	2.253948148
MNDA	0.290759295	0.057693165	2.253696832
ZDHC2	-0.290714064	0.057733686	-2.253313877
NR1H4	0.2907191	0.057733686	2.253356516
LRFN2	0.290628395	0.057827141	2.25258859
SNORA4	-0.290617427	0.057833908	-2.252495741
TXNDC2	0.290612147	0.05783407	2.252451038
ELP4	-0.2905557	0.057893681	-2.251973188
GNA13	-0.290509001	0.057942003	-2.251577878
TRIM59	-0.29050253	0.05794355	-2.251523105
HPS5	-0.290477834	0.057959245	-2.251314061
TYSND1	0.290461856	0.057959245	2.251178814
GNAL	-0.290471194	0.057959245	-2.251257856
HK1	-0.290464642	0.057959245	-2.251202397
FLJ25770	0.290458199	0.057959245	2.25114786
TAF9	-0.290473897	0.057959245	-2.251280739
TIPARP	-0.290439202	0.057975369	-2.250987065
KRTAP19-5	0.290415037	0.057997512	2.250782525
SRPX2	-0.290381698	0.058027902	-2.250500344
VHLL	0.290378656	0.058027902	2.250474599
C3orf30	0.290353931	0.058050713	2.250265337

UBE2W	-0.290344671	0.058055516	-2.250186957
PPBP	0.29033207	0.05806421	2.250080308
TRIM29	-0.290309504	0.058084517	-2.249889325
NDOR1	0.290269263	0.058125434	2.249548767
NDUFV2	-0.290258487	0.05813201	-2.249457566
COPS3	-0.290243558	0.058143428	-2.24933123
GUCA1B	0.290219636	0.058159349	2.249128787
TUBA1C	-0.290222317	0.058159349	-2.249151474
LOC100130356	0.290177282	0.058196782	2.248770368
EEF1A19	-0.290178038	0.058196782	-2.248776771
N4BP3	0.290170264	0.058198978	2.248710986
GRPR	0.290157873	0.058201456	2.248606128
OR2B2	0.290159817	0.058201456	2.248622579
MADD	-0.290123077	0.058236081	-2.248311688
AFF1	-0.290074306	0.058287049	-2.247899012
FAM185A	-0.290068577	0.058287744	-2.247850534
C20orf108	0.290039386	0.058305086	2.247603548
CSF2RB	0.290044618	0.058305086	2.247647814
TMEM181	-0.290038336	0.058305086	-2.247594666
NR5A2	0.289952504	0.058399458	2.246868465
SLC35F1	0.289924796	0.058425881	2.246634041
DEK	-0.289916743	0.058429298	-2.246565913
RALBP1	-0.289900579	0.058442213	-2.246429166
STAU2	-0.289874137	0.058467167	-2.246205475
ZFC3H1	-0.289861957	0.058475422	-2.246102436
ZZZ3	-0.289847528	0.058486313	-2.245980371
CHAC1	0.289793215	0.058543954	2.245520916
SPEN	-0.289755653	0.058581988	-2.245203183
COMMD8	-0.289686082	0.058654825	-2.244614715
EFCAB1	-0.28968333	0.058654825	-2.24459144
MYL4	0.28967668	0.058656607	2.244535193
LOC442461	0.289612383	0.058726118	2.243991376
AHCTF1	-0.289561502	0.058779914	-2.243561048

C2orf73	-0.289434733	0.05891709	-2.242489004
E2F5	-0.289437842	0.05891709	-2.242515294
STRN3	-0.289413906	0.058935588	-2.242312882
PAGE1	0.289398797	0.058947348	2.24218512
FPR1	0.289386663	0.058955602	2.242082517
CD40	0.289349888	0.058992922	2.241771565
OR8I2	0.289307048	0.059030806	2.241409336
OR6V1	0.289303129	0.059030806	2.241376195
RTN4IP1	-0.289302386	0.059030806	-2.241369915
YWHAH	-0.289268483	0.059064773	-2.241083264
CAPZA1	-0.289203251	0.059135779	-2.240531756
FLJ20674	0.289193482	0.059141259	2.240449163
ANXA2P1	-0.28917873	0.059148301	-2.240324443
CASC1	-0.289170178	0.059148301	-2.240252147
ZNF503	0.289172251	0.059148301	2.240269667
MRPL19	-0.289166996	0.059148301	-2.240225242
PIK3R6	0.289126572	0.059190035	2.239883505
UQCRFSL1	-0.289074596	0.059227247	-2.239444119
HIGD1A	-0.28908306	0.059227247	-2.239515671
DNAJA1	-0.289088077	0.059227247	-2.239558085
PUS7L	-0.289077949	0.059227247	-2.239472462
ZNF211	-0.28901137	0.05929107	-2.238909668
CXorf48	0.289010427	0.05929107	2.2389017
TSSK1B	0.288949027	0.059353844	2.238382711
C21orf56	0.28894719	0.059353844	2.238367182
CAMTA2	0.288936346	0.059360618	2.238275522
N6AMT1	-0.288909579	0.059386273	-2.238049291
KRTAP10-8	0.2888377	0.059459386	2.237441788
C7orf50	0.288838895	0.059459386	2.237451881
OR4D2	0.28878307	0.059512078	2.236980095
STX2	-0.288785948	0.059512078	-2.237004412
ANAPC13	-0.288776106	0.059514257	-2.236921238
FTSJD1	-0.288760127	0.059527147	-2.236786204

CTNNBIP1	0.288722298	0.059566011	2.236466523	
KCND2	0.288691479	0.059596557	2.236206087	
GOT1L1	0.288680015	0.059604091	2.236109217	
FLJ45256	0.288669569	0.059604315	2.236020947	
FAM8A1	0.288670951	0.059604315	2.236032628	
FBXO4	-0.288649048	0.059622625	-2.235847543	
PPAN	0.288609244	0.059663889	2.23551121	
TSGA14	-0.288587806	0.059683306	-2.235330067	
GPR124	0.288577631	0.059689315	2.235244092	yes
C18orf55	-0.288564062	0.059699367	-2.23512945	
PROX2	0.288539409	0.059722623	2.234921151	
KHDRBS2	0.288534038	0.059722914	2.234875767	
FMOD	0.288504371	0.059752152	2.234625113	
TLE2	0.288499055	0.059752377	2.234580205	
TMEM176B	0.288492323	0.059754291	2.234523322	
GSTA2	-0.288453439	0.059794531	-2.234194811	
TXNRD2	0.28839502	0.0598581	2.233701282	
HDAC2	-0.288332263	0.059922875	-2.233171135	
C1orf138	0.288330512	0.059922875	2.233156337	
DUPD1	0.288303065	0.059949539	2.23292449	
LOC651963	0.28825536	0.06000043	2.232521525	
FUBP3	-0.288236187	0.060017227	-2.232359573	
HLA-DQA2	0.288176699	0.060082268	2.231857111	
C5orf24	-0.288169086	0.060085244	-2.231792812	
OSTN	0.288156693	0.060089517	2.231688141	
SPCS3	-0.288155263	0.060089517	-2.231676064	
FAM154B	-0.288141865	0.06009942	-2.231562903	
TSNAX	-0.288113727	0.060126975	-2.231325262	
SLC1A2	0.288076901	0.060164951	2.23101424	
PRDM15	0.288064241	0.060173979	2.230907326	
RBM45	-0.288056691	0.060176885	-2.230843563	
CES1	-0.288040388	0.060190281	-2.230705885	
GPR141	0.288035177	0.060190385	2.230661877	

C7orf62	0.288011382	0.060212767	2.230460931	
RBBP9	-0.287997641	0.060223099	-2.230344891	
MYCBP	-0.287989921	0.060226213	-2.230279693	
MRPL22	-0.287960622	0.060247907	-2.230032276	
TBC1D26	0.287956462	0.060247907	2.229997149	
FLJ13224	0.287963799	0.060247907	2.230059107	
LMCD1	0.287932213	0.060270851	2.229792386	yes
CAMK1D	-0.287913716	0.060286901	-2.229636188	
LOC285033	-0.287892701	0.060305975	-2.229458738	
TESK1	0.287879204	0.060316028	2.229344774	
TADA2L	-0.287838411	0.060358863	-2.229000332	
VBP1	-0.287821713	0.06037277	-2.228859342	
EGF	0.287760674	0.060438369	2.228343983	
ERVWE1	0.28775689	0.060438369	2.228312036	
POLD1	0.287745151	0.060446327	2.228212925	
SNRPD3	-0.287720114	0.06047028	-2.228001549	
LCA5	-0.287684068	0.060507489	-2.227697236	
FLJ46361	0.28767648	0.060510458	2.227633176	
OR5L1	0.287658205	0.060526291	2.2274789	
CCDC117	-0.287633549	0.060549812	-2.227270752	
BOP1	0.287595607	0.060589344	2.226950459	
GNG11	0.287581919	0.060599668	2.226834905	
PON1	0.287551559	0.060630086	2.226578631	
C9orf41	-0.287538012	0.060637388	-2.226464275	
TMEM129	0.287535261	0.060637388	2.226441059	
KIAA0406	-0.287440972	0.060744962	-2.225645189	
MESDC2	-0.28736164	0.06083461	-2.224975628	
C9orf31	0.287322195	0.060876109	2.224642734	
RPL11	-0.287314848	0.060878802	-2.224580727	
MRPL38	0.28727135	0.06092523	2.224213641	
HHLA3	0.287240429	0.06095026	2.223952703	
CLTCL1	0.287242607	0.06095026	2.223971083	yes
C11orf70	-0.287224966	0.06096278	-2.223822219	

THSD1	0.287206764	0.06097862	2.223668622	
CRB3	0.287166634	0.06102103	2.223329984	
STAU1	-0.287160373	0.061022412	-2.223277154	
ARID4A	-0.287119117	0.061066209	-2.222929043	
SNORA6	0.287087714	0.061098081	2.222664075	
RAC2	0.287072987	0.061109734	2.222539813	
OR6N2	0.287055041	0.061125295	2.222388395	
CCDC146	-0.287031202	0.061148009	-2.22218727	
HSD11B1L	0.287025298	0.061148962	2.222137455	
HOXA1	0.286981741	0.061195627	2.221769966	
PDE1B	0.286975653	0.061196803	2.221718605	
EED	-0.286963589	0.061205238	-2.221616827	
EME1	0.286941919	0.061225342	2.221434011	
FAM65A	0.286921116	0.061244399	2.221258512	yes
SDSL	0.286900642	0.061260194	2.221085793	
ETV1	0.286896827	0.061260194	2.221053607	
ETV3	-0.286892765	0.061260194	-2.221019342	
LINGO2	0.286883452	0.061265293	2.220940776	
POLH	-0.2868317	0.061321995	-2.220504211	
MVD	0.286822816	0.061326577	2.220429269	
MCART2	0.28677993	0.061372532	2.220067518	
C5orf27	0.286763555	0.061386236	2.219929389	
CCDC88C	-0.2867267	0.061424881	-2.219618529	
TMEM17	-0.286716867	0.061430626	-2.219535585	
DARS	-0.286710746	0.06143185	-2.219483958	
NME5	-0.286671218	0.061473775	-2.219150568	
KCNA2	0.286640664	0.061498546	2.218892868	
XPA	-0.286642208	0.061498546	-2.218905894	
NPY1R	0.286617584	0.061520448	2.218698216	
ARL6IP4	0.286569511	0.061572849	2.218292784	
APOBEC3H	0.286523605	0.061616392	2.217905654	
TRPA1	0.286524003	0.061616392	2.217909007	
HLCS	-0.286505988	0.061631657	-2.217757087	

CACNB1	0.286492775	0.061641545	2.217645667
MPP3	0.286487087	0.061642246	2.217597694
KRT31	0.286470026	0.061656837	2.217453826
ANKAR	-0.286439957	0.061687326	-2.217200267
PACS2	0.286414476	0.061712218	2.216985404
ZNF292	-0.286398693	0.06172526	-2.216852325
GRAP	0.286360234	0.061747275	2.216528042
TRDMT1	-0.286364503	0.061747275	-2.216564032
C12orf63	-0.28636178	0.061747275	-2.216541072
USP28	-0.286361894	0.061747275	-2.216542038
ZNF683	0.286349364	0.061751721	2.216436382
PLA2G12B	0.286346374	0.061751721	2.216411175
DCLRE1A	-0.286320801	0.061776747	-2.216195558
C20orf112	0.286304144	0.061784618	2.216055112
KCNG4	0.286307224	0.061784618	2.216081081
ORM1	0.286293175	0.061791785	2.215962629
MKS1	-0.286279035	0.061802698	-2.215843413
BCAT1	0.286274035	0.061802698	2.215801261
TSGA10	-0.286263814	0.061808953	-2.21571508
EPC1	-0.28623295	0.061840474	-2.215454876
ATP5H	-0.286213421	0.061850139	-2.215290232
SHISA2	0.286217859	0.061850139	2.215327644
PTPRR	0.286209729	0.061850139	2.215259101
hCG_2019139	0.286196683	0.061859857	2.215149117
ASB14	-0.286152607	0.061907586	-2.214777548
CD14	0.286137345	0.061920028	2.214648882
KLHDC8B	0.286080628	0.061973072	2.214170771
ANKS4B	0.286078748	0.061973072	2.214154928
INPP1	-0.286086661	0.061973072	-2.214221627
PTGIR	0.286073491	0.061973255	2.214110612
PABPC4	-0.286066969	0.061974991	-2.214055631
C4orf33	-0.286054773	0.061983684	-2.213952827
SPATA6	-0.286035202	0.062001425	-2.213787856

CAMTA1	0.285995848	0.062041709	2.213456139
ZNF286A	-0.285992155	0.062041709	-2.213425016
UPF3B	-0.285981486	0.062048537	-2.213335091
VNN3	-0.285962256	0.062065874	-2.213173003
ARPC5	-0.285899272	0.062134243	-2.212642149
C9orf62	0.285896376	0.062134243	2.212617739
NEK10	-0.285886619	0.062139958	-2.212535511
C12orf28	0.285873375	0.062149959	2.212423891
MFS2	-0.285866249	0.062152443	-2.212363835
IGFBP4	0.285840766	0.062177491	2.212149068
SNORA36C	0.285822982	0.062191805	2.21199919
NDUFAB1	-0.285818915	0.062191805	-2.211964912
MRPL15	-0.285752942	0.06226668	-2.211408945
KARS	-0.28573261	0.062285424	-2.211237604
NUPR1	0.285722755	0.062291272	2.211154559
USP44	0.285714842	0.062294731	2.211087879
URG4	-0.285706695	0.062296303	-2.211019227
PIP5K1B	-0.285703359	0.062296303	-2.210991116
NFATC3	-0.285678491	0.062320639	-2.21078157
SNX26	0.285664575	0.062325211	2.210664308
CDS2	-0.285665109	0.062325211	-2.210668804
NFYC	-0.285651711	0.062334772	-2.210555908
ZC3H8	-0.285641722	0.062340791	-2.210471746
MRO	0.285615568	0.062366728	2.210251366
C10orf85	0.285592055	0.062389416	2.210053256
CXorf26	-0.285546265	0.062439581	-2.209667451
TNFSF12	0.285540527	0.062440367	2.209619105
OR56A1	0.285493444	0.062492161	2.209222424
MLF1	-0.285486038	0.062495006	-2.209160024
PAGE2	0.285459247	0.06252178	2.208934318
PSMB6	-0.285429196	0.062546291	-2.20868115
SLC25A2	0.285431595	0.062546291	2.208701359
CXorf23	-0.285392493	0.062585328	-2.208371954

FRAP1	-0.28536481	0.062613235	-2.208138748
CD209	0.285335682	0.062642939	2.207893382
UBE2N	-0.28530255	0.062677607	-2.207614296
NOL10	-0.285197823	0.062800946	-2.206732173
RAD17	-0.285068962	0.062954441	-2.205646888
IL8RA	0.284969851	0.063071241	2.204812258
TUSC3	-0.284957342	0.06308045	-2.204706921
GLO1	-0.284919198	0.063121548	-2.204385724
TMEM194A	-0.284905586	0.063132135	-2.204271104
TNFAIP6	0.284870177	0.063163501	2.203972955
RP3-402G11.5	0.284874185	0.063163501	2.204006705
FPR2	0.284846101	0.063187123	2.203770238
LRRC68	0.284812263	0.06321138	2.203485331
MGST3	-0.284812843	0.06321138	-2.203490214
VRK3	-0.284811315	0.06321138	-2.20347735
LOC168474	0.284791781	0.063213105	2.203312878
RABGAP1	-0.284789526	0.063213105	-2.203293894
DIP2B	-0.284798487	0.063213105	-2.203369344
NOS1AP	0.284792452	0.063213105	2.203318529
C13orf33	0.28478044	0.063218069	2.203217395
UGT1A6	-0.284718555	0.063288829	-2.202696378
WNT8A	0.284670311	0.063342634	2.202290223
SFRS5	-0.284639778	0.063374368	-2.202033188
SMAP1	-0.28458958	0.063430671	-2.20161062
ARHGAP12	-0.284524704	0.063505363	-2.201064519
TRPV6	0.284446537	0.063596759	2.200406587
TRMT2A	0.284430479	0.063610473	2.200271428
CCAR1	-0.284401368	0.063640533	-2.200026419
FASLG	0.284376902	0.063664787	2.199820499
PLG	0.284336444	0.063702694	2.199480007
EBAG9	-0.284338808	0.063702694	-2.199499897
COL9A1	0.284286872	0.063758447	2.199062822
RACGAP1	-0.284255927	0.063790864	-2.198802409

UTP23	-0.284220575	0.063828827	-2.198504922
IFT20	-0.284170837	0.063884877	-2.198086384
MOSPD1	-0.284157886	0.063894737	-2.197977406
PIH1D2	-0.284146391	0.063902768	-2.197880682
LOC100130924	0.284125823	0.063922203	2.197707616
C9orf82	-0.284115701	0.063928512	-2.197622447
LRRC49	-0.284086759	0.063958481	-2.197378927
LOC391742	0.284047126	0.064001908	2.197045465
RPS6KB1	-0.284018169	0.064031923	-2.196801834
CLEC4F	0.28400909	0.064036929	2.196725449
EIF3H	-0.283997295	0.064045353	-2.196626214
CTSG	0.283964003	0.064068317	2.196346127
SPTBN1	-0.283958651	0.064068317	-2.196301101
SNORA23	0.283962912	0.064068317	2.196336952
GEMIN7	-0.283964316	0.064068317	-2.196348763
TMEM204	0.283932976	0.064094225	2.196085097
WDR32	-0.283917258	0.064107597	-2.195952874
PIGS	-0.283885103	0.064141681	-2.195682368
KCNIP2	0.283840333	0.064191684	2.195305755
ARMC3	-0.283831025	0.064192194	-2.195227454
CCDC144NL	0.283829731	0.064192194	2.195216566
GTF3C6	0.283815468	0.064203749	2.195096588
OMP	0.28378442	0.064236478	2.19483542
ADAMTS19	0.283778623	0.064237358	2.194786666
SLC46A3	-0.283759038	0.064255637	-2.19462192
C9orf47	0.283750913	0.064259457	2.194553579
HABP4	0.283736377	0.064271368	2.194431312
PCDH17	0.283704216	0.064305233	2.194160806
PLOD2	-0.283699353	0.064305233	-2.194119902
AXIN1	0.283649073	0.064362296	2.193697017
ANKRD11	0.283632737	0.064376497	2.193559623
C10orf139	0.283563565	0.064451057	2.192977875
RAB27A	-0.283566137	0.064451057	-2.192999506

RGR	0.283536058	0.064479405	2.192746551
MFI2	0.283527786	0.064483424	2.192676981
PPP3CC	-0.28344481	0.064582023	-2.191979219
C8orf77	0.283399289	0.06463325	2.191596444
CNKS2	0.283330709	0.064711468	2.191019801
OR5AU1	0.283327422	0.064711468	2.19099216
SMC4	-0.283280285	0.064760824	-2.190595842
OR5H2	0.283278342	0.064760824	2.190579505
PTDSS1	-0.283249564	0.064790896	-2.19033755
PHF6	-0.283243393	0.064792259	-2.190285675
PCDHA10	0.283227726	0.064805686	2.190153956
OXGR1	0.283135813	0.064911247	2.189381251
OR52E8	0.28313449	0.064911247	2.189370125
SAR1P3	0.283040783	0.06502404	2.188582412
APOM	0.283031745	0.065029058	2.188506445
DTD1	0.283017193	0.065041102	2.188384126
CHAD	0.283000843	0.06505544	2.188246688
LIN7B	0.282952129	0.065110444	2.187837239
TXN	-0.282947498	0.065110444	-2.187798311
CYB5D1	-0.282918787	0.06514056	-2.187556996
C17orf56	0.28290492	0.065151747	2.187440447
PARS2	0.2828731	0.065174747	2.187173015
TOR1B	-0.282881341	0.065174747	-2.187242278
MRPL1	-0.282871604	0.065174747	-2.187160439
FSCN3	0.28285759	0.065186127	2.187042663
GJA5	0.282799581	0.065253686	2.186555139
RBP4	0.282764296	0.065292255	2.186258616
PWWP2A	0.282736283	0.065321547	2.186023204
C6orf195	0.28268225	0.06538413	2.185569157
C7orf30	-0.282676683	0.065384732	-2.185522375
LRDD	0.282636889	0.065429135	2.185187991
EAF1	-0.282628114	0.065433844	-2.18511426
ZNF285A	0.282612554	0.065440716	2.184983517

PIAS1	-0.282615758	0.065440716	-2.185010439	
LOC400590	-0.282566493	0.065493177	-2.184596502	
BTNL3	0.282544865	0.06550783	2.184414776	
SNX16	-0.282547871	0.06550783	-2.184440033	
ZNF254	-0.282533245	0.065516191	-2.184317146	
SPIN1	-0.28252703	0.065517626	-2.184264928	
C8orf44	-0.282503271	0.065541171	-2.184065317	
WIBG	0.282498469	0.065541171	2.184024967	
OCR1	-0.282447937	0.065599429	-2.183600432	
CAMKK1	0.282426118	0.065620883	2.183417126	
SFRS16	0.282419647	0.06562265	2.183362768	
HIST1H4F	-0.282365944	0.065685037	-2.182911619	
YPEL2	-0.282315217	0.065743648	-2.182485494	
SNX8	0.282308459	0.065745785	2.182428726	
VAMP4	-0.282288656	0.065764688	-2.182262374	
LOC728361	0.282281605	0.065767204	2.182203145	
CNRIP1	0.282217974	0.065842469	2.181668671	
TP53BP1	-0.282210417	0.065845639	-2.181605192	
NRG4	-0.282203341	0.065848189	-2.181545761	
PLXND1	0.282192364	0.065849207	2.181453561	yes
ACRV1	0.282194294	0.065849207	2.181469776	
ALDOC	0.282164405	0.065876823	2.181218731	
SLC26A5	-0.282160715	0.065876823	-2.181187742	
LIG4	-0.282081485	0.065969543	-2.180522311	
MANEA	-0.282078518	0.065969543	-2.180497398	
ZNF69	0.282053991	0.065994585	2.180291412	
PRR3	0.282043175	0.066001962	2.180200575	
C2orf27	-0.282026186	0.066007077	-2.180057898	
NBPF1	-0.282027927	0.066007077	-2.180072525	
NAV1	-0.282023932	0.066007077	-2.180038976	
C16orf84	0.28197815	0.066059537	2.179654505	
MRAP2	-0.281966584	0.066067887	-2.179557385	
SFMBT1	-0.281945708	0.066088249	-2.179382078	yes

CPEB2	-0.281921072	0.066098037	-2.179175199
CYP4B1	-0.281917762	0.066098037	-2.179147408
C10orf12	-0.281931193	0.066098037	-2.179260188
TRIM75	0.281927482	0.066098037	2.179229032
C18orf19	-0.281897704	0.066117352	-2.178978979
DAOA	0.281868741	0.066148165	2.17873578
MMGT1	-0.281841686	0.066176526	-2.178508611
DDX21	-0.281830416	0.066184508	-2.178413983
F9	0.28182289	0.066187656	2.178350794
SCML1	-0.281815622	0.06618951	-2.178289771
DUSP27	0.28181128	0.06618951	2.178253309
HELZ	-0.281710166	0.066313618	-2.177404369
MGAT3	0.281666118	0.066364024	2.177034574
CLCC1	-0.281650067	0.066378214	-2.17689982
IGSF9B	0.281639215	0.066385676	2.176808715
RAB4A	-0.281629219	0.06639203	-2.176724798
VKORC1L1	-0.28160217	0.066420465	-2.176497736
UCHL5IP	0.281580272	0.06644224	2.176313905
TMEM163	0.281569523	0.066449573	2.176223679
PSG2	0.281559062	0.066456536	2.176135863
BCAP31	-0.281534408	0.066468709	-2.17592891
TBC1D9	-0.281536811	0.066468709	-2.175949077
FCRLA	0.281534856	0.066468709	2.175932666
DDX55	-0.281525553	0.066473593	-2.175854584
TEX10	-0.281518454	0.066476203	-2.175794991
TCTEX1D1	-0.281457816	0.066541624	-2.175286011
ZNF586	-0.281462717	0.066541624	-2.17532714
FBXO25	-0.281418821	0.066579014	-2.174958703
DNAH11	-0.281420551	0.066579014	-2.174973223
RABGGTB	-0.281404161	0.066591438	-2.17483566
ZFP90	-0.281379084	0.066617383	-2.174625189
LRP2	0.281359212	0.066629979	2.174458408
LOC729862	0.281364206	0.066629979	2.174500315

FHL3	0.281344324	0.066642708	2.174333454
LOC100129191	0.281336447	0.066646335	2.174267346
KIAA1539	0.281300099	0.066686938	2.173962291
CLCN4	0.281263786	0.066727513	2.173657551
MAP2K7	0.281240454	0.066751233	2.173461747
C4orf39	0.281228411	0.066760281	2.173360687
PAXIP1	-0.281210486	0.066770371	-2.173210258
SNORD44	-0.281214733	0.066770371	-2.173245897
HNRNPC	-0.281131011	0.066867154	-2.172543358
DIS3L2	-0.281088424	0.06691341	-2.172186017
ACVR1	-0.281085322	0.06691341	-2.172159984
GPR172B	0.281029548	0.066972308	2.171692015
RAP1A	-0.281024869	0.066972308	-2.171652755
SNX3	-0.281030731	0.066972308	-2.171701944
SUCNR1	0.281014523	0.066979169	2.171565955
OK/SW-CL.36	0.280982579	0.067014189	2.171297942
SLFN12	-0.280951278	0.067048385	-2.171035333
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SNHG10	0.28089715	0.067086174	2.170581227
DNAJC3	-0.280901199	0.067086174	-2.170615194
LOC645139	-0.280901036	0.067086174	-2.17061383
CAMKV	0.280907397	0.067086174	2.170667198
WDR66	-0.280890848	0.067087456	-2.170528364
FH	-0.280803177	0.06717408	-2.169792896
APPL1	-0.280804885	0.06717408	-2.169807229
HP	0.280799106	0.06717408	2.169758752
RFX1	0.280816878	0.06717408	2.16990783
CASP9	-0.28081221	0.06717408	-2.169868675
NUDT16L1	0.28076196	0.06721598	2.169447153
ASB15	0.280741949	0.06723509	2.169279299
ZC3H6	-0.280737182	0.06723509	-2.169239313
POP4	-0.28070461	0.067268709	-2.168966108
BAX	0.280701313	0.067268709	2.168938446

CDRT15	0.280688339	0.067279035	2.168829629
IGHV3-35	0.280679718	0.067283669	2.16875732
NPHP1	-0.2806357	0.067334616	-2.168388122
ZNF596	-0.280614465	0.067355764	-2.168210021
FLJ16686	-0.280602011	0.067365421	-2.16810557
C3orf34	-0.280593401	0.067370046	-2.168033356
PDPR	-0.280567982	0.067396683	-2.167820169
TMEM14C	-0.280541404	0.067424846	-2.167597272
ZMYM1	-0.280473322	0.067504867	-2.167026315
ZCCHC9	-0.280470198	0.067504867	-2.167000121
CC2D2A	-0.280462232	0.067508657	-2.166933314
APOA5	0.280453213	0.067513826	2.166857686
TTC18	-0.280417882	0.067553513	-2.166561407
ZDHC17	-0.280261112	0.067752779	-2.165246897
GPR19	0.280250218	0.067756347	2.165155551
INSL3	0.280248244	0.067756347	2.165139005
CDT1	0.280228802	0.067775241	2.164975998
ANAPC10	-0.280213563	0.06778861	-2.164848236
C14orf1	-0.280158377	0.06784788	-2.164385562
PDAP1	0.280162152	0.06784788	2.164417215
ADAMDEC1	0.280109885	0.067891683	2.163979038
OR13D1	0.280117116	0.067891683	2.164039655
RPS6KA2	0.280111178	0.067891683	2.163989876
WDR63	-0.280086376	0.067915968	-2.163781954
MRGPRX3	0.280076247	0.067922626	2.163697046
CCT6B	-0.280034364	0.067962647	-2.16334595
RNF180	-0.280037644	0.067962647	-2.163373444
OAT	-0.280030655	0.067962647	-2.16331486
KIAA1377	-0.280012535	0.067979846	-2.163162966
EML6	-0.279999462	0.067990393	-2.163053381
KCNA5	0.279984038	0.068004041	2.162924097
ABHD7	0.279951659	0.068040061	2.162652687
CAPRIN2	-0.27991679	0.068079382	-2.162360421

CARHSP1	0.279906037	0.068086879	2.162270291	
HEY2	-0.279875181	0.068120922	-2.162011669	
HINFP	-0.279860671	0.068133384	-2.16189006	
SNORD49A	-0.279842505	0.068150678	-2.161737806	
ING1	0.279836895	0.068151387	2.161690784	
CDCP1	-0.279804575	0.068187391	-2.16141991	
INGX	0.27976161	0.068230969	2.161059829	
NME7	-0.279761465	0.068230969	-2.161058613	
CCDC45	-0.279729909	0.068265994	-2.160794164	
DBN1	0.279696099	0.068304017	2.160510833	yes
PCDHA8	0.279687671	0.068308458	2.160440198	
SAMD13	0.279660384	0.068337864	2.160211537	
TNFSF13B	0.279631272	0.068369695	2.159967593	
SNX6	-0.279604951	0.068397843	-2.159747034	
SPATA7	-0.279596525	0.068402286	-2.159676427	
NR2F1	0.279591079	0.068402781	2.159630797	
CWC22	-0.279578958	0.06841212	-2.159529232	
SERPINI2	-0.279552319	0.068440702	-2.159306025	
C6orf211	-0.279515188	0.068483208	-2.158994905	
CIR	-0.279371387	0.068667383	-2.157790125	
ALMS1	-0.279342977	0.068698404	-2.157552122	
LOC645805	-0.279313953	0.068730253	-2.157308979	
PLXNA4	0.279306053	0.068734013	2.157242797	
TMEM178	0.279291327	0.068746853	2.157119436	
LOC100129946	0.279200201	0.068847901	2.156356106	
FAM46B	0.279200191	0.068847901	2.156356022	
FAM109B	0.279206536	0.068847901	2.156409175	
NDUFA3	0.279169161	0.068882477	2.156096116	
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SCFD2	-0.279134733	0.068914836	-2.155807747	
TMEM220	-0.27911562	0.068933551	-2.155647662	yes
RCOR1	-0.279101373	0.068945782	-2.155528337	
HIST2H2BF	-0.279041162	0.069019329	-2.155024049	

ICAM3	0.279014329	0.069048372	2.154799323
ENO1	-0.279003338	0.069056273	-2.154707271
FAM176A	0.278996846	0.069058167	2.154652908
TBC1D28	0.27898137	0.069072058	2.154523301
MAD1L1	0.278968049	0.069083073	2.154411741
SMAD3	-0.278962045	0.069084318	-2.154361464
LOC100129726	0.278941701	0.069104715	2.154191095
SNORD115-2	0.278921939	0.06912434	2.154025599
OR4M2	0.278816427	0.069257111	2.153142066
BARX2	0.27881249	0.069257111	2.153109101
LOC390424	0.278795761	0.069272711	2.152969021
IFT172	-0.278759336	0.069314679	-2.152664036
C4orf17	0.278752865	0.069316553	2.152609852
CENPT	0.278731276	0.069338672	2.15242909
KTELC1	-0.278707278	0.069357232	-2.152228163
DNAL1	-0.278709879	0.069357232	-2.152249949
C2orf67	-0.278673954	0.069395085	-2.151949162
OR2Z1	0.27864789	0.069423222	2.151730954
HNRNPA3P1	0.278626028	0.069440276	2.151547925
FAM119B	0.278625029	0.069440276	2.151539559
HPGD	-0.278617934	0.069442992	-2.151480159
PLEKHA2	-0.278566648	0.069498176	-2.151050815
ZNF502	-0.278570303	0.069498176	-2.151081413
KIAA0746	-0.278534964	0.06953389	-2.150785573
PIK3R2	0.278524801	0.069540726	2.150700502
MTA3	-0.278489709	0.069581034	-2.150406744
SLC17A5	-0.278437058	0.069635556	-2.149966017
ATXN3	-0.278433913	0.069635556	-2.149939689
UGT2B7	0.278440669	0.069635556	2.149996243
OR5AN1	0.278428819	0.069635591	2.149897051
CDC2L6	-0.278416631	0.069645158	-2.149795031
RECQL	-0.278404037	0.069655272	-2.14968962
ICAM1	0.278368847	0.069691951	2.149395076

LYZL6	0.278366615	0.069691951	2.149376388
CAKAD	-0.278343108	0.069716746	-2.149179638
APOD	0.278329567	0.069728143	2.149066306
CHL1	-0.278252411	0.069825155	-2.148420558
C5orf37	-0.278214324	0.069869628	-2.148101809
SEL1L	-0.278178067	0.069911655	-2.147798389
FLJ13197	-0.278166767	0.069920055	-2.147703828
STXBP4	-0.278149341	0.069936716	-2.147557998
SNORA61	0.278128868	0.069957488	2.147386678
ZNF134	-0.278112736	0.069972411	-2.147251679
TOPORS	-0.278099743	0.069975336	-2.147142957
ZCCHC14	-0.27808998	0.069975336	-2.147061259
HAGH	0.278087265	0.069975336	2.14703854
APOBEC4	-0.278085237	0.069975336	-2.147021574
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HIST1H2BO	0.27806885	0.069990608	2.146884447
BBX	-0.278057444	0.069999162	-2.146789004
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C11orf44	0.278026291	0.070027528	2.146528333
C5orf33	-0.278018389	0.070031358	-2.146462218
CPEB3	-0.277960873	0.070102169	-2.145980968
LIMA1	-0.277950529	0.070109299	-2.145894429
R3HDM1	-0.277937133	0.070120554	-2.145782347
NPNT	-0.277905419	0.070156561	-2.145517006
GNAI1	-0.277848976	0.070226021	-2.145044786
KIAA0408	0.277840488	0.070230652	2.144973776
HMGCS2	0.277770033	0.070319137	2.144384376
RFC2	-0.277763725	0.070320822	-2.144331603
BDP1	-0.277755229	0.070325468	-2.144260534
P2RX5	0.277722677	0.070362694	2.143988225
FUK	0.277683432	0.070382688	2.143659946
RIMBP2	0.277686268	0.070382688	2.143683665
PLA2G2C	0.277682604	0.070382688	2.143653017

ROR1	0.277686874	0.070382688	2.143688741
PCDHGA2	0.277699704	0.070382688	2.14379606
TAS2R41	0.277667137	0.070396784	2.143523643
TSPAN8	-0.277638412	0.070428852	-2.143283372
PEX11B	-0.277576452	0.070506006	-2.142765123
C5orf53	-0.277548481	0.070537089	-2.142531181
HN1	-0.277531255	0.070553598	-2.142387106
OR7D4	0.277519262	0.070555405	2.142286801
ENG	0.277523766	0.070555405	2.142324469
SNORD25	-0.277514741	0.070555405	-2.142248986
C9orf85	-0.277508231	0.070557371	-2.142194545
OPHN1	-0.277494962	0.070567365	-2.142083563
ZNF80	0.277490749	0.070567365	2.14204833
SCGN	0.277448161	0.070600391	2.14169216
C22orf27	0.277446828	0.070600391	2.141681013
EHD2	0.277457308	0.070600391	2.141768657
MLLT1	0.277446186	0.070600391	2.141675647
CEACAM6	-0.277425321	0.070621858	-2.141501149
JDP2	0.277388819	0.070664573	2.1411959
OLFML2A	0.277336169	0.070729265	2.140755617
APOB48R	0.277325798	0.07073649	2.140668892
LOC100133413	-0.277291714	0.070762208	-2.140383889
SPDYE7P	0.277295627	0.070762208	2.140416609
LOC646057	0.277294024	0.070762208	2.140403197
SELL	0.277275779	0.070777006	2.140250643
DNAJC4	0.277263356	0.070787029	2.140146759
LOC653924	0.277206945	0.070856928	2.139675089
KIF21B	0.277184901	0.070880061	2.139490778
LRRC34	-0.27716186	0.070904559	-2.139298133
RPS2P11	0.277056042	0.071035044	2.13841344
GBP7	0.277057544	0.071035044	2.138425997
FHL5	0.277037202	0.07105385	2.138255939
SASH3	0.27702413	0.071064788	2.138146658

FAM100A	0.276931808	0.071183972	2.1373749
LOC100131888	-0.27691424	0.071201071	-2.137228049
WDR78	-0.276828059	0.071305111	-2.136507687
DNAJC30	0.276828394	0.071305111	2.136510486
CTSO	-0.276776545	0.071368712	-2.136077126
ZNF137	-0.276755102	0.071391154	-2.135897906
COMMD9	-0.276725463	0.0714179	-2.135650192
KCNK5	0.276728993	0.0714179	2.135679698
ZNF445	-0.276693564	0.071454686	-2.135383603
RNF38	-0.276667852	0.071483004	-2.135168714
CRELD2	0.276601543	0.071567035	2.134614579
OR8H2	0.27654422	0.071638801	2.134135567
LYN	-0.27653253	0.071647909	-2.134037884
TAF3	0.276526525	0.071649209	2.133987705
ATP6VOD2	0.276449135	0.071734719	2.133341051
LOC284288	0.276455916	0.071734719	2.133397709
HTR2A	0.2764541	0.071734719	2.133382536
SLC25A17	-0.276409523	0.071782247	-2.133010077
PLD1	-0.276394431	0.071788741	-2.132883977
SLC22A4	-0.276389627	0.071788741	-2.132843847
ZNF566	-0.276392158	0.071788741	-2.132864994
TAF12	-0.276367501	0.071812229	-2.132658982
COQ2	-0.276356567	0.071820317	-2.132567629
NEK11	-0.276340171	0.071835924	-2.132430646
CECR4	0.276302215	0.071874257	2.132113542
GLCC1	-0.276306262	0.071874257	-2.132147348
KIF27	-0.276283592	0.071892942	-2.131957956
CDC20B	-0.276179345	0.072029672	-2.131087092
CHORDC1	-0.276160785	0.0720483	-2.130932055
MAEL	0.276143294	0.072065458	2.130785942
PROL1	0.276090823	0.072130916	2.13034765
CERKL	-0.276053533	0.072161465	-2.130036186
ANKDD1B	-0.27605766	0.072161465	-2.130070657

DYDC2	-0.276058324	0.072161465	-2.130076196
TAS2R5	-0.27604239	0.072169874	-2.12994311
PAK1IP1	-0.27601934	0.072194737	-2.129750587
LDHB	-0.276012077	0.072197786	-2.129689927
KRTAP27-1	0.27598615	0.072226634	2.12947338
FAM168B	-0.275971844	0.072239421	-2.129353901
SPATA17	-0.275949144	0.072263819	-2.129164314
DEF6	0.275923499	0.072292298	2.128950132
FANK1	-0.275884269	0.072339587	-2.12862251
PP14571	0.275866472	0.072350855	2.128473883
LRRC7	0.275866017	0.072350855	2.128470081
KMO	0.275797061	0.072439354	2.127894238
CLEC12B	0.275768504	0.072471923	2.127655774
HERC1	-0.275746651	0.072495209	-2.127473293
MYSM1	-0.275691037	0.072558318	-2.127008917
RAB20	0.275694248	0.072558318	2.127035726
SAFB	-0.275652476	0.072604817	-2.126686939
CCDC86	0.275647097	0.072605265	2.126642028
ATP10A	0.275638259	0.072610515	2.126568241
NCAPH2	0.27561509	0.072630877	2.126374791
CCDC82	-0.275613483	0.072630877	-2.126361373
APITD1	-0.275605481	0.072634969	-2.126294564
TRPS1	-0.275592316	0.072646232	-2.126184646
SGPP1	0.275541998	0.072709109	2.125764551
MCM9	-0.275514814	0.072739866	-2.125537599
GPR82	0.275502325	0.072743176	2.125433336
TAF4	0.275505489	0.072743176	2.125459748
SSX5	0.275480202	0.072766908	2.125248641
WDR31	-0.27545291	0.072790806	-2.125020803
EPS8L3	0.275457898	0.072790806	2.125062448
CLUAP1	-0.275420032	0.072813433	-2.12474634
TAS2R60	0.275416433	0.072813433	2.124716302
PUS7	-0.275421292	0.072813433	-2.124756863

WFDC8	0.275429498	0.072813433	2.124825367
PCBP1	-0.275371029	0.072869581	-2.124337287
SNORD56B	-0.275359753	0.072878246	-2.124243158
DPH3B	0.275324812	0.072912827	2.123951501
ZNF160	-0.275327065	0.072912827	-2.123970307
ZNF219	0.275310164	0.072926192	2.123829232
COX6A1	-0.275305091	0.072926222	-2.123786893
ZNF10	-0.275251777	0.072993463	-2.123341893
CYP7B1	0.275239036	0.073004181	2.123235552
SMCHD1	-0.275227013	0.073006861	-2.123135198
SATB1	-0.27523002	0.073006861	-2.123160296
TENC1	0.275216119	0.073015007	2.123044277
CHCHD2	-0.275204132	0.073024678	-2.12294423
LPAR3	-0.275144374	0.07310098	-2.122445489
ADH7	-0.27513888	0.0731016	-2.122399635
POLB	-0.27506286	0.073200676	-2.121765221
C1orf211	0.275031884	0.073236896	2.121506726
STEAP4	-0.275014481	0.073254159	-2.121361496
SPANXN3	0.275001124	0.07326577	2.121250037
LOC100129566	0.274989705	0.073274672	2.121154753
SNORD116-12	0.274979553	0.073274748	2.121070035
LUZP2	0.274979956	0.073274748	2.121073404
PRPF38B	-0.274945146	0.073315794	-2.120782934
SDC2	0.274892278	0.073382692	2.120341795
ADNP2	-0.274859314	0.073421766	-2.120066755
C6orf145	-0.274836778	0.073435279	-2.119878723
C8orf46	0.274840541	0.073435279	2.119910118
TAF7L	0.274834517	0.073435279	2.119859861
LOC100128496	0.274815549	0.073447702	2.119701606
RPS7	0.274818088	0.073447702	2.119722789
SNORD115-35	0.274744948	0.073525397	2.119112577
MUTYH	0.274747039	0.073525397	2.119130025
C1orf159	0.274751969	0.073525397	2.119171115

ZBED4	-0.274719886	0.073553453	-2.118903492
LOC284009	0.274685989	0.073593908	2.118620705
GPR128	0.27465559	0.073629471	2.118367115
RPS27P13	0.274590604	0.073713609	2.117825011
ELK3	-0.27454318	0.073773141	-2.117429421
CCND3	0.274500126	0.073826566	2.117070302
CDK2AP2	0.274493309	0.073829053	2.117013446
NEK5	-0.274481946	0.073837933	-2.11691867
IGSF6	0.274462945	0.073857556	2.116760187
C1orf55	-0.274443024	0.073878479	-2.116594036
APP	-0.274422469	0.073900299	-2.116422593
EIF2B3	-0.274375013	0.073959993	-2.116026806
WDR24	0.274321087	0.074028843	2.115577074
MSTN	0.27429336	0.074056172	2.11534584
KIAA1704	-0.2742916	0.074056172	-2.115331164
CYP27B1	0.274247118	0.074110873	2.11496022
C21orf2	0.274242708	0.074110873	2.114923443
ZCCHC11	-0.274201386	0.074162046	-2.114578866
LOC392285	0.274159976	0.074213372	2.114233562
TMEM126A	-0.274125736	0.074254597	-2.113948061
SOBP	0.274111588	0.074267452	2.11383009
PNPLA7	0.274085743	0.074296837	2.113614598
DDX43	0.274048811	0.074341804	2.113306665
C2orf3	-0.274043835	0.074341804	-2.113265177
MAGED2	-0.27402435	0.074362218	-2.113102719
RPS16	-0.2740187	0.07436307	-2.113055617
LOC388387	0.274012148	0.074365199	2.113000991
RHOBTB2	0.273953537	0.074440975	2.112512343
RAB3IP	-0.273938686	0.07444771	-2.11238853
GLUD1	-0.273941281	0.07444771	-2.112410165
SEC31A	-0.273922546	0.074463412	-2.112253978
CCDC123	-0.273917271	0.074463736	-2.112210001
LOC541472	0.273901197	0.074479348	2.112076002

TMEM41A	-0.27387972	0.074502615	-2.111896955
FOXE1	0.273865505	0.074508457	2.111778455
C8orf58	0.273870525	0.074508457	2.111820305
PCDHGA10	-0.273818691	0.074567626	-2.111388211
CDC42EP1	0.273769972	0.074626328	2.110982109
TFF1	0.273767188	0.074626328	2.110958896
IQCG	-0.273711322	0.074698415	-2.110493241
LOC100132686	-0.273663311	0.074759404	-2.110093073
LOC128322	0.273655754	0.074761722	2.110030087
NRF1	-0.273651588	0.074761722	-2.109995366
METTL9	-0.273642767	0.074767085	-2.109921845
DDX50	-0.273569351	0.074864223	-2.109309969
SLC6A6	-0.273544707	0.074892087	-2.109104588
FAM183B	0.273537429	0.074895262	2.109043936
RAG2	0.273532041	0.074895751	2.108999033
ATP5C1	-0.273521681	0.07490331	-2.108912694
LOC100133390	0.273504139	0.074921084	2.108766503
CDC25B	0.273496773	0.074924387	2.108705122
PDCL3	-0.273489926	0.074926952	-2.108648061
LOC645978	0.27341716	0.075023324	2.108041693
SRGAP1	-0.273384153	0.075063147	-2.107766649
C12orf41	-0.273345618	0.075100328	-2.107445555
MAP1LC3A	0.273342924	0.075100328	2.107423108
ATP5J2	-0.273344118	0.075100328	-2.107433058
NDUFB7	0.273335625	0.075103544	2.107362285
PCMTD2	-0.273247105	0.0752195	-2.106624743
ZNF768	0.273244212	0.0752195	2.106600637
TM2D3	-0.273198578	0.075273935	-2.106220438
DHX57	-0.273195982	0.075273935	-2.106198808
PLOD1	0.273184996	0.075280304	2.106107279
GRAMD1C	-0.273181434	0.075280304	-2.106077609
KCNN3	0.273167117	0.075293546	2.10595833
TPST2	0.273139256	0.075326131	2.10572622

TMEM132A	0.273125918	0.075330779	2.105615101
IMMP2L	-0.273127915	0.075330779	-2.10563174
FREM2	-0.273106601	0.07535117	-2.105454182
BCAS4	0.273097483	0.075356994	2.105378225
DNAJB5	0.27304927	0.075418691	2.104976584
STYK1	-0.272929589	0.075575497	-2.103979672
GNA14	-0.272933346	0.075575497	-2.104010964
CMPK2	0.272918816	0.075583704	2.103889938
CNP	0.272897605	0.075606862	2.103713269
MXD4	0.272869382	0.075640072	2.103478204
HMGA2	0.27286258	0.075642594	2.103421549
C2orf46	0.272844423	0.075661389	2.103270324
AK7	-0.272822396	0.075683674	-2.103086865
OR5T2	0.272818794	0.075683674	2.103056867
TRAV8-3	0.27281292	0.075684868	2.103007946
COMMD7	-0.272796703	0.07570089	-2.102872888
OR8H3	0.272777623	0.075721021	2.102713987
NTAN1	0.272717411	0.075792937	2.102212538
PHOSPHO2	-0.272721107	0.075792937	-2.102243319
CASQ1	0.272700861	0.075809456	2.102074715
PIAS3	-0.272615974	0.07592271	-2.101367833
C7orf66	0.272601842	0.07592271	2.101250153
NUDCD3	-0.272604583	0.07592271	-2.101272982
NR1D2	-0.272605219	0.07592271	-2.101278275
RND2	0.272589435	0.075933297	2.101146845
PHLPP	-0.272575666	0.075945844	-2.101032189
BSPH1	0.272559084	0.075962435	2.100894123
ZMYND19	0.272536229	0.075980805	2.100703817
VPS11	-0.27253767	0.075980805	-2.100715816
FLJ39639	0.272531086	0.075980956	2.100660995
CCL27	0.272489152	0.076019525	2.100311842
C2orf65	0.272493247	0.076019525	2.10034594
BMPR1B	-0.272491974	0.076019525	-2.10033534

TCF4	-0.272450423	0.076062753	-2.099989386
CARS2	-0.272449029	0.076062753	-2.099977781
C6orf155	0.272419452	0.07609807	2.099731533
DDX20	-0.272411894	0.076100661	-2.099668611
SNORD45C	-0.272407579	0.076100661	-2.099632682
BAZ2B	-0.272361331	0.07616	-2.099247651
CST6	0.272353709	0.076163724	2.0991842
CC2D1A	0.272280947	0.076261323	2.098578467
MC1R	0.27221165	0.076354022	2.098001617
MMS19	-0.272184032	0.076386616	-2.097771731
SDCCAG10	-0.272122563	0.076468124	-2.097260083
SCML2	0.272107292	0.076482912	2.097132978
RSPH3	-0.272098929	0.076487717	-2.097063374
ROPN1L	-0.272048911	0.076552747	-2.096647071
OR5K4	0.272024277	0.07657487	2.096442049
DHX16	-0.272023541	0.07657487	-2.09643592
S100A16	-0.271999388	0.076602525	-2.096234907
RHOBTB1	-0.27198532	0.076615593	-2.096117828
PADI3	0.271960747	0.076636579	2.09591332
SERPINA1	0.27196103	0.076636579	2.095915675
C10orf63	-0.271944153	0.076653309	-2.095775221
SDK1	-0.271852566	0.076778685	-2.095013056
PANX1	-0.271840984	0.076780872	-2.094916677
C15orf53	0.271845544	0.076780872	2.094954623
TRUB2	-0.271830482	0.076781495	-2.094829287
C17orf70	0.271835055	0.076781495	2.094867342
DARS2	-0.271820519	0.076788636	-2.094746389
VPS37A	-0.271791012	0.076824118	-2.094500852
CRKL	-0.271780311	0.076832332	-2.094411818
ZNF2	0.271774865	0.076832929	2.094366499
GNL3L	-0.271761615	0.076844844	-2.094256246
PGBD2	-0.27171933	0.076898886	-2.093904411
KIAA1984	0.271687945	0.076937132	2.093643283

C6orf103	-0.271672418	0.076945056	-2.093514095
REG4	0.27167261	0.076945056	2.093515689
RAD21	-0.271597791	0.077046147	-2.092893208
NMUR1	0.271577094	0.077068912	2.092721024
SRRM1	0.271517473	0.077133606	2.092225024
MYO1F	0.271521485	0.077133606	2.092258396
CCL24	0.271512468	0.077133606	2.09218339
PBX4	0.271512489	0.077133606	2.092183562
PKD2L2	0.271494123	0.077152972	2.092030775
VEPH1	0.271453838	0.077204272	2.091695658
DISP1	-0.271418568	0.077248295	-2.091402275
ECT2	-0.271380493	0.077296426	-2.091085559
C7orf23	-0.271373902	0.077298695	-2.091030733
HNRNPR	-0.271292438	0.077410123	-2.090353146
SMARCE1	-0.271264603	0.077443388	-2.090121643
KIAA0895	-0.271257835	0.077445918	-2.09006535
SIAH3	0.271252265	0.077446701	2.09001902
OR5D13	0.271238186	0.077453141	2.089901926
CLIC3	0.271237784	0.077453141	2.089898587
DHCR24	-0.271193892	0.077509864	-2.089533551
TUBA3E	0.271175739	0.077529023	2.089382578
THAP6	-0.271169346	0.07753101	-2.089329408
FAM122B	-0.271163424	0.077532308	-2.089280157
IAPP	0.271128008	0.077576691	2.088985634
FBXL11	-0.27110333	0.0776054	-2.088780405
ZBTB25	-0.271090551	0.077616721	-2.088674144
SNAP25	0.271065656	0.077645758	2.088467123
ANKRD46	-0.270856107	0.077945252	-2.086724743
RPS19	0.270831798	0.077973526	2.086522632
RIMKLB	-0.270792464	0.078012233	-2.086195624
SLC2A11	0.270790315	0.078012233	2.086177757
TRGV5	0.270796655	0.078012233	2.08623046
OR5B2	0.270758646	0.078051331	2.085914473

TADA1L	-0.270739283	0.078070248	-2.085753498
SMOX	0.270726772	0.078070248	2.085649496
ELA2A	0.270727934	0.078070248	2.085659152
SCARNA23	0.270720594	0.078070248	2.085598138
FAM58A	0.270722101	0.078070248	2.085610664
LOC643287	-0.270702504	0.078089424	-2.085447753
TMUB1	0.270665525	0.078136354	2.085140351
ELF3	-0.270651062	0.078150211	-2.085020127
ALS2CR8	-0.270600499	0.078217146	-2.084599817
MAK	-0.270507471	0.078346635	-2.083826579
FAM9B	0.270459315	0.078406107	2.083426335
TMEM39B	0.270454604	0.078406107	2.083387183
PARL	-0.270451995	0.078406107	-2.083365498
RFPL1	0.270431516	0.078428867	2.083195291
MRPS25	-0.270409949	0.078453237	-2.083016048
TGS1	-0.270402854	0.078456275	-2.082957088
CEBPZ	-0.270381287	0.078480652	-2.082777848
KIAA0040	-0.270335517	0.078540736	-2.082397474
C13orf30	-0.270318532	0.078550944	-2.082256328
LYNX1	0.270319429	0.078550944	2.082263778
GPM6B	-0.270312533	0.078552371	-2.082206472
ACAN	0.270306722	0.078553521	2.082158183
P2RX7	0.270274475	0.078593684	2.081890208
STX8	-0.270253981	0.078616511	-2.081719905
GRIK3	0.270248845	0.078616665	2.081677228
C6orf118	-0.27021748	0.078655551	-2.081416597
REG1P	0.270180295	0.078703051	2.081107616
GDPD1	-0.270169098	0.078712163	-2.081014576
ENPP5	-0.270091249	0.078819829	-2.080367745
CREB3L2	0.270078391	0.078831409	2.080260908
AFAP1L2	0.270022383	0.07890686	2.079795581
AGPAT3	-0.270003497	0.078927376	-2.079638674
HDDC3	0.269962665	0.078980409	2.07929945

SNX9	-0.269944766	0.078999477	-2.079150753
CDH5	0.269897942	0.079060302	2.078761776
HSPB1	-0.269892427	0.079060302	-2.078715958
C9orf153	0.269884786	0.079060302	2.078652482
SPEF2	-0.26988361	0.079060302	-2.078642715
ZNF513	0.269834474	0.079125727	2.078234546
SNORA21	0.269816266	0.079145281	2.078083302
SPAG9	-0.269808072	0.079149975	-2.078015239
CHMP4C	-0.269797432	0.0791583	-2.07792686
WDR37	-0.269787597	0.079165432	-2.077845165
XRCC3	0.269769648	0.07918461	2.077696077
C7orf38	-0.269735105	0.079228436	-2.077409158
LMAN2	-0.269702947	0.079268737	-2.077142058
SRGAP2P2	-0.269674545	0.079303473	-2.076906154
STARD3NL	-0.269662809	0.079313441	-2.076808682
SMNDC1	-0.269599365	0.079400314	-2.076281766
PAOX	0.269576012	0.079427578	2.076087827
CSTF2	-0.26952878	0.079490405	-2.075695575
FLJ20184	-0.269510886	0.079498515	-2.075546977
TMEM183B	0.26951287	0.079498515	2.075563452
NAT15	0.269508243	0.079498515	2.075525026
LOC150197	0.269490607	0.07951729	2.075378579
C7orf43	0.269463862	0.079549641	2.075156478
KBTBD7	-0.269449112	0.079564125	-2.075033999
ARFGAP3	-0.269409807	0.079615216	-2.074707616
HORMAD1	-0.269346872	0.079701587	-2.074185042
SH2D4A	-0.269313089	0.079744503	-2.073904539
MC4R	0.26925954	0.079816961	2.073459941
COX7C	-0.269236401	0.079844018	-2.073267833
PCDH20	-0.269192486	0.079902143	-2.072903236
LOC642864	0.269096077	0.080031336	2.072102875
EBF2	0.269099024	0.080031336	2.072127339
CENPH	0.269057323	0.080081837	2.071781173

PDE4DIP	0.268995023	0.080167658	2.071264027
AK5	0.268970821	0.080196401	2.071063138
NOSTRIN	0.268965503	0.080196829	2.071019002
FXYD5	0.268879508	0.080318317	2.070305234
PPP4R2	-0.268848712	0.080357007	-2.070049633
FLJ34651	0.268841245	0.080360664	2.06998766
TLR5	-0.268774858	0.080452864	-2.069436696
MKL1	0.268726031	0.080518727	2.069031491
S100A1L	-0.268713222	0.080530426	-2.06892519
PGPEP1	0.268679317	0.080558726	2.068643832
NOD2	0.268687635	0.080558726	2.068712858
MTERF	-0.268682732	0.080558726	-2.068672169
POLR3B	-0.268663647	0.080574736	-2.0685138
CLIC1	-0.268658421	0.080575028	-2.068470433
TSPAN12	-0.268650066	0.080580032	-2.068401095
MCM10	0.268605417	0.080639681	2.0680306
ZNF492	0.268599594	0.080640873	2.067982284
PDE6B	0.268571471	0.080675656	2.067748931
YTHDC1	-0.268546732	0.080705352	-2.067543659
RP11-631M21.2	0.268537478	0.080711716	2.067466876
PRSS12	-0.268516429	0.080735861	-2.067292221
ITIH4	0.268444652	0.080836526	2.066696699
IFIT1L	0.268402218	0.080892981	2.066344642
HMGXB3	-0.26837794	0.080922042	-2.066143229
CDCA5	0.268352179	0.080953353	2.065929509
RSPH4A	-0.268280541	0.081054024	-2.06533522
LOC221442	-0.268151511	0.081238214	-2.064264912
FBXL21	0.268148783	0.081238214	2.064242287
ZNF622	-0.268129495	0.081259811	-2.064082304
OR10A5	0.268120893	0.081265218	2.064010959
PARP11	-0.268087294	0.081308513	-2.063732282
CYBASC3	-0.268016585	0.081408125	-2.063145826
TPM3	-0.267991222	0.081438978	-2.06293548

OR7D2	0.267982456	0.081444642	2.062862784
CCDC53	-0.267974713	0.081448755	-2.06279857
LOC100133354	-0.267938886	0.08149551	-2.062501451
NARFL	0.267868093	0.081592872	2.061914375
ZNF23	-0.267864741	0.081592872	-2.06188658
XIAP	-0.267843125	0.081618081	-2.061707338
KIAA0895L	0.267827949	0.081633505	2.061581491
FAM178A	-0.267798479	0.081670673	-2.061337119
LOC440311	0.267745633	0.081735771	2.060898929
NACAP1	0.267747195	0.081735771	2.060911882
TBX19	0.267737418	0.081740613	2.060830818
TNFRSF21	-0.267592588	0.081953643	-2.05963002
PIM3	0.267553855	0.08200506	2.05930891
TTC12	-0.267547898	0.082006467	-2.059259528
MDH1B	-0.267540197	0.082010537	-2.059195682
MAGEH1	0.267511569	0.082046553	2.058958354
CCNG2	-0.26748712	0.082076199	-2.058755675
POLR2D	-0.267480277	0.082078962	-2.058698945
MCRS1	-0.267460304	0.082094091	-2.058533376
TXNL1	-0.267464459	0.082094091	-2.058567826
ERC1	-0.267422364	0.08214252	-2.058218878
ASAH2	0.267413504	0.08214252	2.058145436
EFHC2	-0.267413778	0.08214252	-2.058147709
OR2B6	0.267402454	0.082151716	2.05805384
ZFAND6	-0.26737066	0.082192621	-2.057790295
TECPR2	-0.267359818	0.082201503	-2.057700425
UBQLNL	0.26733176	0.082236712	2.057467864
ATP10B	-0.267315369	0.082246388	-2.057332006
RASL11A	0.267315876	0.082246388	2.057336202
EIF2C2	-0.267307219	0.082251158	-2.057264455
DNAH7	-0.267285499	0.082276689	-2.057084423
GCN1L1	-0.267279298	0.082278479	-2.057033028
MAGEA3	-0.267226525	0.082351545	-2.056595642

ZNF674	-0.267220359	0.082353283	-2.05654454
RPS24	-0.267178515	0.082409659	-2.056197751
MT1IP	0.26712631	0.082481946	2.055765108
PPFIA1	-0.267112216	0.08249584	-2.055648308
MRPL20	-0.267094724	0.082514945	-2.05550335
MGC21881	0.267071177	0.082536413	2.055308215
WDR20	-0.267070663	0.082536413	-2.055303959
EIF2C1	-0.267049986	0.082560412	-2.055132614
FTSJD2	-0.267024194	0.082592264	-2.054918889
SNORD116-1	0.267015507	0.082596748	2.054846899
C20orf72	-0.267011212	0.082596748	-2.054811312
IKBKG	0.266985217	0.082628924	2.054595907
LOC729898	0.266976969	0.082633864	2.054527563
PGC	0.266968915	0.082638508	2.054460826
MGC39372	0.266955736	0.082651018	2.054351629
CCDC113	-0.266928258	0.082681524	-2.054123946
RNF130	-0.26692581	0.082681524	-2.054103668
SDAD1	-0.266903173	0.082708568	-2.053916103
SNORD54	-0.266880143	0.082736222	-2.053725288
MCM3APAS	0.266868539	0.082746326	2.053629139
MREG	-0.266838311	0.082785053	-2.053378698
ALKBH1	-0.266777519	0.082870802	-2.052875035
HAPLN1	0.26674153	0.08291844	2.052576886
HIST1H2BL	0.266709523	0.082952228	2.052311726
RNF10	-0.266713476	0.082952228	-2.052344473
SARM1	0.26667456	0.082998323	2.052022091
C10orf79	-0.266669187	0.082998855	-2.051977579
ZNF618	0.266627615	0.083047405	2.05163321
SLC16A6	-0.266632003	0.083047405	-2.051669557
FGD3	0.266608292	0.083069435	2.051473142
ORMDL3	0.266571246	0.083118792	2.051166281
SEC14L1	-0.266560239	0.083128012	-2.051075108
MRPL36	0.266541156	0.083149688	2.050917042

FAM78A	0.26652771	0.083154919	2.050805669
TBC1D10C	0.266530468	0.083154919	2.050828514
ARMC4	-0.266503699	0.083184205	-2.050606784
ZNF200	0.266468931	0.083230098	2.050318819
C16orf85	0.266403761	0.083322966	2.049779062
E2F2	0.266366357	0.083370583	2.049469289
NFATC2	0.26636289	0.083370583	2.049440572
ARMCX2	0.266301609	0.083457558	2.048933075
LOC389791	0.266294522	0.083460744	2.048874384
IFNK	0.266279179	0.083476701	2.048747327
PUS10	-0.266252101	0.083508414	-2.048523087
KIAA0319L	-0.266248629	0.083508414	-2.048494342
DPP6	0.266229923	0.083529585	2.048339435
FAM5B	0.266211363	0.083550534	2.048185742
COX11	-0.266201183	0.083558512	-2.048101451
PTPN12	-0.266176813	0.083588463	-2.047899653
PTPN1	-0.266168138	0.083594115	-2.04782782
OR10S1	0.266159114	0.083600307	2.0477531
GADD45A	-0.266118468	0.083655487	-2.04741654
MAD2L1	0.266106326	0.083666515	2.047316005
GIGYF2	-0.26610052	0.083667725	-2.047267932
ATHL1	0.266036089	0.083759824	2.046734465
ATP6V0B	-0.265978469	0.08384143	-2.046257416
CST9	0.26595908	0.083846763	2.046096896
RPL3	-0.265949907	0.083846763	-2.04602096
CDADC1	-0.26596315	0.083846763	-2.046130595
OR5V1	0.265963461	0.083846763	2.046133167
DKFZp761E198	0.265950276	0.083846763	2.046024014
MNS1	-0.265920838	0.083884092	-2.0457803
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CCHCR1	0.265877277	0.083936139	2.045419689
SHC4	0.265829183	0.084003067	2.045021562
FAM118B	-0.265814452	0.084018158	-2.044899614

FAM13A	-0.265744098	0.08411977	-2.044317258	
SNORD36B	-0.265720305	0.084148981	-2.044120314	
C6orf218	0.265711478	0.0841549	2.044047251	
AQP9	0.265693921	0.08417441	2.04390193	
hCG_17324	-0.265686374	0.084178338	-2.043839467	
TRAF3IP1	-0.265677177	0.084184836	-2.043763344	
tcag7.1015	0.26565651	0.084209196	2.043592281	
SECISBP2L	-0.265605627	0.084280639	-2.043171149	
DTNBP1	-0.265542164	0.08437175	-2.042645921	
BEND5	-0.26553475	0.084375478	-2.04258456	
SEC31B	0.265523444	0.084385276	2.042490997	
MKNK1	-0.265515041	0.084390548	-2.042421456	
ELL3	-0.265492945	0.084417184	-2.042238594	
GLYCTK	0.265446574	0.084481719	2.04185486	
SEPP1	-0.265415277	0.084522747	-2.041595874	
SIX1	-0.265398419	0.084541233	-2.041456374	
PCBP4	0.265377003	0.084566843	2.041279162	yes
LRRC32	0.26533431	0.084625718	2.040925891	
FIGN	0.265321349	0.084638127	2.040818651	
TAS2R43	-0.265290645	0.084666033	-2.040564595	
NAT5	-0.265288434	0.084666033	-2.040546301	
CHD6	-0.265297894	0.084666033	-2.040624575	
TCTA	-0.265249436	0.08471918	-2.040223629	
SLTM	-0.265234259	0.084735068	-2.040098064	
ARNTL	-0.265202919	0.08477626	-2.039838763	
PAQR7	-0.265186447	0.084794184	-2.039702487	
TMEM182	-0.265178448	0.084798845	-2.039636309	
PDCD1LG2	0.26510124	0.08491193	2.038997561	
SERPINA7	0.265062498	0.084964795	2.038677063	
PDCD4	-0.265048661	0.084978618	-2.038562594	
LOC729566	0.265028673	0.085002091	2.038397248	
EFHB	-0.264998681	0.085041268	-2.038149147	
STAG3L4	-0.264984104	0.085056262	-2.038028566	

CCDC39	-0.264973784	0.085064577	-2.037943198
FAM83B	-0.264944227	0.085103093	-2.037698711
TAS2R13	-0.264926694	0.085122738	-2.037553685
TMEM64	-0.264909941	0.085141161	-2.037415114
ALAS1	-0.264878034	0.085182641	-2.037151201
OTUD5	0.264873493	0.085182641	2.03711364
RAB42	0.264829174	0.085244405	2.036747073
GPR18	0.264814499	0.085259582	2.036625698
IL17B	0.264806853	0.085263708	2.036562459
MAX	-0.264786225	0.08528825	-2.036391853
FRMD4A	0.264767296	0.085310126	2.0362353
OR10J5	0.264754662	0.085322101	2.036130818
NRXN3	-0.26473709	0.085341848	-2.035985489
TBC1D22B	-0.264632747	0.085495784	-2.035122586
APBA3	0.264629284	0.085495784	2.035093955
N4BP2L1	-0.264605608	0.085525183	-2.034898164
HACE1	-0.2645959	0.08553257	-2.034817885
LOC339524	0.264551773	0.085586308	2.034452999
RBM25	-0.264553134	0.085586308	-2.034464256
ZNF100	-0.264542595	0.085592864	-2.034377105
GDAP1	-0.2645178	0.085624052	-2.034172085
TMPRSS4	-0.264503689	0.085638394	-2.034055404
STK11	0.264496127	0.085642404	2.033992877
PAQR8	-0.264475156	0.085667573	-2.03381948
ASAM	0.264450413	0.085698701	2.033614901
MTP18	0.264435505	0.085711833	2.033491638
PRPS2	-0.264432055	0.085711833	-2.033463112
TTC5	-0.264416176	0.085728978	-2.033331826
CCDC43	-0.264410391	0.085730187	-2.033283997
NLRC4	0.264378522	0.085772588	2.033020511
IGKV1D-8	0.264342258	0.085821952	2.03272069
VSTM2A	0.264301596	0.085878289	2.032384527
MARCO	0.264287235	0.085893059	2.032265808

LOC100132354	0.264243298	0.085940923	2.031902582
PARK7	-0.264242961	0.085940923	-2.031899796
LOC338797	0.264241915	0.085940923	2.031891152
DEFA6	0.264233841	0.085945758	2.031824402
PTBP1	-0.264210458	0.085971091	-2.031631105
RPL23AP53	-0.264207792	0.085971091	-2.031609072
IFT122	-0.264161885	0.086035807	-2.03122959
CACNA1E	0.264117758	0.086097742	2.030864837
HP1BP3	-0.264054358	0.086187274	-2.030340794
RAD52	-0.264051225	0.086187274	-2.030314897
DDAH2	0.264004087	0.086231159	2.029925293
SPAM1	0.264004498	0.086231159	2.029928684
C16orf52	-0.264003478	0.086231159	-2.029920256
EIF2B5	-0.264016744	0.086231159	-2.030029904
GARNL3	0.263924012	0.086349295	2.029263486
AKR1C3	-0.263912033	0.086360348	-2.029164487
LDB2	0.263865704	0.086425962	2.028781613
SLC16A13	-0.263825578	0.086470966	-2.028450018
LOC100133425	-0.263831278	0.086470966	-2.02849712
C20orf3	-0.263821277	0.086470966	-2.028414471
PHYHIP	0.263817312	0.086470966	2.028381708
GBGT1	0.263786291	0.086512303	2.028125365
TUBD1	-0.263757387	0.086550288	-2.027886519
MRPL4	0.263736741	0.08657515	2.027715911
LOC440337	0.263714234	0.086602976	2.027529935
CCDC25	-0.263702972	0.086612914	-2.027436879
SNORD83A	0.263696508	0.086615217	2.027383469
C1orf104	0.263683997	0.086627144	2.027280092
TMEM9	-0.263672629	0.086637254	-2.027186163
C1orf88	-0.263662652	0.086645151	-2.027103725
AMBP	0.263636112	0.086679417	2.026884434
OAF	0.263608225	0.08671584	2.026654023
KIAA0922	-0.263601294	0.086718891	-2.026596754

RUFY4	0.263588949	0.086730566	2.026494762
PRRC1	-0.26354513	0.086792395	-2.026132727
CD79B	0.263538547	0.086794893	2.026078345
LOC100129737	0.263528528	0.08680287	2.025995563
C2orf69	-0.263458627	0.086898341	-2.025418083
MIRHG1	-0.263462889	0.086898341	-2.025453291
LRGUK	-0.263442266	0.086916443	-2.025282918
EPB41L4B	-0.263355808	0.087046467	-2.024568706
CD83	0.26334627	0.087053691	2.02448992
SRR	-0.263311283	0.087101582	-2.024200919
OLAH	0.263295645	0.08711856	2.024071747
C6orf141	0.263284514	0.087128336	2.023979806
AATF	-0.26324981	0.087175808	-2.023693152
NSUN7	-0.263239564	0.087184174	-2.023608522
C6orf165	-0.263228299	0.08719417	-2.023515479
PCTK3	0.263187712	0.087251083	2.02318025
OR14A16	0.263175933	0.087261908	2.023082966
ZNF44	-0.263154862	0.087287608	-2.022908938
PRKCDBP	0.263092645	0.087364051	2.022395098
SEP1	0.263092083	0.087364051	2.022390452
RABEP1	-0.263093883	0.087364051	-2.022405323
DHX40	-0.263085389	0.087366742	-2.022335166
TMPRSS12	0.263045265	0.087422998	2.02200381
AKAP6	-0.26303604	0.087429748	-2.021927624
FEZ2	-0.26301776	0.087451012	-2.021776668
PHF1	0.262999894	0.087468359	2.021629127
RNF25	-0.262996914	0.087468359	-2.021604514
TTC3	-0.262983847	0.087481272	-2.021496609
TTC24	0.262938904	0.087537274	2.021125484
NSF	-0.262940845	0.087537274	-2.021141514
ZBTB7A	0.262925509	0.087550722	2.021014878
SAP30L	-0.262915451	0.087558818	-2.020931821
CLCA3P	0.262865327	0.087631223	2.020517938

BVES	0.262777277	0.087748983	2.019790926	
RTF1	-0.262776983	0.087748983	-2.0197885	
BRD7	-0.262780573	0.087748983	-2.019818138	
PSMB8	-0.26275132	0.087782177	-2.019576619	
UGT2B4	0.2626985	0.087859064	2.019140529	
DBR1	-0.262665965	0.087903351	-2.01887193	
OTUD1	-0.262657588	0.087903901	-2.018802775	
ZNF181	-0.262655598	0.087903901	-2.018786345	
POLR1D	-0.262645817	0.087911576	-2.018705597	
FLJ10404	0.262616356	0.087950934	2.01846238	yes
DNAH5	-0.26248957	0.088147173	-2.017415782	
KIAA0090	-0.262458648	0.08818088	-2.017160543	
ZNF793	-0.262462249	0.08818088	-2.01719026	
TREM1	0.262434819	0.088211243	2.016963849	
RPS26P39	0.26239377	0.088269413	2.016625037	
COPG	-0.262328025	0.088367519	-2.016082409	
RANBP6	-0.262263289	0.088464079	-2.015548136	
RNF19A	-0.262216568	0.08853156	-2.015162561	
DAXX	0.262202057	0.088538814	2.015042808	
FBLIM1	0.262203816	0.088538814	2.015057326	
TMEM102	0.262175531	0.088573637	2.014823911	
GLG1	-0.262140803	0.088613635	-2.014537325	
LOC728545	0.262144398	0.088613635	2.014566998	
NAT2	0.262118786	0.088641176	2.014355646	
PADI6	0.262108855	0.088649141	2.014273702	
LOC100130494	0.262083438	0.088674078	2.01406396	
LEAP2	0.262086899	0.088674078	2.014092526	
FLJ44124	-0.262037085	0.088741084	-2.013681489	
KLK9	0.262028068	0.088747576	2.013607082	
CCT8L2	0.262008485	0.088765661	2.013445498	
C6orf115	-0.262006889	0.088765661	-2.013432333	
TMEM219	0.261999222	0.088769965	2.013369076	
NAT11	-0.26199021	0.088776452	-2.013294718	

NUB1	-0.261933502	0.088860323	-2.012826828	
NCKIPSD	0.261922528	0.088869999	2.012736289	
C12orf75	-0.261905209	0.088889975	-2.012593402	
MAT2A	-0.261858289	0.088958029	-2.012206298	
C15orf24	-0.261830464	0.08899509	-2.011976747	
KRTAP19-7	0.261804763	0.089017897	2.011764715	
MRPS21	-0.261811178	0.089017897	-2.011817638	yes
TTF2	-0.261801393	0.089017897	-2.011736918	
LOC728196	-0.261772903	0.089056059	-2.011501891	
MBD3	0.261723316	0.089128549	2.011092829	
EFCAB4A	0.261716581	0.089131351	2.011037276	
DNAH3	-0.26168454	0.08917533	-2.01077297	
SLC25A43	0.26160994	0.089288633	2.010157631	
THAP11	0.261602918	0.089291371	2.010099711	
KLHL6	-0.261598235	0.089291371	-2.010061084	
EP400NL	0.261581253	0.089310874	2.00992101	
ORMDL2	-0.261571232	0.089319035	-2.00983836	
GMPS	-0.261554583	0.089338	-2.009701034	
GNPDA1	-0.261531684	0.089358987	-2.009512167	
MFGE8	0.261532676	0.089358987	2.009520351	
LOC390940	-0.261513184	0.089380975	-2.009359588	
ZNF841	-0.261506048	0.089384442	-2.009300727	
CDH1	-0.261463403	0.08944581	-2.008949019	
SLITRK6	-0.261458187	0.089446146	-2.008906001	
GNGT2	0.261407587	0.089520531	2.008488701	
TSEN34	0.261397163	0.089529367	2.008402737	
R3HCC1	0.261368336	0.089554088	2.008165005	
PRMT6	-0.261370929	0.089554088	-2.008186385	
RBM15	-0.261366991	0.089554088	-2.008153911	
PARP9	-0.261319736	0.089623077	-2.007764224	
LOC646993	0.261301169	0.089645226	2.007611116	
CST2	0.261283345	0.089666165	2.00746414	
EMR2	0.261266	0.089686324	2.007321114	

ZNF204	-0.261169565	0.08983585	-2.006525954
APC	-0.261151994	0.089856408	-2.006381079
LOC400891	-0.261095629	0.089940501	-2.005916353
SETD3	-0.261078129	0.089960962	-2.005772066
TNFSF15	0.261070056	0.08996598	2.005705511
CDC73	-0.261060313	0.089973735	-2.005625185
ATRX	-0.261041039	0.089997109	-2.005466281
C2orf44	-0.261018659	0.09002558	-2.00528177
ABCB4	0.260977909	0.090084181	2.004945828
PAK3	0.2609466	0.090119103	2.004687719
ZNF767	-0.260947187	0.090119103	-2.004692561
SNORD45B	-0.260931564	0.090135552	-2.004563772
KCNJ16	-0.260906314	0.090168768	-2.004355617
VSIG1	0.260898937	0.090172653	2.004294812
PROKR2	0.260872279	0.09020819	2.00407506
SNORA31	0.260812894	0.090297496	2.003585551
CMC1	-0.260710673	0.090457332	-2.002742998
CD6	0.260685215	0.09049098	2.002533176
FAM122A	-0.260665445	0.090515274	-2.002370236
OR4K5	0.260658794	0.090517974	2.002315421
KRTCAP3	0.260633248	0.090551786	2.002104876
OVOS2	0.260573334	0.09064223	2.001611104
KIAA1143	0.260553307	0.090666979	2.001446063
SCRN2	0.260546045	0.09067069	2.00138622
LY86	0.260474902	0.090779751	2.000799951
ANKS1A	-0.260442199	0.090825449	-2.00053047
TRAPPC10	-0.260370288	0.090935927	-1.99993792
CHRNA3	0.260327998	0.090980967	1.999589468
WBP11	-0.260330581	0.090980967	-1.99961075
P4HTM	-0.260333796	0.090980967	-1.999637241
TMEM99	-0.260310374	0.091001813	-1.999444264
IL28RA	0.260284949	0.091035565	1.999234775
C13orf1	-0.260253967	0.091078516	-1.998979515

FAM47E	-0.260228037	0.091108312	-1.998765882
CCDC46	-0.260220924	0.091108312	-1.99870728
PRMT2	-0.260223123	0.091108312	-1.998725395
AMELX	0.260214358	0.091110886	1.998653186
ARHGAP6	0.260181413	0.091157113	1.998381769
IL17RD	0.260158357	0.091186986	1.998191828
RERGL	0.260141928	0.091205893	1.998056479
CLLU1	0.260064116	0.091326503	1.997415475
LOC729992	-0.260034977	0.091366505	-1.997175437
RRP15	-0.259974198	0.09145774	-1.996674793
RGL3	0.259969954	0.09145774	1.996639834
CCL22	0.25986898	0.091617096	1.995808146
tcag7.977	0.259845033	0.091648564	1.99561092
PAK4	0.259748595	0.091800633	1.994816675
YIPF1	-0.25974339	0.091800951	-1.994773816
CCR4	0.259701004	0.091863172	1.994424752
DNAJB11	-0.259685361	0.091880876	-1.994295927
PZP	-0.259672105	0.091894605	-1.994186769
MED13L	-0.259657165	0.091911142	-1.994063739
BCORL2	0.259651912	0.091911542	1.994020486
EIF2AK3	-0.259643725	0.091916832	-1.993953064
C9orf64	-0.259618211	0.091950992	-1.993742966
LOC644083	0.259605514	0.091957595	1.993638416
HDGF2	0.259604226	0.091957595	1.993627807
IFNA14	0.259560106	0.092015158	1.99326451
ZDHHC12	0.25955967	0.092015158	1.993260918
PPIG	-0.259511233	0.092087582	-1.992862091
OR10H1	0.259496921	0.092103099	1.992744252
LOC222699	0.259479222	0.092115909	1.992598523
STELLAR	0.25948049	0.092115909	1.992608962
SNORD116-6	0.259469271	0.092124154	1.992516586
INS	0.259457996	0.092126248	1.992423759
MYNN	-0.259462435	0.092126248	-1.992460308

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KCTD4	0.259425776	0.092163301	1.992158478	
SNORD113-4	0.259324664	0.092323824	1.991326038	
ZNF33B	-0.259288022	0.092376709	-1.991024383	yes
BRD2	-0.259264119	0.092408306	-1.990827611	
CXCR7	-0.259256353	0.092411161	-1.990763683	
CCDC8	0.259252392	0.092411161	1.990731076	
SYT12	0.259220025	0.092456929	1.990464633	
PANK3	-0.259210357	0.092464724	-1.99038505	
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CASP2	-0.259176982	0.092495431	-1.990110318	
C15orf33	-0.25916223	0.092496911	-1.989988884	
CBY1	-0.259161073	0.092496911	-1.989979366	
FAM110B	0.259162761	0.092496911	1.989993257	
NAPRT1	0.259045362	0.092682347	1.989026941	
LRRC41	-0.259019736	0.092716913	-1.988816031	
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ANKRD29	0.258953381	0.092811421	1.988269919	
C8orf86	0.258938087	0.092820276	1.988144048	
PPYR1	0.258939604	0.092820276	1.988156532	
FSTL4	0.258907462	0.092863276	1.98789201	
AMOTL1	0.25888093	0.092898997	1.987673666	
UBL4A	0.258876172	0.092898997	1.987634504	
C19orf28	0.258866428	0.092906949	1.987554322	
HAPLN3	0.258853191	0.09291236	1.987445386	
MORN2	-0.258857282	0.09291236	-1.987479052	
UBA2	-0.258802981	0.092988302	-1.987032203	
PLSCR2	0.258745716	0.093076157	1.986560983	
hCG_1644301	0.258735653	0.093084658	1.98647818	
WASF4	0.258697088	0.093141112	1.986160855	
ZC3HC1	0.258655385	0.093202876	1.985817718	
ZNF707	0.258643641	0.093214216	1.985721094	

IFLTD1	-0.258624411	0.093238021	-1.985562868	
YSK4	-0.258619489	0.093238021	-1.985522371	
FAM89B	0.258601196	0.093252305	1.985371864	
SLC25A16	-0.258600992	0.093252305	-1.985370187	
ADAMTSL1	0.258594623	0.0932546	1.985317784	yes
ACYP2	-0.258568689	0.09328985	-1.985104415	
ADAMTSL3	-0.258520315	0.093362933	-1.984706433	
SNORD115-23	0.258494614	0.0933725	1.984494996	
ETV6	-0.258506122	0.0933725	-1.984589667	
OR8B4	0.258499112	0.0933725	1.984531999	
C14orf2	-0.258500389	0.0933725	-1.984542504	
TMTC2	-0.258480169	0.093388413	-1.984376159	
DENND2A	0.258472998	0.093392064	1.984317168	
LOC100133360	0.258459415	0.093406529	1.984205418	
RGS17	0.258452353	0.093409997	1.984147324	
DTX3L	-0.258442462	0.093418237	-1.984065954	
FBLN2	0.258356765	0.093554387	1.983360998	
B3GALTL	-0.258327631	0.09359513	-1.983121345	
GPC6	0.258310637	0.093615377	1.982981564	
KCNK6	0.258270751	0.09367431	1.982653477	
DDA1	0.258206996	0.093773635	1.982129088	
NLE1	0.258181988	0.093799001	1.981923405	
CEP76	-0.258183445	0.093799001	-1.981935387	
SNX11	0.258174959	0.093802423	1.981865597	
ZSWIM4	0.258169271	0.093803579	1.981818816	
MCTS1	-0.258144635	0.093827222	-1.981616195	
RFC1	-0.258140283	0.093827222	-1.981580399	
USP48	-0.258147484	0.093827222	-1.981639625	
BACH2	0.258124337	0.093845737	1.981449251	
TOR1AIP1	-0.258086628	0.093901093	-1.981139127	
EXOC6B	-0.257994433	0.09404673	-1.980380941	
IL15RA	0.257990648	0.09404673	1.980349813	
EPB41L1	-0.25796397	0.094074987	-1.980130435	

PCDH12	0.257968032	0.094074987	1.980163835	
CXCL12	0.257917019	0.094146125	1.979744354	
NLGN1	0.257903377	0.094160778	1.97963218	
LOC100133368	0.257883312	0.094177842	1.97946719	
PTRF	0.257883663	0.094177842	1.979470077	yes
ICAM2	0.257833203	0.0942544	1.979055171	
OR4C16	0.257824947	0.094259923	1.978987283	
EPHX1	-0.257786	0.09430907	-1.978667054	
CRB1	0.257789987	0.09430907	1.978699841	
CLEC7A	0.257771126	0.094325837	1.978544762	
JUND	0.257762405	0.094332152	1.978473059	
RBM24	-0.257732796	0.094373962	-1.978229624	
CIRBP	-0.257710291	0.094395885	-1.978044598	
SAMD3	0.257709891	0.094395885	1.978041307	
INPP4A	-0.257656234	0.094478613	-1.977600177	
IL1F9	0.257649648	0.094481306	1.977546032	
NDUFA6	-0.257636746	0.094494742	-1.977439967	
FAM71F2	0.257605647	0.094529106	1.977184301	
POLR2F	-0.25760154	0.094529106	-1.977150546	
INTS3	-0.257602529	0.094529106	-1.977158672	
TAF4B	-0.257580763	0.094555951	-1.976979746	
SERF2	0.257563915	0.094569246	1.976841241	
FUS	-0.257562949	0.094569246	-1.976833298	
TSC1	-0.257505563	0.094658438	-1.976361574	
MAP3K14	0.257491079	0.094674591	1.976242511	
SH3BGRL2	-0.257456882	0.094724335	-1.97596142	
LOC100128751	0.257416352	0.094784897	1.975628277	
C7orf59	0.257388807	0.094823341	1.97540187	
MMP3	0.257357214	0.094863367	1.975142203	
C1orf156	-0.257355339	0.094863367	-1.975126796	
LOC100133197	0.25734226	0.094868617	1.975019297	
SOX13	0.257342882	0.094868617	1.975024406	
C19orf10	0.257337258	0.094868619	1.974978187	

CMIP	-0.257329932	0.094872586	-1.974917976
FLJ26850	0.25726433	0.094976026	1.974378813
SEC14L2	0.257255975	0.094979378	1.974310147
TEKT1	-0.257252366	0.094979378	-1.974280487
DYX1C1	-0.257221133	0.095019761	-1.974023803
UNQ1945	0.257218721	0.095019761	1.974003983
RUNDC3B	0.25717363	0.09508826	1.973633429
ATP6V1G3	0.257166999	0.095091048	1.973578936
LOC100133394	0.257144099	0.095121646	1.973390747
KIN	-0.257123962	0.095130433	-1.973225269
VILL	-0.257128141	0.095130433	-1.973259611
C6orf97	-0.257133021	0.095130433	-1.973299715
SMS	-0.257062062	0.095227748	-1.972716623
EFS	0.257042508	0.095246926	1.972555949
SRRD	-0.257040856	0.095246926	-1.97254237
ANXA3	-0.257006756	0.095288178	-1.972262174
ZCCHC10	-0.257007182	0.095288178	-1.972265679
LEO1	-0.256992405	0.095304187	-1.972144263
MARCH4	0.256985458	0.095307524	1.972087179
RAB40A	0.256955587	0.095348741	1.97184175
CYP2D6	0.25695139	0.095348741	1.971807266
NMT1	-0.256939159	0.09536113	-1.971706766
TINP1	-0.256931585	0.095365543	-1.971644538
PYROXD1	-0.256913978	0.095387142	-1.971499878
MAK16	-0.256834506	0.095514782	-1.970846955
ATP11A	-0.256825076	0.095522384	-1.97076948
TAAR8	0.256798482	0.095559425	1.970551
CGB7	0.256748434	0.095636729	1.970139852
RRP8	-0.256732847	0.095654906	-1.970011806
NFKBIZ	-0.256725941	0.095658184	-1.96995507
BMP6	0.256704415	0.095686562	1.969778242
CTAGE4	0.256692263	0.095690269	1.969678413
EFCAB6	-0.256696986	0.095690269	-1.969717215

FLJ43763	0.256632096	0.095785039	1.969184185
GPR12	0.256623023	0.095792044	1.96910966
IFNA2	0.25656844	0.095869721	1.968661316
C15orf29	-0.256567845	0.095869721	-1.968656427
PALM	0.256449496	0.096064801	1.967684392
TLR3	-0.256419296	0.096108217	-1.967436364
C4orf32	0.256411848	0.096112438	1.967375197
EIF2AK4	-0.256395465	0.096132057	-1.967240646
MGST2	-0.25638596	0.096139824	-1.967162586
DHX34	0.25632719	0.096232532	1.966679946
TBC1D8B	-0.256316282	0.096242724	-1.966590376
C11orf74	-0.256274855	0.096305574	-1.966250182
ADPRHL1	0.256190594	0.096442438	1.965558275
CCDC132	-0.256147874	0.096507625	-1.965207496
DEFB114	0.256116551	0.096553137	1.964950308
FADS2	0.25609476	0.096582177	1.964771394
SNORD115-21	0.255978141	0.096775391	1.963813936
FURIN	0.255957399	0.09679754	1.96364365
IQWD1	-0.255955356	0.09679754	-1.963626875
TUBB1	0.255900133	0.096884589	1.963173531
ACTR1A	-0.255834299	0.096981435	-1.962633097
USP45	-0.255836967	0.096981435	-1.962654999
SMCP	0.255816438	0.097003751	1.962486486
PNKD	0.255796538	0.097020932	1.962323131
LAT	0.255797803	0.097020932	1.962333519
C3orf21	0.255780381	0.097040298	1.962190505
C8orf34	-0.255768316	0.097052563	-1.962091472
R3HDM2	-0.255735476	0.097100906	-1.961821918
CLSTN1	-0.25571699	0.097106963	-1.96167018
SNORD4A	-0.255720943	0.097106963	-1.961702632
IFNA17	0.255724059	0.097106963	1.961728202
VN1R1	0.255690332	0.097144585	1.961451378
CDC14A	-0.255675271	0.097162066	-1.961327762

KLHDC6	0.255652241	0.097193401	1.961138739
MFSD3	0.25563481	0.097206321	1.960995672
GEN1	-0.255639211	0.097206321	-1.961031792
PCDHA7	0.255595991	0.097265118	1.960677075
ZNF562	-0.255552066	0.097332828	-1.960316577
RCAN3	-0.255513397	0.097391422	-1.959999237
CTLA4	0.255478671	0.097434475	1.959714254
C21orf59	-0.255478926	0.097434475	-1.959716351
PIGB	-0.255451135	0.097473724	-1.959488287
UBLCP1	-0.25539835	0.097556986	-1.95905513
OR6Y1	0.255344871	0.097641514	1.958616303
MLL3	-0.255338669	0.097643611	-1.958565412
CENPK	-0.255308789	0.097687014	-1.958320239
PRKX	-0.255278827	0.09771498	-1.958074392
RDH5	0.255272768	0.09771498	1.958024675
BNIP2	-0.255274929	0.09771498	-1.958042407
ACVR1B	-0.255275357	0.09771498	-1.958045923
C1orf9	-0.255235593	0.097766175	-1.95771966
SNRPB2	-0.25523344	0.097766175	-1.957701994
C14orf145	-0.255199102	0.097817406	-1.957420266
TTC1	-0.25515369	0.097888006	-1.957047691
NCK1	-0.255136062	0.097910077	-1.956903071
P2RY5	-0.255096644	0.097970249	-1.956579684
TTC23L	-0.25508616	0.097979841	-1.956493677
C2orf47	-0.255079097	0.097983451	-1.956435739
C16orf74	0.255041956	0.098039674	1.956131043
TMCC2	0.255031378	0.098049435	1.956044271
RNF150	0.254930016	0.09821815	1.955212792
LRRC40	-0.254923586	0.098220658	-1.955160049
OR14K1	0.254899575	0.098253971	1.954963098
C12orf39	0.254887962	0.098265563	1.954867846
SH2B1	0.254851477	0.098320759	1.954568582
PABPC5	0.254819899	0.098361157	1.954309576

TTC29	-0.254818443	0.098361157	-1.954297637
LIPJ	0.254793161	0.098396738	1.954090275
LOC645317	0.254767072	0.098433745	1.953876301
GPR149	0.254755737	0.098444865	1.953783341
HIST1H2BB	0.254701697	0.098530964	1.95334014
LOC729245	0.25469338	0.098536792	1.95327193
KRTAP21-1	0.254663307	0.098580839	1.953025301
ZNF323	-0.254657311	0.098582592	-1.952976127
TAS2R4	-0.254618427	0.098615791	-1.95265725
UACA	-0.254623268	0.098615791	-1.952696953
ARGLU1	-0.254621333	0.098615791	-1.952681083
FBXL8	0.254632316	0.098615791	1.95277115
LSM3	-0.254587479	0.098661402	-1.952403462
UBE2Q1	-0.254488935	0.098825955	-1.951595393
PVR	0.254478132	0.098836172	1.951506817
hCG_1776980	-0.254460576	0.098858281	-1.951362864
MPZ	0.254414791	0.098925391	1.950987448
RPL29	0.254412474	0.098925391	1.950968452
PNLDC1	0.254384723	0.098965478	1.950740919
DHX37	0.254362698	0.098979113	1.950560335
BCS1L	-0.254361993	0.098979113	-1.95055456
MOBK2B	0.254368254	0.098979113	1.950605888
EGR2	0.254334841	0.09901578	1.950331944
TRBV19	0.254321845	0.09901578	1.950225395
SPHKAP	0.254328704	0.09901578	1.950281629
CEACAM21	0.254321203	0.09901578	1.950220134
TUBGCP2	-0.254313298	0.09902091	-1.950155319
ZC3H10	0.254284321	0.099063188	1.949917754
SSX3	0.254274302	0.099063239	1.949835612
C1orf198	-0.254277626	0.099063239	-1.949862865
FLJ23834	-0.254178736	0.099223034	-1.949052163
RDH14	-0.254138595	0.099285095	-1.948723105
HCFC2	-0.254064834	0.099406612	-1.948118482

INVS	-0.254059726	0.099406809	-1.94807661
DNAJB12	0.254047093	0.099420312	1.947973057
MFS6L	0.253973264	0.099541391	1.947367916
SLC10A7	-0.253967358	0.099541391	-1.947319511
C5orf32	-0.253963658	0.099541391	-1.947289187
MAP3K13	-0.253953648	0.099550266	-1.947207137
CASK	-0.253947286	0.099552683	-1.947154999
MRPS26	0.253894946	0.099636506	1.946726021
PECR	-0.253880596	0.099653073	-1.946608413
ATG9B	0.253870423	0.099653396	1.946525034
NHLH2	0.253872555	0.099653396	1.946542514
YIPF2	0.253834291	0.099708558	1.946228917
ANKS1B	0.253793865	0.099771356	1.945897619
TMEM125	0.253783482	0.099772052	1.945812527
PROC	0.253786297	0.099772052	1.945835599
ZWILCH	-0.253712899	0.099888382	-1.945234113
CASP8AP2	-0.253686594	0.099926199	-1.945018564
AMFR	-0.253673293	0.099940941	-1.944909571
ABCC11	0.253622097	0.100022981	1.944490065
ROBLD3	0.253568595	0.100109173	1.944051676
KIF11	-0.253553603	0.100126941	-1.943928844
NTN4	-0.253548195	0.100127674	-1.943884532
AQP7	0.253532213	0.100147206	1.943753585
GUSBL1	-0.253515343	0.100168275	-1.943615363
OGFOD1	-0.253505378	0.100168275	-1.943533717
SDPR	0.253509302	0.100168275	1.943565868
CDH12	0.253429541	0.100294308	1.942912389
C12orf55	-0.253388729	0.10035542	-1.942578037
PRL	0.253375234	0.10035542	1.942467483
VPS72	-0.253383356	0.10035542	-1.942534021
FAM38A	0.253377982	0.10035542	1.942489995
CCNE1	0.253348984	0.100393275	1.94225244
MRPS5	-0.253331892	0.100414826	-1.942112416

PHKA1	-0.25330449	0.100454751	-1.941887941
ETS2	-0.253298548	0.100456438	-1.941839268
LOC100133373	-0.25327505	0.100489417	-1.941646779
GH2	0.253209722	0.100597008	1.941111645
LYRM5	-0.253168306	0.100662	-1.940772404
ZNF197	-0.253161472	0.100665281	-1.940716431
PLS3	-0.253149236	0.100672493	-1.940616206
TAF1D	-0.253147442	0.100672493	-1.940601516
MICALL1	0.253049438	0.100838622	1.939798814
CNIH	-0.253024814	0.100873709	-1.939597144
KLHDC1	-0.253006313	0.100879996	-1.939445618
RP3-377H14.5	0.253006725	0.100879996	1.939448993
RSPH1	-0.253013213	0.100879996	-1.939502129
ADAT3	0.252996617	0.100888402	1.939366209
BRD8	-0.25298269	0.100895444	-1.939252156
HMGB3L1	0.252986424	0.100895444	1.939282734
ANXA5	-0.2529775	0.100895797	-1.939209646
C12orf54	0.25294469	0.100945539	1.93894095
TUBA1A	-0.252878326	0.101055353	-1.93839748
PDCD10	-0.252870004	0.10106131	-1.938329334
NR3C1	-0.252818126	0.101145269	-1.937904516
TNK2	0.25280871	0.10115319	1.937827415
OXCT1	-0.252791251	0.101175523	-1.93768445
OTUD6B	-0.252776067	0.101193784	-1.937560113
LOC100131195	0.252769775	0.10119611	1.937508597
VWA3B	-0.252687321	0.101334992	-1.93683346
TBXAS1	0.252654125	0.101385593	1.936561663
TALDO1	-0.252647749	0.101388072	-1.936509464
ABLIM1	-0.252482871	0.101675327	-1.935159617
RXRβ	0.252466902	0.101695064	1.935028891
TRIM66	0.252436255	0.101741216	1.934778013
KRTAP5-9	0.25239316	0.101809796	1.934425237
C20orf26	-0.252340875	0.101894967	-1.933997255

PEG3	0.252316072	0.101930658	1.933794228
ATF4	0.252295523	0.101958688	1.933626034
GNRH1	0.252288336	0.101962637	1.933567205
TRIM16	-0.252262966	0.101997548	-1.933359549
C11orf1	-0.252258978	0.101997548	-1.933326914
SRXN1	-0.252226589	0.102046948	-1.933061809
SSBP2	-0.252210434	0.102067076	-1.932929592
NCAPG2	-0.252203243	0.102071036	-1.932870735
ACSL3	-0.252195703	0.102075626	-1.932809027
MCPH1	-0.252174964	0.102095018	-1.932639288
LARGE	0.252176886	0.102095018	1.932655019
GAS2	0.252126291	0.102173847	1.932240937
ATXN1	-0.252073384	0.102260372	-1.931807954
LOC100130019	-0.252036031	0.10230981	-1.931502277
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OR8G1	0.251964833	0.102429503	1.930919653
PPP1R3D	0.25193442	0.102475487	1.930670784
PCDH7	-0.25187104	0.102581173	-1.930152172
OCA2	0.251836301	0.102635045	1.929867933
MPND	0.251752168	0.102778492	1.929179571
LILRA2	0.251742004	0.102787863	1.92909641
SQRDL	-0.251718279	0.102821833	-1.928902313
UTS2D	0.251537363	0.103141389	1.927422283
PDE4B	0.2515073	0.103186979	1.927176369
ACSM1	0.251490945	0.103194853	1.92704259
ISYNA1	0.251487973	0.103194853	1.927018273
ERAP1	-0.251490807	0.103194853	-1.927041454
ABCB8	0.251445908	0.103262306	1.9266742
FERMT3	0.251436531	0.103270274	1.926597502
FNIP1	-0.251386184	0.103352852	-1.926185692
C6orf153	-0.251373548	0.103366762	-1.926082343
PGM3	-0.251326888	0.103442676	-1.92570072
FANCI	-0.251320422	0.10344535	-1.925647833

PTGES	0.251298236	0.103476679	1.925466386
UHRF2	-0.251290453	0.103481755	-1.925402729
NASP	-0.251276391	0.10349828	-1.92528772
NUMBL	0.251211441	0.103607642	1.924756547
LRRC19	0.251191975	0.103634045	1.924597355
FKBP3	-0.251157833	0.103687248	-1.924318156
UGT1A10	-0.25114221	0.103706649	-1.924190391
PCDHGB4	-0.251087761	0.103796988	-1.923745143
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SPAG6	-0.251048941	0.10384818	-1.923427714
PRIMA1	0.250981327	0.103955039	1.922874853
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SIRT1	-0.250955101	0.103977538	-1.922660418
DCDC1	-0.250954032	0.103977538	-1.922651677
SCARNA9	-0.250945264	0.103984434	-1.922579989
ZNF384	0.25089351	0.10407002	1.922156845
GTF3A	-0.250843338	0.104143602	-1.92174665
ZNF121	-0.250844712	0.104143602	-1.921757886
DENND3	0.250833049	0.104153293	1.921662536
C1orf52	-0.250824943	0.104158986	-1.921596263
ZNF608	-0.250817409	0.104163631	-1.921534673
RGS14	0.250762401	0.104246129	1.92108497
LOC442572	0.250764051	0.104246129	1.921098457
WSB1	-0.250749615	0.104260408	-1.920980443
CPNE2	-0.250687147	0.104356652	-1.920469782
SURF2	0.250689643	0.104356652	1.920490186
PARVA	-0.250660155	0.104397014	-1.920249135
ANKRD18B	-0.250600893	0.104496646	-1.91976472
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FKBP2	0.25051596	0.104634355	1.919070505
CALML6	0.250499614	0.10465522	1.918936899
VAMP5	0.250459091	0.104720561	1.918605703

MORF4L1	0.250443579	0.104739904	1.918478918	
PPP3CB	-0.2504081	0.104795999	-1.918188958	
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COQ6	-0.25035973	0.104866653	-1.917793647	
NOX4	0.25032482	0.104921751	1.917508358	
PRKAB2	-0.250264478	0.10502376	-1.917015242	
PTPN23	0.250238976	0.10506157	1.916806844	
RHOT2	0.250169646	0.105180275	1.916240323	
FLJ44606	-0.250154072	0.105199794	-1.91611307	
BAHCC1	0.250111963	0.105268326	1.915769	
DEFB1	0.25009405	0.105292179	1.915622638	
MCL1	-0.250084256	0.105301036	-1.915542612	
MDC1	0.250063521	0.105330109	1.915373201	
PLSCR3	0.250037838	0.105368336	1.915163361	
SLC47A1	0.250018535	0.105394778	1.91500565	
TMEM202	0.25000959	0.105402071	1.914932569	
NEK3	-0.249985676	0.105437046	-1.914737189	
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TDGF1	0.24991353	0.105552028	1.914147778	
PDE11A	0.249875174	0.105613783	1.913834435	
PRIC285	0.24985029	0.105650609	1.913631148	
HNRNPD	-0.249830896	0.105677273	-1.913472719	
DNAJC10	-0.249815294	0.105696914	-1.91334527	
CKAP2L	0.249808179	0.105700832	1.913287151	
SLC26A11	0.249787605	0.105720427	1.913119083	
RAGE	-0.249792325	0.105720427	-1.913157641	
EZH2	-0.249767151	0.105749069	-1.912952002	
PSG7	0.249674195	0.105912197	1.912192724	
SAE1	-0.249620786	0.105999202	-1.911756491	
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UBL5	0.249567622	0.106080445	1.911322281	
SPHK1	0.249563586	0.106080445	1.911289317	yes
RPL23AP32	0.249547132	0.106101727	1.911154935	

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MAOA	-0.249474651	0.106217884	-1.910562989
RSC1A1	-0.249443818	0.106265935	-1.910311197
NFKBIB	0.249426991	0.10628794	1.910173776
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GTF2A1L	0.249357585	0.106389571	1.909607003
NDUFS8	0.249357391	0.106389571	1.909605419
ZNF439	-0.249337029	0.106418179	-1.909439144
PRICKLE2	-0.249327339	0.106419415	-1.909360025
C1orf112	-0.249326364	0.106419415	-1.909352061
UBXN2A	-0.249277754	0.106500661	-1.908955139
KIAA1875	0.249244413	0.106553487	1.908682899
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RAVER2	-0.249097666	0.106808662	-1.907484763
SUSD4	-0.24904766	0.106892747	-1.907076514
C6orf57	-0.248986696	0.106997378	-1.906578825
PACRG	-0.248956053	0.107045344	-1.906328674
CDC27	-0.248946816	0.107053265	-1.906253273
THRB	-0.248898476	0.107134379	-1.90585867
GTSF1	0.248882394	0.107155121	1.905727402
STAC3	0.248855274	0.10717338	1.905506025
LOC286528	0.248852632	0.10717338	1.90548446
LOC400713	-0.248862402	0.10717338	-1.905564207
CD34	0.248855089	0.10717338	1.905504513
GPRIN2	0.248845942	0.107176542	1.90542985
DCUN1D4	-0.24882889	0.107199109	-1.905290664
JARID2	-0.248801428	0.107241181	-1.905066517
PTPRE	0.248715199	0.107393447	1.904362714
SNRNP70	0.248669049	0.107470646	1.903986058
DNAJC19	-0.248641169	0.107504192	-1.903758525
PLEKHG5	0.24864249	0.107504192	1.903769305
LOX	-0.248628026	0.107519473	-1.903651264
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LOC100133434	0.248549662	0.10763846	1.903011743
LRRCC1	-0.248493879	0.107733899	-1.902556537
ACTR3B	-0.248486647	0.107738092	-1.902497515
ZNF844	-0.248467322	0.107755842	-1.902339827
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NFU1	-0.248360389	0.107937993	-1.901467284
WEE1	-0.248316193	0.108011808	-1.901106674
OR2AT4	0.248309114	0.108015718	1.901048916
C1orf26	-0.248256511	0.108105419	-1.900619733
FAM58B	0.248251284	0.10810584	1.900577087
TPPP3	-0.248190214	0.10821157	-1.900078851
DHX30	-0.24815895	0.108261119	-1.899823793
SYF2	-0.248135255	0.108296396	-1.899630493
RRAGC	-0.248019275	0.10850604	-1.898684378
C18orf8	-0.247981316	0.108561062	-1.898374747
SUSD1	-0.247980166	0.108561062	-1.898365365
EPHB6	0.24783927	0.108818306	1.897216154
SNORD6	-0.247821977	0.108841589	-1.897075109
SGSM1	0.247761777	0.108945866	1.896584137
AKAP1	-0.247756958	0.108945866	-1.89654484
RPL32P3	-0.247741987	0.108964764	-1.896422744
TEX261	-0.247727143	0.108983422	-1.896301689
MAP4K1	0.247720656	0.10898623	1.896248787
TAF9B	-0.247701058	0.109013912	-1.896088961
RHD	0.247686975	0.109021634	1.895974114
SPATA5L1	-0.247691209	0.109021634	-1.896008642
FAM13B	-0.247643911	0.109093864	-1.89562293
C2orf60	-0.24762976	0.109104899	-1.895507532
ZNF669	-0.247625965	0.109104899	-1.895476587
SEC14L5	0.247623081	0.109104899	1.895453065
PCDHGA1	0.24759005	0.109158113	1.895183713

OR6C2	0.247548111	0.109228271	1.894841735
RASSF8	0.24754221	0.109229972	1.894793619
GDPD2	0.247536309	0.109231674	1.894745502
NBR2	-0.24751188	0.109268587	-1.894546302
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CD47	-0.247445607	0.10937744	-1.894005936
ZADH2	-0.247439335	0.109377964	-1.893954803
PTCD1	0.247416954	0.109411018	1.893772315
TNRC6C	0.247392059	0.109439337	1.893569348
CCNYL3	0.247394132	0.109439337	1.893586245
BMPR2	-0.247380108	0.109452557	-1.893471905
ENTPD7	-0.247351419	0.109497632	-1.893238011
OR5A1	0.247273788	0.109635943	1.892605116
CLDN22	0.24726524	0.109642695	1.892535424
PIGZ	0.247249684	0.109653263	1.892408612
MBD2	-0.247253556	0.109653263	-1.892440179
KCTD6	-0.247241604	0.109659126	-1.892342737
FBXL10	-0.24722045	0.109689902	-1.892170294
ASTE1	-0.247214782	0.109691169	-1.892124084
HUS1	-0.247105648	0.109889778	-1.891234467
ZNF721	-0.247092753	0.109904839	-1.891129354
SNORA19	-0.247061152	0.109948097	-1.89087177
KIAA1826	-0.247060085	0.109948097	-1.890863077
COPZ1	-0.246983798	0.110084269	-1.890241286
BOLA3	0.246977203	0.110087308	1.890187532
SGK196	-0.246971026	0.110089547	-1.890137187
ZNF154	0.246959045	0.110102882	1.890039537
POLQ	-0.246915631	0.110176319	-1.889685699
LIPE	0.246897004	0.110200282	1.889533892
PHKA2	-0.246893092	0.110200282	-1.889502013
CYP2C8	-0.246880913	0.110214007	-1.88940275
TRMT61A	0.246873327	0.110218945	1.889340929
STOML3	-0.246861456	0.110231035	-1.88924418

WNT5B	0.246857	0.110231035	1.889207866
PDE3A	0.246833655	0.110266127	1.889017614
FNBP1L	-0.24681515	0.110291963	-1.888866814
HKR1	-0.246770109	0.110368608	-1.888499758
MT1B	0.246711059	0.110472133	1.888018569
PRRG2	0.246699652	0.110484405	1.88792561
SNORD115-37	0.246693096	0.110484423	1.887872194
C20orf149	0.246689635	0.110484423	1.887843991
RASSF5	-0.246676134	0.110500709	-1.887733975
HPRT1	-0.246658945	0.110524067	-1.887593908
SLC16A7	-0.246651844	0.110528089	-1.887536045
BCL2L15	-0.246638906	0.110533711	-1.887430629
CCDC65	-0.246642298	0.110533711	-1.887458262
SLC6A13	0.246605129	0.110588879	1.887155404
C20orf46	0.246527623	0.110727978	1.8865239
PCDH11X	0.246501551	0.110768424	1.886311481
CD109	-0.24643975	0.110877517	-1.885807974
SPAG17	-0.2463988	0.110946603	-1.885474365
POR	-0.246362249	0.11099764	-1.885176593
ACAP1	0.2463635	0.11099764	1.88518679
TAS2R3	-0.246319729	0.111069803	-1.884830212
SLC19A2	-0.246307339	0.111084015	-1.884729282
PPP1CA	-0.246282863	0.111119797	-1.884529899
NDEL1	-0.246278739	0.111119797	-1.884496301
CCNYL2	0.246257794	0.11115048	1.88432569
HIGD2BP	0.246247971	0.111159759	1.884245674
GGCT	-0.246240878	0.111163783	-1.884187896
SEPN1	0.246218181	0.111197851	1.884003014
OR5H1	0.246184545	0.111252998	1.88372903
LOC646851	-0.246174147	0.111263391	-1.883644334
MAPK1IP1L	-0.246164091	0.111273127	-1.883562428
ZNF43	-0.246154909	0.111281179	-1.883487641
MTRF1L	0.246137086	0.111300646	1.883342464

SDHB	-0.246134803	0.111300646	-1.883323869
SIK2	-0.246125408	0.111309112	-1.883247347
C14orf139	0.246094618	0.111358812	1.882996568
SNRPG	-0.246083958	0.11136972	-1.882909746
CXCL16	-0.246068784	0.111389331	-1.882786159
BNIP1	-0.246048188	0.111419401	-1.882618411
ZNF479	0.246038371	0.111428687	1.882538463
LPHN1	0.246029582	0.111435995	1.882466875
ELMO3	0.24602163	0.111441687	1.882402117
C22orf34	0.246006595	0.111461042	1.882279662
CSN2	0.245993286	0.11147707	1.882171272
ZNF613	-0.245959698	0.111532225	-1.881897729
GGTLC2	0.245934691	0.111570836	1.881694082
FAM162A	-0.245913784	0.111597244	-1.881523822
UXT	-0.245911012	0.111597244	-1.881501243
DEFB129	0.245870796	0.111665242	1.88117375
FAM12A	0.245823303	0.111747335	1.880787006
CAP2	-0.245817673	0.111748555	-1.880741155
DPYD	-0.245811827	0.111750192	-1.88069355
RRP1B	-0.245796489	0.111770171	-1.880568659
CCDC22	0.245779786	0.111792794	1.880432645
CUL4B	-0.24577219	0.111797815	-1.880370794
CACNA1D	-0.245756316	0.111818838	-1.88024154
RCAN1	0.245720983	0.111877495	1.879953836
GYG1	-0.245660216	0.111985393	-1.879459061
SCARB1	0.245607633	0.11207752	1.87903094
FABP4	0.245593194	0.112095802	1.878913386
CCNO	0.245567107	0.112128793	1.878701
SPAG7	0.245566166	0.112128793	1.878693332
RPL23AP37	0.245551951	0.112146648	1.878577604
IL23A	0.245487294	0.112262285	1.878051228
ST6GAL2	0.245469238	0.112287607	1.877904231
MAP9	-0.245441347	0.11233201	-1.877677181

C19orf66	0.245400342	0.112401878	1.877343381
ACADS	0.245383862	0.112424163	1.877209229
ASAP3	0.245325374	0.112508611	1.876733131
RGS18	0.245333379	0.112508611	1.876801636
GAN	-0.245327791	0.112508611	-1.876752805
CXorf57	-0.245261536	0.112622939	-1.876213511
PIP5K3	-0.245181459	0.112768951	-1.875561748
PM20D2	-0.245160318	0.11280036	-1.875389686
PHB2	-0.245101156	0.112905808	-1.87490819
NDUFS5	-0.245075462	0.112946116	-1.87469908
PLA2G4A	-0.245065393	0.112955989	-1.874617139
SERPINB4	-0.245029706	0.113015786	-1.874326715
EMP3	0.245020082	0.113024796	1.874248396
BBS12	-0.245001555	0.113051164	-1.874097622
ATP5G1	0.244994411	0.113055341	1.874039491
TRBV5-1	0.244989124	0.113055902	1.87399646
EML1	-0.244975672	0.113072378	-1.873886999
USP36	0.244964047	0.113075549	1.873792392
BRS3	0.244964532	0.113075549	1.873796342
EXOC8	-0.244928665	0.113125047	-1.873504472
C5orf54	-0.244928757	0.113125047	-1.873505224
LOC100129563	-0.244885062	0.113200353	-1.873149673
MR1	-0.244868534	0.11321876	-1.873015185
MTCP1	-0.244865631	0.11321876	-1.872991561
CYTL1	0.244851519	0.113236546	1.872876729
ERH	-0.244846078	0.113237409	-1.872832461
IPO13	-0.244796326	0.113324779	-1.872427647
NBL1	0.244790402	0.113326586	1.872379446
BPGM	-0.24478036	0.113336437	-1.872297738
PLCH1	-0.244737559	0.113410282	-1.871949495
BNIP3	-0.244731545	0.113412267	-1.871900564
ZC3H18	0.244667332	0.113518238	1.87137814
LYRM7	-0.244671867	0.113518238	-1.871415028

FGF13	-0.24462924	0.113573183	-1.87106824
LOC284023	0.244629252	0.113573183	1.871068331
LOC100128977	0.244615916	0.113589471	1.870959837
GOLPH3	-0.244601501	0.113607893	-1.870842567
ATP6V1B2	-0.244586316	0.113627824	-1.870719041
ZUFSP	-0.244512375	0.113762785	-1.870117531
UCN3	0.244461509	0.113852643	1.869703761
GIMAP8	0.244428144	0.113905555	1.869432361
ST5	-0.244424516	0.113905555	-1.869402848
LOC100133382	0.244406552	0.113930972	1.869256732
DCTN2	-0.244364378	0.11400388	-1.868913689
RUNDC1	-0.244359067	0.114004492	-1.868870492
PLAUR	0.244345427	0.114021444	1.868759551
WDR5	0.244310079	0.114080998	1.868472041
YDJC	0.244237071	0.114214533	1.867878255
LOC100130433	0.244209776	0.11421496	1.867656273
C22orf40	0.24420292	0.11421496	1.867600514
RCHY1	-0.244201867	0.11421496	-1.867591946
SLC6A20	0.244214615	0.11421496	1.867695626
ERGIC1	-0.244220525	0.11421496	-1.86774369
TBX18	0.24420902	0.11421496	1.867650122
MPDU1	-0.244207482	0.11421496	-1.867637615
C20orf12	-0.244191115	0.114226264	-1.867504504
EIF1B	-0.244149009	0.114270858	-1.867162075
RG9MTD3	-0.244153624	0.114270858	-1.867199609
TIMM8B	-0.244148431	0.114270858	-1.867157374
SULT1A1	0.244156551	0.114270858	1.867223409
STX17	-0.244127419	0.114302328	-1.866986502
RCOR3	-0.244079053	0.114387583	-1.866593186
MGMT	0.244071941	0.114391745	1.866535347
RPRM	0.244053109	0.114418953	1.866382212
CMA1	0.243993561	0.114526279	1.865897991
HEATR2	-0.243964779	0.114573099	-1.865663957

MXD1	-0.243934234	0.114623406	-1.865415591
AKR1A1	-0.243903799	0.114673512	-1.865168127
PKIB	-0.243867653	0.114734892	-1.864874227
ZNF782	-0.24383442	0.114790552	-1.864604025
LOC100131402	-0.243813795	0.114821367	-1.864436338
DGCR6	0.243794629	0.114849312	1.864280514
OR4D10	0.243706518	0.11501333	1.863564186
EHBP1	-0.24368801	0.115036731	-1.863413726
ITGA5	0.243684673	0.115036731	1.863386593
CROP	-0.243677809	0.115040417	-1.863330794
TUBB4	0.243611872	0.11516081	1.862794783
EP400	-0.243576789	0.115220285	-1.862509591
ANP32E	-0.243568936	0.11522593	-1.862445758
SIGMAR1	0.243557997	0.115235466	1.862356841
TTBK2	-0.243554118	0.115235466	-1.862325312
BBOX1	-0.243541645	0.115250251	-1.862223918
GGPS1	-0.243536549	0.115250447	-1.8621825
LOC100130511	-0.243528702	0.115256085	-1.862118714
FTL	-0.243504798	0.11529348	-1.861924414
PROM1	-0.243493019	0.115306898	-1.861828665
SYNGR1	0.243446808	0.115388448	1.861453064
PPCDC	0.24343039	0.115401168	1.861319616
STK16	-0.243431426	0.115401168	-1.86132804
OR2T11	0.243417912	0.115415978	1.8612182
RWDD2B	-0.243399152	0.115428853	-1.861065723
MCAT	-0.243396423	0.115428853	-1.861043546
MYO9A	-0.243396995	0.115428853	-1.861048195
ZMAT3	-0.243319565	0.115571179	-1.86041889
PLEKHA7	-0.243307125	0.115585932	-1.860317786
PHF5A	0.243291126	0.115607739	1.860187765
MSH5	-0.243256443	0.115666589	-1.8599059
PLEKHG1	-0.243243504	0.115682341	-1.859800747
ZNF559	-0.243180629	0.115797154	-1.859289792

L3MBTL4	-0.243172992	0.115802396	-1.859227732
FBXO33	-0.243165303	0.115807742	-1.859165249
DNA2	-0.243137713	0.115852588	-1.858941051
MTHFD1	-0.243121073	0.115875705	-1.858805835
FLJ46836	0.243110088	0.115877683	1.858716572
WDR54	-0.24311182	0.115877683	-1.858730651
NCL	-0.243053792	0.115979567	-1.858259128
C12orf68	0.243041309	0.115994443	1.858157705
ZNF670	-0.243014193	0.116038401	-1.857937379
SLC13A4	0.24296413	0.116127997	1.857530611
OR5AR1	0.242946063	0.11614406	1.857383819
ASAP2	-0.242948652	0.11614406	-1.857404851
RPL12P16	-0.242891008	0.116233712	-1.856936514
CHTF8	-0.242894098	0.116233712	-1.856961622
ANGPTL4	0.242882486	0.116240731	1.856867279
C1orf163	-0.24286902	0.116257591	-1.856757876
TTRAP	-0.24283502	0.116315328	-1.856481654
FKSG24	0.24281843	0.116338416	1.856346874
OR56A5	0.242792551	0.116380007	1.856136638
TMC4	-0.242773955	0.11639653	-1.855985565
DRD1	0.242759856	0.11639653	1.855871035
NCOA6	-0.242766935	0.11639653	-1.855928543
LARP2	-0.242759289	0.11639653	-1.855866424
KIAA1430	-0.242766234	0.11639653	-1.855922846
NDUF2F2	0.242751963	0.116401178	1.855806911
FAM114A2	-0.242687257	0.116520162	-1.855281286
KEL	0.242630754	0.116604679	1.854822312
CTAGE5	-0.242629892	0.116604679	-1.854815306
ACTB	-0.242638284	0.116604679	-1.854883475
MED12L	0.242609979	0.116631682	1.854653559
AEBP1	0.242601377	0.116631682	1.854583687
ARMC2	-0.24260571	0.116631682	-1.854618886
SPATA18	-0.24247707	0.116865734	-1.853574034

IL5RA	-0.242474148	0.116865734	-1.853550307
IL8RB	0.242456164	0.116891692	1.85340424
AP1GBP1	-0.242401039	0.116991896	-1.852956544
PTOV1	0.242385832	0.117012319	1.852833043
IL12A	0.242378082	0.117017832	1.852770101
CROCCL1	0.242360056	0.117043897	1.852623712
ZC3H7A	-0.242338696	0.117076638	-1.852450239
MRVI1	0.24232981	0.117084426	1.852378077
SLC16A10	0.242269269	0.117185599	1.851886444
UVRAG	-0.242271236	0.117185599	-1.851902411
ZNF317	-0.242228975	0.117253936	-1.851559234
SMARCC2	0.242225155	0.117253936	1.85152822
INS-IGF2	0.242192668	0.11730901	1.851264421
COPS7B	-0.242145786	0.117392958	-1.850883742
LACE1	-0.242116682	0.117434476	-1.850647427
TRAV10	0.242115091	0.117434476	1.850634505
CHSY1	0.242106348	0.117441995	1.85056352
TMX2	-0.242009029	0.117607896	-1.849773366
PDLIM2	0.24200879	0.117607896	1.849771422
SNRPN	0.242008677	0.117607896	1.849770509
MAP3K5	-0.24199448	0.11761635	-1.849655243
PXK	-0.241994739	0.11761635	-1.849657346
GLTPD1	0.241980966	0.117633458	1.849545522
C1orf101	-0.24192251	0.117740826	-1.849070947
RIMS2	0.241875832	0.117824594	1.848692004
WDR69	-0.241819651	0.117921721	-1.848235934
PLA1A	0.241817541	0.117921721	1.848218804
CLPP	0.241801843	0.117943253	1.848091373
PHTF2	-0.24178963	0.117957778	-1.847992229
LOC100133317	0.241779687	0.117967736	1.847911522
PRRT3	0.241748768	0.118019907	1.847660534
PNMA6A	0.241686085	0.118136054	1.847151735
AP4B1	-0.241675708	0.118146897	-1.847067507

ZNF461	-0.241598192	0.118293044	-1.846438337
SNRNP40	-0.24158766	0.11830421	-1.846352856
GALNT7	-0.241567524	0.118334743	-1.846189427
LILRA6	0.241562287	0.118335233	1.846146928
ZNF706	-0.241527715	0.118394893	-1.845866342
MUSK	0.241489276	0.118462382	1.845554372
CCDC84	-0.241455476	0.118510448	-1.845280072
OC90	0.241456531	0.118510448	1.845288628
TBC1D17	0.241385075	0.118642555	1.844708747
WDR16	-0.241351401	0.118700517	-1.844435484
DDHD2	-0.241344662	0.118704042	-1.844380804
RMND5B	-0.241289491	0.118805502	-1.843933114
ZNF468	-0.241282178	0.118810191	-1.843873774
KRTAP24-1	0.2412192	0.118927525	1.843362753
LAIR1	0.241201	0.118954256	1.843215086
KRTAP4-6	0.241180355	0.118985946	1.843047575
SDCCAG8	-0.241167994	0.119000865	-1.842947275
FAM105B	-0.241160128	0.119006679	-1.842883457
PSMA7	-0.241147867	0.119021397	-1.842783975
NTHL1	0.24110905	0.119089916	1.842469041
EXOG	-0.241095583	0.119107085	-1.84235978
MCTP2	-0.241080831	0.11912686	-1.842240096
ZNF182	-0.24106381	0.119151238	-1.842102
GALNT10	0.241013883	0.119242347	1.841696945
KATNAL1	-0.240977912	0.119305187	-1.841405129
C1orf96	0.240954907	0.119329282	1.841218505
GPR116	0.240947092	0.119329282	1.841155103
ORC1L	0.240936075	0.119329282	1.841065732
POLR3D	0.240940556	0.119329282	1.841102086
NR112	0.240942613	0.119329282	1.841118775
COX7A2L	-0.240957947	0.119329282	-1.841243165
WDR23	-0.240874322	0.119444502	-1.840564791
MED28	-0.24086551	0.119452256	-1.840493309

ASB13	-0.24086044	0.119452412	-1.840452183
ASS1	-0.240842559	0.119478587	-1.840307137
CCDC34	-0.240823461	0.119507238	-1.840152225
C8orf59	-0.240806744	0.119531057	-1.840016625
CCDC17	-0.240778702	0.119577893	-1.83978917
BATF	0.240764715	0.119596174	1.839675716
C11orf80	-0.240736253	0.119643884	-1.839444859
SNORD78	-0.240706343	0.119694553	-1.839202259
ORAOV1	-0.240643504	0.119812245	-1.838692598
FIS1	0.240634771	0.119819856	1.838621773
AKR7L	0.240610882	0.119858323	1.838428025
PLA2G4E	0.240555576	0.119960789	1.837979489
CCNB1IP1	-0.240550194	0.119961581	-1.837935844
DPF2	-0.240537829	0.119976599	-1.837835571
STX18	-0.24047539	0.120093683	-1.837329217
WFDC6	-0.240445785	0.120133689	-1.837089139
OR5M10	0.240448146	0.120133689	1.837108291
NFYB	-0.240397472	0.120211872	-1.836697366
SEC24C	-0.240401155	0.120211872	-1.836727232
TM7SF3	-0.240377784	0.120241857	-1.836537723
TRAV27	0.240367946	0.120251745	1.836457948
LOC641367	0.240346821	0.120274481	1.836286654
TCTN1	-0.240347336	0.120274481	-1.836290832
SPSB3	0.240322117	0.12031472	1.836086341
CLEC3A	0.240295034	0.120359825	1.835866748
TTC30A	-0.240257892	0.120425494	-1.835565598
LOC100128612	-0.240252534	0.120426242	-1.835522149
GADD45B	0.240241654	0.12043827	1.83543394
DEFB131	0.240210349	0.120492041	1.83518012
THOC1	-0.240154553	0.120595909	-1.834727756
TBL1X	-0.240129472	0.120636999	-1.834524417
ZNF354A	-0.240116241	0.120653854	-1.834417148
C6orf203	-0.240104783	0.120667082	-1.834324257

SNORD102	-0.240025075	0.120809805	-1.833678077	
KRTAP10-4	0.240027735	0.120809805	1.833699645	
ZNF124	-0.239985328	0.120880994	-1.833355871	
CD22	0.239884583	0.121077298	1.832539235	yes
LRRC48	-0.239735036	0.121374126	-1.83132712	
TMEM107	-0.239726626	0.121381143	-1.831258957	
C15orf54	0.239712909	0.121399068	1.831147791	
CASC3	-0.239695326	0.121424944	-1.83100529	
ELOVL6	-0.239670901	0.121464896	-1.830807336	
TBX2	0.239627598	0.121543694	1.830456395	yes
OPTN	-0.23959495	0.121569752	-1.830191821	
SH2D1B	0.23960165	0.121569752	1.830246118	
CREBBP	-0.239602848	0.121569752	-1.830255825	
JRK	0.239598865	0.121569752	1.830223544	
MUC4	-0.239581906	0.121586316	-1.830086111	
ZNF627	-0.239573609	0.121593111	-1.830018878	
GPR132	0.239555909	0.12161926	1.82987544	
MTMR15	-0.239537565	0.12164674	-1.829726787	
NOB1	-0.239508929	0.121695417	-1.829494735	
PGD	-0.239477979	0.121748875	-1.829243935	
ECM1	0.23945803	0.121779681	1.829082293	
MAP3K8	-0.239400055	0.121827114	-1.828612522	
CP	-0.239416208	0.121827114	-1.828743408	
FLJ30430	0.239404314	0.121827114	1.828647036	
SH3YL1	-0.239407406	0.121827114	-1.828672085	
FILIP1	-0.239427161	0.121827114	-1.828832157	
HMGB1	-0.239421493	0.121827114	-1.828786229	
SOCS3	0.23940659	0.121827114	1.828665478	
PTPRQ	0.239392693	0.121831996	1.828552873	
TAF15	-0.239373366	0.121861538	-1.828396274	
ZNF816A	-0.239360793	0.121877165	-1.828294399	
CCDC89	-0.239354219	0.121880424	-1.828241139	
PELO	-0.239328498	0.121913199	-1.828032736	

SLC7A2	-0.239328337	0.121913199	-1.828031433
KNNTC1	-0.239314673	0.121931081	-1.82792072
PBXIP1	0.23918052	0.122197622	1.826833848
BTG4	-0.239160998	0.122227631	-1.826675699
CHRNA9	0.239042889	0.122461478	1.825718914
MAEA	-0.239016585	0.122505571	-1.825505839
DCDC5	-0.238936106	0.122661858	-1.824853954
SDS	0.238903907	0.12269866	1.824593148
KRTAP15-1	0.238903356	0.12269866	1.824588684
ENPP1	0.238908577	0.12269866	1.824630977
MORC2	-0.238854536	0.122789486	-1.824193269
POU6F2	0.238814017	0.122842428	1.823865094
CLIP2	0.238822989	0.122842428	1.823937757
C17orf68	0.238817002	0.122842428	1.82388927
TMEM194B	-0.23879132	0.122871587	-1.823681272
CHCHD1	-0.238789967	0.122871587	-1.823670315
LOC284379	0.238775051	0.122892165	1.823549515
GPR37	0.238768971	0.122894418	1.823500273
B4GALT6	-0.238732591	0.122959534	-1.823205639
C1orf168	-0.238675153	0.123068395	-1.822740486
TNK1	0.238655812	0.123098187	1.822583859
HBII-52-28	0.238555167	0.123296965	1.821768854
ALB	0.238530462	0.123337954	1.821568809
C3orf42	-0.238394554	0.123610487	-1.820468371
LOC388946	0.238382917	0.123624322	1.820374148
FNBP4	-0.238373045	0.123634478	-1.820294226
ZNF195	-0.238365881	0.123638993	-1.820236225
TRIM35	0.238346038	0.123669935	1.820075566
SERINC1	-0.238331698	0.123689409	-1.819959467
ITGB1BP1	-0.23832182	0.123699584	-1.819879496
SNORD49B	-0.238296593	0.123741763	-1.819675254
THBS4	0.238276771	0.123772677	1.819514783
ZNF32	-0.238236018	0.123847265	-1.819184857

LRRC67	-0.238200398	0.123890313	-1.818896503
TMPRSS7	0.238208448	0.123890313	1.818961668
PHF14	-0.238202242	0.123890313	-1.818911429
HERC5	0.238177608	0.123927453	1.818712009
RPL14	-0.238146052	0.123982902	-1.818456564
NAV3	0.238046575	0.124180309	1.817651329
C7orf55	0.237983536	0.124301704	1.817141074
MT4	0.237976653	0.124305646	1.81708537
CEP170	-0.237948066	0.12435501	-1.816853986
SERPIN2	-0.237790866	0.124673877	-1.815581725
B3GALT6	0.23771855	0.12479871	1.814996499
ZNF490	-0.237716363	0.12479871	-1.814978798
EPM2AIP1	-0.237718769	0.12479871	-1.814998275
KRT222P	0.237657253	0.124912308	1.814500476
PIGG	-0.237634227	0.124950171	-1.814314145
BCL2L1	-0.237628815	0.124951034	-1.814270354
ADAL	-0.237591489	0.125018951	-1.813968328
MPHOSPH8	-0.23758296	0.125026367	-1.81389931
UBE2CBP	-0.237546682	0.125092111	-1.813605772
LOC100131860	-0.237535345	0.125102222	-1.813514044
FAM98A	-0.237531872	0.125102222	-1.813485938
EXOSC8	-0.237514611	0.125128002	-1.813346277
ACOT2	0.23747296	0.125205089	1.813009279
LOC100133321	-0.237450515	0.125241793	-1.812827681
GAFA1	0.237427795	0.125279084	1.812643858
ZNF385A	0.237409624	0.125306804	1.812496852
NPBWR1	0.23740226	0.125311782	1.812437267
ZBTB38	-0.23736188	0.125386274	-1.812110587
TBC1D22A	-0.23734173	0.125418184	-1.811947569
RASSF4	0.237331035	0.12543018	1.811861045
CYP2R1	-0.237308912	0.125465327	-1.811682072
GSK3A	0.237304352	0.125465327	1.811645185
SPA17	-0.237272706	0.125521479	-1.811389174

ESF1	-0.237235829	0.125588679	-1.811090855
STK24	-0.237211435	0.125629576	-1.810893525
ZNF281	0.237147582	0.125753743	1.810377014
FBLL1	0.237119475	0.125802518	1.810149666
LOC100133393	0.237054964	0.125917674	1.809627866
EVL	0.237054948	0.125917674	1.809627737
TAGAP	0.237048985	0.125919708	1.809579503
CD163	0.237010065	0.125991384	1.809264711
AQP12A	0.236941105	0.126126623	1.808706976
ZNF589	-0.236906854	0.126188507	-1.808429974
ADAR	-0.23686914	0.12622857	-1.808124963
PDE4A	0.236876236	0.12622857	1.808182356
SNORA7B	-0.236867919	0.12622857	-1.80811509
PANK2	-0.23687334	0.12622857	-1.808158935
SNORD116-26	0.236848278	0.126259558	1.807956256
ISCU	-0.236841302	0.126263635	-1.807899834
KANK2	0.236836352	0.126263635	1.807859806
VWF	0.236829685	0.126267163	1.807805893
NAT8	0.236756621	0.126411311	1.807215043
UNC50	-0.236726147	0.126465292	-1.806968621
C4orf7	0.23668872	0.126534032	1.806665977
HDDC2	-0.236625493	0.126657538	-1.806154727
FLJ25006	-0.236603251	0.126694124	-1.805974889
SLC15A4	-0.236597458	0.126695803	-1.805928053
FDFT1	-0.236587115	0.126707142	-1.805844421
CLCN6	-0.236572775	0.126726965	-1.805728476
RPA3	0.236540267	0.126785365	1.805465639
FOXD1	0.23651667	0.126815521	1.805274856
PTPRB	0.236516065	0.126815521	1.805269965
ZNF117	-0.236498261	0.126842714	-1.80512602
TBC1D3B	0.236491703	0.126846024	1.805072995
GLRB	0.236482692	0.126854544	1.805000143
ETV4	0.236451237	0.126910748	1.804745842

SLC5A4	0.236417073	0.12697273	1.804469638	
B3GALNT2	-0.236398875	0.127000786	-1.804322523	
HELLS	-0.236357397	0.127078356	-1.803987206	
MLL	-0.236286647	0.127218266	-1.803415271	
LSM8	-0.236243733	0.127298994	-1.803068379	
MAPRE3	-0.236217949	0.127343264	-1.802859958	
ZFP57	0.236187383	0.127397735	1.802612891	
GLA	-0.236138124	0.127492078	-1.802214734	
NENF	0.236055975	0.127656662	1.801550763	yes
RPL10P12	0.236028767	0.127701176	1.801330864	
TMPRSS2	-0.236025116	0.127701176	-1.801301359	
hCG_1776007	0.235996682	0.127735642	1.801071555	
PART1	0.235990794	0.127735642	1.801023971	
SNORD50A	0.235988965	0.127735642	1.801009184	
C17orf79	0.235993228	0.127735642	1.801043642	
EFCAB10	-0.235975059	0.12775205	-1.800896798	
OR5H6	0.235971278	0.12775205	1.800866241	
FMNL2	0.235950355	0.127784086	1.800697154	
TTC21A	-0.235946275	0.127784086	-1.800664175	
SNORD7	-0.235918303	0.127831562	-1.800438123	
MLL4	0.235914047	0.127831562	1.800403729	
IMMT	-0.235873559	0.127907391	-1.800076535	
COL14A1	0.235853346	0.127939907	1.799913193	
IGHV3-13	0.23582068	0.127999056	1.799649224	
RNASEH2B	-0.235769703	0.128097403	-1.799237288	
ETV7	0.235746266	0.128136854	1.799047909	
LOC100133391	-0.235734491	0.128151351	-1.798952763	
SNORD116-8	0.235704009	0.128205897	1.798706466	
FBXO27	0.235679945	0.128246714	1.79851203	
LOC100133414	0.235660086	0.128278537	1.798351567	
hCG_1647286	0.23561883	0.128356209	1.798018228	
MOP-1	-0.235606009	0.128372965	-1.797914644	
FGD6	-0.235576708	0.128425049	-1.79767791	

TFEC	0.235517927	0.128540377	1.79720301	
ZFP36L1	-0.235508014	0.128550915	-1.797122916	
OR6B1	0.235464129	0.128634352	1.796768379	
POLI	-0.235443125	0.1286687	-1.796598701	
PA2G4	-0.235372016	0.128810679	-1.796024258	
RBM44	0.23532703	0.12889661	1.795660863	
PARN	-0.235276817	0.128993826	-1.795255259	
PHF12	-0.235261202	0.129016653	-1.795129127	
OR5M11	0.235249953	0.129030089	1.795038264	
PLAC8L1	0.235233709	0.129054274	1.794907058	
RPUSD3	-0.235217085	0.129079281	-1.794772779	
ZKSCAN2	0.235183084	0.129141694	1.79449815	
HSF2BP	0.235166201	0.129167271	1.794361787	
FAM180A	0.235153103	0.129184699	1.794256003	
PKHD1L1	0.235138452	0.129205474	1.794137672	yes
OR13C4	0.235076821	0.129327466	1.793639906	
POLR3G	0.235059532	0.129343162	1.793500272	
MYOZ2	0.235061536	0.129343162	1.793516455	
CD80	0.235034481	0.129386375	1.793297956	
BAIAP2L1	-0.235017022	0.129413228	-1.79315696	yes
CAPSL	-0.234977834	0.129486949	-1.792840479	
IGFBP5	-0.234918606	0.12960395	-1.792362183	
LRRC6	-0.234910561	0.129610515	-1.792297218	
ISM1	0.234888272	0.129647829	1.792117231	
WDR4	-0.234869969	0.129676547	-1.791969426	
C1orf173	-0.234793798	0.129830289	-1.791354358	
CECR5	0.234782605	0.129832851	1.791263981	
GIGYF1	0.234785583	0.129832851	1.791288027	
ZNF790	-0.23473402	0.129927067	-1.790871689	
BRD4	0.234719363	0.129947942	1.790753345	
FBXL19	0.234681798	0.130018376	1.790450045	
EPRS	-0.234665751	0.130042272	-1.790320477	
SLC7A6	-0.23464777	0.130070353	-1.790175308	

INCENP	0.234600213	0.130140804	1.789791347	
SNORA36A	0.234609136	0.130140804	1.789863391	
LASS5	-0.234603266	0.130140804	-1.789815998	
UNQ6228	-0.234573633	0.130178556	-1.789576758	
CLIC5	-0.234572771	0.130178556	-1.789569798	
NCRNA00083	0.234554483	0.13019475	1.789422159	
PARP14	-0.234550285	0.13019475	-1.789388261	
WDR55	-0.234555652	0.13019475	-1.789431597	
ABTB1	0.234534033	0.130219112	1.789257063	
SPINT4	0.234495111	0.130292593	1.788942845	
ZNF487	-0.234343088	0.130611452	-1.787715663	
LRTOMT	-0.234323449	0.13063236	-1.787557136	
ACIN1	-0.234326824	0.13063236	-1.787584383	
C11orf92	-0.234311498	0.130647443	-1.787460673	
C3orf65	0.234218243	0.130839167	1.786707973	
SEC63	-0.234201928	0.130863754	-1.786576289	
PSMB5	-0.234150696	0.130955813	-1.786162805	
SDC3	0.234149584	0.130955813	1.786153828	
DZIP1	-0.234101589	0.131047007	-1.785766481	
POPDC2	-0.23409766	0.131047007	-1.785734767	
ZNF680	-0.234063453	0.13111057	-1.785458705	
MAGOH	-0.234039435	0.131151966	-1.78526488	
SCPEP1	-0.234016481	0.131169255	-1.785079643	
ST7	-0.234019305	0.131169255	-1.785102426	
DYRK2	-0.234017649	0.131169255	-1.785089068	
CDCA7L	-0.234009052	0.131174537	-1.785019685	
C11orf67	-0.233996387	0.13119122	-1.784917485	
FGF14	-0.233980452	0.131215028	-1.784788892	
CETN2	-0.233959271	0.13125027	-1.784617966	
FAM76B	-0.233952784	0.131253502	-1.784565617	
LOC441956	0.233945826	0.131257759	1.784509473	
COL6A1	0.233932607	0.131275659	1.784402803	yes
ZNF141	-0.233918013	0.131296558	-1.784285039	

GPR50	0.233895875	0.1313339	1.784106402
LCK	0.233885924	0.131344687	1.7840261
SECTM1	0.233861039	0.131388027	1.783825304
ZNF626	-0.233856018	0.131388069	-1.783784787
CNPY2	0.233837032	0.131402857	1.783631589
XK	0.233834229	0.131402857	1.783608979
MON1A	0.23383795	0.131402857	1.783639001
tcag7.893	0.233797297	0.131472486	1.783310979
SIX4	-0.233779952	0.131499409	-1.783171032
HSPA5	-0.233760697	0.131519594	-1.783015671
TRIM21	-0.233762905	0.131519594	-1.783033486
PMPCA	-0.233744664	0.131543663	-1.782886311
GIT2	-0.233699121	0.131632143	-1.78251886
RPS6KC1	-0.233692398	0.131635901	-1.782464622
PCDHA11	0.23359693	0.131833503	1.781694411
LDLRAD1	-0.233590625	0.131836351	-1.781643544
MDK	0.233556103	0.13190088	1.781365043
UCKL1	0.233499625	0.132013459	1.780909439
MARK2	-0.233441796	0.13212907	-1.780442948
ARPP-19	-0.233433563	0.132136141	-1.780376537
FLJ43879	0.233395296	0.132198023	1.780067866
TMEM185A	0.23339551	0.132198023	1.780069594
ZNF417	0.233301689	0.132392179	1.779312834
GGH	-0.233278507	0.132432039	-1.779125859
EIF2A	-0.233270957	0.132437624	-1.77906496
TOB1	-0.233214452	0.132540155	-1.778609232
RPS2P8	0.23321421	0.132540155	1.778607278
LYPLA1	-0.233207787	0.132543269	-1.778555478
FAM124A	0.233199563	0.132550335	1.778489153
ZNF667	0.233148689	0.132651022	1.778078855
ABCC5	-0.233136375	0.132667075	-1.777979544
LOC100130423	-0.23310191	0.132731777	-1.777701603
INSIG2	-0.233019208	0.132902537	-1.777034669

NDUFA8	-0.232954458	0.133033954	-1.776512544
ZNF167	0.232902998	0.133136207	1.776097595
RNF128	-0.232885448	0.133163828	-1.775956089
POLA2	-0.232823088	0.133290175	-1.775453274
TAS2R49	-0.232769444	0.133397391	-1.775020763
RP9P	-0.232719027	0.133497552	-1.774614284
KCNE4	0.232696905	0.133528476	1.774435936
DNAJB14	-0.232694997	0.133528476	-1.774420554
ZNF738	-0.232649942	0.133612071	-1.77405732
AGR3	-0.232647109	0.133612071	-1.774034482
SLC29A1	0.232576562	0.133745758	1.773465767
CCDC14	-0.232579007	0.133745758	-1.773485472
ALG9	-0.232570911	0.133747179	-1.773420213
F13A1	0.232474416	0.133949426	1.772642359
CYP4F2	0.232442764	0.134008368	1.772387225
FSIP1	-0.232294229	0.13431513	-1.771190013
IL8	-0.232298766	0.13431513	-1.771226582
FCGBP	0.232262403	0.134374577	1.770933512
LCN1L1	0.232165572	0.134578292	1.770153127
C6orf224	-0.232092262	0.134718837	-1.769562348
VIT	0.232095332	0.134718837	1.769587091
HIST1H1T	0.232076002	0.134734423	1.769431322
CYCS	-0.232075222	0.134734423	-1.769425035
CASP8	-0.232024443	0.13483614	-1.769015841
WFDC12	0.232012574	0.134851382	1.768920204
SNORD73A	-0.231973255	0.134927671	-1.768603377
SEC23B	-0.231955675	0.134944478	-1.768461719
UBXN10	-0.231959147	0.134944478	-1.768489698
MED24	-0.231920071	0.135012538	-1.768174841
CPLX4	0.231896131	0.135054662	1.767981942
ALOX12P2	-0.231854985	0.135135102	-1.767650425
DDX51	0.231835201	0.135167997	1.767491025
GRIK2	-0.231814322	0.135203338	-1.767322803

RET	0.231796875	0.135227236	1.76718224
SNORA73A	0.23179357	0.135227236	1.767155611
TMEM33	-0.231737831	0.135340278	-1.766706549
ATF2	-0.231661105	0.135480221	-1.76608843
MT1F	0.231655028	0.135480221	1.766039471
INF2	0.231663513	0.135480221	1.766107829
AMAC1L2	0.23165832	0.135480221	1.766065996
SERPINB5	-0.231482925	0.135853368	-1.764653123
C5	-0.231450157	0.135915427	-1.764389178
SRL	0.231428406	0.135952859	1.764213983
LOC147727	-0.231309566	0.136196414	-1.763256822
SMUG1	-0.231311798	0.136196414	-1.763274801
LOC84740	0.231288163	0.136233123	1.763084447
MYOC	0.231263618	0.136276879	1.762886776
GIMAP4	0.231247617	0.136301498	1.762757906
RRP7A	0.231234629	0.136319364	1.762653314
ARHGAP9	0.231205888	0.13637255	1.762421848
SPRYD4	-0.231178129	0.136423546	-1.762198304
RPL39L	0.231163547	0.136445	1.762080876
RP11-345P4.4	-0.231139607	0.13648745	-1.761888088
MRPS34	0.231076363	0.136618124	1.761378808
SLC22A5	-0.231057221	0.136649841	-1.761224661
ERBB3	-0.231046659	0.136662294	-1.761139613
VWA3A	-0.23101773	0.136715996	-1.760906678
KIAA0562	-0.231009094	0.136724128	-1.760837138
TNFSF14	0.231002466	0.13672775	1.760783769
DECR2	0.230926901	0.136886291	1.760175332
MLANA	0.230833529	0.137085045	1.759423568
SLC27A1	0.230785149	0.137182671	1.759034062
KRTAP5-6	0.230746515	0.13725839	1.758723032
PPM1F	0.230737864	0.137266573	1.758653393
ZAP70	0.230669797	0.13740868	1.758105428
CCR6	0.230623286	0.137502259	1.757731019

KBTBD10	-0.230605971	0.13753	-1.757591636
C4orf22	-0.230543184	0.137649053	-1.757086236
PMAIP1	-0.230544429	0.137649053	-1.757096254
RP4-692D3.1	-0.230534057	0.137658326	-1.757012772
ATP2A3	0.230444404	0.137849516	1.756291152
PARP2	-0.230367875	0.138011216	-1.755675206
RGS9	0.230341754	0.138058956	1.755464977
KEAP1	-0.230313804	0.138110846	-1.755240038
CCDC73	0.230301431	0.138127487	1.755140461
C10orf81	-0.230293472	0.138134139	-1.755076404
LOC100133405	-0.230221023	0.138286842	-1.754493357
ARHGAP4	0.230179659	0.138369198	1.754160489
SMURF1	-0.230144607	0.138437277	-1.753878426
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PRDM10	-0.229982441	0.138748306	-1.75257355
ZNF184	-0.229976106	0.138751286	-1.75252258
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SCRIB	0.229891325	0.13892111	1.751840455
TAAR5	0.229862986	0.138974122	1.751612458
SCG3	0.22985704	0.138976221	1.751564615
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PACS1	0.229717641	0.139247722	1.750443169
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TXN2	-0.229699963	0.139265099	-1.750300961
LOC732391	0.229666354	0.139328806	1.750030602
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S100G	0.229629881	0.139390431	1.749737204
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C8orf41	-0.229561682	0.139523005	-1.749188628
PRCC	-0.229550551	0.139536933	-1.749099099
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SFRS18	-0.229520152	0.139576109	-1.748854588
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STX6	-0.229494497	0.139596048	-1.748648236
OSR2	0.229498704	0.139596048	1.748682073
INTS12	-0.229462912	0.139656656	-1.748394193
CCDC5	-0.229450072	0.139674497	-1.748290919
FIGF	0.229435229	0.13969691	1.748171545
GPRC6A	0.229401958	0.139761399	1.74790395
GABPB2	-0.229389152	0.139779172	-1.747800959
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CPEB1	0.229355539	0.139832997	1.74753063
DEM1	-0.229316124	0.13991157	-1.747213641
S1PR1	0.229295382	0.139931842	1.747046834
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FAM125A	0.229292187	0.139931842	1.747021141
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SEC22A	-0.229155549	0.1401639	-1.745922354
B2M	-0.229128574	0.140214136	-1.745705438
C20orf151	0.229056938	0.140366645	1.745129426
USP21	-0.229014727	0.14045184	-1.744790033
MTDH	-0.228989063	0.140499146	-1.744583684
CDC14B	-0.22895497	0.140565787	-1.744309574
LUC7L2	-0.228913859	0.14064855	-1.74397904
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HIST1H2AM	0.228884952	0.14069662	1.743746636
KLHL31	0.22886731	0.140720776	1.743604802
ZNF319	0.228792066	0.140881978	1.742999896
KPNA2	-0.228735926	0.140999413	-1.742548589
CDC14C	0.228688838	0.141096106	1.742170066
PDPN	0.22868341	0.141097035	1.742126434
AMN1	-0.228676648	0.141101031	-1.742072081
MAP7D3	0.228609526	0.141243867	1.741532541
DNAH10	-0.228593565	0.141247792	-1.741404246
SERP1	-0.228597783	0.141247792	-1.741438145
TMEM43	-0.228587726	0.141247792	-1.741357312
FZD1	0.228588097	0.141247792	1.741360295
FLJ35848	0.228574426	0.14125528	1.741250409
RPLP2	-0.228578863	0.14125528	-1.741286073
PLEKHO1	0.228556263	0.141285519	1.74110442
HPCA	0.228532963	0.141305419	1.740917136
KRTAP5-1	0.228532551	0.141305419	1.740913825
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FAM27L	0.228482776	0.141385319	1.740513764
IGFL4	0.228490692	0.141385319	1.74057739
ACOX3	-0.228472254	0.141397985	-1.740429195
SHROOM2	0.228444862	0.141449499	1.740209046
FABP3	0.22842403	0.141485917	1.74004162
KCNAB1	0.228396246	0.14153836	1.739818319
PCDHGA5	0.228358106	0.141614684	1.739511806
SNORD27	-0.228339614	0.141645739	-1.739363191
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TRAM1	-0.228298291	0.141717867	-1.739031108
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TEX2	-0.228276229	0.141750052	-1.738853811
ANKFN1	-0.228263584	0.141753231	-1.7387522
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PPP3CA	-0.228207533	0.141834585	-1.738301777
IL2RG	0.228194185	0.141853803	1.738194519
CASP7	-0.228166484	0.141906152	-1.737971925
RELB	0.228135022	0.141967199	1.737719116
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SAMD4A	0.227954516	0.142303144	1.736268804
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GPKOW	0.227830907	0.142543184	1.735275743
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PRDX5	-0.22776659	0.142656862	-1.734759065
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MAPRE2	-0.227731781	0.142702629	-1.734479446
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ADAMTS8	0.227717837	0.142711681	1.734367434
PTGES2	0.227650606	0.142855926	1.73382739
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RDH12	0.227489528	0.143194918	1.732533613
C14orf166	-0.227479807	0.14320584	-1.732455536
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ANGPTL3	0.22737061	0.143377991	1.731578561
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OBFC2A	-0.22737068	0.143377991	-1.731579121
HIST1H3C	0.227362068	0.143386181	1.731509964
POMGNT1	0.22735385	0.143393619	1.731443967
HIG2	-0.227348155	0.14339519	-1.731398232
TSPAN14	-0.227255832	0.143598351	-1.730656833
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PI15	0.227214508	0.143671201	1.730324999
TSPAN33	0.227172405	0.143757592	1.729986921
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ENAM	0.227066635	0.143969076	1.72913765
NPR2	0.227068873	0.143969076	1.729155624
NAP5	0.227000135	0.144112546	1.72860373
CRTC2	0.226953053	0.144210762	1.72822573
GSTM3	-0.226937376	0.144233567	-1.728099868
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ASCC2	-0.22682832	0.144431841	-1.727224367
HLTF	-0.22682132	0.144436466	-1.727168173
UBE2R2	-0.226806753	0.144458787	-1.727051232
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MAP2K2	0.22670561	0.144648432	1.726239323
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FFAR2	0.226360048	0.145281991	1.723465842
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PLEKHO2	0.226298106	0.145392096	1.722968767
MRPS6	-0.226291015	0.145396956	-1.722911868
STAB1	0.226192579	0.145616562	1.722121979
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C1orf63	-0.226161359	0.145673495	-1.721871473
LOC494141	0.22614438	0.145694507	1.721735234
LNX2	-0.226116352	0.145748647	-1.72151035
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ATAD3C	0.226063063	0.145850457	1.721082786
MKL2	-0.226010928	0.14595892	-1.720664496
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FAM160A1	-0.225995797	0.14596158	-1.720543106
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ASPSR1	0.225919761	0.146093444	1.719933088
GLRXL	0.225846742	0.146253825	1.719347311
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ART3	0.225786691	0.146359995	1.718865585

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CALML4	-0.225743766	0.146425771	-1.718521259
AMMECR1	-0.225743964	0.146425771	-1.718522844
MAMLD1	0.225727749	0.146451737	1.718392782
IL2RB	0.225673954	0.146564588	1.71796128
ALG13	-0.225667862	0.146564588	-1.717912414
OASL	0.225664915	0.146564588	1.717888776
DNAJC2	-0.225650566	0.146580206	-1.717773682
DUSP28	0.225648262	0.146580206	1.717755202
C7orf41	-0.225638258	0.146584682	-1.717674961
RORC	0.225636325	0.146584682	1.717659459
LOC343384	0.225625291	0.146598893	1.717570957
ZNF714	0.225592983	0.146654705	1.717311823
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HMG20B	0.225580941	0.146668124	1.717215235
C20orf85	-0.225558991	0.14670815	-1.71703919
NWD1	-0.2255451	0.146717256	-1.716927774
LGALS1	0.225546505	0.146717256	1.716939041
UQCRC1	-0.225532194	0.146735905	-1.716824264
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PCDH19	0.225508177	0.146768962	1.716631643
TMCO4	-0.225472371	0.146826691	-1.71634448
POP5	-0.225471142	0.146826691	-1.716334624
C19orf48	0.225468715	0.146826691	1.716315154
OLFML3	0.225450184	0.146858659	1.716166543
CDKL2	-0.225421549	0.146914547	-1.715936893
LRRCS9	-0.22538246	0.146995199	-1.715623423
CYP27C1	0.225339889	0.147084132	1.715282034
NRBP2	0.225279726	0.147214803	1.714799582
SMAD9	0.22526564	0.147232819	1.714686635
SOX15	0.225260648	0.147232819	1.714646598
SQSTM1	-0.225257066	0.147232819	-1.714617881

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IGJ	0.224969466	0.147868022	1.712311934
STEAP3	-0.224936997	0.147933309	-1.71205163
TOMM40	0.224925943	0.147947658	1.711963013
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TPRG1L	-0.224842489	0.148122393	-1.711293997
ZER1	-0.224793053	0.148228183	-1.710897712
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DPRX	0.224691273	0.148422903	1.710081863
SOSTDC1	0.224671434	0.148458237	1.709922851
CDR1	0.224659768	0.148462099	1.709829338
ARF3	-0.224663202	0.148462099	-1.709856863
SERTAD1	0.224619759	0.148545566	1.709508662
CFDP1	-0.224578045	0.14863314	-1.709174323
DOCK4	-0.224555613	0.148674703	-1.708994537
CFHR3	0.224533993	0.148714335	1.708821262
C15orf26	-0.224523646	0.148727048	-1.708738336
PLEKHM3	-0.224463516	0.148858708	-1.708256435
TRABD	0.224453498	0.148870643	1.708176148
OLFML2B	0.224401691	0.148982491	1.70776097
PIK3IP1	-0.224378477	0.149025995	-1.707574937
DDX25	0.224352348	0.149076483	1.707365546
ALDH3A2	-0.224328557	0.149121387	-1.707174897
IGHA1	0.224233126	0.149337858	1.706410193
CYP3A5	-0.224173382	0.149468991	-1.705931486
LILRB3	0.224151193	0.149506413	1.705753697
SLC39A2	0.22414772	0.149506413	1.705725873
PDZK1IP1	0.224109782	0.149585342	1.705421901
REXO1L1	0.224102109	0.14959169	1.705360425

CORIN	0.224090012	0.149608651	1.705263501
TPI1	-0.224054245	0.149682408	-1.704976939
PPIAP19	0.224028355	0.149732484	1.704769507
CASKIN2	0.223950578	0.149907187	1.7041464
PGR	0.223924735	0.149957202	1.703939369
CD3EAP	0.22390058	0.150003073	1.703745858
CCDC127	-0.223895594	0.150003073	-1.703705917
ALS2CR12	-0.223811384	0.150183234	-1.703031337
RPS16P1	0.223810617	0.150183234	1.703025189
KATNAL2	-0.223792921	0.150213711	-1.702883441
ZDBF2	-0.223744273	0.150318693	-1.702493755
GMFG	0.223721115	0.150362342	1.702308259
ANO6	-0.223632517	0.150563666	-1.701598613
DSC3	-0.223594305	0.150643661	-1.701292564
C8orf49	0.223578536	0.150669559	1.701166261
CRIPAK	-0.223569818	0.150678453	-1.70109644
FAM83C	0.223538649	0.150732821	1.700846809
GDA	-0.223537218	0.150732821	-1.700835348
GBAP	-0.223509379	0.150775717	-1.700612387
UNC13C	0.223512198	0.150775717	1.700634965
AADAC	-0.223462165	0.150877521	-1.700234264
HSN2	-0.223440136	0.15091856	-1.700057848
HDX	0.223428567	0.150934351	1.699965198
GPX8	-0.223366287	0.15107263	-1.699466454
SLC15A1	0.223354043	0.151090062	1.699368402
SNTG2	0.22327565	0.151267413	1.698740657
GCDH	0.223230562	0.151364316	1.698379624
RPL26L1	0.223223747	0.151368634	1.698325052
NACC2	0.223212991	0.151380296	1.698238929
IQCH	-0.223208866	0.151380296	-1.698205902
SNORD26	-0.223170787	0.151460282	-1.697901004
RSBN1	-0.223162764	0.151467526	-1.697836767
RBBP7	-0.223150142	0.151485658	-1.6977357

FAM83G	0.223145214	0.151485658	1.697696249
C14orf79	-0.223105811	0.151552323	-1.697380758
NEK8	0.223102593	0.151552323	1.697354995
ORAI1	0.223102783	0.151552323	1.697356516
GFPT1	-0.223066018	0.151628728	-1.697062162
OCM	0.223060049	0.151631004	1.697014374
STRN4	0.223036803	0.151663208	1.69682826
CYB5RL	0.223036698	0.151663208	1.696827423
PPM1L	-0.223016971	0.151698822	-1.696669489
HRSP12	-0.222928261	0.151901702	-1.695959298
SLC25A22	0.222881127	0.152003859	1.695581973
RHPN1	0.222875217	0.152005995	1.69553466
HOPX	0.222868669	0.152009679	1.695482245
HS3ST1	-0.222849607	0.152043736	-1.695329654
OR2T6	0.222769375	0.152226355	1.69468741
ASCL3	0.222759068	0.152239176	1.694604905
CDKN2A	0.222749111	0.152251145	1.694525207
LHFPL1	0.222732758	0.152278659	1.694394306
KIAA1609	-0.222641725	0.152487757	-1.693665666
LOC391358	0.222566241	0.15265921	1.693061519
BIN2	0.222552158	0.152681248	1.692948804
UHRF1	0.222529205	0.152724888	1.692765104
COMMD10	-0.222520882	0.152732903	-1.692698493
HDAC7	0.222513006	0.152739831	1.692635457
SMU1	-0.222453583	0.152872342	-1.6921599
CCDC103	-0.222426788	0.152925387	-1.691945464
KRTAP10-5	0.222359737	0.153076626	1.69140889
CNOT6L	-0.222291256	0.153231468	-1.6908609
KCNMB1	0.222276751	0.153238448	1.690744827
GON4L	-0.222273297	0.153238448	-1.69071719
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DYRK1B	0.222205933	0.153366082	1.690178173

PJA2	-0.22220634	0.153366082	-1.690181432
OSTC	-0.222189343	0.153394316	-1.690045429
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LOC100131581	-0.222024602	0.153739945	-1.688727359
CCDC60	-0.222022824	0.153739945	-1.68871313
PPOX	-0.222009326	0.153760658	-1.688605143
MAP7	-0.221986395	0.153804464	-1.688421691
GSTK1	-0.221968994	0.153810097	-1.688282479
C9orf102	-0.221977292	0.153810097	-1.688348865
OPN1LW	0.221971963	0.153810097	1.688306229
ATG4A	-0.22189219	0.153985857	-1.687668055
SNORD30	-0.221876568	0.1540118	-1.687543085
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SCARNA5	0.221744232	0.154311607	1.686484496
OR10G4	0.221735339	0.154321074	1.686413364
LOC100133330	0.221724793	0.154334599	1.686329007
C10orf90	0.221713855	0.154349084	1.686241524
ZNF578	0.221706558	0.154354638	1.686183154
SLCO1A2	0.221643364	0.154497424	1.6856777
LOC100128356	0.221625257	0.154517164	1.685532878
HUS1B	0.221629157	0.154517164	1.685564066
IDH1	-0.221584458	0.154605023	-1.685206566
CDKN2B	0.221577232	0.154610408	1.68514877
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RAD51L3	0.221491505	0.154784011	1.684463153
SCEL	-0.22149377	0.154784011	-1.684481266
TMEM65	-0.221482802	0.154793031	-1.684393555
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CCDC137	0.221390926	0.154919972	1.683658811
EIF5B	-0.221375224	0.154946226	-1.683533238
DCT	0.221358042	0.154976124	1.683395838
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PSMD8	-0.22129647	0.155065748	-1.682903477
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RBM6	-0.22128572	0.155079824	-1.682817522
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TNFAIP3	-0.221233482	0.155183686	-1.682399819
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PREX1	0.221202307	0.155235697	1.682150542
C5orf26	0.221071239	0.155546464	1.681102599
NFXL1	-0.221021138	0.155657704	-1.680702039
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PDGFA	0.220921788	0.155840926	1.679907784
CNGA4	-0.220915306	0.155844503	-1.67985597
ABCA10	-0.220906694	0.155853347	-1.679787119
PLCG1	0.220733392	0.156263031	1.678401801
BCOR	-0.220729674	0.156263031	-1.67837208
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DCHS1	0.22069705	0.156322155	1.678111315
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PIGY	-0.220593602	0.156553541	-1.677284486
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PPP1R3B	0.220376785	0.157054249	1.675551723
ADAM22	0.220361877	0.15707878	1.675432586
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TBC1D25	0.220330797	0.15713099	1.675184226
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PLEKHA9	0.220268413	0.157261073	1.674685729
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C7orf10	0.220200212	0.157405716	1.67414077
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LOC401431	0.220136927	0.157538207	1.673635118
C11orf17	-0.220129465	0.157544241	-1.6735755
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RAD54L	0.220038366	0.157721022	1.672847657
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RAB4B	0.219973673	0.157857215	1.672330812
ABL2	-0.219940123	0.157928348	-1.672062781
SFRS6	-0.219915572	0.157977038	-1.671866654
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C14orf109	0.21989663	0.157991473	1.671715333
CES8	-0.219892886	0.157991473	-1.671685424
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CXorf15	-0.219828642	0.158118578	-1.671172219
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IRX5	0.219765739	0.158250539	1.670669752
ELMO1	0.219689099	0.15842954	1.670057574
ITFG2	-0.219643922	0.158517855	-1.669696739
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SUOX	-0.219553184	0.158706608	-1.66897202

PLCB1	0.219496037	0.158824499	1.668515618
POU1F1	0.219499943	0.158824499	1.668546808
PAGE2B	0.219449189	0.158929275	1.668141476
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CFHR4	0.219316275	0.159224749	1.667080065
GATAD1	-0.219263906	0.159343583	-1.666661888
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ACSM2A	0.219153943	0.159594587	1.665783855
MYEOV	0.219148671	0.15959516	1.665741759
NUDT7	-0.219102097	0.159698701	-1.665369905
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FCRL2	0.21901839	0.159821408	1.66470159
IRAK3	-0.21900996	0.159829933	-1.664634285
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ANKMY1	-0.218903445	0.160009256	-1.663783937
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MAGOHB	-0.218669734	0.160522349	-1.661918357
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GSDMB	-0.218452849	0.160981286	-1.660187352
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CLEC9A	0.218359745	0.161178646	1.659444356
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PNKP	0.218300542	0.161290269	1.65897192
DOM3Z	0.21828932	0.161300824	1.658882371
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GPR137	0.218265514	0.161327891	1.658692409
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MAN1B1	0.218084442	0.161710348	1.657247616
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CACHD1	-0.218027668	0.161790441	-1.656794655
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PALM3	0.217895762	0.162074306	1.655742317
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IQCA1	-0.217280363	0.163476508	-1.650833981	
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SLC39A10	-0.217233935	0.163569474	-1.65046376	
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DNALI1	-0.217177408	0.163662468	-1.650013032	
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KLF6	-0.217082974	0.16385263	-1.649260074	
SIT1	0.21704083	0.163934765	1.648924056	
CHAF1B	0.217044713	0.163934765	1.648955019	
HHLA2	-0.21700317	0.16401838	-1.648623803	
VPS33B	-0.216891985	0.164290746	-1.647737398	
TRIP13	-0.216874145	0.164323587	-1.647595172	yes
SSR3	-0.216821509	0.164445824	-1.647175574	
TM4SF20	0.216805341	0.164474388	1.647046688	
TCF21	0.216724103	0.164670267	1.64639911	
DKK3	0.216708288	0.164697952	1.64627304	
SH3BP2	0.216700644	0.164704615	1.646212111	yes
DNAI1	-0.216663385	0.164787482	-1.645915122	
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CCNF	0.216480893	0.165225338	1.644460602
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VWDE	0.216391954	0.165408835	1.643751796
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P2RY11	0.216370127	0.165439069	1.643577851
C20orf54	0.216354575	0.16546616	1.643453918
RIMS1	-0.216338834	0.165493745	-1.643328471
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SCARNA7	-0.216208971	0.165763896	-1.642293631
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PCNXL2	-0.216160557	0.165849838	-1.641907861
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SLCO2A1	0.216024961	0.166148329	1.640827464
VKORC1	0.216018529	0.16615189	1.64077622
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TYROBP	0.215882799	0.166464221	1.639694869
EMR3	0.215840258	0.166561417	1.639355968
C13orf27	-0.215730961	0.166831939	-1.638485301
GPATCH1	-0.215691755	0.166913627	-1.638173
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SNORA16A	0.215669809	0.166951354	1.637998189
PPAPDC2	-0.215654205	0.166978752	-1.637873895
HTATSF1	-0.215627411	0.167035234	-1.637660474
CLEC2D	-0.215607126	0.167070422	-1.637498897

TF	0.215603755	0.167070422	1.637472047
WASF1	0.215596516	0.167076088	1.637414391
CCDC21	-0.215515453	0.167273738	-1.636768738
CES3	0.215499568	0.167301903	1.636642224
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TMEM56	-0.215387277	0.167567906	-1.635747916
MS4A14	0.215346496	0.167660979	1.635423142
SLC25A11	-0.21529521	0.167781479	-1.635014721
KRT78	0.215278472	0.167811212	1.634881433
CCDC11	-0.215273685	0.167811212	-1.634843308
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C1orf192	-0.214933118	0.168595067	-1.632131583
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ARMCX6	0.214831995	0.168843652	1.631326527
UBE2E1	-0.214819992	0.168851475	-1.631230973
C6orf108	-0.214806766	0.168859586	-1.631125682
CDYL	0.214809803	0.168859586	1.631149861
RPS2P9	0.214792835	0.168882814	1.631014783
CAMLG	-0.214779733	0.168903874	-1.630910478
TXNDC6	-0.214710409	0.169072305	-1.630358629
LSM14B	0.214678243	0.169130091	1.630102584
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SV2B	0.214672262	0.169132495	1.630054971
TSPAN13	-0.214641056	0.169201065	-1.629806573
TRPV3	0.214591646	0.169290843	1.629413286
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IGHV3-9	0.214600453	0.169290843	1.629483386

C15orf23	-0.214541436	0.169409353	-1.629013637
ELF5	0.214521553	0.169448264	1.628855382
C10orf93	-0.214367933	0.1698254	-1.62763275
OR51B4	0.214370295	0.1698254	1.627651544
GGTA1	0.214362728	0.169825764	1.627591322
IRAK1BP1	-0.214342727	0.169865052	-1.627432147
C14orf174	-0.214331735	0.169880642	-1.627344671
C9orf114	0.214322993	0.169890312	1.627275104
PDE7A	-0.214307258	0.169918384	-1.627149883
CASP12	0.214266207	0.170003052	1.626823197
REEP5	-0.214264956	0.170003052	-1.626813241
ZNF568	-0.214229257	0.170077737	-1.626529153
CUEDC2	0.214226456	0.170077737	1.626506867
TRAT1	0.214217766	0.170087279	1.626437717
LFNG	0.214174984	0.170186616	1.626097276
LOC389203	-0.214160789	0.170210666	-1.625984319
SNORA74A	0.214134391	0.170266872	1.625774267
ABCG1	0.214078288	0.170401401	1.625327857
PAQR4	0.214066931	0.170417989	1.625237487
MPHOSPH6	-0.214044792	0.170463011	-1.625061334
FLJ22374	-0.21403157	0.170484523	-1.624956127
HAAO	0.214004435	0.170542737	1.624740228
C21orf57	0.213938977	0.170702119	1.624219424
FMO9P	0.213831576	0.170972446	1.623364961
CADM1	0.213807933	0.171021546	1.623176873
AGGF1	-0.213784186	0.171070933	-1.622987952
GPAM	-0.213762308	0.171115385	-1.622813911
SNORA42	0.213735007	0.171174193	1.622596724
PHF21A	-0.213729517	0.171175307	-1.622553049
MUC16	-0.213676641	0.171301809	-1.622132434
PCDHA6	0.213635571	0.171397117	1.62180574
FANCM	-0.213589102	0.171506765	-1.621436107
POLR1E	-0.213528732	0.171653312	-1.620955916

LOC729627	0.213500736	0.171714093	1.620733236
CMTM5	0.213473202	0.171760214	1.620514239
UBE2L6	0.213475272	0.171760214	1.620530708
MARCH8	-0.213431258	0.171844569	-1.620180639
C12orf37	0.213434672	0.171844569	1.620207791
ADCY6	0.213402593	0.171907171	1.619952659
PTPN2	-0.213325269	0.172098983	-1.619337692
TAGLN	0.213204594	0.172406211	1.618378021
ICMT	-0.213182866	0.172450505	-1.61820524
NPAS2	-0.213112795	0.172623455	-1.617648042
IL2	0.213090946	0.172668112	1.617474306
RABEP2	0.213079105	0.172686127	1.617380154
SYT5	0.213033169	0.172794949	1.617014894
CLEC2B	-0.213018347	0.172820916	-1.616897039
NROB1	0.212994733	0.17287031	1.616709285
CD40LG	0.212972746	0.172915379	1.616534465
GAA	0.2129498	0.172963012	1.616352021
FBXO15	-0.212885559	0.173120777	-1.615841264
CXorf41	-0.212837905	0.173234378	-1.615462395
C1orf220	0.212769769	0.173402726	1.614920709
GABRB1	0.21269922	0.173550507	1.614359863
FAM127C	0.212700938	0.173550507	1.614373523
NDUFB8	-0.212700648	0.173550507	-1.614371216
WDSOF1	0.212641207	0.173692005	1.613898701
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HNRNPUL1	-0.212579189	0.173830719	-1.613405712
ITGB2	0.212526254	0.173958789	1.612984948
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LOC150622	0.212475096	0.174068568	1.612578321
PRKCD	-0.21237702	0.17431775	-1.61179881
MT1A	0.212359897	0.17435004	1.611662717
ARFGAP2	-0.212337334	0.174396922	-1.611483395
DENND4B	0.212253907	0.174607123	1.610820372

PFAS	0.212200742	0.174736226	1.610397866	
CNOT3	0.212176304	0.174788216	1.610203664	
EDC3	-0.212122052	0.174920336	-1.609772544	
GAL3ST2	0.212108716	0.174942521	1.609666571	
RPL27P2	0.212023488	0.175158047	1.608989335	
GPR148	0.211954455	0.175330162	1.608440817	
KLHL4	0.211937562	0.175361958	1.608306595	yes
hCG_2015956	0.211921952	0.175388571	1.608182564	
SNORA14B	0.211917512	0.175388571	1.608147288	
PI4K2B	-0.211865552	0.17551211	-1.607734453	
PSMD9	0.211861482	0.17551211	1.607702114	
GSTA4	-0.211852491	0.175522637	-1.607630681	
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RAB1B	-0.211674168	0.175962417	-1.606213984	
LOC100129677	0.211668563	0.175963821	1.606169454	
PAFAH1B2	-0.211654106	0.17598912	-1.606054608	
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IFNE	-0.211533338	0.176274128	-1.605095267	
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CCDC120	0.211496944	0.17634501	1.604806183	
FAM81B	-0.211463181	0.17642255	-1.604538005	
TRAIP	0.211408154	0.176557649	1.60410093	
PSMG4	-0.211367218	0.176654674	-1.603775794	
SNORD63	-0.211354281	0.176675923	-1.603673046	
PAX9	-0.211281496	0.176859268	-1.603094968	
SLFN11	-0.211265813	0.176887975	-1.602970415	
HSF2	-0.211244566	0.176931764	-1.602801673	
DNAH9	-0.211226494	0.176966953	-1.602658155	
TNFRSF1B	0.211203398	0.177015768	1.602474735	
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PRKRIP1	0.211107622	0.177247938	1.601714139	

PKIG	0.211079355	0.177297029	1.601489675
H2AFX	0.211083109	0.177297029	1.601519483
SNAPC1	-0.210993128	0.177517346	-1.600804968
GNG5	0.210982025	0.177533682	1.600716806
CTXN1	0.21096382	0.177569317	1.600572246
CES2	-0.210909646	0.177702719	-1.600142101
MYO10	-0.210856555	0.17783325	-1.59972056
CMKLR1	0.210816051	0.177915745	1.599398967
LTK	0.210817216	0.177915745	1.599408222
MICAL1	0.21076591	0.178038356	1.599000875
LDHA	-0.21074904	0.178070424	-1.598866942
SCUBE3	0.210712394	0.178151233	1.598576003
PCSK2	0.210709182	0.178151233	1.598550509
SMPD1	0.210683801	0.178192633	1.598349009
FAM108A1	0.210687127	0.178192633	1.598375417
TRIM6	0.210639115	0.178286637	1.597994257
AIF1	0.210640271	0.178286637	1.598003434
AURKAIP1	0.21057938	0.178435582	1.597520052
ADCY4	0.210566382	0.178457141	1.597416871
FAM50A	0.210526467	0.178552115	1.597100023
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CTSD	-0.210447457	0.178712138	-1.596472849
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REEP6	0.210272916	0.17916117	1.595087485
IQGAP3	0.210217994	0.179297469	1.594651595
MRP63	-0.21018187	0.179382386	-1.594364902
PREP	-0.210105676	0.17957707	-1.593760225
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KRTAP19-3	0.210021235	0.179780547	1.593090136
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MEGF6	0.209847816	0.180186455	1.591714063
KLC1	-0.209840137	0.180193543	-1.591653138
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TNRC6A	-0.209750307	0.180398314	-1.590940407
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LMO2	0.209741598	0.180408241	1.590871305
ZNF676	0.209731645	0.180421586	1.590792339
PLXDC1	0.209707718	0.180473343	1.59060251
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LOC85391	-0.209638341	0.180636091	-1.590052099
C14orf159	-0.20963014	0.180644628	-1.589987039
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ZSCAN5B	0.209522719	0.180898189	1.589134859
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ANKRD39	0.209475278	0.18097268	1.58875853
NOL3	0.209443622	0.181045842	1.588507419
D2HGDH	0.209426343	0.181079406	1.588370352
KIF25	0.209395684	0.181149849	1.588127158
RPS4Y2	0.209339362	0.181291075	1.587680416
CA13	-0.209331264	0.181299347	-1.587616183
NSAP11	0.209233153	0.181556002	1.586838008
ATP6V1E2	0.209171883	0.181711123	1.586352074
TJAP1	0.209133551	0.181802946	1.586048063
ALG14	-0.209128017	0.181803502	-1.586004177
BACH1	-0.209123148	0.181803502	-1.585965564
DTX2	-0.209112592	0.181818581	-1.585881845
RAB9A	-0.209106679	0.181820829	-1.585834949
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NQO1	-0.209055891	0.181918922	-1.58543218	yes
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EHMT2	0.209016308	0.181986068	1.585118274	
LOC643923	0.209018029	0.181986068	1.585131921	
SYT15	0.208955078	0.18214133	1.584632718	
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PRR10	0.208867294	0.182341968	1.583936626	
SGOL1	0.208848811	0.182350783	1.58379007	
ZNF330	-0.208852665	0.182350783	-1.58382063	
SDF4	0.208854871	0.182350783	1.583838124	
NIPSNAP1	0.208820009	0.182416426	1.583561691	
PDHA1	-0.208801392	0.182453867	-1.583414079	
CRCT1	0.208729571	0.182610491	1.582844618	
SSRP1	-0.208730701	0.182610491	-1.582853574	
HOMER2	0.20873145	0.182610491	1.582859517	
COMMD3	-0.208713119	0.182641959	-1.582714178	
PTX3	0.208699018	0.182666913	1.582602379	
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ANO1	0.208616386	0.182839508	1.581947243	
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OR6C76	0.208599653	0.182867543	1.581814585	
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TMEM60	-0.208586285	0.182880577	-1.581708608	
MAP3K11	0.208539849	0.182986681	1.58134047	yes
ATP8B2	0.208537853	0.182986681	1.581324644	
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KLF4	-0.208498488	0.183077386	-1.581012578	
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AIFM2	0.208410029	0.183285031	1.580311337	
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TNFRSF25	0.208349107	0.183426019	1.579828419
VTCN1	-0.208340058	0.183436998	-1.579756696
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SYNE1	-0.208242542	0.183679893	-1.578983743
OBSCN	0.208170762	0.183865538	1.578414819
ALG10B	-0.208081855	0.18408484	-1.577710183
COQ5	-0.208082835	0.18408484	-1.577717944
DBNDD2	0.20807084	0.184101323	1.577622884
FMO3	-0.208054942	0.184131422	-1.577496887
DDX41	-0.208035813	0.184170533	-1.577345287
PIR	-0.207993673	0.184273833	-1.57701133
GSTA3	-0.207964083	0.184334202	-1.57677684
FKBP11	0.20796183	0.184334202	1.57675898
ZNF511	0.20794849	0.184357188	1.576653268
REPIN1	0.207934085	0.184383148	1.576539114
ZNF826	0.207925266	0.184393522	1.576469226
PTGER4	-0.207893216	0.184468738	-1.576215249
ZC3H13	-0.207837301	0.184610624	-1.575772171
CTDSP2	-0.207825794	0.184628515	-1.575680984
RALY	-0.20780485	0.184672769	-1.575515026
HOXA2	0.207761982	0.184778298	1.57517535
IGHMBP2	0.207738837	0.184828728	1.574991963
STARD8	0.207716009	0.184878281	1.574811086
MARCH1	0.207652245	0.185041173	1.574305862
SREBF2	-0.207647562	0.185041173	-1.574268762
GOLGA4	-0.207537348	0.185335418	-1.573395561
CLCNKA	0.207459707	0.185489445	1.572780461
PIP5K1C	0.207456851	0.185489445	1.572757835
MSMB	-0.207457518	0.185489445	-1.572763124
C1QA	0.207474027	0.185489445	1.572893906
CALD1	0.207460315	0.185489445	1.572785282
ST3GAL1	0.207429461	0.185551907	1.572540857
RPS23	-0.207416049	0.185573404	-1.572434608

SLC39A13	0.207411584	0.185573404	1.572399235
GNPTG	0.207401745	0.185586678	1.572321293
TCN1	0.207348	0.185723078	1.571895544
P2RX6	0.207309651	0.185816347	1.571591761
PTN	-0.207291668	0.185852485	-1.571449316
ABCC1	-0.2072589	0.185930131	-1.571189753
DTNB	0.207251042	0.18593786	1.571127508
ZPBP	0.207238661	0.185958285	1.571029443
CAMK4	0.207167619	0.186143468	1.570466734
LOC100133432	-0.207114748	0.1862777	-1.570047973
CEL	0.207070378	0.186388097	1.569696546
RPL21P28	-0.207045167	0.186444082	-1.569496876
SERPING1	0.207040259	0.186444082	1.569458006
SLC39A11	-0.20699061	0.1865694	-1.569064794
ZNF37B	-0.206954079	0.186657846	-1.568775486
TIMP3	0.20694082	0.186680795	1.568670483
NIN	-0.206906967	0.186761737	-1.568402389
USP5	-0.206874148	0.186839791	-1.568142487
KIAA1529	-0.206858482	0.186869536	-1.568018428
CPD	-0.206801696	0.187000774	-1.56756875
STK31	0.206804849	0.187000774	1.567593714
PKP3	0.206784268	0.187035503	1.567430744
GABRA3	0.206748459	0.187121686	1.567147184
PIK3R3	-0.206743487	0.187121686	-1.567107816
DOLK	0.20669877	0.187218998	1.566753729
PPP1R14C	-0.206703674	0.187218998	-1.566792562
FUT11	0.206662835	0.187276588	1.566469198
C17orf61	0.206658063	0.187276588	1.566431411
DNAJC27	-0.206671659	0.187276588	-1.566539064
SLC12A8	0.206657928	0.187276588	1.566430341
C9orf70	0.206637565	0.187319636	1.566269107
RYBP	-0.206616226	0.187365443	-1.566100153
ADAM32	0.206560644	0.18749976	1.565660077

ZNF202	-0.206558434	0.18749976	-1.565642574
USP11	-0.206547424	0.187516427	-1.565555408
LOC100130261	0.206456846	0.187757904	1.564838282
CASP1	-0.206423145	0.187838736	-1.564571479
IL1RAP	-0.206325155	0.188101491	-1.563795739
TBP	-0.206298999	0.188161068	-1.563588668
PIK3C2G	0.206292466	0.188165098	1.563536963
RBL1	-0.206259002	0.188245383	-1.563272059
FGFBP1	-0.206148674	0.188543523	-1.562398746
ARID5A	0.206128972	0.18857775	1.562242796
LOC440706	0.206126381	0.18857775	1.562222285
CHCHD10	0.206117252	0.188589142	1.562150031
MAP2K6	-0.206084284	0.188668147	-1.561889082
LOC100133338	-0.206061125	0.188704844	-1.561705782
SESN3	-0.206061535	0.188704844	-1.561709023
CYP4X1	0.206027994	0.188784343	1.561443554
SIAH2	0.206003536	0.18883925	1.561249973
C3orf33	0.205994309	0.188850932	1.561176947
KIAA0556	-0.205969981	0.18890548	-1.560984406
HDAC5	0.205929471	0.189005992	1.560663797
TINAGL1	0.205917287	0.18902608	1.560567369
OVCH1	0.205889583	0.189090254	1.560348115
AHRR	0.20585537	0.189172939	1.560077357
RAB3D	0.205728116	0.189520269	1.559070321
ZHX3	0.205709305	0.189559247	1.558921472
DFNB31	0.205689429	0.189601266	1.558764189
OSTM1	-0.205549086	0.189986476	-1.557653699
BFSP1	0.205535768	0.190009859	1.557548328
FAM120AOS	0.205494538	0.190112841	1.557222108
SNORD22	0.205429137	0.190284837	1.556704661
ZNF565	-0.205414308	0.190311524	-1.556587339
HIST1H4A	0.205409553	0.190311524	1.556549724
CCDC101	-0.205364503	0.19041092	-1.556193306

RBM15B	0.205369016	0.19041092	1.556229012
TR2IT1	0.205317056	0.190531809	1.555817944
FER	-0.205286557	0.190589704	-1.555576666
hCG_22804	-0.205287949	0.190589704	-1.555587677
LOC100133015	0.205260958	0.190648232	1.55537415
LOC100128203	0.205244896	0.190679511	1.555247093
SNORA75	0.205236701	0.190688311	1.55518226
HNRNPH2	-0.205167522	0.190856834	-1.554635017
LIMD1	-0.205168508	0.190856834	-1.55464282
LACTB2	-0.20510574	0.191018936	-1.554146312
FBXW5	0.205097418	0.191028106	1.554080485
BHLHE40	-0.20505454	0.19113619	-1.553741318
PARP6	-0.205039027	0.19116595	-1.553618617
ZNF726	0.204996764	0.191272324	1.553284333
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SELENBP1	-0.197749945	0.20848456	-1.496097019
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CNNM4	-0.196467494	0.211870458	-1.48600364	
LOC645339	0.196467582	0.211870458	1.486004331	
AQP5	0.196457984	0.211883844	1.48592882	
APOL6	-0.196442742	0.21191486	-1.485808907	
STXBP6	0.196393633	0.212050067	1.48542257	
SNORD74	-0.196379351	0.212071486	-1.485310211	
VEGFC	0.196376357	0.212071486	1.485286661	
SPNS2	0.196347481	0.212144482	1.485059497	yes

PPM1E	0.19633463	0.212168161	1.484958405
MRPL46	-0.196279993	0.212320503	-1.4845286
C20orf107	0.19618079	0.212602595	1.483748254
ZNF682	-0.196178121	0.212602595	-1.483727264
YIF1B	0.196153771	0.212661759	1.483535727
KIAA0247	-0.196121652	0.212744891	-1.483283092
AXL	0.196059405	0.212921002	1.48279349
TMED6	0.196053703	0.212922674	1.48274864
TK1	0.19599057	0.213089561	1.482252092
BTBD12	0.195989316	0.213089561	1.482242225
LOC732275	0.195981843	0.213096701	1.48218345
HMMR	0.195959087	0.213151033	1.482004477
STEAP2	-0.195948874	0.213166637	-1.481924154
NME1	-0.195939054	0.213181027	-1.481846925
RP11-90M2.3	0.1959165	0.213234749	1.481669544
NXN	0.195908641	0.213236663	1.481607737
RPL4P4	-0.195905561	0.213236663	-1.481583514
ZNF77	0.195897232	0.213246455	1.481518006
ZNF572	-0.195881701	0.213278492	-1.481395864
ZNF732	0.195855253	0.213344259	1.481187871
LRAT	0.19582373	0.213425725	1.480939965
TBC1D2B	-0.195699342	0.213780034	-1.479961794
TSPYL4	-0.195698834	0.213780034	-1.479957796
OTUB1	-0.195642785	0.213937532	-1.47951706
SLC35E2	-0.195634604	0.21394688	-1.479452727
PCDHGB7	-0.195606877	0.213995372	-1.479234702
C21orf63	-0.195605977	0.213995372	-1.479227631
ULBP2	0.195603458	0.213995372	1.47920782
SDF2L1	0.195593223	0.214007804	1.479127342
PRF1	0.195589121	0.214007804	1.479095091
PTEN	-0.195552261	0.21410597	-1.478805261
C14orf38	-0.195529917	0.214159197	-1.478629568
CENPV	0.19548826	0.214272273	1.478302037

PFN1	0.195468159	0.214318574	1.47814399	
CXCL14	0.195462906	0.214318859	1.47810269	
FAM115A	0.195453553	0.214331853	1.47802915	yes
PC	0.195443593	0.214346729	1.477950841	
TCEA2	0.195414359	0.214421351	1.477721	
CEP72	0.195374932	0.214527602	1.47741102	
FXVD2	0.195358206	0.214547467	1.477279514	
SLC22A3	0.195359631	0.214547467	1.47729072	
SLC25A45	0.195317567	0.214616423	1.476960021	
UBASH3A	0.195328802	0.214616423	1.477048348	
BMP5	0.195315333	0.214616423	1.476942456	
ZNF193	-0.195316717	0.214616423	-1.476953333	
PPA1	-0.195301631	0.21464292	-1.476834738	
SLC25A31	0.195225284	0.214863837	1.47623453	
IL1RAPL1	0.195220106	0.21486389	1.476193825	
IGSF1	0.195201314	0.214881799	1.476046097	
SLC22A15	-0.195204218	0.214881799	-1.476068927	
LUC7L	-0.195198856	0.214881799	-1.476026779	
PQLC1	0.195188257	0.214898686	1.475943456	
RIBC1	-0.195071089	0.215246624	-1.475022416	
WSB2	-0.1950539	0.215284012	-1.474887297	
LRRC2	0.195002395	0.215428107	1.474482452	
ZNF133	0.194983375	0.21547121	1.474332949	
FUCA2	-0.194906779	0.215693484	-1.473730906	
AKAP5	0.194882038	0.215754432	1.473536448	
LOC100131796	0.194862171	0.215800212	1.473380306	
EHF	-0.194834163	0.215871357	-1.473160173	
C6orf134	-0.19482362	0.215888112	-1.473077313	
BIN3	-0.194788699	0.215980811	-1.472802855	
DPYSL2	0.194748384	0.216088365	1.472486017	
LRRC36	-0.194743857	0.216088365	-1.472450434	
GAS6	0.194718836	0.216134163	1.472253799	
PABPN1	0.194719969	0.216134163	1.472262704	

NPM2	0.194689025	0.216205885	1.472019522
ZNF45	-0.194685502	0.216205885	-1.471991834
QSER1	-0.194667704	0.216245279	-1.471851965
C9orf98	-0.194646619	0.216294929	-1.471686262
FGGY	-0.194636134	0.216311524	-1.471603873
ADD2	0.194623244	0.216335623	1.471502576
SLC44A3	-0.194605206	0.216359681	-1.471360822
SELPLG	0.194609005	0.216359681	1.471390677
OSTalpha	-0.194589087	0.216393856	-1.471234154
MBNL1	-0.194501862	0.216649935	-1.470548739
ATG4C	-0.194477109	0.2167111	-1.47035423
CAMSAP1L1	-0.194432295	0.216818802	-1.4700021
SYTL1	0.194432486	0.216818802	1.470003597
SMC5	-0.194383617	0.21692248	-1.469619618
DLL1	0.194385384	0.21692248	1.469633502
RIN2	-0.194391629	0.21692248	-1.469682572
SYTL3	-0.194345594	0.217025167	-1.469320861
TLL1	-0.194320985	0.217085948	-1.469127509
LONRF1	-0.194181913	0.217504851	-1.468034868
TNFAIP8L3	0.194159847	0.217557762	1.467861509
MRPS18B	-0.194131239	0.217631169	-1.467636758
DEFB124	0.194120716	0.217647944	1.467554091
RAD9B	0.194088838	0.217731613	1.46730366
SLC44A2	-0.194070495	0.217772894	-1.46715956
SGCB	-0.19404473	0.21783744	-1.466957151
LGR6	0.193910366	0.218242583	1.465901671
RPL35P1	0.193890614	0.218288346	1.465746526
RPUSD1	0.193871598	0.218315588	1.465597153
FHAD1	-0.193873771	0.218315588	-1.46561422
DUSP3	-0.193854135	0.218327666	-1.465459985
RAB27B	-0.193856729	0.218327666	-1.465480363
DGKZ	0.193852246	0.218327666	1.465445149
C15orf39	0.193842026	0.218343526	1.46536487

NFKBIE	0.193789917	0.218490894	1.464955576
SLC37A4	-0.193777256	0.218514424	-1.464856134
SERPINH1	0.193764388	0.218538606	1.464755065
ZNF449	-0.193740865	0.218596258	-1.464570306
PHYHD1	0.193696904	0.218718137	1.464225027
ALAS2	0.193655898	0.218830772	1.463902969
GARS	-0.193643366	0.218853918	-1.463804551
C9orf135	-0.193626601	0.2188803	-1.463672881
USP12	0.193621027	0.2188803	1.463629106
RSPH9	-0.19361947	0.2188803	-1.463616878
MEGF9	-0.193591217	0.218930346	-1.463394985
FMN1	-0.193589526	0.218930346	-1.463381707
TNFRSF14	0.19358805	0.218930346	1.463370117
WIZ	0.193561796	0.218996654	1.46316393
SMC2	-0.193555565	0.218999998	-1.463114999
COQ10A	-0.193511652	0.219121869	-1.462770138
ARL4C	0.193491754	0.219168217	1.462613871
CDH2	0.193458516	0.219256549	1.462352858
LGI2	0.193444557	0.21928422	1.462243237
CASP10	-0.193396692	0.21941864	-1.46186737
LOC84931	0.19336584	0.219499525	1.461625105
OR12D2	0.193330494	0.219594593	1.461347548
LGMN	-0.193312473	0.219621784	-1.461206043
SUPT6H	-0.193311527	0.219621784	-1.461198617
C18orf18	0.193293422	0.219662548	1.461056454
EFNB1	0.193285831	0.219670182	1.460996852
PLAC2	0.193239185	0.219768334	1.460630589
PCYOX1	-0.193241798	0.219768334	-1.460651099
FRMD8	0.19324333	0.219768334	1.460663132
SCGB3A1	0.193228873	0.219784551	1.460549618
CCNI2	0.193216704	0.219806621	1.460454071
ZBTB45	0.193179904	0.219906357	1.460165125
SLCO3A1	-0.193128061	0.220053575	-1.459758084

C9orf119	0.193059299	0.220254271	1.45921822
MTBP	-0.193027369	0.220338765	-1.458967539
PASK	-0.193001898	0.220402879	-1.458767574
WTAP	-0.192928388	0.220618801	-1.458190478
AQP3	-0.192901162	0.220672172	-1.457976747
LDLR	-0.192903056	0.220672172	-1.457991614
KLRA1	-0.192884933	0.220707135	-1.457849339
SNHG11	0.192875001	0.220722187	1.457771377
ZFP1	-0.192869208	0.220724158	-1.457725897
AP4S1	-0.192849512	0.220763691	-1.457571286
CCDC147	-0.192846365	0.220763691	-1.457546577
C16orf67	0.192800065	0.220893762	1.457183128
ATAD4	0.192783563	0.220929608	1.457053594
AKAP14	-0.192760239	0.220987041	-1.45687051
SLC38A1	-0.192749244	0.221005471	-1.456784205
CD93	0.192725582	0.221063988	1.456598468
PLXNC1	0.192717791	0.221072286	1.456537309
SLC16A5	-0.192695499	0.221126477	-1.456362331
CHFR	-0.192661618	0.221217366	-1.456096392
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CLEC16A	-0.192620793	0.221313189	-1.455775958
ZNF251	-0.192615847	0.221313189	-1.455737137
SAV1	-0.19260458	0.221332501	-1.455648701
DEFB111	0.192598989	0.221333835	1.455604822
PSKH1	0.192587086	0.221355163	1.455511395
FRMD6	-0.19255791	0.221426952	-1.455282404
ADM	0.192554084	0.221426952	1.45525237
TYW3	-0.192490379	0.22161244	-1.454752382
NHLRC1	0.192430818	0.221768493	1.454284941
DNER	-0.192431492	0.221768493	-1.454290225
RNF181	0.192421435	0.221781856	1.454211297
TPMT	-0.192413047	0.221792061	-1.454145471
TIGD4	-0.192358349	0.221949173	-1.45371621

CNPY4	0.192342175	0.22198409	1.45358928	
OSTCL	0.192330479	0.222004799	1.453497495	
GBA	-0.192309591	0.222054682	-1.453333579	
OAZ2	-0.192303947	0.222056188	-1.453289284	
C6orf129	0.192262924	0.22217	1.452967364	
SLC9A4	-0.192242622	0.222218049	-1.452808046	
NUDCD1	-0.192186105	0.222381139	-1.45236456	
RPN2	-0.192164355	0.222433817	-1.45219389	
HLA-DOA	0.192156242	0.222443166	1.45213023	
HBB	0.192071226	0.222696991	1.451463144	
CNTNAP1	0.192038637	0.222784198	1.451207439	yes
FAM96B	-0.192030982	0.222792096	-1.451147378	
KRTAP13-2	0.192006427	0.222837307	1.450954717	
FLJ42102	0.192007332	0.222837307	1.450961819	
SUDS3	-0.191970731	0.222934434	-1.45067465	
UBE2MP1	0.191956738	0.222962507	1.450564864	
TIAM1	-0.191923552	0.223051682	-1.450304492	
TSPAN18	0.19190143	0.223105647	1.450130931	
C22orf29	0.191844818	0.223269479	1.449686788	
LOC147645	0.191769092	0.223494327	1.449092705	
POU2AF1	0.191750217	0.223538008	1.448944637	
FBXL12	0.191719227	0.223620335	1.448701522	
ATG16L2	0.191699524	0.223666675	1.448546958	
SLC16A14	0.191692478	0.223672645	1.448491687	
GZMK	0.191634598	0.223840809	1.448037648	
SERPINB6	-0.191589276	0.223968961	-1.447682134	
NBPF4	0.191546944	0.224076345	1.447350083	
C11orf65	-0.191545297	0.224076345	-1.447337166	
KRT39	0.191513962	0.224159903	1.447091379	
C11orf63	-0.191470579	0.224281984	-1.446751093	
ANKRD22	-0.191452567	0.224307958	-1.446609822	
IGLV9-49	0.1914521	0.224307958	1.446606155	
PPA2	-0.191431875	0.22434537	-1.446447524	

OR2L8	0.191430044	0.22434537	1.446433158
LRIT3	0.191423957	0.224348285	1.446385417
CALCOCO2	-0.191388511	0.22444505	-1.446107407
RG9MTD1	-0.191368128	0.224493675	-1.445947539
ZNF396	-0.191323229	0.22462072	-1.445595398
SPRED1	-0.191266278	0.22476982	-1.445148745
MAGEB4	0.191269726	0.22476982	1.445175792
SEC24D	-0.191252251	0.224798145	-1.445038742
ZNF606	-0.191211383	0.2249124	-1.444718236
PGAM4	0.191135874	0.225137664	1.444126079
NCF4	0.191084854	0.225284577	1.443725987
PTPDC1	0.191052763	0.225370857	1.44347434
BSCL2	-0.191046359	0.225374787	-1.443424123
PTP4A1	-0.19094089	0.225696514	-1.442597109
SCN11A	0.190838915	0.226007343	1.44179754
EXOSC10	-0.190816528	0.226062627	-1.441622013
C1orf190	0.190781336	0.226159074	1.441346096
CENPF	-0.1907202	0.226319065	-1.440866777
FAM171B	0.190716028	0.226319065	1.440834069
PCDHB4	-0.190718083	0.226319065	-1.440850181
NT5E	-0.19066658	0.226461448	-1.440446398
PTPRT	-0.190652085	0.226491412	-1.440332759
ADI1	-0.190478145	0.227034856	-1.438969186
CPB1	0.190440541	0.22713936	1.43867442
KCTD2	0.190430207	0.227155959	1.438593416
ATP6V0C	-0.190354693	0.227367815	-1.438001495
PKNOX1	-0.19035415	0.227367815	-1.43799724
LOC100127980	-0.190297363	0.227534342	-1.437552128
MRPS2	0.190201322	0.227827754	1.436799377
CC2D1B	0.190168516	0.227917001	1.436542256
ODF2	-0.190157328	0.227936391	-1.43645457
GPRASP2	0.190143153	0.227965437	1.436343478
NECAP1	-0.190123752	0.227994612	-1.43619142

CHST6	-0.19012576	0.227994612	-1.436207157
ACO1	-0.190112307	0.228014837	-1.436101728
MEF2D	0.190087218	0.228079179	1.435905096
NMBR	0.190062626	0.228141921	1.43571237
PANK4	0.190007153	0.228304574	1.435277637
UBE2J2	0.189995724	0.228324765	1.435188072
PPPDE2	0.189961105	0.228420005	1.434916776
KRT76	0.189867278	0.228707016	1.434181514
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CTDP1	0.189838835	0.228765534	1.433958636
AFG3L1	0.18980733	0.228850804	1.433711768
MGP	0.189797008	0.228867436	1.433630887
EIF3F	-0.18978928	0.228875663	-1.433570332
CATSPER2	-0.189781192	0.228885056	-1.433506959
SNORA44	0.189764303	0.228922977	1.433374618
MTIF3	-0.189738348	0.22899029	-1.433171249
MRPL42P5	-0.189730499	0.228998912	-1.433109748
DEAF1	0.189715283	0.229031419	1.432990526
LOC100128175	0.189668197	0.229167287	1.432621591
FGF12	0.189657802	0.229169644	1.432540147
SLC17A9	0.189657091	0.229169644	1.432534578
TMEM30B	-0.189636595	0.229202465	-1.432373987
LCE2C	0.189640533	0.229202465	1.432404846
ZNF48	0.18962872	0.229211176	1.432312291
DHRS3	-0.189580535	0.229350674	-1.431934767
KLHL29	0.189563315	0.22938972	1.431799847
OSBPL10	0.189542628	0.229440022	1.431637773
CREB3L4	0.189446025	0.229736879	1.430880954
CHD2	-0.189407446	0.229845374	-1.430578721
TAAR1	0.189386583	0.22987944	1.430415284
COX18	-0.189389626	0.22987944	-1.430439123
ZFPM2	0.18936713	0.229925799	1.430262894
EVC	0.189345285	0.229979941	1.430091767

CHAF1A	0.18931845	0.230050319	1.429881548
DENND5B	0.189106788	0.230722439	1.428223587
LOC128192	0.189083133	0.230775397	1.428038313
LOC134505	0.189080149	0.230775397	1.428014939
CREBL2	-0.189064076	0.230810854	-1.427889051
IL7	-0.189034125	0.230891559	-1.427654464
TMC7	-0.189026743	0.230898692	-1.427596645
OR6B2	0.189011989	0.230929863	1.427481086
LOC100128279	0.189005154	0.230935212	1.427427556
C1orf38	0.188950289	0.231097208	1.426997851
RBM9	-0.188918559	0.231166833	-1.426749348
CCNK	-0.188918709	0.231166833	-1.426750525
AFARP1	0.188859448	0.231342793	1.426286423
HLA-G	0.188840963	0.231386183	1.426141653
EPHX2	-0.188791278	0.231531469	-1.42575256
CRYZ	-0.188785623	0.231532969	-1.425708277
VPS18	0.188734171	0.231684092	1.425305354
NRBP1	-0.188726076	0.231693564	-1.425241969
C8orf45	-0.18871688	0.231706638	-1.425169953
SFXN3	-0.188705324	0.231727424	-1.425079461
PDGFRB	0.18868351	0.231781737	1.424908645
FAM108C1	0.188656485	0.231836114	1.424697019
C15orf5	-0.188659023	0.231836114	-1.4247169
SCN8A	0.188611869	0.231965003	1.424347662
SPAG8	-0.188588364	0.232024884	-1.424163612
ZC3H12C	-0.188557427	0.232109091	-1.423921369
KRTAP13-4	0.188510195	0.232246645	1.423551546
DOC2A	0.188481458	0.232323702	1.42332654
LOC153684	-0.188471053	0.232340751	-1.423245078
RANBP17	-0.188440716	0.232406051	-1.42300755
C3orf15	-0.188441933	0.232406051	-1.423017075
CORO1C	-0.188418412	0.232462073	-1.422832921
FUT8	-0.18838389	0.232558124	-1.42256264

P2RY14	0.188374268	0.232572621	1.422487307
ZMYM3	-0.188366333	0.232581594	-1.422425178
RSU1	-0.188355953	0.232598576	-1.422343912
CCDC36	0.188327225	0.232675678	1.422118997
LOC100133327	0.188319156	0.23268509	1.422055829
TRIM45	-0.188229137	0.23296316	-1.421351089
PLEK	0.188214179	0.232995173	1.42123399
MORN5	-0.188201589	0.23301942	-1.421135431
CCDC19	-0.188175122	0.233089194	-1.420928241
EHD1	0.188169923	0.2330892	1.420887541
BDH2	-0.188150081	0.23313725	-1.42073221
PPP1R2	-0.188137592	0.233144124	-1.420634447
ZNF692	0.18813779	0.233144124	1.420635998
RFTN2	0.188126626	0.233163055	1.420548604
TMEFF1	0.188102833	0.233224081	1.420362349
SURF6	0.188092223	0.233241847	1.420279295
IGKC	0.188034364	0.233414724	1.419826389
RNF5P1	0.188013884	0.23346491	1.419666083
AKR1C1	-0.187998106	0.23349966	-1.419542581
LOC100129828	0.187987714	0.233516724	1.419461238
OR2F2	0.187980736	0.233522577	1.419406612
RPLP0	-0.187948476	0.233611475	-1.419154109
SLC9A2	-0.187927812	0.233662295	-1.418992363
CST4	0.187897919	0.233743449	1.418758393
SNORD113-3	0.187854986	0.233867494	1.418422356
ARFRP1	0.187842347	0.233891963	1.41832343
GPX2	-0.187811454	0.233976457	-1.418081645
SLC4A8	-0.187797188	0.234006284	-1.417969988
ZNF574	-0.187753944	0.234131443	-1.417631538
UHRF1BP1	-0.18774298	0.234150414	-1.417545736
FAM161A	-0.187733943	0.234163047	-1.41747501
TCF20	0.187690918	0.234287539	1.417138288
BGN	0.187667221	0.234348439	1.416952829

TOX3	0.187657597	0.23436301	1.416877513
MAGIX	0.187626463	0.234448411	1.416633861
ANO8	0.187574251	0.23458614	1.416225274
CD44	-0.187574663	0.23458614	-1.416228494
RFPL2	0.187560821	0.234613261	1.416120174
ATRNL1	0.187548106	0.23463381	1.416020675
RAD18	-0.187544188	0.23463381	-1.415990012
TMEM141	0.18749571	0.234776436	1.415610657
PPAPDC1B	-0.187435618	0.234957422	-1.415140432
ZNF282	0.187390208	0.235090057	1.414785115
KITLG	-0.187218184	0.235627434	-1.413439138
KIRREL	0.187215007	0.235627434	1.413414284
LOC100133438	0.187211858	0.235627434	1.413389647
LOC143188	0.187165892	0.235752591	1.413030015
KLF11	0.187163587	0.235752591	1.413011983
MOSC1	0.187149897	0.23578065	1.412904879
MCM3	-0.187138014	0.235802736	-1.412811915
NHP2L1	-0.187120002	0.235845092	-1.412670993
SLC38A2	-0.187106558	0.235855145	-1.412565817
CDC45L	0.187109006	0.235855145	1.412584968
DZIP1L	-0.187088991	0.235878835	-1.412428384
GRAMD1B	-0.187091936	0.235878835	-1.412451424
PGBD3	-0.18706735	0.235915999	-1.412259083
PER1	0.187071192	0.235915999	1.412289133
CXXC1	0.187016858	0.236065803	1.411864076
NSMCE4A	-0.186948608	0.236274451	-1.411330168
PALMD	-0.186933622	0.236306842	-1.411212933
RNU2-2	0.186922529	0.236320315	1.411126157
MPP1	0.186919149	0.236320315	1.411099715
KRTAP5-3	0.186842055	0.236558407	1.410496663
OR6C3	0.186831246	0.236576983	1.410412109
SFMBT2	0.186825428	0.236579022	1.410366601
LY6G6C	0.186807158	0.23662232	1.41022369

DYNLRB1	-0.186792042	0.236655169	-1.410105454
APOC1	0.186782739	0.236668761	1.410032681
LOC100133353	0.18674451	0.236778224	1.40973366
MRPS33	-0.186698482	0.236913581	-1.409373651
PFKFB3	-0.186651767	0.237051274	-1.409008266
SLC25A35	0.186601625	0.237200392	1.408616096
C1orf93	0.186568748	0.237292252	1.408358961
GREM1	0.186521476	0.237431939	1.407989257
WIPF2	0.186504516	0.237470983	1.407856618
ADCK5	0.186445699	0.237649108	1.407396638
NOC4L	0.186406431	0.237762328	1.407089549
C1orf113	0.186375816	0.23784681	1.406850134
SLC30A1	-0.186358485	0.237879001	-1.406714601
C1orf158	-0.186355724	0.237879001	-1.406693011
GPR146	0.18630513	0.237977732	1.406297369
IQCD	-0.186300011	0.237977732	-1.406257341
SIN3B	0.186306218	0.237977732	1.406305878
PPAT	-0.186304294	0.237977732	-1.406290832
LOC728175	-0.186301261	0.237977732	-1.406267114
FAHD2B	0.186283069	0.238001606	1.406124863
LOC360030	0.186282424	0.238001606	1.406119816
CDH29	-0.186264471	0.238044011	-1.405979435
CTSL2	-0.186196272	0.238253637	-1.405446152
PDZRN3	0.186173438	0.238312321	1.405267609
PABPC1L	0.186150769	0.238370466	1.405090355
FECH	-0.186105524	0.238503812	-1.404736589
GPX3	0.186047551	0.238679629	1.404283309
SPTAN1	-0.18598247	0.238879234	-1.403774478
MRPL13	-0.185897579	0.23913592	-1.403110789
C12orf26	-0.18589511	0.23913592	-1.403091486
C13orf34	-0.185879794	0.239169654	-1.402971745
HNF1B	0.185791982	0.239445455	1.402285267
ALDH2	-0.185785837	0.23944858	-1.402237226

ACADL	0.185778629	0.239455254	1.402180881
ZNF322B	-0.185766974	0.239461988	-1.402089771
IFRD2	0.185766195	0.239461988	1.402083676
BHLHB9	0.185752181	0.239491399	1.401974126
ZMYND10	-0.185698204	0.239654344	-1.40155218
LAPTM4B	-0.185660123	0.239764218	-1.401254504
HIST1H4H	-0.18564756	0.239788801	-1.401156301
GAS8	-0.185608344	0.23988509	-1.400849756
PLEKHA8	0.18561337	0.23988509	1.400889041
C1orf91	-0.18556841	0.24000123	-1.400537611
CAPN5	-0.185544851	0.240062615	-1.400353468
RELL1	0.185530726	0.240092443	1.400243063
GAB1	-0.185501759	0.240154508	-1.400016647
EIF4E3	-0.185503008	0.240154508	-1.40002641
PCGF5	-0.185448362	0.240315803	-1.399599299
SNORA49	0.18543532	0.24032458	1.399497363
ILKAP	-0.185435421	0.24032458	-1.399498153
PLXNA2	-0.185394998	0.240442156	-1.399182217
HSH2D	0.185363617	0.240529819	1.39893695
SNORA2A	0.185289031	0.240762306	1.398354035
GPR34	0.18527488	0.240792274	1.398243443
NOP56	-0.185241951	0.240885211	-1.397986099
FERMT1	-0.185200603	0.241006409	-1.397662974
DAG1	-0.185025274	0.241577567	-1.396292885
GAB3	0.184981731	0.241688854	1.395952638
RPA4	0.184982113	0.241688854	1.395955626
STATH	0.184908657	0.241917024	1.395381665
FMO6P	-0.184898984	0.241932013	-1.395306087
LPAL2	0.184875655	0.241985617	1.395123811
C12orf52	0.184872617	0.241985617	1.395100068
RPS15AP17	0.184827202	0.242120875	1.39474523
FAM149A	-0.184752621	0.242354391	-1.394162536
BAZ1B	-0.184735685	0.242393855	-1.394030221

SNORD41	0.184693551	0.242500632	1.393701045
TACR1	0.184697065	0.242500632	1.393728497
PLUNC	0.184633557	0.242685222	1.393232346
MMP12	0.184604935	0.242728931	1.393008748
CCDC121	0.18460516	0.242728931	1.393010506
MICALL2	0.184609398	0.242728931	1.393043613
SCARA5	0.184591294	0.242757327	1.392902182
KCNH1	0.184564842	0.242828919	1.39269554
TOM1L2	-0.184418093	0.243218373	-1.391549195
ST6GALNAC4	0.184419362	0.243218373	1.391559103
LOC440957	-0.184430135	0.243218373	-1.391643257
PRKACA	0.184429544	0.243218373	1.391638641
FAM104A	-0.184425713	0.243218373	-1.391608714
CHMP7	-0.184436701	0.243218373	-1.391694549
ZFP37	-0.184412175	0.243220735	-1.391502964
CRYL1	0.184351221	0.243408917	1.391026845
CLDN17	0.184171901	0.243997407	1.389626253
ABHD11	-0.184157936	0.244026986	-1.389517183
ATP5EP2	-0.184109044	0.244174766	-1.389135338
FANCE	0.1840182	0.244446999	1.388425876
RPL37A	-0.184020885	0.244446999	-1.388446843
HYLS1	-0.184008261	0.244462974	-1.388348253
MAPK8IP3	0.183988564	0.244512004	1.388194432
TFCP2L1	0.183976006	0.244536854	1.388096361
CENPC1	-0.183969186	0.244542261	-1.388043106
SNX17	-0.183926472	0.244669308	-1.387709541
PTGDS	0.183882695	0.2448	1.387367688
PHB	-0.183875794	0.244805685	-1.387313799
ERBB2	-0.183862929	0.244831593	-1.38721334
CCL20	0.183855293	0.244839773	1.38715371
C15orf38	0.183844575	0.244858403	1.387070016
DCXR	0.183782447	0.245051412	1.386584887
LOC100133362	0.183758586	0.245114647	1.38639857

NRCAM	0.183616991	0.24557771	1.385292993
ERCC8	-0.183559486	0.245753872	-1.384844019
GPR161	0.183554706	0.245753872	1.384806697
SLC30A4	0.183547701	0.245759917	1.384752003
TCEAL8	0.18354161	0.245762854	1.384704449
PHF8	-0.183524091	0.245804644	-1.384567672
GPR125	-0.183471169	0.245966838	-1.384154503
UBQLN2	-0.183394552	0.24620975	-1.383556363
PLEKHH2	-0.183380403	0.246233928	-1.383445906
CIP29	0.183376992	0.246233928	1.383419279
DNAJB7	0.183363631	0.246261615	1.383314969
UNC5CL	0.183344815	0.246298117	1.383168088
C16orf58	0.183342452	0.246298117	1.38314964
KRT40	0.183330406	0.246303534	1.383055604
KCTD1	-0.183333391	0.246303534	-1.383078905
LOC729668	0.183302184	0.246381824	1.38283529
SNORD116-28	-0.183274785	0.246457327	-1.382621405
RAPGEF4	0.183227207	0.24660159	1.382250007
CPNE4	0.183195457	0.246691962	1.382002174
ZNF730	0.183148589	0.246833896	1.381636332
JAM2	0.183141801	0.246839211	1.381583351
IGF2BP3	-0.183096604	0.246975501	-1.381230563
FLT1	0.183082613	0.247005387	1.381121354
MGAT4A	-0.183064979	0.2470477	-1.380983717
SRD5A2	-0.183014752	0.247201226	-1.380591692
UBE2E2	-0.183001977	0.247226978	-1.380491981
PIGH	-0.182984993	0.247267095	-1.380359424
DLG3	-0.182969236	0.247303029	-1.380236443
LOC100128868	-0.18293195	0.247376761	-1.379945433
FRMPD2	-0.182932967	0.247376761	-1.379953374
OSBP	-0.182938153	0.247376761	-1.379993848
TBCB	-0.182914578	0.247418219	-1.379809852
VLDLR	-0.182887999	0.247491122	-1.379602418

SIRT3	0.182870406	0.247515489	1.379465114
C3orf25	-0.182875132	0.247515489	-1.379501994
LRP1B	0.182844273	0.247586888	1.379261161
SREBF1	0.18282463	0.247636125	1.379107865
PLXNB2	-0.182815601	0.247649109	-1.379037399
ZNF789	0.182804229	0.247670097	1.378948648
RTKL1	0.182789676	0.247701953	1.37883508
PTDSS2	0.182741685	0.247848089	1.378460559
PSMD3	-0.182671608	0.248069811	-1.377913704
COX19	-0.182651828	0.24811958	-1.377759349
SNORD116-2	0.182645416	0.248123622	1.377709315
CDCA7	0.182586892	0.24830597	1.377252631
ZNF221	-0.182551211	0.248410196	-1.376974214
GJB5	-0.182473545	0.248658254	-1.3763682
GRIA3	0.182465089	0.248669298	1.376302223
PRPF6	-0.182459467	0.248670638	-1.376258351
LOC729974	0.182400891	0.248853426	1.375801321
WHSC2	0.182380286	0.248888185	1.375640555
THAP9	-0.182382162	0.248888185	-1.375655191
THSD4	0.182358444	0.248945123	1.37547014
PLCD4	0.182338846	0.248994377	1.375317233
RPS6	-0.182311904	0.24906882	-1.375107033
NKX6-3	0.182260837	0.249226037	1.374708618
C2orf39	-0.182208789	0.249386688	-1.374302558
PRPF40B	0.182116227	0.249686559	1.373580457
CARD6	-0.182109832	0.249690543	-1.373530573
FLG	0.182096927	0.249716895	1.373429897
SYCP2	-0.182062706	0.249808396	-1.373162942
TUBG1	-0.182059827	0.249808396	-1.373140483
FGG	0.182016098	0.249940696	1.372799365
RASGRP1	-0.181999358	0.249980246	-1.372668783

Table S7: CMH-associated mRNAs in the microarray dataset that were core-enriched in the ranked list of the RNA-seq dataset

gene	gene ID	mRNAs higher expressed with CMH that were positively core-enriched in the ranked list		mRNAs lower expressed with CMH that were negatively core-enriched in the ranked list	
		definition A	definition B	definition A	definition B
AIG1	ENSG00000146416	yes	no	no	no
LRRC8B	ENSG00000197147	yes	yes	no	no
ROD1	ENSG00000119314	yes	yes	no	no
OSBPL3	ENSG00000070882	yes	no	no	no
RC3H1	ENSG00000135870	yes	yes	no	no
RQCD1	ENSG00000144580	no	no	no	no
LIAS	ENSG00000121897	yes	yes	no	no
USP46	ENSG00000109189	yes	yes	no	no
MTF1	ENSG00000188786	yes	no	no	no
CSNK1A1	ENSG00000113712	yes	yes	no	no
ZDHHC13	ENSG00000177054	yes	yes	no	no
MARVELD2	ENSG00000274671	no	no	no	no
FAM60A	ENSG00000139146	yes	yes	no	no
NEBL	ENSG00000078114	yes	yes	no	no
HNRNPF	ENSG00000169813	yes	no	no	no
WDR45L	ENSG00000141580	yes	no	no	no
ADAT1	ENSG00000065457	yes	yes	no	no
SRI	ENSG00000075142	yes	no	no	no
SS18	ENSG00000141380	yes	no	no	no
TTC39C	ENSG00000168234	no	no	no	no
LRBA	ENSG00000198589	yes	yes	no	no
WDR51B	ENSG00000139323	yes	yes	no	no
TMEM14B	ENSG00000137210	yes	no	no	no
KATNA1	ENSG00000186625	no	no	no	no
NFX1	ENSG00000086102	no	no	no	no
GTF2E2	ENSG00000197265	yes	yes	no	no
USP6NL	ENSG00000148429	yes	yes	no	no
POLR2H	ENSG00000163882	yes	no	no	no

AZIN1	ENSG00000155096	yes	no	no	no
FANCF	ENSG00000183161	yes	no	no	no
DYRK1A	ENSG00000157540	yes	yes	no	no
C3orf52	ENSG00000114529	yes	no	no	no
SAT1	ENSG00000130066	yes	no	no	no
IDH3A	ENSG00000166411	yes	yes	no	no
PRDM4	ENSG00000110851	yes	yes	no	no
B3GNT5	ENSG00000176597	yes	no	no	no
FLJ11506	ENSG00000103591	yes	yes	no	no
INPP4B	ENSG00000109452	yes	yes	no	no
CSNK2A1	ENSG00000101266	yes	yes	no	no
RAB28	ENSG00000157869	yes	no	no	no
KIAA0232	ENSG00000170871	yes	no	no	no
C11orf30	ENSG00000158636	yes	yes	no	no
COMMD2	ENSG00000114744	yes	no	no	no
SNX24	ENSG00000064652	no	no	no	no
MRP63	ENSG00000173141	yes	yes	no	no
NUP153	ENSG00000124789	no	yes	no	no
WDR33	ENSG00000136709	yes	yes	no	no
GFM2	ENSG00000164347	yes	no	no	no
SMG7	ENSG00000116698	no	no	no	no
LOC100133333	N.A.	N.A.	N.A.	N.A.	N.A.
CXorf39	ENSG00000123575	yes	yes	no	no
C17orf75	ENSG00000108666	no	no	no	no
H2AFY	ENSG00000113648	yes	yes	no	no
LARP5	ENSG00000107929	yes	no	no	no
MAP3K7IP3	ENSG00000157625	yes	yes	no	no
MAL2	ENSG00000147676	yes	yes	no	no
DNAJC16	ENSG00000116138	no	no	no	no
CDS1	ENSG00000163624	yes	no	no	no
PPP4R1	ENSG00000154845	yes	yes	no	no
LCOR	ENSG00000196233	yes	yes	no	no
DAPP1	ENSG00000070190	yes	no	no	no

DAZAP2	ENSG00000183283	no	no	no	no
SEMA3A	ENSG00000075213	yes	yes	no	no
TRIM37	ENSG00000108395	no	no	no	no
UBL3	ENSG00000122042	yes	yes	no	no
PGM2L1	ENSG00000165434	yes	no	no	no
CSTB	ENSG00000160213	yes	yes	no	no
CNOT7	ENSG00000198791	yes	yes	no	no
MRPS21	ENSG00000266472	yes	no	no	no
ERLIN1	ENSG00000107566	yes	yes	no	no
LOC100133422	N.A.	N.A.	N.A.	N.A.	N.A.
AMPD3	ENSG00000133805	yes	no	no	no
EIF5	ENSG00000100664	yes	yes	no	no
MUC15	ENSG00000169550	yes	no	no	no
TC2N	ENSG00000165929	yes	yes	no	no
MRPS31	ENSG00000102738	yes	no	no	no
USP42	ENSG00000106346	yes	no	no	no
PEX13	ENSG00000162928	yes	yes	no	no
PIGU	ENSG00000101464	yes	yes	no	no
DPY30	ENSG00000162961	yes	no	no	no
KIAA1279	ENSG00000198954	yes	yes	no	no
CAST	ENSG00000153113	yes	yes	no	no
C10orf57	ENSG00000133678	yes	no	no	no
TRIM2	ENSG00000109654	yes	no	no	no
LGALS3	ENSG00000131981	yes	yes	no	no
RAB2B	ENSG00000129472	no	yes	no	no
C9orf6	ENSG00000119328	yes	no	no	no
DAP3	ENSG00000132676	no	yes	no	no
IPMK	ENSG00000151151	yes	yes	no	no
ELF1	ENSG00000120690	yes	yes	no	no
IMPA1	ENSG00000133731	yes	yes	no	no
DOPEY1	ENSG00000083097	no	yes	no	no
TDP1	ENSG00000042088	yes	no	no	no
UTX	ENSG00000147050	no	yes	no	no

FYTTD1	ENSG00000122068	yes	yes	no	no
ZNF410	ENSG00000119725	yes	yes	no	no
IPP	ENSG00000197429	yes	no	no	no
CHD7	ENSG00000171316	no	no	no	no
METTL5	ENSG00000138382	yes	yes	no	no
MIS12	ENSG00000167842	no	no	no	no
TMEM154	ENSG00000170006	yes	yes	no	no
RPP40	ENSG00000124787	yes	yes	no	no
STAM2	ENSG00000115145	yes	yes	no	no
TAX1BP1	ENSG00000106052	yes	yes	no	no
USP10	ENSG00000103194	no	no	no	no
OXNAD1	ENSG00000154814	yes	no	no	no
ABHD6	ENSG00000163686	yes	no	no	no
CBFB	ENSG00000067955	yes	yes	no	no
EPS8	ENSG00000151491	yes	yes	no	no
VAPA	ENSG00000101558	yes	yes	no	no
DNAJA4	ENSG00000140403	yes	no	no	no
C10orf46	ENSG00000151893	yes	yes	no	no
KRAS	ENSG00000133703	yes	yes	no	no
CCDC109A	ENSG00000156026	yes	yes	no	no
ANK3	ENSG00000151150	no	no	no	no
LZTFL1	ENSG00000163818	yes	no	no	no
MSL3	ENSG00000005302	yes	no	no	no
TAF5L	ENSG00000135801	no	yes	no	no
PCSK5	ENSG00000099139	yes	no	no	no
PARD6B	ENSG00000124171	yes	no	no	no
TOMM34	ENSG00000025772	yes	no	no	no
WDR26	ENSG00000162923	yes	yes	no	no
VDAC3	ENSG00000078668	yes	no	no	no
RTCD1	ENSG00000137996	yes	yes	no	no
C1orf25	ENSG00000121486	yes	no	no	no
CBLB	ENSG00000114423	yes	yes	no	no
HIPK3	ENSG00000110422	yes	yes	no	no

PLAC8	ENSG00000145287	yes	no	no	no
GLIPR2	ENSG00000122694	yes	no	no	no
FAM149B1	ENSG00000138286	yes	no	no	no
KIAA1012	ENSG00000153339	yes	yes	no	no
BTBD9	ENSG00000183826	yes	no	no	no
PSD3	ENSG00000156011	yes	yes	no	no
MRPL39	ENSG00000154719	yes	yes	no	no
KIAA2018	ENSG00000176542	yes	yes	no	no
TDRD7	ENSG00000196116	yes	yes	no	no
SLC15A2	ENSG00000163406	yes	no	no	no
RALGPS2	ENSG00000116191	yes	yes	no	no
ATXN2	ENSG00000204842	no	no	no	no
ANXA2	ENSG00000182718	yes	yes	no	no
SOD1	ENSG00000142168	yes	no	no	no
SFMBT1	ENSG00000163935	yes	yes	no	no
MRPS10	ENSG00000048544	yes	yes	no	no
QRSL1	ENSG00000130348	yes	yes	no	no
USP9Y	ENSG00000114374	yes	no	no	no
ALPK1	ENSG00000073331	no	no	no	no
USP38	ENSG00000170185	yes	yes	no	no
RP2	ENSG00000102218	no	yes	no	no
C1orf110	ENSG00000185860	yes	no	no	no
MOCS3	ENSG00000124217	no	no	no	no
JHDM1D	ENSG00000006459	yes	yes	no	no
KIAA0317	ENSG00000119682	no	yes	no	no
KIAA1468	ENSG00000134444	yes	yes	no	no
RNF2	ENSG00000121481	yes	yes	no	no
CCNY	ENSG00000108100	no	no	no	no
ASCC1	ENSG00000138303	no	no	no	no
MYB	ENSG00000118513	yes	no	no	no
ZNF823	ENSG00000197933	no	yes	no	no
ASXL2	ENSG00000143970	yes	yes	no	no
STRBP	ENSG00000165209	yes	no	no	no

IKZF2	ENSG00000030419	yes	yes	no	no
DLAT	ENSG00000150768	yes	yes	no	no
EZR	ENSG00000092820	yes	no	no	no
RNF6	ENSG00000127870	yes	yes	no	no
EIF4G2	ENSG00000110321	no	yes	no	no
TRIP4	ENSG00000103671	no	no	no	no
PIGF	ENSG00000151665	yes	yes	no	no
ZNF33B	ENSG00000196693	yes	yes	no	no
SKP2	ENSG00000145604	yes	no	no	no
OMA1	ENSG00000162600	yes	no	no	no
MED6	ENSG00000133997	yes	yes	no	no
PBRM1	ENSG00000163939	no	yes	no	no
ADIPOR1	ENSG00000159346	no	no	no	no
ECHDC1	ENSG00000093144	yes	yes	no	no
N4BP1	ENSG00000102921	yes	yes	no	no
THRAP3	ENSG00000054118	no	no	no	no
WDR47	ENSG00000085433	yes	no	no	no
VTA1	ENSG00000009844	yes	yes	no	no
HECTD1	ENSG00000092148	yes	yes	no	no
TMEM131	ENSG00000075568	yes	no	no	no
NUFIP2	ENSG00000108256	yes	yes	no	no
DHRS9	ENSG00000073737	yes	yes	no	no
CNOT1	ENSG00000125107	yes	yes	no	no
TTC39B	ENSG00000155158	yes	yes	no	no
GOLPH3L	ENSG00000143457	yes	yes	no	no
C2orf86	ENSG00000143951	yes	no	no	no
CCDC138	ENSG00000163006	yes	no	no	no
YWHAE	ENSG00000108953	yes	yes	no	no
HSPA4L	ENSG00000164070	yes	yes	no	no
HSBP1	ENSG00000230989	yes	yes	no	no
INADL	ENSG00000132849	no	yes	no	no
RICS	ENSG00000134909	yes	yes	no	no
AFTPH	ENSG00000119844	yes	yes	no	no

GCLC	ENSG0000001084	yes	yes	no	no
CBL1	ENSG00000105879	yes	yes	no	no
TMEM220	ENSG00000187824	yes	no	no	no
NQO1	ENSG00000181019	yes	yes	no	no
ABI1	ENSG00000136754	yes	yes	no	no
RAB11A	ENSG00000103769	yes	yes	no	no
CHMP5	ENSG00000086065	yes	yes	no	no
NUPL1	ENSG00000139496	yes	yes	no	no
APTX	ENSG00000137074	no	yes	no	no
MLLT4	ENSG00000130396	no	no	no	no
MUDENG	ENSG00000053770	yes	yes	no	no
TMOD3	ENSG00000138594	yes	yes	no	no
FRK	ENSG00000111816	yes	yes	no	no
MAK10	ENSG00000135040	yes	yes	no	no
ZNF607	ENSG00000198182	yes	no	no	no
IFT52	ENSG00000101052	yes	no	no	no
ARID2	ENSG00000189079	yes	yes	no	no
SEC23IP	ENSG00000107651	no	yes	no	no
TGFA	ENSG00000163235	yes	yes	no	no
EV11	ENSG00000085276	yes	yes	no	no
PDIK1L	ENSG00000175087	yes	yes	no	no
TET2	ENSG00000168769	yes	yes	no	no
BTBD1	ENSG00000064726	yes	yes	no	no
PTGR1	ENSG00000106853	yes	yes	no	no
RMND5A	ENSG00000153561	yes	yes	no	no
IVNS1ABP	ENSG00000116679	yes	yes	no	no
HEBP2	ENSG00000051620	yes	yes	no	no
KLHDC10	ENSG00000128607	no	no	no	no
TRIP13	ENSG00000071539	yes	no	no	no
BAZ1A	ENSG00000198604	yes	yes	no	no
TTC9C	ENSG00000162222	no	yes	no	no
CHMP2B	ENSG00000083937	yes	yes	no	no
ZNF398	ENSG00000197024	no	yes	no	no

POLR1C	ENSG00000171453	no	yes	no	no
BRP44	ENSG00000143158	yes	no	no	no
S100A11	ENSG00000163191	yes	yes	no	no
LOC552889	N.A.	N.A.	N.A.	N.A.	N.A.
MORF4L2	ENSG00000123562	no	yes	no	no
EXPH5	ENSG00000110723	yes	yes	no	no
LASS6	ENSG00000172292	yes	yes	no	no
ZNF561	ENSG00000171469	yes	yes	no	no
NBEAL1	ENSG00000144426	yes	yes	no	no
HCCS	ENSG00000004961	no	yes	no	no
BAIAP2L1	ENSG00000006453	no	no	no	no
ANXA4	ENSG00000196975	yes	no	no	no
SGMS2	ENSG00000164023	yes	yes	no	no
EIF4G3	ENSG00000075151	no	no	no	no
FBXO28	ENSG00000143756	yes	yes	no	no
CNOT6	ENSG00000113300	yes	yes	no	no
DHX32	ENSG00000089876	no	no	no	no
CLIP1	ENSG00000130779	yes	yes	no	no
SAPS3	ENSG00000110075	yes	yes	no	no
POLR3C	ENSG00000186141	no	yes	no	no
OTUD4	ENSG00000164164	yes	no	no	no
ANXA2P2	ENSG00000231991	no	yes	no	no
SPAG1	ENSG00000104450	yes	no	no	no
TLE4	ENSG00000106829	no	no	no	no
TTLL5	ENSG00000119685	yes	no	no	no
PRKAR2A	ENSG00000114302	no	yes	no	no
NEK4	ENSG00000114904	yes	no	no	no
SLMO2	ENSG00000101166	yes	yes	no	no
GSK3B	ENSG00000082701	yes	yes	no	no
ZNF507	ENSG00000168813	no	yes	no	no
DDX3X	ENSG00000215301	yes	yes	no	no
SECISBP2	ENSG00000187742	yes	no	no	no
PAPOLA	ENSG00000090060	yes	yes	no	no

MYO6	ENSG00000196586	yes	yes	no	no
PDCD6IP	ENSG00000170248	yes	yes	no	no
VRK2	ENSG00000028116	yes	yes	no	no
C1orf58	ENSG00000162819	yes	yes	no	no
NXT2	ENSG00000101888	yes	yes	no	no
TESC	ENSG00000088992	no	no	yes	no
ZNF775	ENSG00000196456	no	no	no	no
ADAD2	ENSG00000140955	no	no	no	no
MRGPRF	ENSG00000172935	no	no	yes	yes
VASN	ENSG00000274334	no	no	no	no
PLXND1	ENSG00000004399	no	no	yes	yes
NAPSA	ENSG00000131400	no	no	no	no
C1QTNF5	ENSG00000223953	no	no	no	no
LOC100132755	N.A.	N.A.	N.A.	N.A.	N.A.
FAM70B	ENSG00000184497	no	no	yes	yes
PARVB	ENSG00000188677	no	no	no	yes
SLC26A3	ENSG00000091138	no	no	no	no
INMT	ENSG00000241644	no	no	no	yes
CDR2L	ENSG00000109089	no	no	no	no
MYO7B	ENSG00000169994	no	no	no	no
PTGER1	ENSG00000160951	no	no	no	no
GPR124	ENSG00000020181	no	no	no	yes
EXD3	ENSG00000187609	no	no	no	yes
EMILIN3	ENSG00000183798	no	no	no	no
NRTN	ENSG00000171119	no	no	no	no
LCN10	ENSG00000187922	no	no	no	no
TAL1	ENSG00000162367	no	no	yes	yes
TMEM38A	ENSG00000072954	no	no	yes	yes
GNB5	ENSG00000069966	no	no	no	no
FLJ42957	N.A.	N.A.	N.A.	N.A.	N.A.
FAM9C	ENSG00000187268	no	no	no	no
LPAR4	ENSG00000147145	no	no	no	no
LOC100133397	N.A.	N.A.	N.A.	N.A.	N.A.

NFATC4	ENSG00000100968	no	no	no	yes
TUBB6	ENSG00000176014	no	no	no	no
PTMS	ENSG00000159335	no	no	yes	no
FAM69B	ENSG00000165716	no	no	yes	yes
KLHL34	ENSG00000185915	no	no	no	no
NUP210L	ENSG00000143552	no	no	yes	yes
NPFFR1	ENSG00000148734	no	no	no	no
SNORD114-3	ENSG00000201839	no	no	no	no
SH3BP2	ENSG00000087266	no	no	yes	no
C11orf20	ENSG00000219435	no	no	no	no
GDNF	ENSG00000168621	no	no	no	no
IL2RA	ENSG00000134460	no	no	no	yes
FEZ1	ENSG00000149557	no	no	yes	no
DSCR6	ENSG00000183145	no	no	no	no
PCBP4	ENSG00000090097	no	no	yes	yes
EBF3	ENSG00000108001	no	no	yes	yes
SNORD116-25	ENSG00000252326	no	no	no	no
SRY	ENSG00000184895	no	no	no	no
CHRD	ENSG00000090539	no	no	yes	yes
TTYH1	ENSG00000167614	no	no	yes	yes
LRRN3	ENSG00000173114	no	no	no	yes
SEMA3G	ENSG00000010319	no	no	yes	yes
DHH	ENSG00000139549	no	no	no	no
ZNF358	ENSG00000198816	no	no	yes	yes
RCOR2	ENSG00000167771	no	no	no	no
FAM43A	ENSG00000185112	no	no	no	no
SMTN	ENSG00000183963	no	no	yes	yes
TNFRSF18	ENSG00000186891	no	no	no	no
ROBO4	ENSG00000154133	no	no	yes	yes
SLC45A1	ENSG00000162426	no	no	no	no
UAP1L1	ENSG00000197355	no	no	yes	yes
IRF2BP1	ENSG00000170604	no	no	no	no
FBXO43	ENSG00000156509	no	no	yes	yes

PKHD1L1	ENSG00000205038	no	no	no	no
SPNS2	ENSG00000183018	no	no	no	no
CCDC50	ENSG00000152492	no	no	no	no
SPTB	ENSG00000070182	no	no	yes	yes
COL6A1	ENSG00000142156	no	no	yes	yes
SERPINA3	ENSG00000196136	no	no	yes	no
EGFL7	ENSG00000172889	no	no	yes	yes
LOC100133142	N.A.	N.A.	N.A.	N.A.	N.A.
HEXDC	ENSG00000169660	no	no	yes	yes
UNC45B	ENSG00000141161	no	no	yes	yes
KLHL4	ENSG00000102271	no	no	no	yes
SPSB4	ENSG00000175093	no	no	no	no
EBF1	ENSG00000164330	no	no	yes	yes
LOC100130518	N.A.	N.A.	N.A.	N.A.	N.A.
SNTA1	ENSG00000101400	no	no	yes	no
C9orf4	ENSG00000260230	no	no	no	yes
DAAM2	ENSG00000146122	no	no	yes	yes
HSD17B14	ENSG00000087076	no	no	no	yes
SCARNA4	ENSG00000281516	no	no	no	no
DBN1	ENSG00000113758	no	no	yes	no
ACTRT2	ENSG00000169717	no	no	no	no
PLVAP	ENSG00000130300	no	no	yes	yes
MRC2	ENSG00000011028	no	no	yes	yes
SGK493	ENSG00000162878	no	no	yes	yes
FLJ46838	N.A.	N.A.	N.A.	N.A.	N.A.
GRASP	ENSG00000161835	no	no	yes	yes
MN1	ENSG00000169184	no	no	no	yes
GEFT	ENSG00000240771	no	no	yes	yes
EFEMP2	ENSG00000172638	no	no	yes	yes
PCP2	ENSG00000174788	no	no	no	no
MPP2	ENSG00000108852	no	no	no	yes
CLEC14A	ENSG00000176435	no	no	yes	yes
EDA	ENSG00000158813	no	no	yes	yes

ENPEP	ENSG00000138792	no	no	yes	no
GLI1	ENSG00000111087	no	no	yes	yes
CRTC1	ENSG00000105662	no	no	no	yes
SMARCD3	ENSG00000082014	no	no	yes	no
SLC17A7	ENSG00000104888	no	no	no	no
LOC124220	ENSG00000162078	no	no	yes	yes
CD22	ENSG00000012124	no	no	yes	yes
OPRK1	ENSG00000082556	no	no	no	no
FBXO44	ENSG00000132879	no	no	yes	yes
REN	ENSG00000143839	no	no	no	no
ProSAPiP1	ENSG00000088899	no	no	yes	yes
SNORA20	ENSG00000201660	no	no	no	no
GGTLC1	ENSG00000149435	no	no	no	no
LMCD1	ENSG00000071282	no	no	yes	no
NPPB	ENSG00000120937	no	no	no	no
SLC6A17	ENSG00000197106	no	no	yes	yes
KIAA0427	ENSG00000134030	no	no	yes	yes
KIAA1045	ENSG00000122733	no	no	no	no
ADAMTSL1	ENSG00000178031	no	no	yes	yes
PGF	ENSG00000119630	no	no	no	yes
RAPGEF3	ENSG00000079337	no	no	yes	yes
REXO1	ENSG00000079313	no	no	no	yes
GALNTL1	ENSG00000100626	no	no	yes	yes
NENF	ENSG00000117691	no	no	yes	no
ADRA2C	ENSG00000184160	no	no	no	no
NRGN	ENSG00000154146	no	no	no	no
TUBB2B	ENSG00000137285	no	no	no	no
TRIM54	ENSG00000138100	no	no	no	no
VWA1	ENSG00000179403	no	no	yes	yes
LRRC4B	ENSG00000131409	no	no	no	no
CLTCL1	ENSG00000070371	no	no	yes	no
RASL10B	ENSG00000270885	no	no	no	no
DLK2	ENSG00000171462	no	no	yes	yes

TMEM150	ENSG00000168890	no	no	yes	no
NPDC1	ENSG00000107281	no	no	yes	yes
CRH	ENSG00000147571	no	no	no	no
SLC26A10	ENSG00000135502	no	no	yes	yes
DGKG	ENSG00000058866	no	no	yes	yes
OR2B11	ENSG00000177535	no	no	no	no
PKN3	ENSG00000160447	no	no	no	yes
ART4	ENSG00000111339	no	no	no	no
METTL7B	ENSG00000170439	no	no	no	no
USHBP1	ENSG00000130307	no	no	yes	yes
RNASE1	ENSG00000129538	no	no	yes	no
CLEC11A	ENSG00000105472	no	no	no	yes
FAM65A	ENSG00000039523	no	no	yes	yes
ITGA7	ENSG00000135424	no	no	yes	yes
ADAMTS10	ENSG00000142303	no	no	yes	yes
GNAO1	ENSG00000087258	no	no	yes	yes
NFE2	ENSG00000123405	no	no	no	no
CLDN11	ENSG00000013297	no	no	yes	yes
BLOC1S3	ENSG00000189114	no	no	no	yes
A1BG	ENSG00000121410	no	no	no	no
ADCY1	ENSG00000164742	no	no	yes	yes
HAS1	ENSG00000105509	no	no	no	no
COL4A1	ENSG00000187498	no	no	yes	yes
HOXC12	ENSG00000123407	no	no	no	no
TGFB1I1	ENSG00000140682	no	no	yes	yes
ARL10	ENSG00000175414	no	no	no	no
JPH2	ENSG00000149596	no	no	yes	yes
C9orf142	ENSG00000148362	no	no	no	yes
CDX1	ENSG00000113722	no	no	no	no
EPHB1	ENSG00000154928	no	no	yes	yes
TRPV2	ENSG00000187688	no	no	no	yes
HOXD4	ENSG00000170166	no	no	no	no
FAM71A	ENSG00000162771	no	no	no	no

SPEG	ENSG00000072195	no	no	yes	yes
DLX2	ENSG00000115844	no	no	no	no
THY1	ENSG00000154096	no	no	yes	yes
MAP3K11	ENSG00000173327	no	no	no	yes
LCN6	ENSG00000267206	no	no	no	no
PITPNM2	ENSG00000090975	no	no	yes	no
SELM	ENSG00000198832	no	no	yes	yes
SEMA6B	ENSG00000167680	no	no	yes	yes
PTRF	ENSG00000177469	no	no	yes	yes
PDLIM7	ENSG00000196923	no	no	yes	yes
CLEC3B	ENSG00000163815	no	no	yes	yes
SPTA1	ENSG00000163554	no	no	no	no
GDF11	ENSG00000135414	no	no	yes	no
FBXO10	ENSG00000147912	no	no	yes	yes
HES3	ENSG00000173673	no	no	no	no
CRHBP	ENSG00000145708	no	no	no	no
HOXB6	ENSG00000108511	no	no	no	yes
RAMP1	ENSG00000132329	no	no	yes	yes
WFDC1	ENSG00000103175	no	no	yes	yes
RPL23AP71	ENSG00000237450	no	no	no	no
COL4A2	ENSG00000134871	no	no	yes	yes
ADRA1A	ENSG00000120907	no	no	yes	no
PNCK	ENSG00000130822	no	no	yes	yes
MAPK11	ENSG00000185386	no	no	yes	yes
FSTL3	ENSG00000070404	no	no	yes	no
DYSF	ENSG00000135636	no	no	yes	yes
CCDC9	ENSG00000105321	no	no	no	no
SETD1B	ENSG00000139718	no	no	no	yes
PLAC9	ENSG00000189129	no	no	yes	yes
PP13004	N.A.	N.A.	N.A.	N.A.	N.A.
SPHK1	ENSG00000176170	no	no	yes	no
SHROOM4	ENSG00000158352	no	no	yes	yes
PLXNB3	ENSG00000198753	no	no	yes	no

SNX15	ENSG00000110025	no	no	no	yes
C8orf82	ENSG00000213563	no	no	no	no
NME4	ENSG00000103202	no	no	yes	yes
GAL3ST4	ENSG00000197093	no	no	yes	yes
CARD10	ENSG00000100065	no	no	yes	yes
TBC1D4	ENSG00000136111	no	no	no	no
COPZ2	ENSG00000005243	no	no	yes	no
PLK5P	ENSG00000185988	no	no	no	no
GGT5	ENSG00000099998	no	no	yes	yes
LEPRE1	ENSG00000117385	no	no	no	no
SYDE1	ENSG00000105137	no	no	yes	yes
CDH23	ENSG00000107736	no	no	no	no
CCDC141	ENSG00000163492	no	no	no	yes
DPF3	ENSG00000205683	no	no	yes	no
C20orf160	ENSG00000101331	no	no	no	yes
COL8A2	ENSG00000171812	no	no	yes	yes
PPP1R12C	ENSG00000125503	no	no	yes	yes
FRAT1	ENSG00000165879	no	no	no	no
F2RL3	ENSG00000127533	no	no	no	no
CHST10	ENSG00000115526	no	no	yes	no
FLT4	ENSG00000037280	no	no	yes	yes
ACVRL1	ENSG00000139567	no	no	yes	yes
FAM101B	ENSG00000183688	no	no	no	no
EVX2	ENSG00000174279	no	no	no	no
RASL12	ENSG00000103710	no	no	yes	yes
ARPP-21	ENSG00000172995	no	no	no	yes
COL6A2	ENSG00000142173	no	no	yes	yes
TLN2	ENSG00000171914	no	no	yes	no
UNKL	ENSG00000059145	no	no	no	yes
SLC22A17	ENSG00000092096	no	no	yes	no
TBX2	ENSG00000121068	no	no	yes	yes
GPD1	ENSG00000167588	no	no	yes	no
CNTNAP1	ENSG00000108797	no	no	yes	yes

IL34	ENSG00000157368	no	no	no	yes
TNFRSF10D	ENSG00000173530	no	no	yes	no
ST3GAL2	ENSG00000157350	no	no	yes	yes
LOC375295	N.A.	N.A.	N.A.	N.A.	N.A.
MEP1B	ENSG00000141434	no	no	no	no
ADAM33	ENSG00000149451	no	no	yes	yes
SHANK3	ENSG00000251322	no	no	yes	yes
RASIP1	ENSG00000105538	no	no	yes	yes
DOK1	ENSG00000115325	no	no	no	no
TPO	ENSG00000115705	no	no	yes	no
SLC25A42	ENSG00000181035	no	no	yes	yes
COL5A1	ENSG00000130635	no	no	yes	yes
SEPT4	ENSG00000108387	no	no	yes	yes
LIX1L	ENSG00000271601	no	no	yes	no
NES	ENSG00000132688	no	no	yes	yes
FBRSL1	ENSG00000112787	no	no	no	yes
RUSC2	ENSG00000198853	no	no	yes	yes
REG1A	ENSG00000115386	no	no	no	no
FADS3	ENSG00000221968	no	no	yes	yes
GUCA1A	ENSG00000048545	no	no	no	no
FLJ10404	ENSG00000146067	no	no	yes	yes
LOC100133404	N.A.	N.A.	N.A.	N.A.	N.A.
ACHE	ENSG00000087085	no	no	no	no
FKBP10	ENSG00000141756	no	no	yes	yes
XKR6	ENSG00000171044	no	no	no	no
LOC401097	N.A.	N.A.	N.A.	N.A.	N.A.
SLC2A6	ENSG00000160326	no	no	no	yes
TRAM1L1	ENSG00000174599	no	no	no	yes
SNAPC2	ENSG00000104976	no	no	no	no
LSM11	ENSG00000155858	no	no	no	no
PEAR1	ENSG00000187800	no	no	yes	yes
PDE9A	ENSG00000160191	no	no	no	no
RASGRP2	ENSG00000068831	no	no	yes	yes

ARHGEF15	ENSG00000198844	no	no	yes	yes
SLCO4A1	ENSG00000101187	no	no	yes	no
SCARNA16	ENSG00000252404	no	no	no	no
RGS11	ENSG00000076344	no	no	yes	yes
HTRA1	ENSG00000166033	no	no	yes	yes
EDN1	ENSG00000078401	no	no	yes	no
C15orf60	ENSG00000183324	no	no	no	no
PDGFB	ENSG00000100311	no	no	yes	yes
BTN2A3	ENSG00000124549	no	no	no	no
LIMS2	ENSG00000072163	no	no	yes	yes
WTIP	ENSG00000142279	no	no	yes	yes
RPL23AP64	ENSG00000240970	no	no	no	no
C1QTNF1	ENSG00000173918	no	no	yes	yes
FAM115A	ENSG00000198420	no	no	yes	no
NKD1	ENSG00000140807	no	no	yes	yes
LOC100133388	N.A.	N.A.	N.A.	N.A.	N.A.

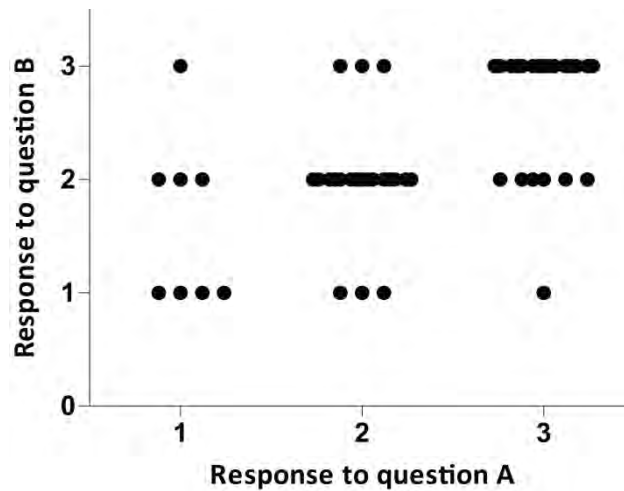


Figure S1. Responses of patients (n=63) to two questions used for defining CMH were strongly correlated. Dot plot showing the patients' answers to question A) "How often did you cough up sputum during the last three months?" and question B) "How often did you cough up sputum during the last week?". 1 represents "never cough" or "only during a cold"; 2 represents "sometimes" or "once in a while"; 3 represents "almost daily" for question A) or "often", "most of the times", "regularly", or "always" for question B). Spearman's rank correlation coefficient was performed. $r=0.651$; $p<0.0001$.

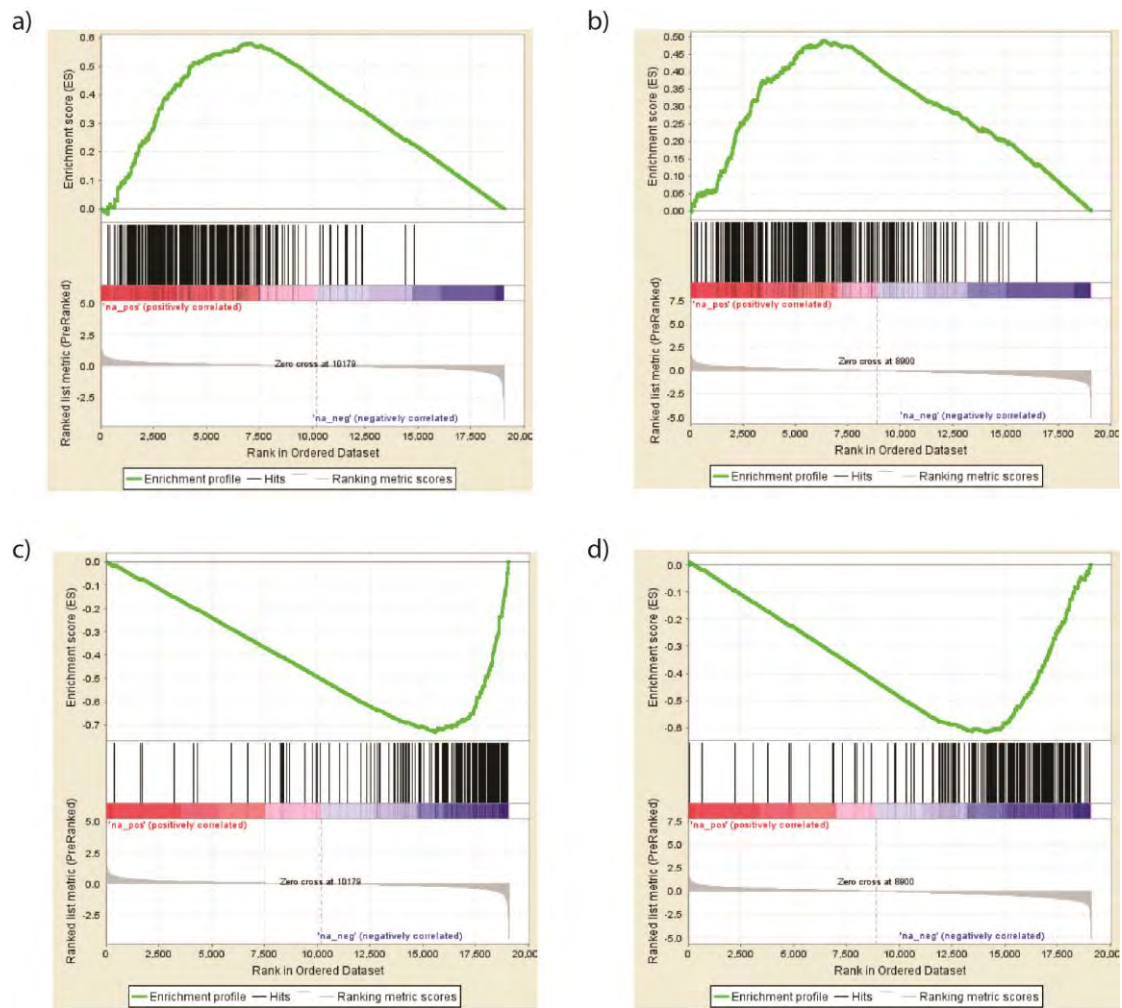


Figure S2. Gene set enrichment analysis (GSEA) on the RNA-seq dataset. Genes higher expressed with CMH in the microarray dataset were positively enriched based on a) CMH definition A and b) CMH definition B. Genes lower expressed with CMH in the microarray dataset were negatively enriched based on c) CMH definition A and d) CMH definition B. All enrichment was significant ($p < 0.001$). Vertical black lines (Hits) represent position of 539 CMH-associated genes identified in the microarray dataset in the ranked gene list. From left to right, 19,075 genes were ranked by t-statistics for association with CMH in the RNA-seq dataset. Red and blue represent positive and negative association, respectively.

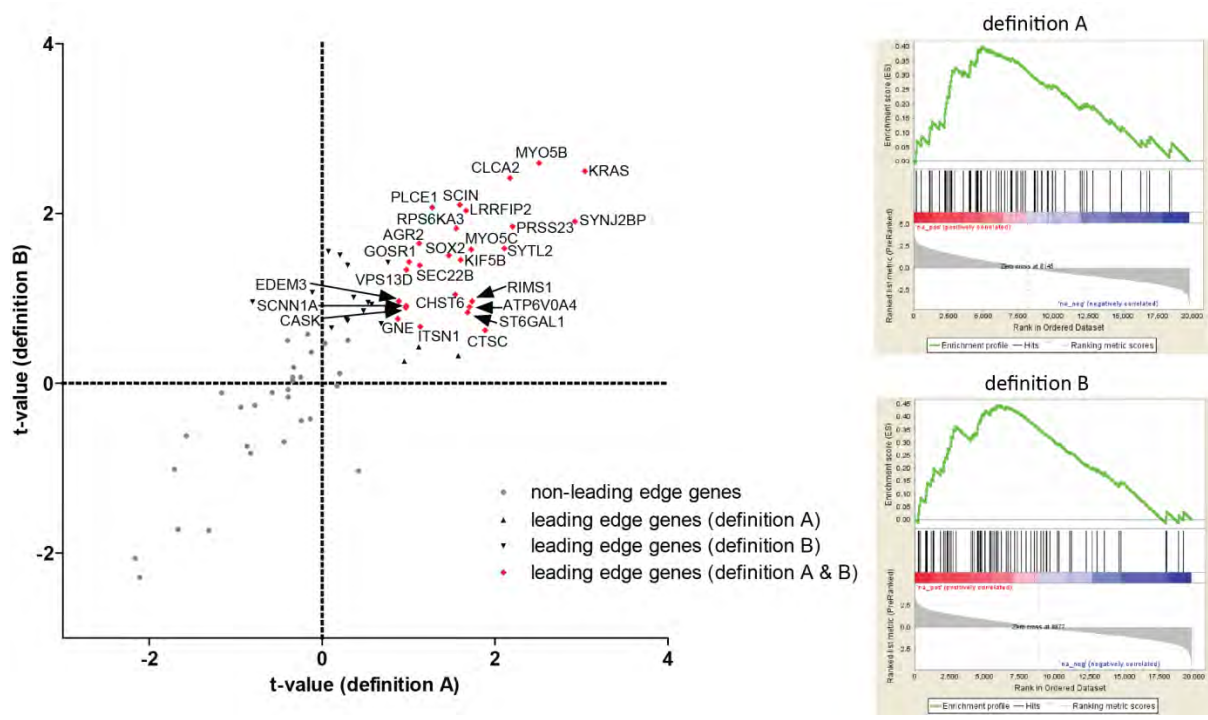


Figure S3. Overrepresentation of MUC5AC-associated genes among CMH-associated mRNAs. Enrichment analysis was performed using the ranked list of CMH-associated mRNAs, based on definition A and B, and the list of 73 MUC5AC-associated genes [8]. Significant enrichment was observed for both definition A (enrichment score (ES)=0.40, $p < 0.001$) and B (ES=0.44, $p < 0.001$). ES was calculated by walking down the ranked list of genes – a running-sum statistic increases when a gene is in the gene set and decreases when the gene is not. On the left graph, leading edge genes associated with CMH in both definitions are shown in red.

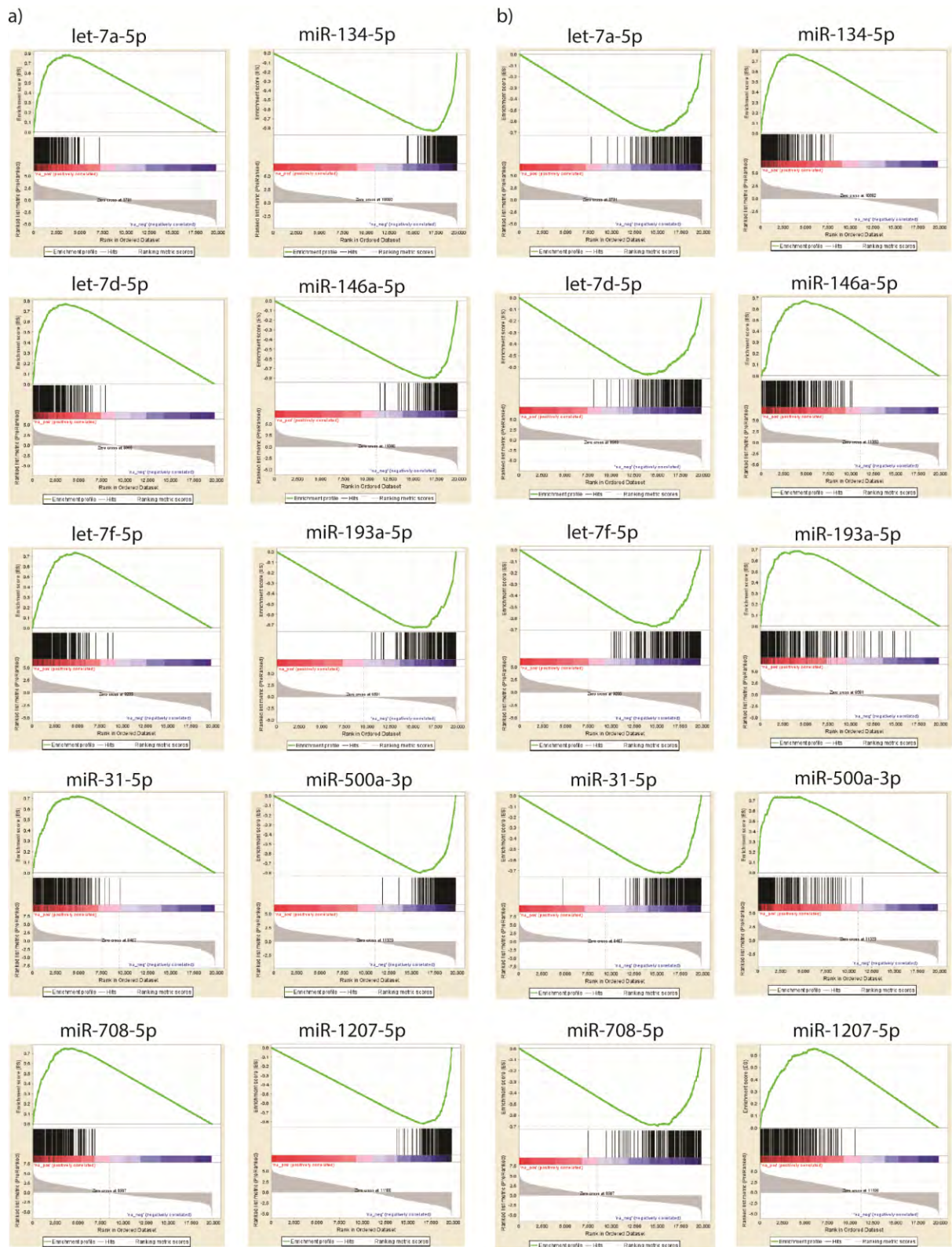


Figure S4. Enrichment of CMH-associated mRNAs among miRNA-correlated mRNAs.

a) Enrichment of mRNAs higher expressed with CMH. b) Enrichment of mRNAs lower expressed with CMH. All enrichments were significant ($p < 0.001$).

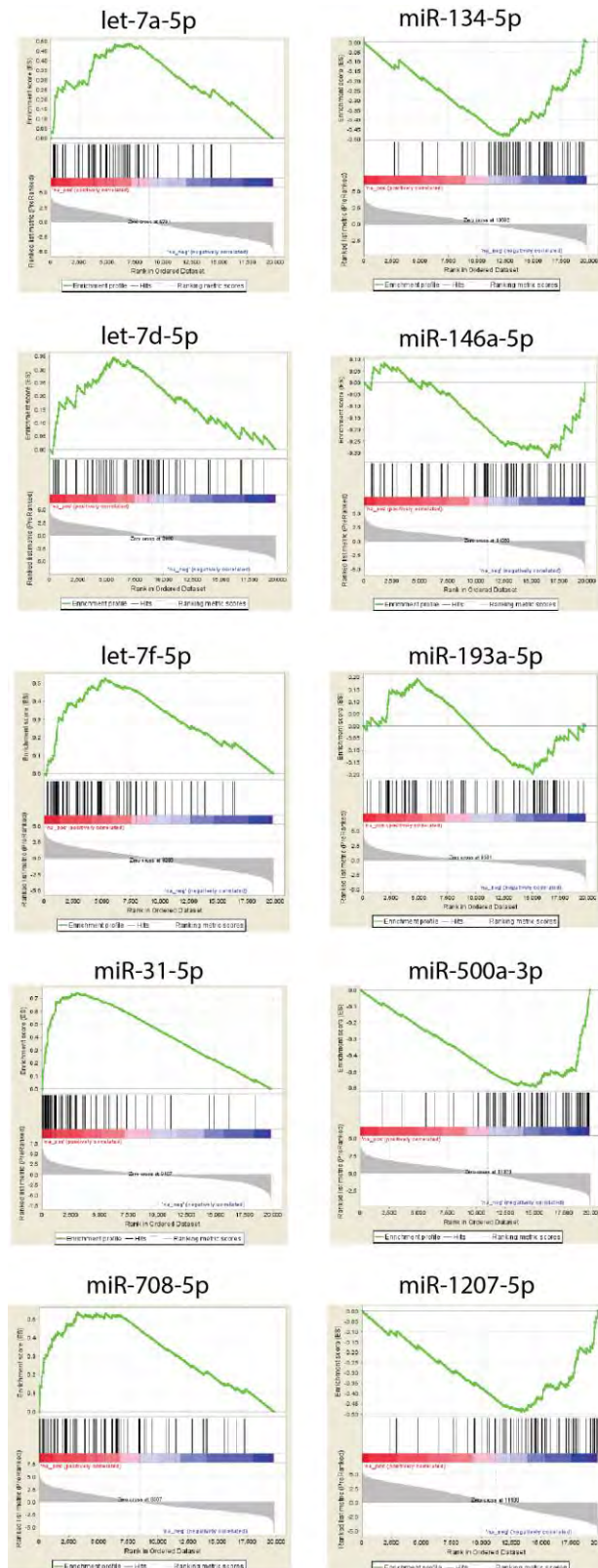


Figure S5. Enrichment of MUC5AC-core genes among miRNA-correlated mRNAs. All enrichments were significant ($p < 0.005$) except for miR-193-5p.

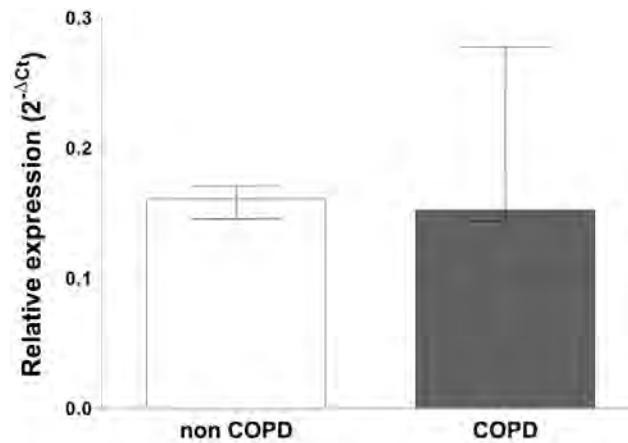


Figure S6. Expression of *MUC5AC* in primary airway epithelial cells (PAECs). PAECs were derived from COPD patients (n=6) and healthy controls (n=6) and grown at air-liquid interface for 14 days. Cells were hormonally deprived overnight and RNA was isolated. The *MUC5AC* expression was normalized to *B2M* and *PPIA*. Relative expression levels are shown (median±interquartile range).

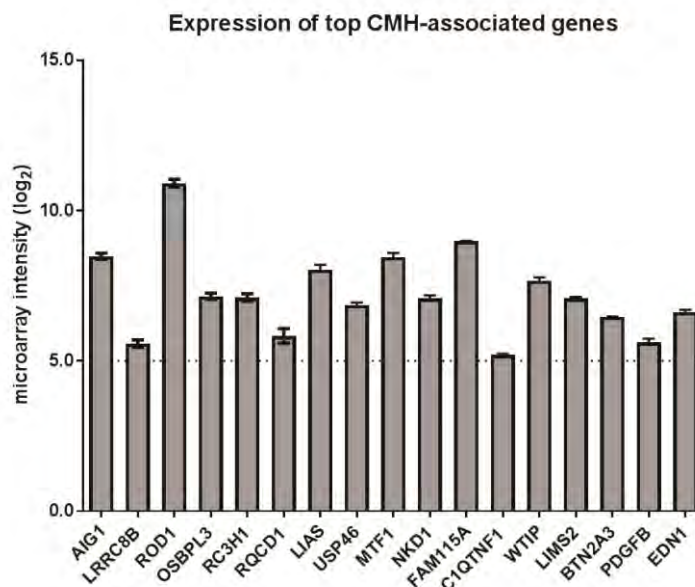


Figure S7. Expression of top CMH-associated genes in ALI-cultured primary airway epithelial cells (day 14) [12]. The microarray dataset is publicly available on www.ncbi.nlm.nih.gov/geo/ (series accession number GSE5264). Genes with microarray intensity above 5.0 were considered expressed.

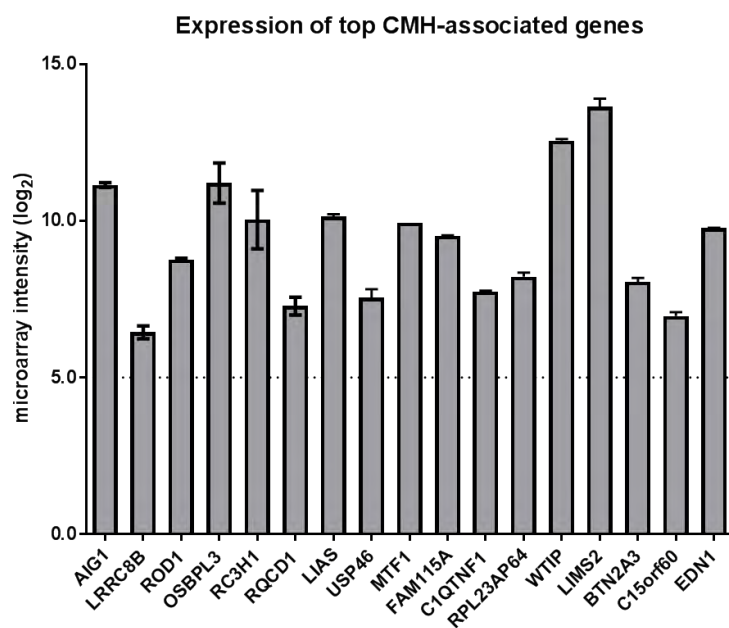


Figure S8. Expression of top CMH-associated genes in primary lung fibroblasts [13].

The microarray dataset is publicly available on www.ncbi.nlm.nih.gov/geo/ (series accession number GSE86183). Genes with microarray intensity above 5.0 were considered expressed.

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