



Early View

Original article

Effect of long-term corticosteroid treatment on microRNA and gene-expression profiles in Chronic Obstructive Pulmonary Disease

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Title: Effect of long-term corticosteroid treatment on microRNA and gene-expression profiles in Chronic Obstructive Pulmonary Disease

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Abstract:

To investigate whether microRNA (miRNA) expression is modulated by inhaled corticosteroid (ICS) treatment, we performed genome-wide miRNA analysis on bronchial biopsies of 69 moderate/severe COPD patients at baseline and after 6- and 30-month treatment with the ICS fluticasone propionate (FP) or placebo. The effect of ICS on miRNA expression was validated in differentiated primary bronchial epithelial cultures, and functional studies were conducted in BEAS-2B cells. MiRNAs affected by ICS and their predicted targets were compared to an independent miRNA dataset of bronchial brushings from COPD patients and healthy controls. Treatment with ICS for both 6- and 30-months significantly altered the expression of 4 miRNAs, including miR-320d, which was increased during ICS treatment compared with placebo. The ICS-induced increase of miR-320d was confirmed in primary airway epithelial cells. MiR-320d negatively correlated targets were enriched for pro-inflammatory genes and were increased in the bronchial brushes of patients with lower lung function in the independent dataset. Overexpression of miR-320d in BEAS-2B cells dampened cigarette smoke extract-induced pro-inflammatory activity via inhibition of nuclear factor (NF)- κ B. Collectively, we identified miR-320d as a novel mediator of ICS, regulating the pro-inflammatory response of the airway epithelium.

Introduction

Chronic obstructive pulmonary disease (COPD) is characterized by chronic, not fully reversible airflow limitation that is usually progressive and associated with an inflammatory response in the airways [1]. Inhalation of noxious gases, including cigarette smoke, is the major risk factor for COPD. Several studies have investigated the efficacy of inhaled corticosteroids (ICS) in COPD [2-4], with conflicting results [2-4]. Only a subgroup of patients responds well to ICS. Given this heterogeneity, it is of relevance to perform studies on therapy response in COPD. Our Groningen and Leiden Universities study of Corticosteroids in Obstructive Lung Disease (GLUCOLD), a double-blind, randomized, placebo-controlled study to investigate the long-term efficacy of fluticasone propionate (FP) with or without added salmeterol (S) in COPD, found a greater improvement in lung function decline upon ICS treatment than most earlier studies [5]. This may have been due to the distinct inclusion criteria, requiring patients to not have had ICS treatment for at least 6 months before inclusion in the study and 95% of patients never used ICS at all. In GLUCOLD, placebo-treated patients experienced a considerable decline in their FEV₁ (forced expiratory volume in one second), whereas the rate of FEV₁ decline was close to zero for FP and FP/S treatment [5]. These results suggest that ICS can be beneficial, at least in a subgroup of COPD patients. In a follow-up study, we performed genome-wide gene-expression analysis on bronchial biopsies from GLUCOLD patients at baseline, and after 6- and 30-months of treatment [6], which enabled us to distinguish between ICS sensitive and insensitive patients based on their gene-expression profiles. However, the mechanisms controlling ICS-induced gene-expression changes remained unknown, and understanding this process may lead to identification of novel anti-inflammatory pathways.

MicroRNAs (miRNA)s are small non-coding mRNA transcripts with the ability to degrade or inhibit of mRNA transcripts leading to suppression of protein levels. Since each individual miRNA can modulate the expression of over 100 genes [7], variations in miRNA levels can radically alter gene-expression profiles. In the present manuscript, we hypothesized that miRNAs are crucial in regulating ICS- induced gene expression in the airways of COPD patients. To investigate this, we assessed alterations in miRNA expression after short- and long-term treatment with ICS and we were able uncover their target genes, since both miRNA and mRNA data was available from the same bronchial biopsies. We confirmed the functional role of the identified miRNAs *in-vitro* in human bronchial epithelial cells. Our study identified miR-320d, as a novel anti-inflammatory miRNA that is upregulated by corticosteroids.

Methods

Patients and study design

MiRNA expression profiling was performed in bronchial biopsies from COPD patients participating in the GLUCOLD study [5]. The inclusion criteria and GLUCOLD study design have been previously described [5]. Briefly patients were required to be without ICS treatment for at least 6 months before inclusion, current or ex-smokers with moderate to severe COPD. Patients included in this study were treated with 1) Placebo twice daily for 30 months; 2) FP 500µg twice daily for 30 months; 3) FP 500µg + S 50µg twice daily for 30 months. Bronchial biopsies were taken at baseline and 6- and 30-months after treatment for microarray gene-expression profiling and histology. The study was approved by the local medical ethics committee and all patients provided their written informed consent. Methods for miRNA isolation, labeling, microarray hybridization (Affymetrix_GeneChip_miRNA_1.0 Array) are

described in the online supplement, while the methods for the mRNA extraction and microarray processing have been previously described [6]. Gene- and miRNA expression data are available through the GEO repository with the accession number (gene-expression arrays GSE36221) and (miRNA arrays GSE76774). In an independent cohort, microRNA expression profiling was obtained from bronchial brushings from 30 COPD and (defined by $FEV_1/FVC < 70$ and $FEV_1\%$ 80) and 30 non-COPD controls using Illumina HiSeq.

Statistics

To identify miRNAs altered by ICS treatment, we performed linear mixed effects models with treatment as a categorical variable with two levels: ICS or ICS+LABA (two separate analyses were run) versus placebo (R_statistical_software_V3.0.2). Time was defined as a categorical variable with three levels: baseline, 6- and 30-month treatment. These methods are explained in extensive detail in the online supplement.

Predicted target approach

To identify the potential targets of differently expressed miRNAs, treatment-induced changes in miRNA expression were compared to changes in mRNA expression in the same biopsies [6]. Pearson correlations were conducted at i) baseline and ii) delta miRNA and mRNA expression after 6 months focusing on predicted mRNA targets for each miRNA (based on the combination of Target Scan v7.1 [7] and DIANAmicroT). Negatively correlated miRNA targets s which were negatively correlated with both analysis ($p < 0.05$) were selected for pathway analysis using Gene Set Enrichment Analysis (GSEA) and Gene Networks [6].

Following this analysis, the negatively correlated predicted targets altered by ICS were studied in bronchial brushings from 63 smokers with COPD and 135 control smokers without a history of using ICS or oral corticosteroids in an independent cohort using the continuous COPD-related measurement of FEV₁. Gene Network analysis was performed to investigate the predicted targets of identified miRNAs (nominal pvalue<0.05) [8].

Gene Network analysis uses an independent gene expression dataset of ~78,000 samples to predict the function of genes in an unbiased way. We used this method to predict (currently unknown) gene functions based on known biological pathways available in the molecular signatures database MSigDB (GO biological process and the reactome)(<http://www.broadinstitute.org>) [8].

Primary bronchial epithelial cell (PBEC) culture

PBECs were obtained from tracheobronchial tissue of 9 healthy lung donors by pronase treatment as described before [9]. Cells were cultured as described before [9] and as detailed in the online supplement. MiRNA expression was assessed by real time PCR as described in detail in the online supplement.

Preparation of cigarette smoke extract

Cigarette smoke extract (CSE) was prepared as described previously and in the online supplement [9]. Concentrations of CSE used for each cell line was evaluated by a concentration series of 0-50% CSE and then annexin V and propidium iodide (PI) staining[10]. A

concentration for each cell line was selected to minimize cellular death compared to control. For BEAS-2B (10% CSE) was selected while for PBECs (20% CSE) was selected (Figure S1A&B).

MiR-320d overexpression in BEAS-2B cells and PBECs

Human bronchial epithelial cell line BEAS-2B and PBECs were cultured as described previously [11]. For transfection, cells were seeded in duplicates in RPMI/5% FBS or BEGM at 1×10^5 in 24-well plates for BEAS-2B and PBEC, respectively. After 24 hours, cells were then transfected with miR-320d mimic (1nM; Qiagen, Venlo, The Netherlands) and non-targeting control (1nM; Qiagen) using RNAimax (Invitrogen, Groningen, The Netherlands), grown to confluence, serum-deprived for 24 hours and treated with BEAS-2B (10% CSE for 24 hours in presence and absence of FP (10^{-8} M) pre-treatment for 3 hours) while PBECs were treated with 20% CSE for 8 and 24 hours. Annexin V Pi Staining was used to confirm no additional cellular death occurred between the transfection of scrambled and miR-320d mimic (Figure S1C). A higher dose of CSE was selected for PBECs as we have previous shown that primary cells are less sensitive to CSE than cell lines [12]. Cell lysates and cell-free supernatants were collected to determine the miR-320d expression and CXCL8 levels at the 24 hour time point (R&D systems Abingdon, United Kingdom), while mRNA was collected at 8 hours stimulation for PBECs and extracted to measure IL-1 β and CXCL8 mRNA levels by qPCR[13] .

Gene-expression analysis in publically available dataset

To investigate genes which lead to an increase of CXCL8 during smoke exposure we analyzed a publically available dataset (GSE30660) of air-liquid interface (ALI)-differentiated PBECs (n=4) from healthy donors with/without repeated cigarette smoke challenge (30 min exposure on 4 separate days). We focused on genes that were increased by cigarette smoke (fold change >2, FDR<0.05) using R version 3.1.4 and the limma package.

NF- κ B activity

To investigate whether over expression of miR-320d directly suppresses NF- κ B activity, we used a renilla luciferase reporter assay according to manufactures instructions (Promega, Leiden, The Netherlands) as described in the online supplement.

Results

Change in miRNA expression after 6- and 30-month treatment with ICS

We identified 6 miRNAs with altered expression after 6 months of ICS treatment compared with placebo in bronchial biopsies of COPD patients (FDR<0.25). A full list is presented in Table 2 and a heatmap and volcano plots are illustrated in Figure. 1A&B and Figure. 1C, respectively. Four of these 6 miRNAs (down-regulated: miR-708 and miR-155; and up-regulated: miR-320d, and miR-339-3p) remained significant in the same direction after 30 months treatment (nominal

$p < 0.05$). None of the 4 miRNAs identified were found to be altered between current and ex-smokers at baseline, indicating smoking has no effect on these miRNAs (data not shown).

Associations between changes in miRNA expression and mRNA expression

We next examined whether the miRNAs altered by ICS negatively regulate the expression of their predicted targets in the COPD-derived bronchial biopsies. We conducted a 1) cross-sectional analysis at baseline and 2) longitudinal analysis between 6-months and baseline. All four identified miRNAs had at least one significant negative-correlated predicted target within either the cross-sectional or longitudinal analysis, with an overlap between these analyses for each miRNA ranging between 30.9-80.7% (Figure S2A-D). The supplementary Table S1 presents all associations. Connected network analysis identified two main clusters of miRNAs and their predicted targets: 1) miR-708 and miR-155, which were decreased by ICS treatment and 2) miR-320d and miR-339-3p, which were increased by ICS treatment (Figure 1D).

Replication of miRNA altered by ICS

For further validation of the identified miRNA, we investigated the third arm of the GLUCOLD cohort, i.e. patients treated with ICS+LABA. A candidate based approach identified of the four miRNAs miR-320d, miR-339-3p and miR-708 were also significantly altered in the same direction by ICS+LABA compared to placebo at 6 months treatment) ($p < 0.05$). A comparison between the ICS and ICS+LABA analysis is illustrated in Figure S3 Next, we investigated in the independent dataset whether miR-320d, miR-339-3p and miR-708 were altered between COPD patients using ICS (n=6) compared to COPD patients not on ICS (n=24). For the replication, we also focused on the miR-320 family as miR-320a-d all have very similar sequences and have the

same predicted targets (figure S4A). Here we found that miR-320 family (miR-320a, miR-320b-1, miR-320b-2 and miR-320c-2) were significantly increased by ICS, while miR-320c-1 and miR-320d was found to have a trend for an increase ($p=0.057$ and $p=0.086$, respectively) reflecting the results found in initial analysis (figure S4B-G, Table S2). MiR-339-3p and miR-708, were not found to be significantly altered by ICS in the same direction.

Pathway analysis of miRNA targets

Using Gene Networks, we found that miR-320d negatively correlated predicted targets were associated with pro-inflammatory related pathways including “TNF- α signaling” and “cytokine production”, while miR-339-3p predicted targets were associated with regulation of ion transport” (nominal p -value <0.05). Finally, miR-708 negatively correlated predicted targets were found to associate with the regulation of “ion transport” and “activation of phospholipase C activity” (nominal p -value <0.05). The list of the top 5 pathways for each miRNA is displayed in Table 3 while an extended list is provided in the supplementary material (Table S4). To evaluate whether the miRNA negatively correlated predicted targets were ICS sensitive, we performed GSEA on the GLUCOLD data before and after 6 months of ICS treatment compared to placebo. As expected, the majority of miRNA negatively correlated predicted targets were altered by ICS in the opposite direction to their targeting miRNA, with miR-708 negatively-correlated targets being increased and miR-339-3p and miR-320d negative-correlated targets being decreased by ICS (Figure 2A and Figure S5).

Treatment-related changes in miRNA expression are associated with presence of COPD or severity of airflow obstruction in an independent cohort

To determine whether miRNAs affected by ICS treatment are clinically relevant, we investigated the association of miRNA expression and presence of COPD and level of FEV₁% predicted in an independent cohort of bronchial brushings, where miRNA expression profiles were available from 30 smokers with and 30 without COPD [14]. Of the 3 miRNAs altered following ICS treatment, miR-708 was found to be altered in the opposite direction between COPD and controls, with higher expression in COPD-derived bronchial brushes (p<0.05). No difference was found for miR-320d or miR-339-3p.

Next, to investigate whether the negatively-correlated miRNA predicted targets are relevant to disease pathogenesis, we performed GSEA on an expanded population from the same independent cohort with whole genome gene-expression data available in bronchial brushings of 63 current or former smokers with and 135 without COPD [14]. As with the miRNA analysis, it was conducted on the continuous COPD-related FEV₁ measurement. The miR-320d negatively-correlated predicted targets were enriched among the genes increased in subjects with lower lung function, while the miR-708 negatively-correlated predicted targets were enriched among the genes decreased in subjects with lower lung function (Figure 2B and Figure S6). No such association was found for miR-339-3p predicted targets.

MiR-320d is up-regulated by corticosteroid treatment in vitro

We next examined whether ICS directly regulate the expression of the identified miRNAs in ALI- differentiated PBECs from healthy donors. Treatment with FP (10 nM) for 24 hours

resulted in significant up-regulation of miR-320d, while miR-708 expression trended to a decrease, and miR-339 was not altered (Figure 2C&D).

MiR-320d acts as an anti-inflammatory miRNA through regulation of IL-1 β -induced NF- κ B signaling

As miR-320d was predicted to target genes associated with “cytokine production”, we hypothesized that miR-320d regulates the expression of pro-inflammatory cytokines/chemokines such as CXCL8, a major pro-inflammatory cytokine that is increased in COPD. To investigate this, we overexpressed miR-320d in the human bronchial epithelial cell line BEAS-2B and PBECs (Figure 3A) and assessed CXCL8 release in response to 10 % and 20% cigarette smoke extract (CSE), respectively. Overexpression of miR-320d significantly reduced CSE-induced CXCL8 release in BEAS-2B and PBEC (Figure 3B&C). Overexpression of miR-320d also reduced CXCL8 mRNA levels during smoke exposure in the PBECs supporting the protein data (figure S7A). Incidentally, we found that smoking has a minimal effect on CXCL8 mRNA levels at 6 hours. CXCL8 is not a predicted target gene of miR-320d and therefore other upstream mediators are likely involved. To investigate how miR-320d affects cigarette smoke-induced pro-inflammatory epithelial responses, we used a publically available dataset of ALI-cultured PBECs derived from healthy controls that were either or not exposed to gaseous cigarette smoke (GSE30660). Sixty-two genes were increased by cigarette smoke treatment (fold change > 2, FDR < 0.05). String network analysis identified that these 62 genes had an enrichment for protein-protein interactions and that this list was associated with chronic inflammation (Table S4, Figure S7B). Of interest, IL-1 β was identified as a hub gene in this network (Figure S7C&D), a

cytokine previously identified as a key positive regulator of inflammation in COPD increased by cigarette smoke exposure [15]. In line, we previously observed that CSE upregulates IL-1 mRNA expression in PBECs [16]. Furthermore we found that over expression of miR-320d at baseline significantly decreases IL-1 β mRNA levels (Figure 7E). These results suggest that CSE induces CXCL8 production by activating the IL-1 β pathway.

Based on these findings, we assessed whether miR-320d can attenuate IL-1 β -induced CXCL8 production via inhibition of NF- κ B, a well know downstream mediator of IL-1 β -pro-inflammatory function. To this end, BEAS-2B cells were transfected with a reporter construct for NF- κ B and treated with IL-1 β for 24 hours in the presence and absence of miR-320d overexpression. IL-1 β treatment significantly activated NF- κ B signaling, and miR-320d overexpression was found to significantly decrease the IL-1 β -induced activation of NF- κ B signaling compared to negative miRNA control (Figure 3D). A proposed mechanism of miR-320d is provided in Figure 3E.

Discussion

In the present study, we identified 4 miRNAs that are affected by short- and long-term treatment with ICS compared to placebo in patients with moderate to severe COPD. Additionally, we show that the predicted targets of these miRNAs are altered by ICS treatment and that specifically miR-320d targets are enriched among genes associated with decreased lung function. *In-vitro*, we confirmed the direct effect of ICS on miR-320d expression in bronchial epithelium and observed that miR-320d overexpression decreases CSE-induced CXCL8 release. This anti-inflammatory function was found to be in part mediated by inhibition of the IL-1 β /NF- κ B pathway.

We further observed that the negatively correlated predicted targets of miR-320d are decreased by ICS treatment. Although miRNA profiling in bronchial brushes in an independent cohort showed no significant decrease in miR-320d with COPD, miR-320d predicted target genes were increased with COPD in this cohort. The latter may indicate that miR-320d regulation of gene expression may be disturbed in COPD

We have, for the first time, identified an anti-inflammatory role of miR-320d. This was suggested by our pathway analysis, which identified miR-320d as a negative regulator of genes associated with pro-inflammatory pathways, including "TNF- α signaling" and "cytokine production". The miR-320d anti-inflammatory role was validated *in-vitro* in airway epithelium, since we showed that miR-320d overexpression suppresses CSE-induced CXCL8 release through inhibition of NF- κ B activation. Here, IL-1 β stimulation was shown to be a potent inducer of NF- κ B activity. Our data are in line with previous studies showing that airway epithelial cells release IL-1 β in response to cigarette smoke treatment [17, 18]. Genes associated with the NF- κ B pathway were upregulated in differentiated primary bronchial epithelial cells treated with cigarette smoke, and increased NF- κ B activity has been observed in COPD [19, 20]. CXCL8 is a key mediator in neutrophil infiltration into airway tissue acting as neutrophils chemoattractant [21].

Cigarette smoke provides one of the main inflammatory initiators in COPD [22, 23], however, the mechanism responsible for aberrant inflammatory response in smokers with COPD and why this cannot efficiently be suppressed by ICS in all patients remains uncertain. Our results support

the hypothesis that miR-320d regulates cigarette smoke induced -induced CXCL8 by inhibiting NF- κ B signaling, and may thus be involved in the anti-inflammatory effect of ICS.

MiR-155 may also be of potential interest in regulating inflammatory responses, as it was identified in our original analysis and it has previously be shown to be associated with airway inflammation in murine models of asthma [24]. However, we did not investigate this miR-155 further as we could not replicate its downregulation in our second analysis.

In contrast to our findings, a previous cross-sectional study was unable to find differences in the miRNA expression profile in bronchial biopsies between treatment with and without ICS in asthmatics [25]. We believe that the difference between the studies may be due to longitudinal nature, rigorous selection criteria and higher power of the current study, or is possibly due to the inherent difference between asthma and COPD patients.

One of the main strengths of this study is the co-analysis of global miRNA and gene-expression change over time, therefore allowing us to correlate changes in miRNA expression with longitudinal changes in gene-expression of predicted miRNA targets. This experimental setup overcomes one of the main unknown assumptions of cross-sectional studies on matched miRNA and mRNA samples, namely that the relationship between miRNA and gene-expression remains consistent over time [26, 27]. Validation of our finding in an in-vivo mouse model of COPD may provide further insight into the anti-inflammatory role of miR-320d [28].

There are also some limitations of our study. Despite all samples being, snap frozen at -80°C following collection, RNA degradation was found in some samples, as reflected by relatively low RIN scores. Therefore, we adjusted for RIN score values in all analyses conducted in this study. Bronchial biopsies contain a mixture of cell populations. Importantly, after adjusting for inflammatory cell counts, miR-320d, miR-339-3p and miR-708 remained significant, indicating that the change in miRNA expression was not due to an ICS-induced change in inflammatory cell populations. Finally, as we used miRNA arrays we may have missed a number of novel miRNAs.

In summary, we have profiled global miRNA expression in bronchial biopsies from patients with moderate to severe COPD, following longitudinal treatment with ICS compared to placebo at baseline, 6- and 30 months. We found 4 miRNAs (miR-320d, miR-339-3p, miR-708 and miR-155) to be altered following ICS treatment. Furthermore, we identified miR-320d as a novel anti-inflammatory miRNA that suppresses NF- κ B activity *in-vitro*. MiRNAs associated with ICS treatment and inflammation provide important candidates for future studies as possible biomarkers and therapeutic targets in chronic inflammatory diseases.

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Author contributions: AF performed microarray analysis, *in vitro* cellular work, project design and writing of the manuscript. SDP, MPR, TRE and MB aided with the *in vitro* cellular work. DSP, IHH, AS and GHK participated in project design and drafting of the manuscript. IHH supervised the practical work. SL collection of non-COPD and COPD bronchial brushings. KS performed the analyses comparing microRNA expression in non-COPD and COPD and writing of the manuscript. MVB performed microarray analysis, project design, and writing of the manuscript. MRJ contributed to the *in vitro* cellular work. PSH, PJS and WT participated in the revision of the manuscript. CB performed the pathway analysis. GL and YOA processed mRNA and miRNA samples for microarray analysis. All authors read and critically reviewed the manuscript.

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Figures:

Figure 1. MiRNA altered by ICS treatment compared to placebo in bronchial biopsies of COPD patients. Heatmap showing changes in miRNA expression in response to ICS vs placebo at A) 6- and B) 30-month compared to baseline in bronchial biopsies of COPD patients. C) Volcano plot showing changes in miRNA expression in response to ICS vs placebo after 6-months. D) Cluster diagram of miRNA altered by corticosteroids and their anti-correlated predicted targets. Blue text indicated miRNAs decreased by ICS, while red text indicates miRNAs increased by ICS. Blue nodes indicate genes decreased by 6 months ICS treatment compared to placebo, red nodes indicate gene increased by ICS treatment and black nodes indicate no change during ICS treatment. The thickness of the edges (lines connecting miRNAs and genes) is associated with the strength of correlations between miRNA and target mRNA. Abbreviations ICS= Inhaled corticosteroids.

Figure 2. Gene set enrichment analysis of miRNA negatively correlated predicted targets and in-vitro validation

A) Negative-correlated predicted targets of miR-320d and miR-339-3p were significantly decreased following ICS treatment compared to placebo in bronchial biopsies (6 months-baseline), while miR-708 predicted targets were increased by ICS treatment. B) Negative-correlated predicted targets altered by ICS of miR-320d were increased in COPD bronchial brushings compared to non-COPD, while miR-708 predicted targets were decreased in COPD. C) Average log fold change in miRNA expression upon treatment with ICS compared to placebo at 6 months of treatment. D) Log fold change of miRNA expression in epithelial cells grown at air-liquid interface and treated for 24 hours with fluticasone (10^{-8} M) compared to untreated control. Values represent mean \pm SEM (n=9). A paired T-Tests was used to test for statistical significance. E) Graphical overview of miRNA results.

Figure 3. Functional analysis of miR-320d

BEAS-2B and Primary Bronchial Epithelial Cells (PBEC)s were grown to confluence and serum-deprived overnight. A) Non-targeting miRNA (mimic control) or miR-320d was overexpressed in and its expression was determined by qPCR. B) CXCL8 secretion upon overexpression of miR-320d mimic and mimic control in response to 24-hour exposure to CSE (n=6) in B) BEAS-2B or C) PBEC. D) NF- κ B activity assay in BEAS-2B overexpressing miR-320d mimic and mimic control in response to 24-hour exposure to IL-1 β (n=6). Activity was expressed as NF- κ B Activity compared to untreated scrambled control. Values represent mean \pm SEM. A paired T-Tests was used to test for statistical significance. * =p<0.05

Table 1. Patient demographics

	Placebo			Fluticasone			Fluticasone+salmeterol		
	baseline	6 months	30 months	baseline	6 months	30 months	baseline	6 months	30 months
n	23	17	17	22	24	20	18	16	12
Current smoking n(%)	16(69.57)	10(58.82)	8(47.06)	13(59.09)	11(45.83)	9(45)	12(66.67)	11(68.75)	5(41.67)
Gender (male)	19(82.61)	15(88.24)	16(94.12)	19(86.36)	22(91.67)	17(85)	16(88.89)	15(93.75)	12(100)

rin			5.23±1.75						
	3.35±1.32	3.95±1.6	**	3.35±1.42	3.57±1.37	5.12±1.7	3.1±1.45	3.16±0.96	4.45±0.77
age	59.22±8.2			60.55±7.3	62.71±7.0		61.06±8.5	61.13±8.2	60.67±8.8
	1	59.06±7.9	61.24±6.6	7	2	61.2±7.24	6	3	7
BMI	24.16±3.7	23.78±3.6	23.47±3.5	26.07±4.3	25.96±4.7	25.91±4.0	25.39±3.5		25.98±3.3
	6	1	9	4	5	1	3	25.51±3.6	9
FEV1% predicted	61.13±8.4	63.38±9.5	56.98±8.3	65.08±8.7	65.11±10.		60.71±10.	62.29±10.	64.61±13.
	4	1	4	1	7	64±11.58	76	76	97
RV% predicted	146.52±2	144.74±3	139.35±2	140.18±3	144.01±2	133.88±3	158±40.9	137.78±3	137.04±4
	5.61	0.83	0.93	1.93	6.1	1.24	7	3.87	0.52
RV/TLC % predicted	124.9±16.	122.95±1	120.38±1	122.49±1	122.87±1	115.86±2	126.87±1	116.03±1	116.86±2
	87	6.11	3.96	9.39	7.92	5.38	9.82	9.06	5.58
SGRQ	31.28±17.	29.85±21.	33.4±20.0	31.71±10.	29.28±16.	28.46±15.	25.75±13.	26.17±13.	24.09±13.
	86	53	7	78	72	12	85	98	91
PC20 methacholine, (mg/mL)									
‡	0.64±2			1.39±2.43			0.06±2.38		

Data are presented as mean± SD unless stated otherwise. Differences in variables before and after treatment were analysed using a two-sided, paired, Student's t test.

**p<0.01 versus baseline.

‡Geometric mean with range between brackets.

BMI, body mass index; FEV1, forced expiratory volume in one second; PC20, provocative dose causing a 20% fall in FEV1; RIN, RNA integrity number; RV, residual volume; SGRQ, Saint George Respiratory Questionnaire.

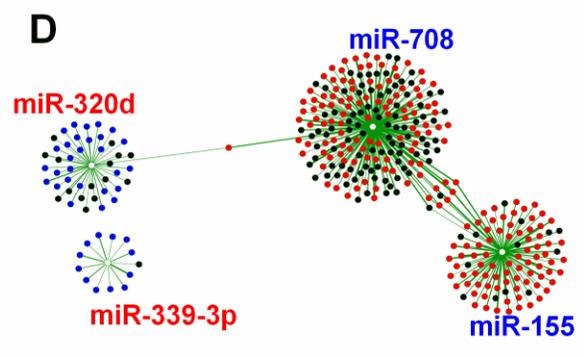
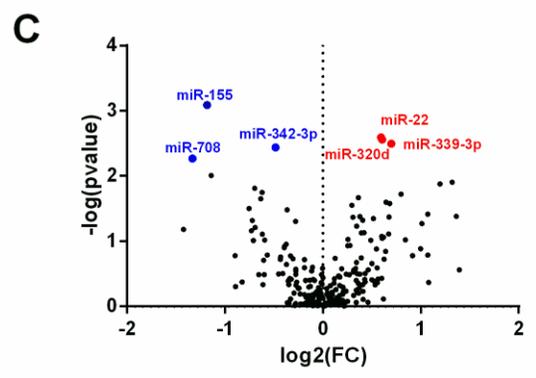
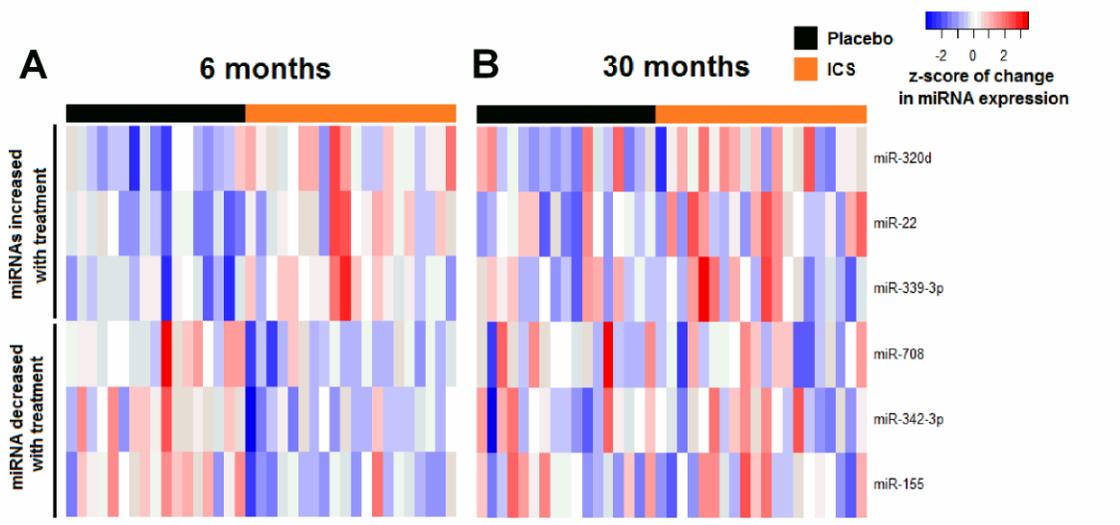
Table 2. List of miRNAs that changed after 6 and 30 month of ICS treatment compared with placebo.

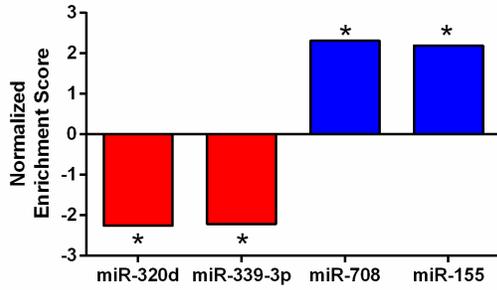
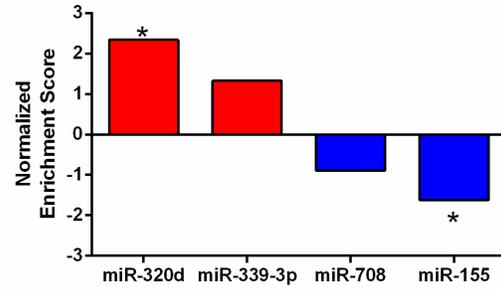
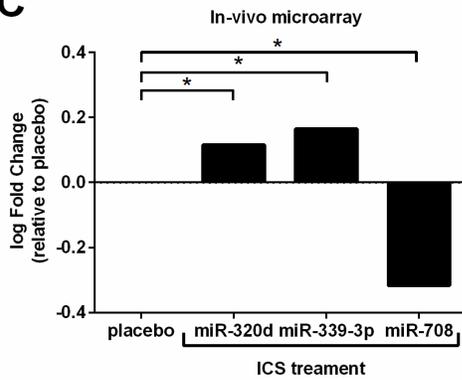
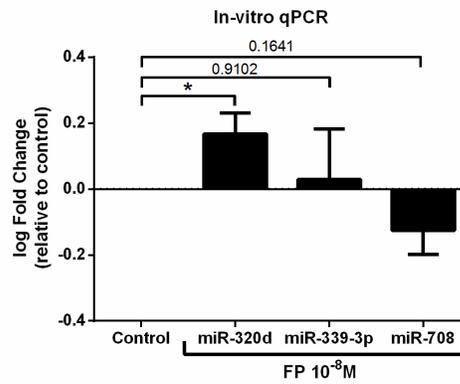
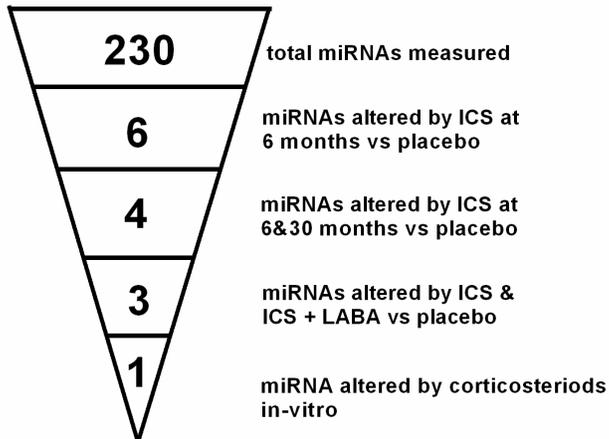
Non-coding RNA symbol	0-6 months FP verse placebo			0-30 months FP verse placebo	
	t-value	p-value	FDR	t-value	p-value
hsa-miR-155	-3.465	8.17E-04	0.168	-2.601	0.011
hsa-miR-320d	3.103	0.003	0.168	2.944	0.004
hsa-miR-22	3.080	0.003	0.168	1.249	0.215
hsa-miR-339-3p	3.031	0.003	0.168	2.175	0.032
hsa-miR-342-3p	-2.987	0.004	0.168	-0.671	0.504
hsa-miR-708	-2.852	0.005	0.207	-2.448	0.016

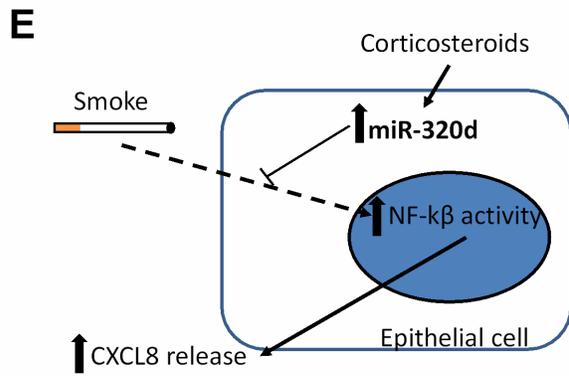
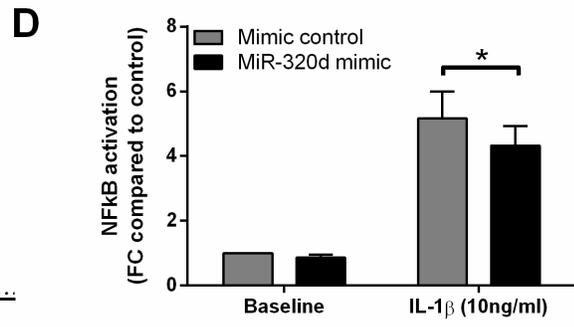
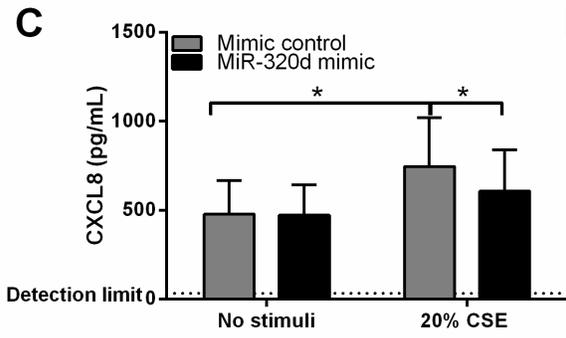
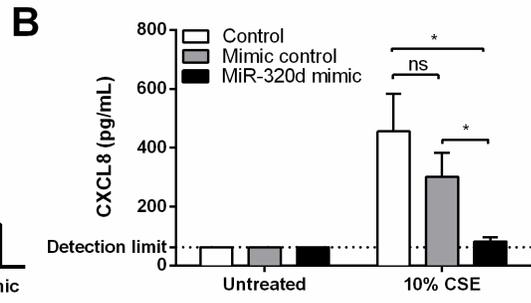
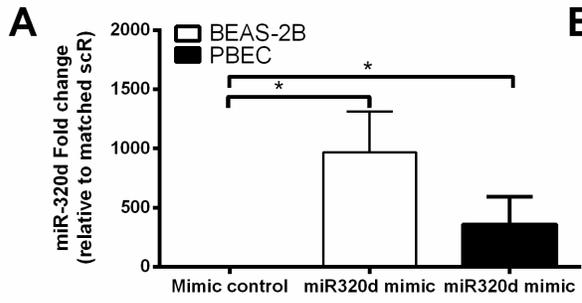
miRNAs changing in the same direction at both 6 and 30 months of corticosteroid treatment compared with placebo are displayed in bold

Table 3. Top 5 Pathways associated with predicted miRNA gene targets

Pathway or process	p-value
miR-320d	
positive regulation of protein oligomerization	4 x 10 ⁻⁷
necrotic cell death	7 x 10 ⁻⁵
tumor necrosis factor-mediated signaling pathway	7 x 10 ⁻⁵
regulation of protein homooligomerization	10 x 10 ⁻⁵
regulation of protein oligomerization	10 x 10 ⁻⁵
miR-339-3p	
positive regulation of transport	2 x 10 ⁻⁹
regulation of cellular localization	2 x 10 ⁻⁸
second-messenger-mediated signaling	2 x 10 ⁻⁸
cytosolic calcium ion transport	3 x 10 ⁻⁸
positive regulation of ion transport	4 x 10 ⁻⁸
miR-708	
calcium ion transport	6 x 10 ⁻²⁹
cellular ion homeostasis	7 x 10 ⁻²⁹
regulation of ion transport	1 x 10 ⁻²⁷
regulation of metal ion transport	5 x 10 ⁻²⁷
second-messenger-mediated signaling	8 x 10 ⁻²⁷
miR-155	
viral reproduction	2 x 10 ⁻⁶³
nuclear transport	2 x 10 ⁻⁵⁹
nucleocytoplasmic transport	1 x 10 ⁻⁵⁸
protein targeting	8 x 10 ⁻⁵⁶
protein localization to organelle	2 x 10 ⁻⁵⁴



A**B****C****D****E**



Supplementary Materials

RNA Isolation and Size Fractionation

Endobronchial biopsies were immediately snap-frozen and stored at -80 °C. RNA was extracted from bronchial biopsies by using the miRNeasy mini kit (QIAGEN) according to manufacturer's protocol. The purity of RNA fractions was checked on NanoDrop 1000 UV-Vis spectrophotometer. The RNA integrity was verified using RNA 6000 Pico Assay RNA chips run in Agilent 2100 Bioanalyzer (Agilent Technologies, Palo Alto, CA).

RNA processing and microarray hybridization

All procedures were performed at Boston University Microarray Resource Facility as described in FlashTag™ Biotin HSR Labeling Kit (Affymetrix, Santa Clara, CA, current version available at www.affymetrix.com). The Qiagen miRNeasy Mini Kit and RNeasy MinElute Cleanup Kit were used to isolate small fractions of RNA.

Statistical model for the identification of miRNAs differentially expressed between ICS treatment and placebo over 6 and 30 months.

A linear mixed effects model was used with treatment defined as a categorical variable with two levels: treatment with ICS versus placebo (R_statistical_software_V3.0.2). Time was defined as a categorical variable with three levels: baseline, 6- and 30-month. The model was adjusted for the following confounding variables: RNA integrity number (RIN), smoking status, age and gender with patient ID as random effect variable. The model was structured as follows:

$$\begin{aligned}
Me_{ij} = & \beta_0 + \beta_1 X_{RIN-i} + \beta_2 X_{Smoking_Status-i} \\
& + \beta_3 X_{Age-i} + \beta_4 X_{Gender-i} + \beta_5 X_{Treatment-i} \\
& + \beta_6 X_{Time-i} + \beta_7 X_{Treatment-i:Time-i} + \epsilon_{ij} + \alpha_j
\end{aligned}$$

In this model, Me is the log₂ microRNA expression for each miRNA for sample i from patient j , ϵ_{ij} represents error that is assumed to be normally distributed and α_j represents the patient random effect. The coefficients from the interaction term $\beta_7 X_{Treatment-i:Time-i}$ from the linear mixed effects model was used to select miRNAs which significantly changed in the same direction after 6 and 30 months of ICS treatment versus placebo. Using a linear mixed effects model, no miRNA passed the $FDR < 0.25$ level. We therefore decreased our cut off level to nominal $p < 0.05$.

To determine whether alterations of inflammatory cell populations were responsible for the miRNA expression changes during treatment, we adjusted for changes in numbers of neutrophils, eosinophils, macrophages, mast cells and epithelial cells in bronchial biopsies in a separate analysis.

Independent Cohort

To determine the relationship between microRNA expression associated with long-term fluticasone use and microRNA expression profiles associated with COPD-related decreases in lung function, we examined an independent dataset of microRNA profiling from airway brushing samples obtained from individuals with ($n=32$) and without ($n=32$) COPD at the British Columbia Cancer Agency. This cohort and sample processing methods have been previously described (1).

Low-molecular weight RNA isolated from these bronchial brushings was profiled using the Illumina HiSeq 2000. Following library preparation with the TruSeq Small RNA Sample Prep Kit (Illumina), RNA adapters were ligated, the products reverse transcribed, and the resulting cDNA PCR-amplified using a six-base index tag to allow multiplexing of samples within a single flowcell lane. Six index-tagged PCR-enriched cDNA libraries were pooled, gel purified, and loaded into a single flowcell lane for cBot cluster generation using the TruSeq Single-Read Cluster Kit (Illumina). The flowcell was then sequenced using the Illumina HiSeq2000. Sequencing files were de-multiplexed and adapters trimmed using CASAVA and FastXClipper, respectively. We aligned sequences 15-100 base-pairs in length to hg19 using Bowtie, and annotated these reads using mirBase v18. A total of 4 samples were excluded based on quality metrics, leaving airway brushing microRNA-Seq data from 30 participants with COPD and 30 participants without COPD. After excluding microRNA with fewer than 20 counts per sample, we evaluated the association of microRNA expression with FEV1% using a linear model adjusting for age, sex, smoking status, and pack-years of smoking as previously described. The replication of the ICS effects focused on the subset of COPD patients with known ICS status comparing ICS usage (n=6) to no ICS (n=24). The analysis was conducted using a linear model correcting for pack years.

GSEA Analysis

GSEA analysis was then used to confirm that negatively correlated miRNA predicted targets were altered following ICS treatment. This analysis was conducted by comparing miRNA predicted targets which were negatively correlated, to a list of genes ranked according to their strength of change in expression from ICS treatment to placebo between 6 months and baseline (2). Following this analysis, the predicted targets were studied in bronchial brushings from 63 smokers with COPD and 135 control smokers without a history of using ICS or oral

corticosteroids in an independent cohort using the continuous COPD-related measurement of FEV₁. Genes from the independent cohort were ranked based on t-statistic values comparing patients based on their FEV₁% predicted. GSEA was then utilised to investigate whether predicted miRNA gene targets of miRNAs altered both by ICS and in COPD were altered in COPD airway epithelium. A pvalue<0.05 was considered significant.

Validation in differentiated airway epithelial cells using air liquid-interface culture

Air liquid interface (ALI) culture of primary bronchial epithelial cells (PBECs) was conducted according to a previous publication (5). Briefly, PBECs obtained from suspension cultures were seeded at 75,000 in 200µl Bronchial Epithelial Cell Growth Medium (BEGM, Lonza) in the apical part of the insert and 500µl BEGM at the basolateral part. When the cell-layer was confluent (3-5 days) the cells were exposed to air at the apical side and Dulbecco's Modified Eagle Medium (DMEM) / Bronchial Epithelial Basal Medium (BEBM) (1:1) with retinoic acid (15ng/ml) added to the basolateral side (500µl). Medium was refreshed every 3 days with DMEM / BEBM (1:1) with retinoic acid (15ng/ml). Cells were quiesced on day 14 with BEBM medium for 24H and then treated with FP(10⁻⁸) for 24H. Total mRNA was then collected in Tri Reagent protocol (Molecular Research Center, Inc, OH, USA) and stored at -80°C.

PCR validation

Real time PCR was conducted on total RNA obtained from ALI culture and extracted using standard Tri Reagent protocol (Molecular Research Center, Inc). Total miRNA was selectively converted using miScript II RT Kit (Qiagen), with primers for miR-320d, miR-

339-3p and miR-708 and the housekeeping RNA RNU49. RT-PCR was conducted using Taqman primer system (Life Technologies), using an ABI7900HT PCR machine (Applied Biosystems).

NF- κ B activity assay

Human bronchial epithelial BEAS-2B cells were cultured as described previously (6). For transfection, cells were seeded in duplicates in RPMI/5% FBS at 1×10^5 in 24-well plates. After 24 hours, cells were then transfected with miR-320d mimic (1nM; Qiagen, Venlo, The Netherlands) and non-targeting control (1nM; Qiagen) using RNAimax (Invitrogen, Groningen, The Netherlands) and NF- κ B activity plasmid and a renilla luciferase protein control, grown to confluence, serum-deprived for 24 hours and treated with IL1B for 24 hours. Total protein was then collected for the Dual-Luciferase Reporter Assay System (Promega, Wisconsin, USA) according to manufactures' protocol. Sample NF κ B activity measurements were corrected for renilla luciferase protein in the lysate. Cigarette smoke extract (CSE) treatment was unable to be used in the current system as it influenced the Renilla plasmid, which is used as an internal to correct for transfection efficiency.

Supplementary Figures:

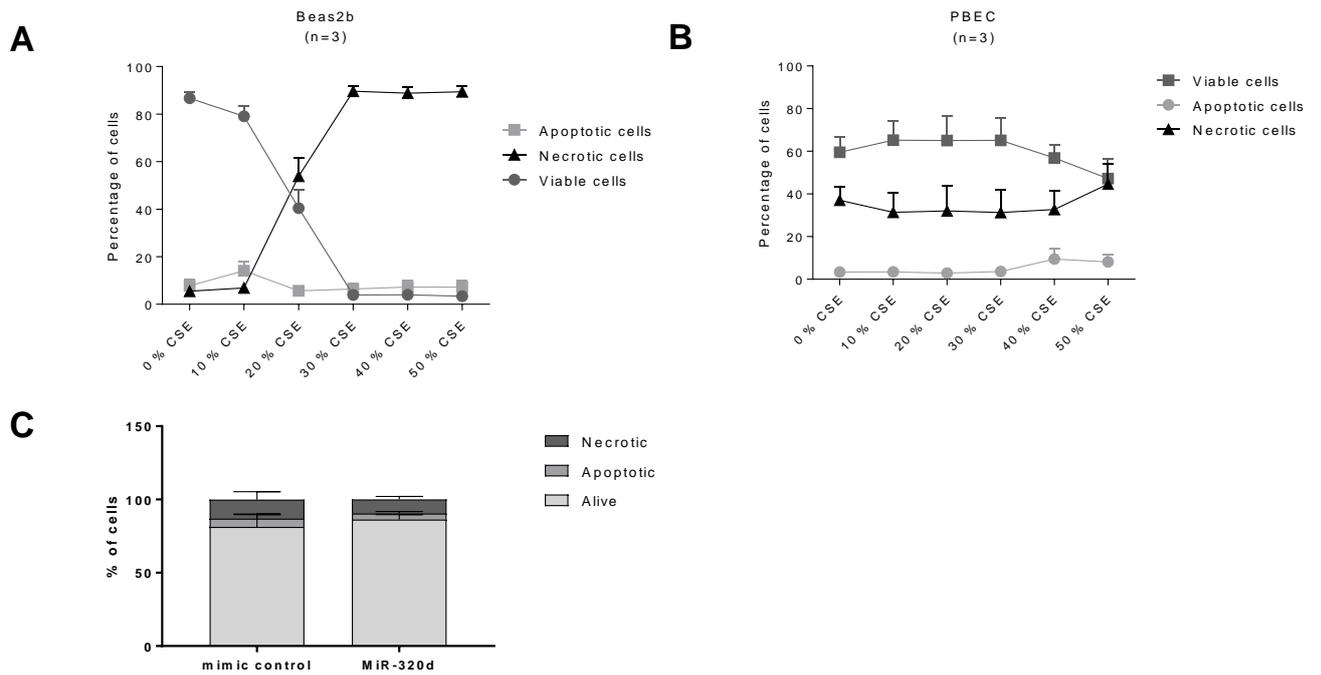


Fig S1. Cell viability staining. The influence of CSE exposure 0-50% of A) BEAS-2B and B) Primary Bronchial Epithelial Cells (PBEC)s and C) miR-320d overexpression on BEAS-2B. The levels of apoptotic, necrotic and viable cells were analyzed using Annexin-V/PI staining for flow cytometry.

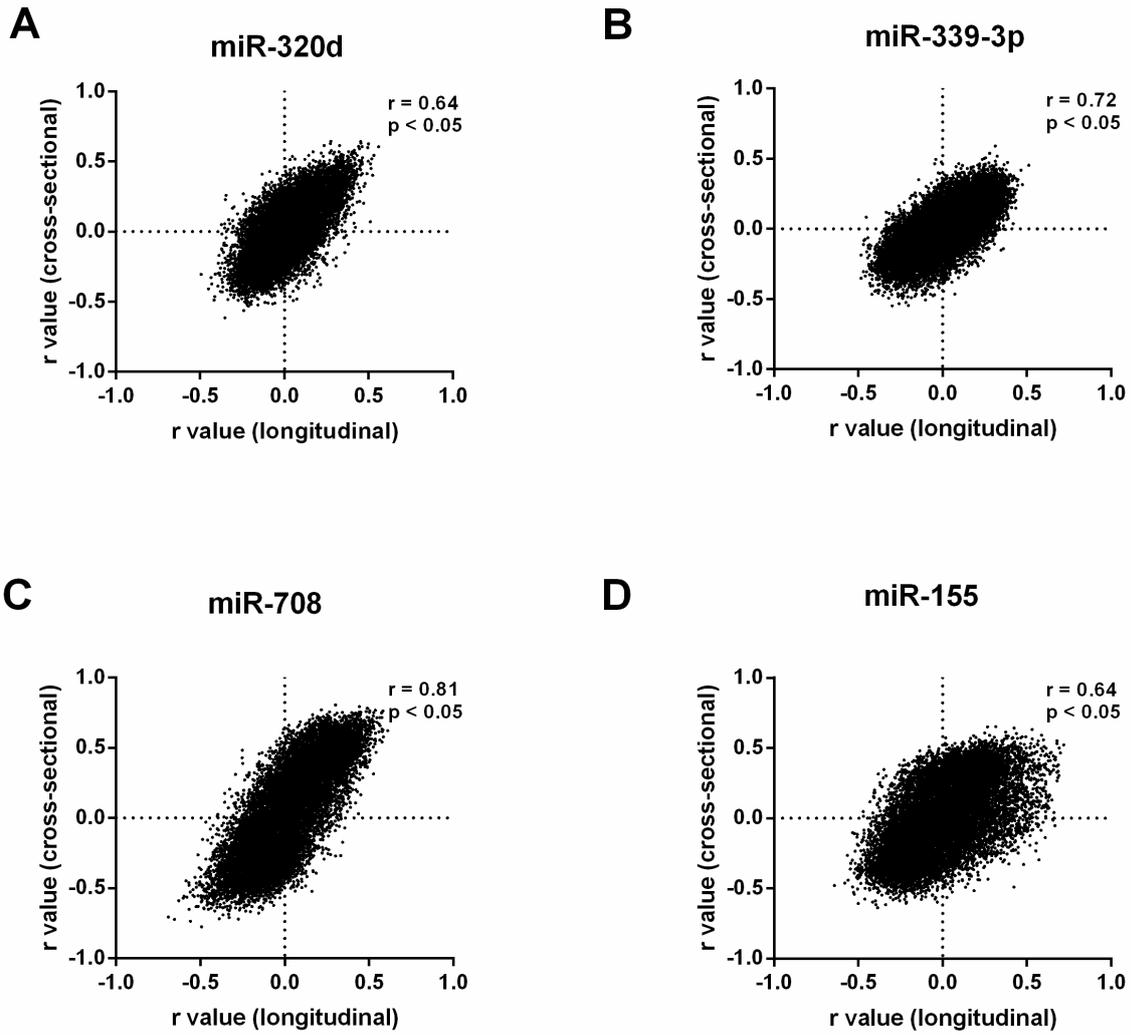


Fig. S2 Comparison between cross-sectional and longitudinal miRNA – mRNA correlation. MiRNA-mRNA Pearson correlations comparisons between cross-sectional at baseline and longitudinal analysis (6-0 months, in matched samples) for A) mir-320d, B) miR-339-3p, C) miR-708 and D) miR-155.

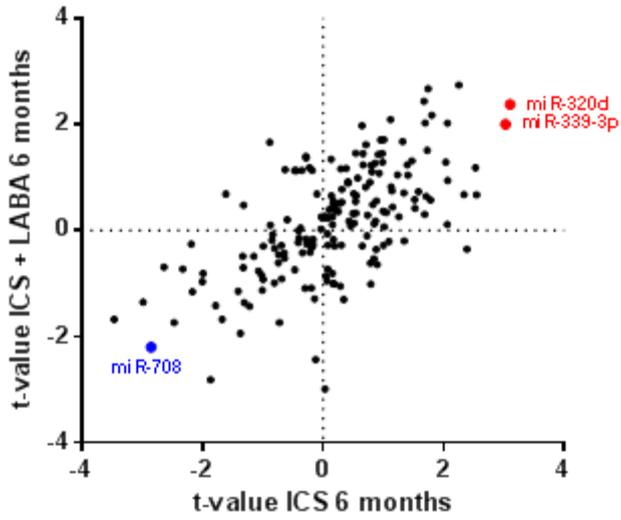


Fig. S3 Comparison of change in miRNA expression after 6 month of ICS vs placebo compared to miRNA expression after 6 month of ICS+ LABA vs placebo. Abbreviations ICS= Inhaled corticosteroids and LABA = Long-Acting Beta2-Agonists

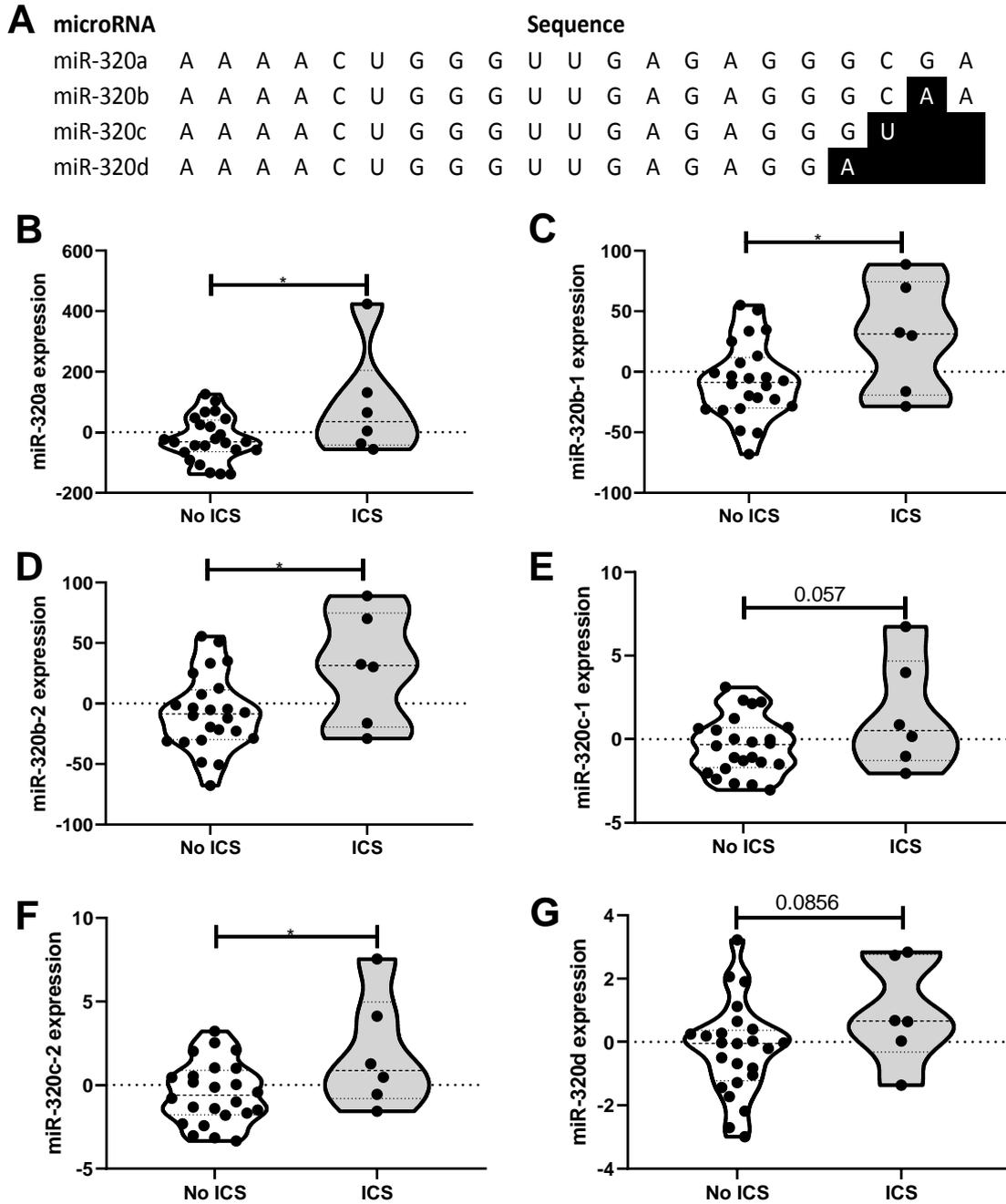


Figure S4 Replication of ICS sensitive miRNA in independent cross-sectional COPD

population. A) Overlap of miR-320 family sequences. MiRNA levels of bronchial brushes of COPD patients current with and without ICS treatment were measured using small RNA seq. Violin plots of B) miR-320a, C) miR-320b-1, D) miR-320b-2, E) miR-320c-1, F) miR-320c-2 and G) miR-320d. Plots show normalised gene expression counts corrected for pack years.

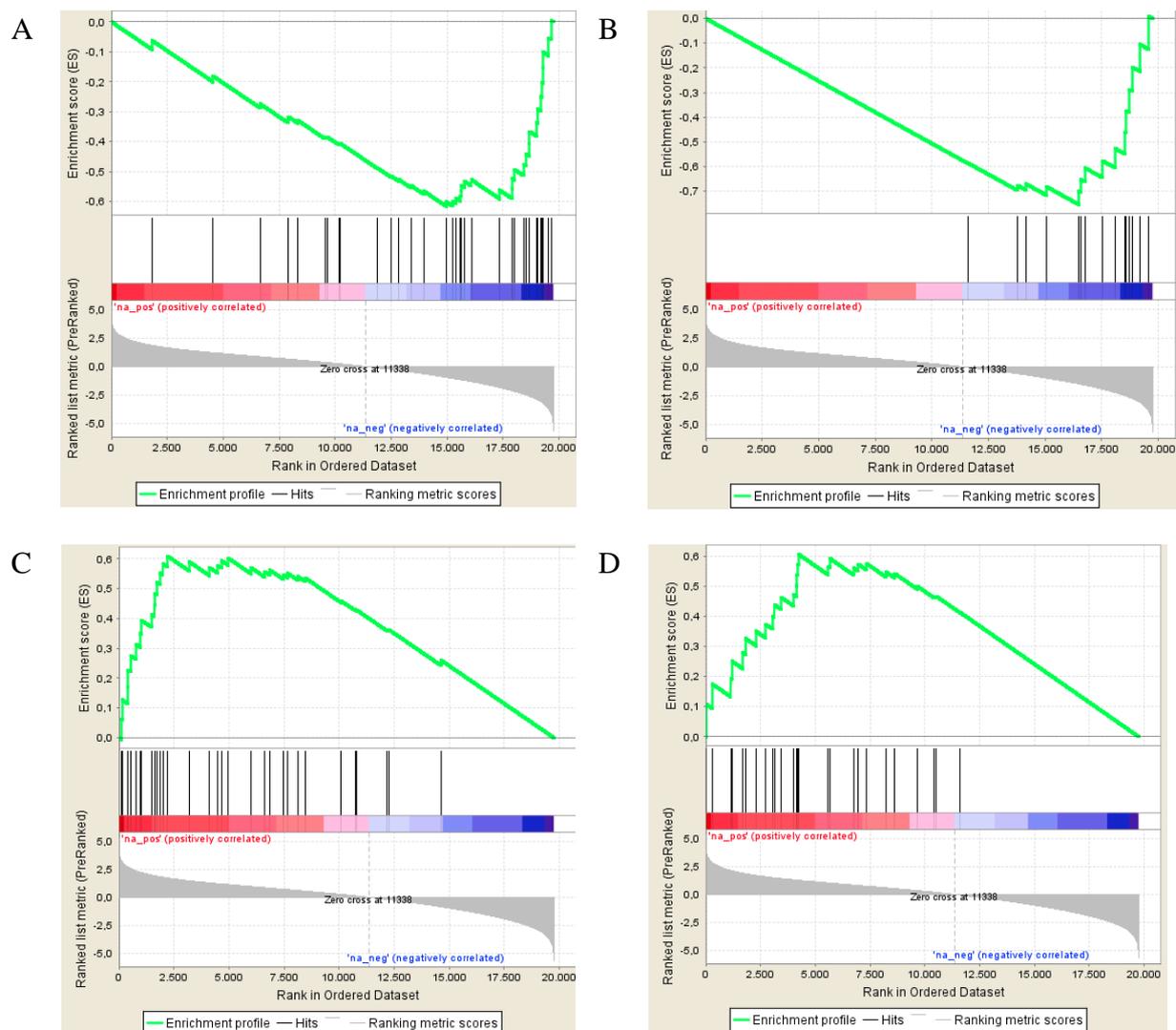


Fig S5 Gene Set Enrichment Analysis (GSEA) comparing negatively correlated miRNA predicted targets of A) miR-320d, B) miR-339-3p, C) miR-708 and D) miR-155-5p to

change in expression during 6 month ICS +/- LABA compared to placebo. The colour bar indicates the genes ranked according to their association with change in expression during 6 month ICS +/- LABA compared to placebo in bronchial biopsies (blue representing a negative association with ICS +/- LABA compared to placebo and red indicating a positive association).

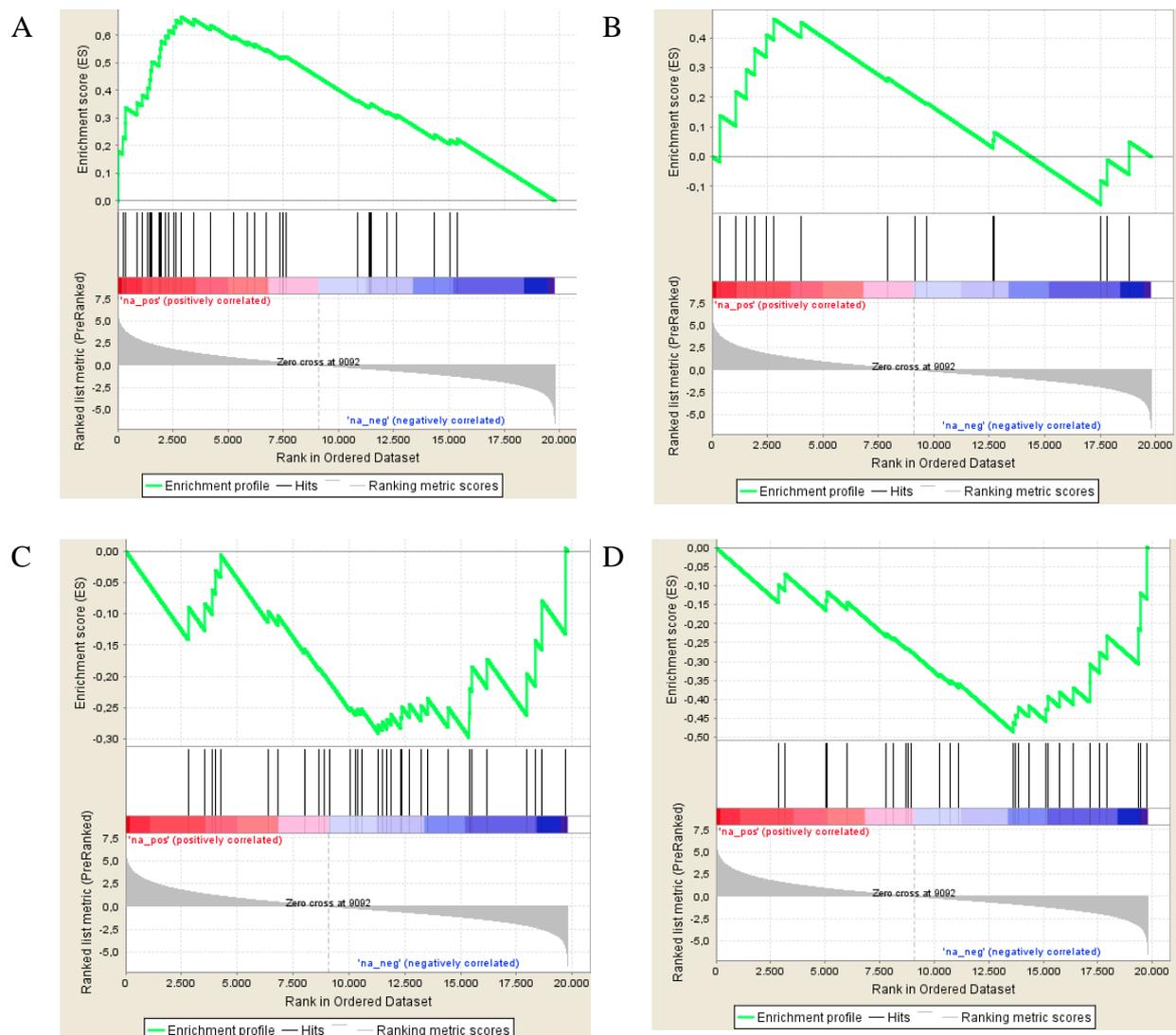


Fig S6 Gene Set Enrichment Analysis (GSEA) comparing negatively correlated miRNA predicted targets of A) miR-320d, B) miR-339-3p, C) miR-708 and D) miR-155-5p to

Primary Bronchial Epithelial Cells (PBECs) were grown to confluence and hormonally-deprived overnight and transfected with non-targeting miRNA (mimic control) or miR-320d was overexpressed. A) CXCL8 mRNA expression was measured during overexpression of miR-320d mimic and scrambled control (ScR) in response to 6-hour exposure to 20 % cigarette smoke extract (CSE) (n=5). B) String network analysis of 62 genes increased (fold change > 2, FDR < 0.05) in primary epithelial cells grown at ALI and treated with repeated cigarette smoke challenge (30mins exposure on four separate days), compared with no challenge. IL-1 β highlighted in the red text was identified as a hub gene in this network. C) Increased expression of IL-1 β in ALIs exposed to cigarette smoke. Values represent mean \pm SEM. D) GSEA analysis comparing the 62 genes increased by cigarette smoke to the NF- κ B pathway. This analysis found that cigarette smoke in ALI's increases the expression of genes associated with the activation of the NF- κ B pathway (p < 0.05). E) IL-1 β mRNA expression was measured during overexpression of miR-320d mimic and scrambled control (ScR) in response to 6-hour exposure to 20 % cigarette smoke extract (CSE) (n=5). Abbreviation ALI= Air Liquid Interface, IL-1 β = Interleukine-1 β and GSEA= Gene Set Enrichment Analysis. All measurements were compared to A paired t-test was used to test for statistical significance. * = p < 0.05

Table S1 Correlation between miRNA expression and mRNA expression at baseline and 6months-baseline

SNORD116	0.160027	-0.31963	0.259977	-0.0618	0.238743	0.017371	0.052987	0.650946	0.240743	-0.53075	0.305474	-0.3992	0.944424	8.82E-05	0.978123	0.003298
SNORD115	0.086805	-0.24077	0.07492	-0.18893	0.520838	0.073858	0.579661	0.159278	-0.05343	-0.15472	-0.03045	-0.16222	0.362161	0.152289	0.421302	0.140724
HBII-52-24	-0.05651	-0.25777	0.152897	-0.19209	0.676307	0.055113	0.256182	0.152299	0.072123	-0.38079	0.192299	-0.2388	0.683077	0.004517	0.897159	0.054989
HBII-52-27	-0.19849	-0.22841	0.099521	-0.12127	0.138839	0.090415	0.461397	0.368865	-0.14296	-0.49534	-0.02731	-0.3146	0.171615	0.000233	0.429328	0.016612
HBII-52-28	-0.05082	-0.1328	0.039541	0.008752	0.709905	0.333784	0.772321	0.948956	-0.3205	-0.12689	-0.10178	-0.03789	0.014946	0.200364	0.252932	0.401298
NAALADL1	0.031572	-0.11861	0.238517	-0.15191	0.815654	0.38394	0.073977	0.259301	0.035133	-0.3984	0.229591	-0.19961	0.591652	0.003051	0.935386	0.091758
CDKN2BAS	-0.16822	0.013389	0.041717	-0.23101	0.211002	0.921981	0.757995	0.083823	0.026761	-0.34819	0.126302	-0.31274	0.570065	0.008863	0.795807	0.017167
SIGLEC14	-0.20579	-0.1691	0.138102	-0.09206	0.124594	0.212805	0.305614	0.495807	0.013467	-0.44712	0.142542	-0.24222	0.53539	0.000919	0.824867	0.052419
SKCG-1	-0.12942	0.003488	-0.0859	0.111364	0.341772	0.979837	0.529047	0.413861	0.029114	-0.16643	-0.18077	-0.15526	0.575285	0.137274	0.120147	0.15424
LOC100049	-0.0307	-0.04861	-0.03444	0.034807	0.820659	0.722038	0.799219	0.797146	0.100882	-0.0707	0.002193	-0.14077	0.747643	0.320286	0.505703	0.175382
ACOT8	-0.27221	-0.00546	-0.11913	-0.36832	0.042398	0.96846	0.381856	0.005222	-0.45037	-0.12735	-0.1719	-0.2355	0.000953	0.202233	0.132261	0.0597
ABI1	-0.07577	0.386699	-0.33614	0.062256	0.575348	0.00324	0.010576	0.645478	-0.05876	0.530161	-0.12638	0.342851	0.349037	0.999925	0.204041	0.990163
GNPDA1	0.08361	0.345989	-0.29256	0.391168	0.536349	0.009003	0.027218	0.002624	0.048261	0.613503	-0.19597	0.496765	0.624946	0.999997	0.098493	0.999777
KCNE3	-0.2928	0.145687	-0.07729	0.054332	0.027084	0.284008	0.567708	0.688118	-0.26212	0.310732	-0.07866	0.268703	0.039224	0.982216	0.303753	0.964513
ZBTB33	-0.00949	0.143651	-0.22763	-0.04386	0.944146	0.290862	0.088586	0.745965	-0.18655	0.28576	-0.07639	0.192048	0.107234	0.972894	0.308983	0.899486
CDH3	-0.08784	0.149536	-0.1226	0.389225	0.515877	0.271338	0.363608	0.002767	-0.16056	0.666046	-0.17567	0.586015	0.143227	1	0.124197	0.999991
TANK	-0.15922	0.183237	-0.25641	0.172937	0.23681	0.176449	0.05419	0.198291	-0.10481	0.247285	-0.02841	0.248124	0.24409	0.951226	0.426509	0.95181
ZNF397OS	-0.09843	-0.03691	-0.04861	-0.01173	0.466357	0.787081	0.719521	0.931012	0.002324	-0.11202	0.181827	-0.18523	0.506043	0.231904	0.881251	0.111575
SRA1	0.012277	-0.05135	0.008132	0.056851	0.92778	0.707026	0.952127	0.674453	-0.1161	0.294323	-0.22293	0.145434	0.221145	0.976454	0.070516	0.832571
SNORA36C	-0.05693	-0.33455	0.017711	-0.03057	0.67405	0.011729	0.895964	0.821405	0.078227	-0.25605	0.162956	-0.1215	0.697336	0.042939	0.857589	0.210586
SNORA38B	0.104327	-0.37693	0.279554	-0.11382	0.444155	0.004559	0.036923	0.403562	-0.04611	-0.53751	0.18984	-0.39516	0.380444	5.86E-05	0.894176	0.003285
SNORA70B	-0.07214	-0.01699	-0.1248	0.07733	0.597236	0.902036	0.359424	0.571067	0.173278	-0.00156	0.025351	-0.12011	0.872505	0.495936	0.564876	0.215967
SNORA70C	0.049989	-0.2986	0.16005	-0.06746	0.711918	0.025394	0.234335	0.61806	0.08149	-0.30205	0.149091	-0.25189	0.704843	0.020668	0.835832	0.045634
LOC100125	-0.29695	-0.02035	0.210434	-0.07597	0.024888	0.881672	0.116137	0.574366	-0.14954	-0.31126	-0.04784	-0.27267	0.16062	0.01762	0.377493	0.033375
KIAA1024L	0.122749	-0.13652	0.033072	-0.32072	0.363007	0.31571	0.80706	0.015001	0.052902	-0.43616	0.081267	-0.30283	0.636518	0.001223	0.702185	0.020394
PRO0628	0.079406	-0.10204	-0.10141	-0.01538	0.560744	0.458527	0.457067	0.910423	0.052249	0.060706	0.005216	0.035607	0.633398	0.653998	0.513402	0.591813
hCG_20182	-0.06536	-0.22485	0.264929	-0.06636	0.629081	0.09569	0.046415	0.623826	0.070903	-0.62582	0.273689	-0.403	0.680194	1.65E-06	0.96556	0.002744
LOC100127	0.200794	0.019751	0.069229	0.08231	0.134218	0.885122	0.608861	0.542729	0.148511	-0.09026	0.2818	-0.07038	0.83769	0.275412	0.96963	0.321056
LOC100127	-0.00813	-0.16188	0.209208	0.00156	0.952582	0.233285	0.121757	0.990895	-0.0879	-0.23339	0.012852	-0.19749	0.280662	0.05926	0.533388	0.094159
LOC100127	-0.13689	-0.32903	0.114514	-0.2945	0.309909	0.013282	0.396325	0.026166	-0.10684	-0.30606	0.048853	-0.35769	0.239875	0.01929	0.625016	0.007332
LOC100127	0.08111	0.049962	0.219089	-0.15505	0.548645	0.714603	0.101547	0.24946	0.250504	-0.23963	0.463803	-0.20361	0.953437	0.054357	0.999334	0.087356
UNQ6484	0.032012	0.03338	0.15349	-0.16018	0.813128	0.807054	0.25432	0.23396	0.078339	-0.23867	0.130268	-0.32717	0.697595	0.05509	0.803148	0.013231
LOC100127	0.024447	0.088828	0.174891	-0.08426	0.856752	0.515032	0.193189	0.53319	-0.142	-0.18658	-0.03384	-0.19479	0.173258	0.107205	0.412658	0.097271
LOC100127	-0.03351	0.113629	-0.22257	-0.01066	0.804576	0.404365	0.096092	0.937294	0.276699	0.034714	0.018213	0.053874	0.968666	0.590577	0.547264	0.638927
RPL18AP11	0.037137	0.006332	-0.01502	0.113693	0.783886	0.963058	0.911726	0.399742	0.183256	0.154406	-0.08795	0.120596	0.888588	0.847217	0.282809	0.787662
LOC100128	0.058101	-0.23601	0.292043	-0.11306	0.667704	0.079921	0.027501	0.402397	-0.0256	-0.32424	0.201379	-0.27099	0.432954	0.013962	0.907665	0.034255
UNQ5840	-0.07584	-0.1175	0.161545	-0.19119	0.575021	0.388425	0.229936	0.154254	0.10945	-0.31451	0.20303	-0.18364	0.765491	0.016637	0.90949	0.110923
PP13439	0.123102	0.036244	0.000496	-0.01057	0.361619	0.790861	0.997076	0.937807	0.101312	0.184607	-0.02949	0.151961	0.748555	0.890313	0.423757	0.843309
RPS7P10	-0.0446	0.088017	-0.06557	-0.12439	0.741826	0.518891	0.627983	0.356594	0.057984	0.086544	-0.13744	-0.11663	0.649053	0.716302	0.183978	0.220079
LOC100128	-0.02279	-0.27872	0.135159	-0.04303	0.866374	0.037513	0.316135	0.750613	0.146258	-0.20445	0.088124	-0.1682	0.833952	0.08645	0.71757	0.131916
RPS26P39	-0.13839	0.196295	-0.04407	-0.3055	0.304613	0.147072	0.744813	0.020837	-0.11962	-0.07495	0.001682	-0.10088	0.21424	0.310292	0.504376	0.252353
LOC100128	0.062525	-0.06266	-0.0224	-0.05465	0.644048	0.646393	0.868637	0.686363	0.248167	-0.37078	0.058843	-0.25729	0.951839	0.005596	0.649494	0.042159
LOC100128	0.2639	-0.06623	0.063269	0.042138	0.049379	0.630922	0.643185	0.75781	0.287935	-0.16201	0.36486	-0.14672	0.972445	0.143839	0.992557	0.168088
LOC100133	0.008273	-0.26846	0.133909	-0.34993	0.951296	0.045443	0.320673	0.007623	0.101148	-0.45619	0.326332	-0.46323	0.748207	0.00072	0.985657	0.000594
LOC100128	0.00301	-0.11675	0.129024	-0.16895	0.982271	0.391506	0.338802	0.209	0.304747	-0.22993	0.328749	-0.22962	0.980266	0.062122	0.986271	0.06238
LOC100128	-0.03049	0.177918	0.006038	-0.30244	0.823459	0.19375	0.964772	0.023481	0.151091	-0.20862	-0.05143	-0.19862	0.841904	0.082061	0.368627	0.092873
LOC100128	0.022796	-0.0976	0.219519	-0.08549	0.866336	0.474232	0.100861	0.527191	0.250189	-0.30137	0.146211	-0.24574	0.953224	0.020908	0.831064	0.049867
LOC100128	0.088695	-0.10964	0.080715	-0.14432	0.511766	0.421186	0.550602	0.284142	0.060237	-0.45456	0.24301	-0.35096	0.654561	0.000753	0.946138	0.008391
GAF3	0.174078	-0.02242	0.054983	-0.12747	0.195299	0.869744	0.684578	0.344705	0.119199	-0.05209	0.07315	-0.13995	0.782274	0.366995	0.681495	0.179593
LOC100128	0.178725	-0.00375	0.037648	0.02995	0.183457	0.978111	0.780983	0.82497	0.372363	-0.32262	0.108611	-0.21509	0.994588	0.014381	0.761207	0.075571

LOC10012E	-0.00697	-0.24503	0.007797	-0.28686	0.95894	0.068737	0.954097	0.030505	-0.10504	-0.03881	0.196815	-0.23863	0.243602	0.398955	0.902484	0.055126
LOC10013E	0.337257	-0.26822	0.230133	-0.06812	0.011028	0.047711	0.087952	0.617887	0.23385	-0.28928	0.234943	-0.2721	0.938959	0.026967	0.937626	0.035284
LOC10012E	0.00558	-0.33291	0.124729	-0.11056	0.967139	0.012176	0.355258	0.412921	0.184094	-0.29776	0.209747	-0.39303	0.88966	0.022227	0.916647	0.003446
LOC10012E	0.100529	0.185847	0.048759	-0.01817	0.456847	0.170261	0.718709	0.893287	0.148266	-0.06354	-0.15828	0.121869	0.837285	0.337413	0.14953	0.790115
LOC10012E	-0.10057	-0.33627	0.071858	-0.40946	0.456673	0.011279	0.59529	0.001563	0.002357	-0.5406	0.193509	-0.29259	0.506203	5.26E-05	0.898606	0.024235
OCR1	0.027758	0.090271	-0.05758	-0.02196	0.837599	0.508201	0.670531	0.871222	0.203237	0.043241	-0.11311	-0.13537	0.912239	0.612307	0.229707	0.184867
RP11-429E	0.039729	-0.11897	0.273402	-0.17626	0.769201	0.382497	0.03961	0.18967	0.148492	-0.09583	0.213607	-0.25162	0.837658	0.263185	0.92057	0.045811
TMEM210	-0.0375	-0.18023	0.303426	-0.06174	0.781806	0.183787	0.021765	0.648246	0.186093	-0.41438	0.168412	-0.19828	0.89219	0.002098	0.86561	0.093254
BET3L	-0.02944	-0.06673	0.137997	-0.13975	0.827883	0.625081	0.305988	0.299829	0.106023	-0.29558	0.207635	-0.23663	0.758435	0.023055	0.914442	0.056675
LOC10012E	-0.05473	-0.2107	0.140161	-0.05475	0.685934	0.119054	0.298389	0.685823	0.118845	-0.384	0.168497	-0.33515	0.784259	0.004211	0.865732	0.011398
LOC10012E	0.017349	-0.11184	0.196454	-0.15252	0.898075	0.411835	0.143016	0.257354	0.068419	-0.33877	0.167423	-0.22469	0.674293	0.010641	0.864177	0.066641
LOC10012E	-0.06975	-0.18475	0.129138	-0.37789	0.606134	0.172844	0.338373	0.003754	-0.27556	-0.07746	-0.07872	-0.06586	0.031899	0.304439	0.303629	0.331825
LOC10012E	0.042495	-0.1271	0.229406	-0.20115	0.753623	0.350591	0.086055	0.133509	0.037651	-0.4458	0.156341	-0.42135	0.598096	0.000952	0.847455	0.001771
LOC10013E	-0.16763	-0.09659	0.134407	0.315544	0.212618	0.478838	0.318861	0.016804	0.027668	0.009866	0.011226	-0.09615	0.572413	0.525943	0.529173	0.262503
LOC10012E	0.198454	0.009791	0.264633	-0.00704	0.138909	0.942906	0.046669	0.958553	0.1563	-0.18848	0.120377	-0.31677	0.850201	0.104837	0.784552	0.01598
LOC10012E	0.130768	-0.015	0.020188	0.059123	0.332259	0.91261	0.881509	0.662214	0.139438	0.030917	0.118133	0.180687	0.822313	0.58081	0.780201	0.885254
LOC10012E	-0.06811	-0.24661	0.086891	-0.14173	0.614663	0.066919	0.520419	0.292954	-0.0791	-0.38631	0.073588	-0.28808	0.30064	0.004003	0.68453	0.026102
LOC10012E	-0.15462	-0.07233	0.060937	-0.17298	0.250782	0.596305	0.6525	0.198165	-0.03247	-0.33347	-0.1639	-0.32241	0.41615	0.012593	0.143864	0.015387
LOC10012E	-0.23003	0.114197	-0.25376	0.26737	0.085185	0.402006	0.056821	0.044363	-0.00359	0.127901	-0.23218	0.087599	0.490549	0.801525	0.062423	0.718667
UQCRFSL1	0.101399	0.245281	-0.2098	0.10297	0.452941	0.068446	0.117274	0.445934	-0.07408	0.573061	-0.2277	0.374865	0.312314	0.999984	0.066247	0.994869
LOC10012E	0.381345	0.038959	0.223446	-0.24809	0.003425	0.775586	0.09476	0.062777	0.474546	-0.22366	0.289882	-0.20933	0.999505	0.069845	0.97185	0.083789
CTAGE4	-0.14646	-0.12232	-0.16809	-0.23116	0.285967	0.378221	0.21992	0.089506	-0.18828	0.150294	-0.20293	0.000234	0.105095	0.84061	0.090622	0.500616
UNQ353	-0.01181	0.477641	-0.13872	-0.07996	0.930517	0.000197	0.303428	0.554327	0.066432	0.437986	-0.28197	0.214001	0.669542	0.998834	0.03029	0.923366
C19orf71	0.036782	-0.25774	0.297026	-0.19728	0.7859	0.055143	0.024851	0.141312	0.0263	-0.37625	0.187733	-0.34327	0.568869	0.004982	0.891571	0.009757
LOC10012E	-0.1326	-0.17392	-0.17785	0.049386	0.325485	0.19987	0.185634	0.715249	0.038068	0.05026	0.081165	0.186993	0.598039	0.628496	0.699776	0.890647
LOC10012E	-0.01169	0.301762	-0.2841	0.160759	0.93124	0.023807	0.032213	0.232242	0.024774	0.425743	0.041661	0.396878	0.564909	0.99841	0.607083	0.996841
SSX10	0.01416	-0.21889	0.279646	-0.3385	0.917502	0.105058	0.036859	0.010718	0.110833	-0.1555	0.137576	-0.24582	0.768307	0.151056	0.816263	0.049808
LOC10012E	-0.11583	0.085649	0.074606	-0.02981	0.390871	0.530239	0.581252	0.825781	-0.18027	0.230263	-0.23419	0.145796	0.118006	0.93596	0.062994	0.83037
LOC10012E	-0.04208	-0.02896	-0.00629	-0.06364	0.755949	0.832199	0.962957	0.638114	-0.03012	-0.09957	-0.08535	-0.08924	0.421244	0.255146	0.288609	0.277664
UNQ6487	-0.01389	-0.17059	0.182274	-0.02676	0.919043	0.213039	0.178772	0.844815	0.166632	-0.23672	0.143176	-0.22859	0.865812	0.056601	0.825947	0.063255
LOC10013E	0.134802	0.11399	-0.11519	-0.0107	0.317429	0.402866	0.393544	0.937023	0.023093	0.032751	-0.0626	0.022404	0.560537	0.585534	0.341455	0.558744
LOC10012E	0.10723	0.021008	0.170878	-0.10791	0.427239	0.877861	0.203767	0.424275	0.128226	-0.07491	0.142483	-0.17261	0.80213	0.310382	0.824767	0.125673
LOC10012E	-0.06439	-0.18016	0.137629	-0.29304	0.634176	0.183949	0.307289	0.026952	0.084541	-0.29864	0.243643	-0.22876	0.711784	0.021901	0.946608	0.063113
LOC10012E	-0.11151	-0.08044	-0.09481	-0.09806	0.413251	0.559372	0.487022	0.472131	0.058026	-0.16985	0.018991	-0.16886	0.649157	0.129555	0.549271	0.130964
LOC10012E	0.016929	0.068036	0.106678	-0.06304	0.901444	0.621622	0.433897	0.644413	0.052713	-0.25472	-0.05176	-0.22948	0.636049	0.043784	0.367796	0.062503
LOC10012E	-0.18266	-0.1255	0.001316	-0.10457	0.173849	0.356739	0.992249	0.438847	0.117408	-0.282	-0.0278	-0.25308	0.781444	0.028801	0.428069	0.044847
LOC10012E	-0.02103	-0.07797	0.12008	-0.22338	0.876581	0.567858	0.373615	0.094862	0.298239	-0.42562	0.351046	-0.41624	0.977951	0.001595	0.990971	0.002006
LOC10012E	-0.02415	-0.00559	-0.05639	-0.14729	0.858491	0.967359	0.676964	0.274254	0.18667	-0.20687	-0.039	-0.10539	0.890241	0.086368	0.40077	0.245416
C9orf130	-0.02381	-0.00668	0.231308	-0.09698	0.860449	0.961048	0.083414	0.47296	0.056724	-0.28359	0.159116	-0.29848	0.64596	0.028075	0.851762	0.021959
GS85	-0.13688	0.087592	0.177799	-0.22179	0.309946	0.520919	0.185774	0.097302	0.027062	-0.3173	0.053861	-0.38745	0.570034	0.016841	0.635795	0.004275
LOC10012E	-0.06163	-0.30514	0.018835	-0.24854	0.651814	0.023491	0.890413	0.064735	-0.1071	-0.38777	0.005601	-0.15779	0.239335	0.003876	0.514565	0.147479
LOC10013E	-0.06878	-0.03661	0.064084	-0.43308	0.61119	0.7888	0.635793	0.000766	0.008756	-0.30384	0.023011	-0.33002	0.523027	0.020043	0.559633	0.012551
UNQ3104	-0.02136	-0.06585	0.143487	0.052277	0.874682	0.629677	0.286956	0.699344	0.090906	-0.14783	0.111131	-0.1573	0.726025	0.163441	0.766315	0.148244
UNQ6126	-0.00901	-0.33231	0.174364	-0.09041	0.94697	0.01234	0.194555	0.503589	0.111415	-0.57694	0.184197	-0.47226	0.769486	1.35E-05	0.887102	0.00046
LOC10012E	0.126344	-0.00947	0.207051	-0.14834	0.349015	0.944789	0.122256	0.270783	0.285354	-0.14616	0.21076	-0.12476	0.972715	0.166217	0.917691	0.204379
LOC10012E	-0.02855	-0.14143	0.0272	-0.05134	0.834566	0.303026	0.842272	0.707067	-0.08897	-0.10357	-0.02295	-0.21932	0.28056	0.249191	0.441225	0.073876
LOC10012E	-0.12552	-0.27127	0.185882	-0.06468	0.356638	0.045143	0.170179	0.635791	0.022039	-0.35613	0.017373	-0.25253	0.557131	0.008173	0.544561	0.047105
LOC10012E	-0.09579	0.112331	-0.09903	0.068091	0.478447	0.40979	0.463627	0.614776	0.072622	0.063911	-0.1167	0.011729	0.682278	0.661695	0.225312	0.530477
LOC10013E	-0.1347	-0.1747	0.211307	-0.16738	0.317809	0.197814	0.114596	0.21332	-0.17744	-0.09571	0.085308	-0.1739	0.119058	0.263463	0.711297	0.123875
LOC10012E	0.090125	0.080363	0.187144	-0.0659	0.504955	0.556015	0.163331	0.626235	0.234178	-0.17254	0.012226	0.06912	0.941376	0.125761	0.531767	0.675962

LOC10012E	-0.13939	0.101406	-0.08152	-0.36298	0.301094	0.457082	0.546634	0.005519	-0.2661	0.122511	-0.23198	-0.12223	0.036931	0.791347	0.06259	0.209183
LOC10012E	-0.03118	-0.08341	-0.22164	-0.00912	0.817881	0.541093	0.097535	0.946314	-0.22922	0.04601	-0.0298	-0.04075	0.067237	0.6166	0.424767	0.396418
LOC10012E	0.05352	-0.06914	-0.04248	0.068233	0.69524	0.615963	0.755896	0.617302	0.1809	-0.01062	0.20935	0.000101	0.88282	0.472412	0.913694	0.500262
LOC10012E	0.108086	-0.12519	0.27337	-0.17092	0.423534	0.357923	0.039634	0.203656	0.19332	-0.32886	0.078129	-0.26679	0.898381	0.013702	0.692905	0.038234
LOC10012E	-0.01158	-0.16175	0.258956	-0.11803	0.93189	0.233648	0.051765	0.381898	0.117614	-0.30106	0.054167	-0.23412	0.781849	0.021021	0.638105	0.058674
LOC10012E	-0.0082	-0.00112	0.090869	-0.2582	0.951716	0.993491	0.50143	0.052479	0.078245	-0.20474	0.09	-0.17607	0.697377	0.086141	0.721715	0.120905
C20orf181	-0.08728	-0.19941	0.128683	-0.22048	0.518538	0.140631	0.34009	0.099333	0.11112	-0.45775	0.19673	-0.29771	0.76889	0.00069	0.902387	0.022245
RPLP1P4	-0.0769	0.188699	-0.1773	0.113668	0.569675	0.163683	0.187043	0.399846	-0.12564	0.51817	-0.2432	0.438678	0.202706	0.999887	0.053722	0.998854
UNQ5815	0.084127	0.052578	-0.05714	-0.0813	0.537602	0.703028	0.675721	0.551386	-0.20841	0.053296	-0.02958	0.151052	0.082275	0.637496	0.423529	0.841841
LOC10012E	0.197756	-0.00073	0.147718	-0.11327	0.140332	0.995713	0.272831	0.401523	0.107134	-0.15111	-0.141	-0.25947	0.760733	0.158068	0.177782	0.040812
LOC100133	0.093354	-0.07905	0.261823	-0.08488	0.489754	0.562515	0.049138	0.530133	-0.0098	-0.28353	0.023571	-0.13964	0.474237	0.0281	0.561072	0.177342
C14orf33	-0.00346	-0.09162	0.259351	-0.15501	0.979621	0.501873	0.051396	0.249598	0.238899	-0.35751	0.199081	-0.2532	0.945084	0.007359	0.905082	0.04477
HIGD1D	0.099585	-0.02747	0.086907	-0.32436	0.461106	0.840744	0.520344	0.013835	0.220408	-0.10425	0.107157	-0.0274	0.929478	0.245252	0.75823	0.428274
hCG_20041	-0.05408	-0.19628	0.147575	-0.13429	0.692232	0.150944	0.277746	0.323782	-0.13158	-0.44259	-0.05655	-0.38011	0.191694	0.001035	0.356086	0.004584
LOC10012E	0.087843	-0.07789	0.093066	-0.07065	0.515844	0.568249	0.491096	0.601515	0.158692	-0.22096	-0.04045	-0.14056	0.853916	0.070012	0.395951	0.175733
LOC10012E	0.142886	0.063599	0.134831	-0.07668	0.293466	0.644588	0.321804	0.574341	0.265618	0.122989	-0.05314	-0.03468	0.962799	0.792262	0.364404	0.409514
RP11-257K	-0.16643	-0.00557	0.028575	-0.25812	0.215956	0.967481	0.832889	0.05255	0.013504	-0.31598	0.068869	-0.45119	0.535489	0.016208	0.673473	0.000825
LOC10012E	-0.24194	0.223874	-0.0914	-0.32485	0.069802	0.097184	0.498918	0.013681	-0.05712	-0.11076	0.082426	-0.28135	0.353062	0.231837	0.70481	0.029101
LOC100133	0.182111	-0.08057	0.127296	0.059182	0.179167	0.55871	0.349828	0.664821	0.015724	-0.28236	-0.0255	-0.28695	0.541303	0.028636	0.43398	0.026589
LOC100133	0.117578	0.096524	0.10543	0.012789	0.383722	0.479142	0.435081	0.924778	0.02406	-0.10298	0.126322	0.073543	0.563054	0.247931	0.795843	0.686419
RP11-90M	0.022832	-0.0628	0.121934	-0.36605	0.866127	0.645668	0.366225	0.005105	0.133921	-0.35321	0.18252	-0.31279	0.812543	0.008024	0.884937	0.017152
LOC10012E	-0.08307	0.079887	0.121664	-0.1714	0.538996	0.558363	0.367298	0.202364	0.018061	-0.01633	0.210741	-0.09734	0.547415	0.457114	0.917671	0.259935
LOC10012E	0.103825	-0.03531	0.216515	0.049857	0.442145	0.796139	0.10573	0.712645	0.20545	-0.3382	0.43282	-0.24424	0.914617	0.010756	0.998509	0.05094
C1orf68	0.174073	0.03584	0.348972	-0.14459	0.199462	0.795038	0.008389	0.287686	0.273315	-0.36885	0.195686	-0.20683	0.966959	0.005828	0.901172	0.083925
LOC10012E	0.093759	-0.3255	0.195715	-0.08552	0.491881	0.015309	0.148294	0.530878	0.058021	-0.35006	0.098567	-0.38522	0.649144	0.008542	0.740268	0.0041
LOC10012E	-0.06575	0.23205	-0.19004	-0.43688	0.626994	0.085266	0.156802	0.000679	-0.0698	0.110339	-0.0136	-0.0862	0.322414	0.767303	0.464671	0.284477
LOC10012E	0.077551	0.16173	0.066885	-0.31199	0.573591	0.242656	0.627546	0.020402	-0.03217	-0.18168	0.033434	-0.15089	0.415969	0.113449	0.586298	0.158419
UNQ3118	-0.10407	0.177831	-0.17724	0.079439	0.441061	0.189781	0.187173	0.55694	-0.15341	0.272631	-0.33277	0.027339	0.157182	0.964999	0.013652	0.570744
LOC10012E	-0.00852	-0.08624	0.045275	-0.23045	0.949819	0.527386	0.738065	0.0846	0.132834	-0.11818	0.131578	-0.28818	0.807814	0.219706	0.802718	0.027447
LOC10012E	0.0512	-0.14902	0.310402	-0.16816	0.705254	0.273022	0.018777	0.211161	0.228971	-0.5064	0.307609	-0.41158	0.93707	0.000165	0.980088	0.002243
LOC10012E	-0.08493	-0.01797	0.09777	-0.08192	0.529916	0.895434	0.469356	0.544663	0.131451	-0.29088	0.200403	-0.26393	0.808067	0.024928	0.906575	0.038164
LOC10012E	-0.03187	-0.32454	0.014144	-0.04037	0.813946	0.014675	0.916832	0.765611	0.054544	-0.35143	0.171391	-0.22492	0.640586	0.008314	0.86986	0.066439
LOC10012E	-0.10902	0.029464	-0.17216	0.045313	0.423823	0.830909	0.204517	0.740181	0.006458	-0.07895	-0.0433	0.170981	0.516989	0.301004	0.388821	0.872048
LOC100133	-0.1	-0.13646	-0.03784	-0.34366	0.463377	0.320494	0.781878	0.009508	-0.083	-0.43312	0.170654	-0.20387	0.291717	0.001321	0.868817	0.087076
LOC10012E	0.083869	-0.20004	0.300527	-0.18734	0.535086	0.139363	0.02312	0.162888	0.176222	-0.50343	0.213773	-0.47174	0.8793	0.000181	0.920735	0.000467
LOC10012E	0.256097	-0.26789	0.331979	-0.23733	0.054498	0.045919	0.011641	0.075469	0.302584	-0.39803	0.022438	-0.27681	0.97952	0.003077	0.558159	0.031281
LOC100133	0.13417	-0.30661	0.071831	0.225298	0.319723	0.021541	0.59543	0.091985	0.142483	-0.39104	0.158992	-0.10468	0.82757	0.003603	0.85157	0.244359
LOC10012E	-0.10129	-0.01435	0.02413	-0.22713	0.453438	0.916394	0.858591	0.089308	0.132667	-0.27229	0.190958	-0.11832	0.810278	0.033571	0.895539	0.216768
LOC10012E	-0.0145	-0.08792	0.202073	-0.2288	0.915542	0.523288	0.135299	0.089853	-0.08021	-0.32934	0.255655	-0.20565	0.300227	0.013583	0.95303	0.087664
LOC10012E	0.083474	-0.10413	0.329714	-0.1767	0.540772	0.4493	0.013082	0.192666	0.118608	-0.1808	0.392868	-0.23387	0.781126	0.117316	0.99583	0.061026
LOC10012E	-0.18771	-0.06685	-0.06825	-0.02106	0.162034	0.624485	0.613953	0.876451	-0.15184	0.080217	-0.26516	-0.05582	0.15969	0.699795	0.040973	0.357845
ZNF37B	0.118374	0.005229	0.003632	0.157427	0.380491	0.969489	0.97861	0.242192	0.285992	-0.21163	0.340221	-0.16115	0.971577	0.081419	0.98808	0.14514
LOC10012E	0.036792	-0.07885	0.210905	-0.1494	0.785843	0.563493	0.115304	0.267346	0.116845	-0.17806	0.070886	-0.1816	0.780336	0.118224	0.678218	0.113553
LOC10012E	0.011605	-0.06333	0.016835	-0.20863	0.931723	0.642882	0.901085	0.119379	-0.07398	-0.18362	-0.05103	-0.32047	0.312554	0.110946	0.369614	0.014952
LOC10012E	-0.12776	0.056472	-0.3479	0.044569	0.343577	0.679316	0.008006	0.742009	-0.17987	0.35481	-0.28328	0.363954	0.115814	0.992229	0.02967	0.993549
LOC10012E	0.139942	-0.11979	0.201638	0.098504	0.299152	0.379184	0.132555	0.466007	-0.11549	-0.16989	0.033794	0.186245	0.222346	0.129503	0.587212	0.892381
LOC10012E	0.047828	-0.12759	0.233407	-0.33184	0.723866	0.348704	0.080574	0.011679	0.005685	-0.35524	0.168857	-0.38019	0.514955	0.007703	0.866249	0.004576
LOC100133	-0.08437	-0.15198	-0.19334	-0.11303	0.532624	0.263503	0.149593	0.402519	0.15889	0.009368	0.088641	-0.0449	0.854221	0.524634	0.718715	0.383505
LOC10012E	-0.14509	-0.10622	0.116033	-0.45183	0.281535	0.435884	0.390048	0.000418	-0.26538	-0.3626	0.10367	-0.29666	0.037333	0.006633	0.751019	0.022643
LOC10012E	0.047017	-0.13362	0.290781	-0.18124	0.728366	0.326216	0.028209	0.177267	0.118493	-0.26658	0.197327	-0.29958	0.78357	0.036661	0.903076	0.021553

ZNF730	0.004656	0.043249	-0.1065	-0.21334	0.97258	0.751629	0.430431	0.111073	0.237522	-0.36323	0.015935	-0.26871	0.944022	0.006548	0.541374	0.035482
LOC100129	0.138926	0.209196	-0.10891	0.138809	0.302711	0.12178	0.419997	0.30312	0.153826	0.142669	-0.00073	0.145537	0.846296	0.827888	0.498091	0.832744
LOC100129	-0.10032	-0.07354	-0.01176	-0.37635	0.457799	0.590138	0.930799	0.00391	-0.31714	-0.29734	-0.12022	-0.07614	0.015875	0.022387	0.215748	0.307512
LOC100129	0.078617	-0.2278	0.308885	-0.19252	0.561039	0.091306	0.019395	0.151357	0.080278	-0.43258	0.138791	-0.46419	0.702064	0.001339	0.818391	0.000578
LOC100129	-0.1217	-0.16645	0.127028	-0.14315	0.367137	0.220178	0.34639	0.28809	-0.02418	-0.50568	0.144497	-0.36424	0.436643	0.000169	0.828186	0.006413
FAM47E	-0.08018	-0.09469	0.037545	-0.17795	0.553231	0.487551	0.781567	0.185402	-0.23085	-0.24265	0.033043	-0.13838	0.061349	0.0521	0.585302	0.179531
UNQ3029	0.054259	-0.20496	0.041514	-0.20661	0.693992	0.137079	0.763463	0.130161	0.076227	-0.08838	-0.04908	-0.12072	0.690647	0.281864	0.374417	0.214789
LOC100133	-0.08895	0.038939	0.175057	-0.33228	0.510569	0.7757	0.192762	0.011561	0.280173	-0.29991	0.129093	-0.43379	0.968846	0.022664	0.798186	0.001456
LOC100133	-0.21581	0.206075	-0.22973	-0.08772	0.106902	0.127572	0.0856	0.516446	-0.1322	0.140195	-0.06268	0.029791	0.190573	0.823628	0.341259	0.577905
LOC100129	0.269224	0.015002	0.121826	0.111345	0.042855	0.912616	0.366654	0.409607	0.237184	0.032482	0.1277	-0.11343	0.941651	0.583877	0.795618	0.229068
LOC100129	-0.00915	-0.22148	0.175924	-0.26334	0.94617	0.100907	0.190533	0.047795	0.041478	-0.49324	0.363054	-0.48927	0.607839	0.000248	0.992881	0.00028
LOC100129	0.013111	-0.02627	0.172128	-0.07839	0.923598	0.84901	0.204609	0.565771	0.26238	-0.38294	0.091868	-0.29522	0.96093	0.004311	0.725813	0.023197
LOC100129	-0.13107	-0.23768	0.178089	-0.07598	0.335616	0.077748	0.189128	0.577844	0.082485	-0.45318	0.34182	-0.35884	0.707114	0.000782	0.989224	0.007164
RPL17P18	0.092465	0.21536	-0.2541	0.163195	0.493912	0.11093	0.056476	0.225148	0.171423	0.26267	-0.23594	0.196935	0.87267	0.961101	0.059346	0.905208
LOC100133	0.311027	0.063103	0.010725	0.057299	0.018527	0.64406	0.936889	0.672033	0.018109	0.077786	-0.0494	0.102956	0.54754	0.696315	0.373617	0.752025
LOC100133	-0.05445	0.229792	0.001381	0.36966	0.687505	0.088437	0.991866	0.004654	0.054543	0.183599	-0.15353	0.165587	0.640583	0.889028	0.156986	0.864284
LOC100129	0.076081	0.018968	0.139542	-0.21584	0.57732	0.890675	0.305026	0.110112	-0.1077	0.046491	-0.07806	-0.12674	0.238095	0.620505	0.305131	0.200652
LOC100133	0.054677	-0.03239	-0.11961	0.013697	0.686241	0.812699	0.375512	0.919453	0.145801	-0.10248	0.071603	-0.1052	0.833188	0.248981	0.679897	0.243272
MST131	0.089245	0.152571	-0.08399	0.339562	0.509139	0.261618	0.534477	0.009763	0.140405	0.345099	-0.14763	0.420534	0.823993	0.990584	0.166569	0.998193
LOC100129	-0.08741	-0.17882	0.055536	-0.26949	0.517921	0.187284	0.681573	0.042638	-0.09664	-0.14091	-0.03425	-0.16867	0.261439	0.175131	0.411642	0.131234
LOC100129	-0.00752	-0.0943	0.181615	-0.22685	0.955711	0.489396	0.176356	0.089706	0.116461	-0.48665	0.180746	-0.3682	0.776927	0.00035	0.879826	0.006414
LOC100133	0.298862	-0.12085	0.249429	-0.12047	0.02393	0.374969	0.061329	0.372055	0.244336	-0.40991	0.275506	-0.2609	0.94913	0.002334	0.966507	0.039948
LOC100129	-0.15432	-0.16554	0.050891	-0.33524	0.251736	0.222727	0.706952	0.010798	-0.29134	-0.41282	0.065754	-0.36549	0.024739	0.002178	0.666092	0.00625
LOC100129	-0.05015	-0.0319	0.054413	-0.17512	0.711009	0.81545	0.687679	0.192596	0.19046	-0.05687	-0.09201	-0.13531	0.897575	0.353675	0.273877	0.184963
UNQ6493	0.091072	0.038633	0.287592	-0.13988	0.500471	0.777415	0.030066	0.299359	-0.06236	-0.122	-0.0118	-0.08845	0.340277	0.209631	0.469345	0.279427
LOC100133	0.029655	0.23878	-0.06768	0.218252	0.826667	0.076345	0.6169	0.102892	0.135309	0.284852	-0.06963	0.162126	0.812252	0.971058	0.326661	0.856342
ZNF737	0.093703	0.090889	-0.10775	0.031056	0.488122	0.505291	0.42499	0.818612	0.181542	0.079624	0.084784	0.054713	0.886372	0.70056	0.710123	0.641002
LOC100129	0.082963	-0.18794	0.279284	-0.2876	0.53952	0.165421	0.035387	0.030059	0.023944	-0.26368	0.199701	-0.24963	0.562032	0.040046	0.903143	0.049086
LOC100129	-0.02448	0.260194	-0.06121	0.122665	0.856578	0.052783	0.651036	0.363338	0.190964	-0.22555	0.074396	-0.20719	0.898185	0.065888	0.686407	0.083549
LOC100129	0.004896	-0.18563	0.073639	-0.2353	0.971168	0.170766	0.586175	0.078084	0.215472	-0.41284	0.192142	-0.46816	0.924803	0.002177	0.896971	0.000517
LOC100129	0.135283	0.229382	0.076636	0.073873	0.31569	0.089021	0.570983	0.584982	0.198987	-0.13165	0.060368	-0.07059	0.90754	0.191573	0.653181	0.32054
LOC100129	0.081639	-0.1653	0.245663	-0.21522	0.546032	0.223424	0.065481	0.107882	0.147588	-0.25689	0.10249	-0.38268	0.836164	0.042408	0.748554	0.004336
LOC100129	-0.13583	0.008567	0.145337	-0.2901	0.318199	0.9505	0.285177	0.030096	-0.06913	-0.34712	0.115443	-0.23632	0.324003	0.009052	0.774922	0.056921
LOC100129	0.001336	-0.05798	0.120268	-0.08975	0.99213	0.671259	0.372859	0.506729	0.052973	-0.09875	0.131142	-0.01583	0.636694	0.256907	0.804745	0.458419
LOC100129	0.02815	-0.02332	0.12418	-0.20845	0.835339	0.864552	0.357396	0.119706	0.009829	-0.18362	0.118869	-0.18444	0.525846	0.110943	0.781634	0.109897
LOC100129	0.084783	-0.02382	0.211956	-0.39625	0.530628	0.86167	0.113462	0.002279	0.028567	-0.33838	0.222149	-0.31995	0.57474	0.01072	0.928769	0.015092
LOC100129	0.011018	-0.08787	0.165247	-0.19948	0.935763	0.523543	0.223568	0.140497	-0.0669	0.05235	-0.09495	-0.10197	0.329329	0.635148	0.267496	0.250062
LOC100129	0.034036	0.07033	0.070054	-0.15232	0.801547	0.606504	0.604586	0.257994	0.097092	-0.30308	0.008391	-0.2249	0.739533	0.020305	0.521813	0.066462
HDAC6	0.095421	-0.04381	0.004065	0.098425	0.480146	0.748491	0.976057	0.466366	-0.05556	0.331508	0.015536	0.174155	0.356898	0.987794	0.540341	0.876475
LOC100130	-0.06555	0.222557	-0.16595	0.300458	0.628085	0.09922	0.217307	0.023153	0.169351	0.416129	0.032911	0.197179	0.869734	0.997989	0.584969	0.905487
RPS27P13	0.098648	-0.06399	-0.02145	-0.00342	0.465352	0.639401	0.874133	0.97986	0.181722	-0.22421	-0.09259	-0.11727	0.886606	0.067076	0.272609	0.21883
UNQ6193	0.074817	-0.15831	0.222049	-0.25655	0.580182	0.243898	0.096897	0.05406	0.130215	-0.3674	0.193273	-0.25203	0.805803	0.006006	0.898325	0.045543
HBCBP	0.069223	-0.18536	0.238878	-0.0825	0.608892	0.171395	0.073528	0.541796	-0.01105	-0.31515	0.192278	-0.2805	0.470962	0.01645	0.897134	0.029501
LOC100130	-0.19911	0.060289	0.028604	-0.30341	0.137577	0.658931	0.83272	0.021772	0.01488	-0.20406	0.025446	-0.29115	0.539093	0.086876	0.56589	0.024818
LOC100130	0.129507	-0.16006	0.167147	0.463545	0.336981	0.238647	0.213963	0.000282	0.01532	0.161682	-0.14531	0.309053	0.540245	0.858472	0.170446	0.981686
LOC100133	0.133295	0.15311	-0.03382	0.094575	0.322917	0.259918	0.802781	0.484068	0.181295	0.160823	0.002717	0.125848	0.88605	0.857173	0.507066	0.797683
LOC100130	0.079084	0.078921	-0.04035	0.059868	0.55871	0.563149	0.76572	0.658214	-0.09051	0.319993	-0.0629	0.287757	0.274843	0.984918	0.340725	0.973761
LOC100130	0.068451	-0.04389	-0.19851	0.038772	0.6129	0.748074	0.1388	0.774614	0.042881	0.018957	0.069705	0.032098	0.611395	0.549757	0.675442	0.583854
LOC100130	-0.00784	-0.2358	0.124296	-0.22528	0.953855	0.080195	0.356944	0.092011	0.040218	-0.34437	0.155516	-0.25563	0.604639	0.009552	0.846159	0.0432
LOC100130	-0.02298	-0.21947	0.179708	0.042438	0.86529	0.104113	0.181018	0.753946	0.042025	-0.02846	0.076676	-0.02873	0.609228	0.425524	0.691682	0.424848

LOC100133	-0.15535	-0.14247	0.0441	-0.21384	0.252928	0.299434	0.7469	0.113542	0.110219	0.074991	-0.17467	-0.26844	0.76706	0.68981	0.12557	0.035632
LOC100133	-0.14747	0.228615	0.053876	0.063305	0.273662	0.090125	0.690606	0.639911	-0.1919	0.033586	0.038931	-0.07857	0.100687	0.587681	0.600214	0.301866
LOC10013C	0.031654	-0.17506	0.346626	-0.21597	0.815184	0.196896	0.008256	0.106639	0.086189	-0.43465	0.302414	-0.38963	0.715503	0.00127	0.978262	0.003719
LOC100133	0.048453	0.13232	0.028211	0.139292	0.720402	0.330981	0.834986	0.301426	0.096639	0.333902	-0.21231	0.062204	0.738554	0.98833	0.080737	0.659345
LOC10013C	-0.37332	-0.01043	-0.01645	-0.06458	0.004599	0.939728	0.904199	0.636331	-0.1227	-0.18364	-0.09639	-0.24412	0.208288	0.110922	0.264398	0.051025
TMEM212	-0.10006	-0.23611	0.073028	-0.15338	0.458949	0.079792	0.589295	0.254649	-0.17698	-0.32534	0.0754	-0.19415	0.119674	0.013684	0.688735	0.098026
PP2672	0.124309	-0.108	0.155345	-0.18272	0.356892	0.428184	0.248556	0.173691	0.062156	-0.10617	0.255039	-0.01877	0.659229	0.241258	0.954562	0.450726
LOC10013C	0.11562	0.154027	0.229129	-0.01445	0.391748	0.25704	0.086445	0.915018	-0.04638	0.310166	-0.0556	-0.02052	0.379779	0.982039	0.358393	0.446174
LOC10013C	-0.01012	-0.01613	0.165424	-0.23888	0.940468	0.906082	0.218793	0.07352	-0.04394	-0.21097	0.102637	-0.14816	0.385915	0.079658	0.74886	0.162885
LOC10013C	0.116734	-0.22557	0.026009	-0.07831	0.387172	0.094617	0.847708	0.562584	0.178459	-0.31826	0.029467	-0.22194	0.88231	0.015561	0.576188	0.069118
LOC10013C	-0.00699	-0.06165	0.233679	-0.20323	0.958825	0.651708	0.080211	0.129463	0.102879	-0.38608	0.107941	-0.33351	0.751864	0.004023	0.759837	0.011756
LOC10013C	-0.02764	-0.13293	0.142558	-0.16175	0.838262	0.32875	0.290119	0.22934	0.096283	-0.30978	0.125424	-0.44491	0.737785	0.018084	0.79416	0.000974
LOC10013C	-0.01157	-0.24879	0.213348	-0.11669	0.931949	0.064458	0.111056	0.387366	0.103182	-0.36355	0.088851	-0.2412	0.752501	0.006505	0.719181	0.053177
LOC10013C	0.113965	-0.05874	0.236172	-0.32159	0.402968	0.67009	0.07971	0.015656	-0.09136	-0.02585	-0.08292	0.206063	0.272978	0.432291	0.294063	0.915267
LOC10013C	0.062659	0.215481	-0.04033	-0.04455	0.643335	0.110726	0.765787	0.742096	0.051756	0.086126	-0.01564	0.123307	0.633671	0.715362	0.459396	0.792868
LOC100133	0.020014	-0.23089	-0.00592	-0.32183	0.883602	0.089879	0.965453	0.015575	0.041363	-0.37108	-0.01091	-0.21913	0.607549	0.005561	0.471641	0.071713
GAF2	0.273367	-0.14863	0.335845	-0.08907	0.039636	0.274292	0.010648	0.509969	0.16678	-0.18571	0.098609	-0.22442	0.866027	0.108288	0.740358	0.066889
LOC10013C	0.099996	-0.21493	0.329573	-0.27615	0.459247	0.111658	0.012298	0.037589	0.064224	-0.3518	0.070311	-0.39733	0.664232	0.008252	0.676867	0.003127
LOC10013C	0.248015	-0.15547	0.15581	-0.27784	0.062862	0.252555	0.247123	0.036387	-0.1568	-0.27156	0.177724	-0.20776	0.149014	0.033953	0.878594	0.082947
LOC100133	-0.01856	-0.21641	0.088216	-0.15739	0.891028	0.109162	0.514055	0.242304	-0.00607	-0.22312	0.053381	-0.14714	0.48404	0.068047	0.63618	0.164571
LOC10013C	-0.07705	-0.12776	0.078092	-0.23068	0.568892	0.348063	0.563668	0.084275	0.191808	-0.33218	0.209662	-0.31601	0.899199	0.012054	0.91656	0.016198
LOC10013C	-0.06705	0.047049	-0.19856	0.037039	0.620181	0.730595	0.138694	0.784442	0.32917	-0.01684	0.033734	-0.21064	0.987251	0.455781	0.587059	0.07999
LOC10013C	0.103526	0.111478	-0.11157	0.18047	0.443467	0.413379	0.40864	0.179145	0.240239	0.105515	0.14044	-0.10272	0.946103	0.757378	0.821255	0.248481
LOC10013C	0.067432	-0.05761	0.135959	-0.10771	0.618211	0.673226	0.313254	0.425166	0.051436	-0.08035	-0.09473	-0.12406	0.632877	0.297774	0.267962	0.205693
UNQ565	0.007351	0.228759	-0.09633	0.154684	0.956723	0.089918	0.47597	0.2506	0.042875	0.22016	-0.14006	0.176791	0.610127	0.926918	0.182258	0.877333
LOC10013C	0.011965	-0.08841	0.046868	-0.32312	0.930256	0.520981	0.731591	0.01514	0.001491	-0.24469	0.109811	-0.04398	0.503924	0.050614	0.763647	0.385816
RPL12P16	-0.03447	0.288127	-0.32031	0.239147	0.799085	0.031287	0.015135	0.073194	-0.24084	0.526353	-0.32344	0.397466	0.053445	0.999914	0.015106	0.996883
PP14571	0.070336	-0.06142	0.223872	-0.34809	0.603132	0.652959	0.094116	0.00797	0.241583	-0.37168	0.151068	-0.362	0.947111	0.00549	0.839054	0.006716
LOC10013C	-0.01479	-0.16625	0.147212	-0.11715	0.913073	0.220725	0.274494	0.385458	0.073512	-0.11851	0.006486	-0.29999	0.686347	0.216391	0.516864	0.021404
LOC10013C	0.077461	-0.13971	0.363773	-0.21749	0.566832	0.304449	0.00541	0.104126	0.169455	-0.40801	0.334692	-0.32137	0.869883	0.002441	0.987688	0.014711
LOC10013C	0.043221	-0.30708	0.259513	-0.3517	0.749549	0.021333	0.051246	0.007302	0.073102	-0.46966	0.12159	-0.38833	0.685382	0.000496	0.786884	0.003828
LOC10013C	0.013984	0.505432	-0.21038	0.045367	0.917773	7.09E-05	0.116237	0.737552	-0.08596	0.414587	-0.2105	0.301961	0.285006	0.997913	0.082575	0.979301
LOC100133	0.106404	-0.29415	0.077446	-0.14457	0.439413	0.030849	0.574109	0.292292	0.034327	-0.09908	-0.06979	-0.20277	0.588566	0.258648	0.326309	0.090794
LOC10013C	0.168992	-0.07927	0.21804	-0.44679	0.208879	0.561427	0.103235	0.000494	0.208604	-0.31897	0.245157	-0.32014	0.915459	0.016353	0.945638	0.016021
TMEM221	0.092432	-0.21981	0.303002	-0.18964	0.494071	0.103575	0.021958	0.157685	0.009748	-0.40626	0.189169	-0.39584	0.525632	0.002543	0.893351	0.003234
LOC10013C	0.024915	-0.13208	0.28937	-0.27896	0.854043	0.331876	0.029018	0.035613	0.241982	-0.39289	0.294998	-0.34411	0.947407	0.003457	0.975422	0.009599
HMGB1L10	-0.00343	0.187221	-0.21056	0.190334	0.979977	0.171089	0.119311	0.159995	-0.08317	0.284162	-0.00921	0.126764	0.291318	0.972184	0.476066	0.799402
RPS2P5	0.029283	0.022074	-0.24289	0.2283	0.830364	0.872912	0.07127	0.090582	0.052014	0.353725	-0.19684	0.218673	0.632819	0.991431	0.100158	0.925511
LOC100133	-0.10982	-0.07629	0.240475	-0.19007	0.416102	0.576255	0.071567	0.156723	0.128939	-0.60031	0.187003	-0.48398	0.800705	6.53E-06	0.887909	0.000378
LOC100133	0.064717	-0.31134	0.153371	-0.11394	0.632453	0.019508	0.254693	0.398702	0.150953	-0.49428	0.246283	-0.19131	0.841682	0.00024	0.94854	0.101398
CXorf64	-0.00014	-0.13439	0.142863	-0.32084	0.999191	0.323419	0.289077	0.014962	0.066794	-0.30558	0.142191	-0.26076	0.670409	0.019451	0.824268	0.040031
LOC10013C	0.02347	0.191934	-0.15334	0.275828	0.862423	0.156447	0.254792	0.037821	-0.03065	0.34528	-0.08178	0.286018	0.419868	0.990617	0.296658	0.973007
LOC100133	0.083205	-0.07535	0.05995	-0.11231	0.538335	0.581014	0.657776	0.405535	0.191636	-0.38198	0.198665	-0.24273	0.898992	0.004402	0.904609	0.052038
LOC100133	0.048182	-0.11362	0.229021	-0.19801	0.721907	0.404389	0.086599	0.139817	0.044548	-0.30602	0.063748	-0.31739	0.61431	0.020456	0.6595	0.016816
LOC10013C	0.097442	0.118811	0.007281	0.013302	0.470853	0.383131	0.957131	0.921768	-0.12498	0.291881	-0.00051	0.206774	0.20396	0.97548	0.498679	0.916017
LOC10013C	0.104576	0.013276	-0.09211	-0.06188	0.443065	0.923361	0.499557	0.650506	0.075394	-0.18386	0.001909	-0.09392	0.690752	0.11064	0.504965	0.26735
LOC10013C	0.049569	-0.08165	0.046094	-0.31774	0.714235	0.549687	0.733499	0.016016	0.142986	-0.23169	0.173085	-0.2191	0.828428	0.06065	0.872236	0.071743
CECR4	-0.01678	-0.16616	0.159731	-0.14236	0.90141	0.220987	0.235281	0.290792	0.199337	-0.36908	0.282716	-0.23037	0.907934	0.005799	0.970065	0.06175
LRRC70	0.048556	-0.06069	-0.0558	0.194473	0.719837	0.656825	0.680152	0.147172	0.279157	-0.24842	0.214857	-0.09568	0.969862	0.047988	0.921811	0.263526
LOC10013C	-0.06288	0.060363	0.102406	0.363898	0.642146	0.658542	0.448442	0.005392	-0.0399	0.265183	-0.04038	0.191175	0.396182	0.962552	0.396136	0.898439

EFCAB10	-0.1387	-0.15154	-0.02339	-0.20405	0.303504	0.264908	0.862871	0.127886	-0.2577	-0.27555	0.034617	-0.17951	0.041898	0.031904	0.589302	0.116296
LOC10013C	-0.13599	-0.19066	0.139709	-0.27025	0.313143	0.159258	0.299966	0.042037	0.013631	-0.49097	0.082805	-0.4374	0.535819	0.000266	0.705668	0.001184
LOC10013C	0.08328	-0.02002	0.244764	-0.28683	0.54172	0.884657	0.069049	0.032088	0.185019	-0.38367	0.177065	-0.36489	0.890836	0.004242	0.877704	0.006328
LOC100133	-0.15488	-0.11813	0.002051	-0.15144	0.249999	0.385898	0.987922	0.260792	-0.11677	-0.32652	0.112581	-0.129	0.219808	0.01339	0.769229	0.196441
LOC100133	0.101778	-0.00962	0.330787	-0.05033	0.451245	0.943923	0.011963	0.710042	0.111326	-0.12243	0.024516	-0.15571	0.769305	0.208815	0.563501	0.150722
LOC10013C	0.081805	-0.31318	0.198631	-0.12721	0.545213	0.01876	0.138551	0.345702	-0.00669	-0.18379	0.123424	-0.17015	0.482393	0.110722	0.790383	0.129123
LOC10013C	-0.07042	-0.04051	0.195174	-0.14775	0.606023	0.769048	0.14944	0.277161	-0.12235	-0.26679	0.003918	-0.21553	0.211663	0.038234	0.510068	0.077522
ZNF840	0.11357	-0.16025	0.140782	-0.24061	0.400254	0.238093	0.296234	0.0714	0.153015	-0.26184	0.311349	-0.17725	0.845003	0.03939	0.981323	0.119303
LOC10013C	-0.12309	-0.15222	0.08689	-0.16024	0.361655	0.262727	0.520425	0.233761	-0.01279	-0.23262	0.031692	-0.27909	0.466386	0.059885	0.581864	0.03017
UNQ5836	-0.04138	-0.0525	0.117102	-0.26412	0.759919	0.700779	0.385667	0.047114	0.147344	-0.22895	0.073909	-0.35663	0.832948	0.065164	0.683247	0.008093
LOC10013C	0.119261	0.019305	0.14505	0.07397	0.376904	0.887694	0.281683	0.58449	0.134531	-0.2147	0.269859	-0.23349	0.813639	0.075951	0.963494	0.059178
ZNF663	0.041016	-0.10401	0.217153	-0.19786	0.764072	0.449824	0.107919	0.143802	0.123359	-0.55437	0.161133	-0.39747	0.792967	3.20E-05	0.854842	0.003116
LOC10013C	-0.23182	-0.07994	-0.07476	-0.32423	0.082719	0.558106	0.580463	0.013875	-0.22167	-0.30603	-0.1354	-0.26721	0.069359	0.019302	0.187588	0.036308
RPS2P35	0.065435	0.037817	0.205632	-0.07874	0.631838	0.783994	0.12841	0.564058	0.243156	-0.13574	0.195577	-0.11822	0.946246	0.186989	0.898365	0.219628
LOC10013C	-0.00873	-0.21719	0.121014	-0.29768	0.948611	0.107857	0.36988	0.024517	0.068232	-0.37942	0.11466	-0.39595	0.673848	0.004653	0.773371	0.003226
LOC100133	-0.05719	0.274209	-0.20417	0.186411	0.675468	0.042776	0.1312	0.168944	0.065738	0.478155	-0.26081	0.224101	0.667877	0.999612	0.041778	0.932831
LOC100131	-0.0171	-0.1468	0.175399	-0.02864	0.899535	0.280315	0.191879	0.832525	-0.00871	-0.27643	0.079544	-0.22807	0.477081	0.031467	0.698261	0.063695
LOC100131	-0.11445	-0.12785	0.284481	-0.13686	0.396587	0.347724	0.031974	0.310035	-0.22488	-0.278	0.059929	-0.31026	0.068751	0.032226	0.650409	0.019028
OK/SW-CL.	0.027305	-0.062	-0.14564	-0.29319	0.840214	0.649896	0.279695	0.026871	0.031175	-0.18796	0.104715	-0.18279	0.581475	0.105484	0.753192	0.112006
LOC100133	0.107765	-0.18493	0.085726	-0.00135	0.424922	0.172418	0.526049	0.992046	-0.22693	0.03685	-0.06099	0.148057	0.064685	0.596049	0.345322	0.836941
LOC100131	-0.03772	-0.1856	0.142762	-0.24815	0.780562	0.170832	0.289423	0.06271	0.072913	-0.25564	0.110935	-0.27155	0.684939	0.043193	0.76592	0.033959
LOC100131	0.12574	-0.34692	0.170614	-0.15148	0.351341	0.008806	0.204478	0.260674	0.217656	-0.32935	0.325869	-0.20358	0.926898	0.012707	0.985537	0.087384
UNQ9419	0.229551	-0.14205	0.276446	0.082177	0.085852	0.296318	0.037375	0.54338	0.28723	-0.16743	0.140808	-0.1055	0.972133	0.135816	0.819032	0.245178
BSPH1	0.051304	-0.10215	0.104772	-0.25275	0.707282	0.458002	0.442205	0.060192	0.032856	-0.21682	-0.06341	-0.22405	0.583839	0.078729	0.343119	0.07186
LOC100131	0.082802	-0.14753	0.370222	-0.10925	0.544049	0.282434	0.004977	0.422836	0.170015	-0.35091	0.211701	-0.25582	0.870681	0.008399	0.918651	0.043083
LOC100131	0.092315	-0.20467	0.213066	-0.23134	0.494618	0.130255	0.111541	0.083376	0.131988	-0.30875	0.236135	-0.28511	0.809045	0.01841	0.940814	0.027391
RP11-544N	-0.2752	-0.04796	-0.35407	-0.11916	0.040097	0.728044	0.007424	0.381711	-0.38983	0.049875	-0.28642	0.004159	0.003702	0.628984	0.02823	0.510943
LOC100131	-0.17665	0.042879	0.101369	-0.10686	0.192796	0.755921	0.457251	0.433099	0.112828	-0.23831	0.288568	-0.12392	0.769722	0.057462	0.971262	0.208676
RPL21P28	0.114201	0.189424	-0.21116	0.075982	0.397625	0.162041	0.114854	0.574281	0.277244	0.099952	-0.05394	0.029204	0.968935	0.745665	0.362462	0.576388
TMEM194E	-0.03449	0.155974	-0.34026	0.26783	0.798978	0.251001	0.009604	0.043985	0.125277	0.375096	-0.0121	0.256084	0.796607	0.994894	0.468558	0.957085
C10orf41	-0.08894	0.091457	0.236626	-0.21406	0.514484	0.50664	0.079116	0.113147	0.122187	-0.17087	-0.03987	-0.23822	0.790727	0.128113	0.39742	0.055441
UNQ6167	-0.07826	-0.1421	0.011606	-0.3302	0.562825	0.296161	0.931716	0.012123	-0.00719	-0.19315	0.069961	-0.09586	0.481096	0.099206	0.676044	0.263135
GAF1	-0.06442	0.001489	-0.02372	-0.15254	0.634018	0.991311	0.860967	0.257294	-0.1304	-0.30579	0.188216	-0.15711	0.193862	0.019381	0.892172	0.148531
LOC100131	0.031503	-0.1024	0.173317	-0.23787	0.816047	0.452665	0.19729	0.074786	0.072785	-0.37282	0.174919	-0.37217	0.684637	0.005359	0.874775	0.005434
NSAP11	0.08387	0.050159	0.013339	-0.17047	0.535082	0.713527	0.92155	0.204871	0.097019	-0.12246	0.165212	-0.1445	0.739375	0.208757	0.860943	0.169004
LOC100131	0.069249	-0.14242	0.226446	-0.1736	0.608755	0.295061	0.090296	0.196538	0.017747	-0.32551	0.064458	-0.37516	0.546596	0.013641	0.663002	0.005099
LOC100131	0.07584	-0.00162	-0.00411	-0.19195	0.574998	0.990569	0.975779	0.152596	0.067145	-0.25706	0.008126	-0.3106	0.671249	0.042301	0.521124	0.017825
LOC100131	0.077992	0.219356	-0.12581	0.244104	0.56417	0.104303	0.35109	0.067264	0.197303	0.207438	0.031929	0.182289	0.905629	0.916713	0.582469	0.887341
LOC100133	-0.02506	-0.1703	0.009374	-0.23403	0.853182	0.209521	0.944828	0.079741	0.231686	-0.07942	-0.04431	-0.1496	0.939344	0.299902	0.386286	0.160515
CD300LD	-0.02628	-0.05091	0.167296	-0.25308	0.84753	0.712007	0.2178	0.059841	0.129062	-0.18995	0.21504	-0.32014	0.800931	0.105694	0.919514	0.016021
ELP2P	-0.11543	-0.0013	0.025448	-0.19419	0.392543	0.9924	0.850955	0.147776	0.111295	-0.1644	-0.06497	0.015631	0.769244	0.137459	0.335782	0.54106
LOC100131	-0.25371	-0.04354	-0.00357	-0.07786	0.056872	0.749991	0.978996	0.564819	0.023228	-0.23541	0.202861	-0.17605	0.56089	0.057641	0.909305	0.120937
LOC100131	0.027215	-0.14477	0.299519	-0.27956	0.840735	0.287087	0.023607	0.035198	0.076398	-0.22577	0.046794	-0.38999	0.693092	0.065696	0.619909	0.003689
LOC100131	0.270234	-0.24482	0.303484	-0.06912	0.042051	0.068979	0.021738	0.609423	0.126696	-0.35504	0.385305	-0.17057	0.799275	0.007735	0.995522	0.128533
LOC100131	0.027345	-0.29032	-0.06601	0.025098	0.839984	0.029964	0.62565	0.852982	0.162149	-0.39703	0.327971	-0.24065	0.856377	0.003463	0.985125	0.055644
LOC100131	0.089458	-0.123	0.170907	0.067583	0.508124	0.366458	0.203691	0.617422	0.169301	-0.19317	0.123898	-0.2413	0.866887	0.101796	0.788515	0.055153
BPA-1	-0.10069	-0.2833	0.070532	-0.13681	0.460305	0.036094	0.605471	0.314673	-0.06668	-0.25621	0.115498	-0.25339	0.331706	0.044675	0.772339	0.04653
UNQ6228	0.064026	0.008764	-0.03795	0.106118	0.636099	0.948887	0.779271	0.432077	0.252832	0.011362	0.13505	0.061274	0.954987	0.52987	0.811791	0.657086
LOC100133	0.153859	-0.07573	0.274913	0.003025	0.253166	0.579062	0.038487	0.982182	0.14859	-0.18854	0.14609	-0.11579	0.837819	0.104773	0.830861	0.221758
LOC100131	0.032177	-0.01982	0.185368	-0.26632	0.812183	0.884739	0.167436	0.045238	0.265057	-0.12287	0.19634	-0.32278	0.96248	0.207969	0.901934	0.01434

RPS27P9	0.170886	-0.08023	-0.02923	0.002611	0.203745	0.556672	0.829122	0.984622	0.213244	-0.04704	0.206367	0.148992	0.922619	0.37811	0.913099	0.838481
LOC100131	-0.10051	-0.02784	0.043166	-0.05554	0.456953	0.8386	0.749862	0.681554	-0.04156	-0.21443	0.150163	-0.16579	0.391943	0.076212	0.837584	0.135413
LOC100131	-0.03849	-0.23669	-0.03647	-0.19651	0.776192	0.079032	0.787687	0.142898	-0.18371	-0.2625	-0.03255	-0.07398	0.113521	0.04075	0.416921	0.314549
LOC100131	0.082317	0.196649	-0.00103	-0.03369	0.542693	0.146329	0.99394	0.803519	-0.04272	0.221543	-0.21796	-0.06849	0.389018	0.930521	0.075173	0.325529
LOC100133	-0.08322	-0.12258	0.064595	-0.14694	0.538268	0.368095	0.633096	0.275406	0.071915	-0.29644	0.033611	-0.17065	0.682587	0.022728	0.586746	0.128417
LOC100131	-0.056	-0.06421	0.140333	-0.06014	0.681857	0.638232	0.302265	0.659739	0.075073	-0.20924	0.12517	-0.18902	0.690003	0.081419	0.793683	0.104179
LOC100131	0.259735	-0.01647	0.048435	0.086815	0.053216	0.905022	0.722971	0.524637	0.29671	-0.06107	0.163641	-0.0479	0.977376	0.343413	0.858613	0.375962
LOC100131	-0.07076	-0.0087	-0.2097	0.064809	0.60094	0.949272	0.117445	0.631968	-0.03602	-0.07637	0.07722	-0.15191	0.406078	0.306983	0.692933	0.156766
LOC100133	0.267835	-0.05129	0.139603	-0.0374	0.04398	0.707347	0.300337	0.782402	0.123253	0.134653	-0.00578	0.051932	0.792767	0.813856	0.484974	0.634109
LOC100131	-0.0721	-0.04812	0.062482	-0.39032	0.59407	0.724693	0.644276	0.002685	0.049261	-0.12638	0.334976	-0.33404	0.627449	0.201324	0.987752	0.011638
LOC100131	0.095504	-0.25074	0.374063	-0.1978	0.483823	0.064832	0.004512	0.143933	0.024262	-0.35129	0.269698	-0.21514	0.563577	0.008337	0.963405	0.075521
OK/SW-CL.	0.106594	-0.06767	-0.02134	0.079737	0.430001	0.620225	0.87482	0.555456	0.160672	0.051007	-0.11068	-0.1295	0.856945	0.631808	0.234593	0.195505
LOC100131	-0.09348	-0.0638	0.137091	-0.14854	0.489154	0.640382	0.309202	0.270129	0.094192	-0.37558	0.258222	-0.3232	0.733242	0.005054	0.956611	0.014229
LOC100131	0.07429	0.007671	-0.02627	-0.09696	0.582861	0.955254	0.846178	0.473062	0.213833	0.027725	0.207429	-0.09058	0.923201	0.572562	0.914225	0.274703
UBE2DNL	-0.05532	-0.04595	0.188867	-0.20507	0.682754	0.736657	0.159421	0.125944	0.081611	-0.46357	0.224831	-0.36946	0.705119	0.000588	0.931209	0.005752
UNQ3028	0.255517	0.103289	0.02345	0.15934	0.055066	0.448724	0.862536	0.236445	0.016288	0.339255	0.01187	0.269939	0.542285	0.988691	0.530478	0.963538
ZNF717	-0.0072	0.168902	-0.0515	-0.0681	0.957585	0.213352	0.703611	0.61472	0.068794	-0.03664	0.054819	-0.21018	0.675186	0.404486	0.639701	0.08046
LOC100131	0.049857	-0.0559	0.163062	0.260035	0.712647	0.682365	0.225532	0.050763	0.081128	-0.30192	0.274286	-0.05453	0.704013	0.020713	0.965874	0.359457
LOC100131	-0.01487	0.246105	-0.01702	-0.09421	0.912567	0.067493	0.899979	0.485747	0.103495	0.076103	0.036723	-0.03688	0.753158	0.692405	0.594639	0.403884
RP5-1033B	0.098835	0.256724	-0.04736	0.103868	0.464504	0.056138	0.726457	0.441954	0.000561	0.302999	-0.2605	0.288545	0.501477	0.979665	0.041966	0.974097
RPS2P9	-0.01292	0.00619	0.1454	-0.14491	0.924683	0.964224	0.284969	0.2866	0.171602	-0.07458	-0.20339	-0.0766	0.872922	0.311159	0.09012	0.306437
LOC100131	0.022077	-0.0088	-0.21593	-0.00495	0.870512	0.948665	0.106692	0.97084	-0.36817	0.112468	-0.0912	-0.0053	0.00591	0.771614	0.275651	0.486052
LOC100131	-0.037	-0.11177	0.08832	-0.24021	0.784639	0.412148	0.51356	0.071894	0.064222	-0.3042	-0.0139	-0.22736	0.664225	0.01992	0.463891	0.064312
LOC100133	0.033417	-0.11886	0.266908	-0.04426	0.806843	0.387414	0.046752	0.745988	0.092201	-0.30754	0.202364	-0.25676	0.728879	0.018803	0.908757	0.042488
UNQ1944	-0.05943	0.066821	0.075637	-0.29241	0.663524	0.627878	0.579547	0.028753	-0.07127	-0.15204	0.034409	-0.11957	0.318942	0.15656	0.588775	0.214336
LOC100133	-0.02433	-0.13537	-0.04235	-0.18925	0.857455	0.319858	0.754423	0.158553	-0.19616	-0.13436	-0.00125	-0.12299	0.095687	0.186663	0.496748	0.207732
RPS26P54	0.071423	-0.15796	0.249553	-0.28647	0.600908	0.249411	0.06362	0.032314	0.01965	-0.50837	0.154034	-0.30153	0.551565	0.000155	0.843814	0.020851
LOC100131	-0.19411	-0.15087	-0.03106	-0.21689	0.151705	0.271549	0.820255	0.108352	0.114128	-0.18796	-0.12163	-0.24514	0.774944	0.105481	0.213032	0.050294
LOC100133	0.167056	0.125306	-0.03614	0.049892	0.214217	0.357476	0.789529	0.712457	0.200157	0.16939	0.149552	0.076787	0.908851	0.869789	0.836587	0.693996
RPL29P8	-0.04795	-0.15208	0.137216	-0.27928	0.723192	0.263181	0.30876	0.035392	0.125053	-0.27145	0.125483	-0.23925	0.796183	0.034014	0.794272	0.054647
LOC100131	-0.01047	-0.09327	0.097042	-0.08702	0.938368	0.494148	0.472687	0.519814	0.036238	-0.16229	0.070923	0.010177	0.594483	0.14061	0.678305	0.526758
LOC100132	0.123006	0.128577	0.175686	-0.21547	0.361995	0.34496	0.191141	0.107468	0.329511	-0.16726	0.061891	-0.30888	0.98646	0.136061	0.65509	0.019485
LOC100132	0.017975	-0.24098	0.153422	-0.11362	0.894421	0.073599	0.254533	0.400028	0.017113	-0.2971	0.106786	-0.29138	0.544938	0.022478	0.757469	0.024722
RPL30P8	0.149865	-0.0669	0.165969	-0.31833	0.265842	0.624217	0.217257	0.015813	-0.01687	-0.3993	0.141916	-0.35462	0.455708	0.002988	0.823797	0.0078
LOC100132	0.085237	-0.05133	0.059334	-0.03672	0.528419	0.707152	0.661081	0.786234	0.199506	-0.06402	0.065391	-0.05162	0.908123	0.336258	0.665226	0.366655
LOC100132	-0.17027	0.110158	0.063697	-0.05461	0.205408	0.418965	0.637838	0.686586	0.074977	-0.28576	0.110246	-0.21144	0.689778	0.027107	0.764528	0.079183
UNQ1829	0.073058	0.154677	-0.09382	0.10345	0.589145	0.255015	0.487586	0.443803	0.194088	0.031603	-0.09523	-0.04184	0.901903	0.582579	0.266879	0.391234
LOC100133	0.148373	-0.1263	0.222385	-0.09617	0.275126	0.358191	0.099487	0.480756	0.207162	-0.33148	0.248459	-0.11429	0.916424	0.012212	0.950091	0.224733
LOC100132	-0.01682	0.101728	-0.0983	0.207911	0.901196	0.455649	0.466929	0.120679	0.072664	-0.17703	0.060787	-0.13438	0.684352	0.119604	0.654193	0.186627
LOC100132	-0.04925	-0.01734	-0.07854	-0.1363	0.718478	0.900004	0.565061	0.316522	0.140321	0.170983	0.025359	-0.08287	0.823846	0.87205	0.565667	0.292011
LOC100132	-0.14885	0.104427	-0.01279	-0.02181	0.269126	0.443715	0.924795	0.872085	-0.20893	0.208954	-0.10555	0.193818	0.08174	0.918286	0.245073	0.901585
LOC100132	-0.14606	-0.21495	0.043949	0.602208	0.278301	0.11162	0.745472	7.21E-07	-0.23062	0.066462	0.049606	0.21903	0.061541	0.669615	0.62688	0.928194
UNQ5814	0.148965	-0.27801	0.297133	0.168884	0.268759	0.038802	0.024796	0.209173	0.200897	-0.30456	0.197582	-0.15007	0.909673	0.019796	0.90337	0.159754
MST075	0.05134	-0.0768	0.179181	-0.2364	0.704488	0.573736	0.182323	0.076656	0.232392	-0.29328	0.320848	-0.28746	0.939925	0.023958	0.98418	0.026368
LOC100132	-0.13563	-0.30849	-0.01579	-0.13728	0.314448	0.020714	0.9072	0.308538	0.044146	-0.2449	0.188084	-0.20139	0.614595	0.050467	0.892008	0.089786
LOC100132	0.007208	0.075238	0.144311	-0.1492	0.957949	0.585107	0.288628	0.27243	0.206894	-0.1583	0.263894	-0.31732	0.913659	0.14949	0.958266	0.016835
C16orf67	-0.0627	-0.18163	0.029117	0.107814	0.643143	0.18033	0.829762	0.424711	0.043879	-0.21817	-0.04403	-0.22148	0.613919	0.072614	0.38698	0.069539
LOC100132	-0.13912	0.156601	-0.12522	-0.24092	0.302037	0.249079	0.353353	0.071027	-0.12932	0.150279	-0.34186	0.146644	0.195845	0.840586	0.010768	0.834596
LOC100132	-0.11628	-0.26304	0.091036	-0.0877	0.38903	0.05015	0.500643	0.516512	-0.02561	-0.25956	0.088245	-0.18053	0.43291	0.040757	0.717839	0.114947
hCG_20391	0.034818	-0.01027	-0.16385	-0.05685	0.797084	0.940104	0.22328	0.674454	0.051133	0.200309	-0.28082	0.038445	0.632122	0.909021	0.03084	0.600122

LOC100132	0.179259	0.032389	0.268458	0.013098	0.190358	0.816151	0.047507	0.924385	0.130212	-0.32414	0.185882	-0.1529	0.803044	0.014919	0.889247	0.158002
NBPF10	0.020552	0.29909	-0.0184	0.315796	0.879393	0.025141	0.891918	0.016712	0.189781	0.126156	-0.02712	-0.08338	0.89675	0.798263	0.429812	0.290859
CLDN24	0.001685	0.03375	0.117266	-0.22218	0.990074	0.804958	0.384998	0.096693	0.102361	-0.37977	0.120784	-0.30207	0.750771	0.004618	0.785335	0.020662
GLRXL	-0.08436	0.072853	0.011303	0.021215	0.532672	0.593619	0.933496	0.87553	-0.02358	0.041243	-0.02748	0.045887	0.438191	0.607243	0.428898	0.618985
LOC100132	0.012365	0.199898	-0.06499	-0.22115	0.927262	0.139646	0.631013	0.098289	-0.14146	0.00344	-0.07783	-0.12587	0.174179	0.509051	0.305668	0.20227
LOC100132	0.191103	-0.1339	0.320866	-0.16932	0.154448	0.325181	0.014952	0.207989	0.217359	-0.51255	0.165759	-0.33022	0.926616	0.000135	0.861747	0.012502
LOC100132	-0.06637	-0.1943	0.203256	-0.12524	0.623743	0.151317	0.12941	0.353257	0.139455	-0.34705	0.142644	-0.20538	0.822341	0.009064	0.825041	0.085462
LOC100132	-0.22643	-0.16488	-0.14252	-0.28159	0.090314	0.224611	0.290234	0.033836	-0.34778	-0.17606	-0.07951	-0.23265	0.008936	0.120923	0.301815	0.059863
UNQ9165	-0.13761	0.070323	0.078224	-0.0582	0.307342	0.606543	0.563005	0.667161	-0.17615	0.09663	0.102294	-0.0241	0.123535	0.736127	0.745613	0.437554
LOC100132	-0.10311	0.243077	0.047419	0.021309	0.445333	0.071047	0.726137	0.874984	0.154521	-0.03136	0.042606	-0.08231	0.847399	0.418035	0.609452	0.293277
LOC100132	0.00153	0.166654	-0.17849	-0.20203	0.990986	0.219597	0.184036	0.131787	-0.15809	0.391598	-0.30266	0.281181	0.147012	0.996441	0.021648	0.970819
LOC100132	-0.12381	-0.12276	0.012786	-0.48036	0.358835	0.367421	0.924794	0.000156	-0.32293	-0.33307	-0.02661	-0.16843	0.0143	0.011854	0.431136	0.131589
LOC100132	0.067203	-0.12044	0.310169	-0.18481	0.619406	0.376597	0.018871	0.16874	0.110011	-0.41549	0.269382	-0.36494	0.766635	0.002043	0.96323	0.006322
LOC100132	0.026563	-0.13216	0.231231	-0.00754	0.844503	0.331564	0.08352	0.955589	0.297279	-0.41125	0.150553	-0.30594	0.977592	0.002261	0.838218	0.019333
LOC100132	-0.13284	0.043479	-0.06497	-0.24869	0.324587	0.750348	0.631097	0.062127	-0.19617	-0.24438	0.034809	-0.2025	0.095667	0.050838	0.589788	0.088558
LOC100132	0.009943	0.063631	-0.11601	0.182109	0.94148	0.641282	0.390158	0.175163	0.233259	-0.09642	-0.125	-0.07839	0.938473	0.264326	0.209416	0.304369
LOC100132	0.161018	0.004977	0.010132	-0.11044	0.231482	0.970959	0.940375	0.413444	0.13041	-0.14767	0.144633	-0.08311	0.806163	0.163699	0.828416	0.291458
LOC100132	0.112155	-0.03887	0.070444	0.153853	0.406188	0.776098	0.602571	0.253183	-0.01485	0.226028	-0.21635	0.137154	0.460994	0.934533	0.076727	0.818305
DPH3B	-0.21088	-0.01816	-0.02739	-0.12194	0.115348	0.894335	0.839702	0.36621	-0.02522	-0.3894	0.005835	-0.30448	0.433946	0.003738	0.515172	0.019826
LOC100132	0.092781	-0.01582	0.169964	-0.23283	0.492432	0.90787	0.206232	0.081341	0.005891	-0.15781	0.08542	-0.13217	0.515496	0.14745	0.711547	0.190619
FAM159B	0.01139	-0.00429	0.171709	-0.23091	0.932982	0.974957	0.201544	0.083966	-0.0483	-0.19639	0.094777	-0.17188	0.374967	0.095414	0.732136	0.126691
LOC100132	-0.07839	0.03644	-0.17398	-0.07588	0.562188	0.789755	0.195557	0.574785	-0.05738	0.054031	0.006444	-0.01875	0.352428	0.639316	0.516755	0.450794
LOC100132	-0.11113	-0.1503	-0.01331	0.019595	0.410507	0.268858	0.921722	0.884966	0.000663	-0.12528	-0.05523	-0.07071	0.501745	0.203395	0.359284	0.320259
ATCD1	-0.01224	0.089775	0.151566	-0.20211	0.927996	0.510544	0.260394	0.131639	0.090996	-0.23659	0.027285	-0.23193	0.726222	0.056703	0.570606	0.060455
LOC100132	-0.33491	-0.0092	-0.10991	-0.10166	0.01088	0.946354	0.415707	0.451763	0.017776	-0.23204	0.062774	-0.12176	0.546671	0.060365	0.658969	0.210086
LOC100132	-0.2446	0.196045	-0.11631	-0.30013	0.066687	0.147598	0.38891	0.02331	0.024974	0.125808	-0.10951	0.050956	0.565429	0.797608	0.236962	0.631681
LOC100132	-0.11242	-0.15436	0.152422	-0.05232	0.40509	0.256001	0.257678	0.699112	0.045619	-0.16406	0.138952	-0.15164	0.61831	0.137973	0.818672	0.157207
LOC100132	-0.02142	-0.10842	0.250363	0.002522	0.874353	0.426372	0.060332	0.985143	0.131543	-0.46104	0.050793	-0.47985	0.805474	0.000718	0.62833	0.000426
LOC100132	0.019637	-0.21823	0.2283	-0.2545	0.88472	0.10614	0.087621	0.056071	0.115174	-0.26246	0.181943	-0.23544	0.777027	0.039021	0.884187	0.057616
LOC100132	-0.04527	-0.13001	0.077962	-0.047	0.738101	0.339569	0.564319	0.728467	0.203066	-0.31455	0.194481	-0.06074	0.912053	0.016625	0.899757	0.344203
UNQ9374	0.012067	-0.27252	0.072868	-0.02178	0.929012	0.042155	0.590113	0.872228	0.093711	-0.25504	0.132997	-0.19613	0.73219	0.04358	0.808107	0.095724
LOC100132	0.064537	-0.06841	0.29249	-0.15878	0.636533	0.619693	0.028705	0.242475	0.129795	-0.34315	0.148613	-0.18935	0.802279	0.010507	0.832167	0.106422
LOC100132	0.115278	-0.11066	0.301549	-0.12724	0.393159	0.416831	0.022634	0.345584	0.235494	-0.33985	0.340938	-0.27935	0.942428	0.010421	0.989043	0.030043
LOC100132	-0.05489	0.003862	0.110374	-0.05844	0.687838	0.977678	0.418049	0.668782	-0.16082	-0.16139	0.013324	-0.08239	0.145633	0.14477	0.534203	0.295266
LOC100132	0.072327	-0.28665	0.198852	-0.02524	0.592882	0.032202	0.138103	0.852166	0.174599	-0.25278	0.274277	-0.20349	0.877086	0.045046	0.965869	0.087484
LOC100132	-0.02629	-0.29389	0.168959	-0.28989	0.847494	0.029417	0.213196	0.030223	0.137642	-0.43655	0.120748	-0.36235	0.819167	0.00121	0.785266	0.006668
LOC100132	-0.03812	-0.0064	-0.1574	-0.13364	0.778316	0.96267	0.242267	0.321657	-0.1016	-0.13936	-0.04562	-0.16255	0.250843	0.177822	0.383019	0.14022
UNQ1870	0.216504	-0.05205	0.258132	0.089549	0.105748	0.703191	0.052541	0.507695	0.288462	-0.24521	0.273972	-0.23826	0.974062	0.050245	0.965709	0.055407
LOC100132	-0.01446	0.156619	-0.096	-0.04666	0.914957	0.249024	0.477496	0.73034	-0.01399	0.541955	-0.11609	0.272251	0.463247	0.99995	0.223802	0.966407
LOC100132	-0.03777	-0.08316	0.207626	-0.17536	0.780304	0.542322	0.121199	0.191992	0.079767	-0.25215	0.068335	-0.30267	0.700889	0.045465	0.672211	0.020451
LOC100132	-0.0024	0.113648	0.129346	0.006489	0.98586	0.404289	0.337588	0.961791	-0.00759	0.156054	0.036681	-0.05935	0.480046	0.849816	0.594531	0.347596
HDAC5	-0.02016	-0.22704	0.109483	-0.29332	0.881684	0.092425	0.417534	0.0268	0.125251	-0.40492	0.213919	-0.52044	0.796558	0.002624	0.920881	0.000105
PDCD6IP	-0.0065	0.163504	-0.26795	-0.08485	0.962107	0.232959	0.045866	0.53411	-0.12583	0.303374	-0.01273	0.253678	0.202351	0.979795	0.466919	0.95554
PDCD6	-0.1534	0.306956	-0.25535	0.008469	0.254597	0.021386	0.055228	0.950143	-0.36083	0.492413	-0.36202	0.3442	0.006879	0.999746	0.007269	0.990418
BCL2L10	-0.06897	-0.06136	0.09556	-0.22049	0.610205	0.653232	0.479507	0.099318	-0.12548	-0.15249	-0.02475	-0.15634	0.203019	0.155847	0.435903	0.149742
BCL2L11	-0.00679	0.239736	-0.25526	0.145328	0.959999	0.07514	0.055317	0.280751	-0.22493	0.542202	-0.09602	0.286864	0.066435	0.99995	0.265179	0.973376
SH2B3	0.056864	-0.18811	0.341372	0.280616	0.674383	0.165033	0.009355	0.034485	0.253513	-0.31138	0.278779	-0.1472	0.955433	0.017582	0.968161	0.164478
CDH4	0.007005	-0.21859	0.195417	-0.1676	0.958755	0.105546	0.145181	0.212713	0.124469	-0.38635	0.16472	-0.29186	0.795079	0.003999	0.860216	0.02453
GNE	0.046222	0.19504	-0.10905	0.076413	0.732786	0.149725	0.419368	0.572105	-0.13776	0.537137	-0.22854	0.320288	0.180624	0.999941	0.06552	0.984998
HCN4	-0.19643	-0.26696	0.117171	-0.25487	0.143076	0.046704	0.385386	0.055707	-0.03318	-0.38019	0.114537	-0.36009	0.413354	0.004576	0.773127	0.006983

INSL5	0.024076	-0.16187	0.232677	-0.20585	0.86019	0.237734	0.084401	0.127999	0.159595	-0.30065	0.346512	-0.2353	0.855302	0.021166	0.990145	0.057727
FRAT1	-0.04527	-0.1678	0.178895	-0.09014	0.738092	0.216404	0.183034	0.504872	-0.22273	-0.29445	-0.05676	-0.23116	0.068401	0.023495	0.35557	0.06109
TROAP	-0.00056	0.128879	-0.01687	-0.17713	0.996717	0.343821	0.900876	0.187474	-0.15543	0.173462	-0.093	0.053145	0.151165	0.875517	0.271721	0.637122
MED16	0.034591	-0.09062	0.029787	0.047827	0.798376	0.50657	0.82591	0.723874	-0.09191	0.315571	-0.11647	0.14068	0.271766	0.983674	0.223053	0.824469
PIGK	0.064401	0.001577	-0.14005	0.131116	0.634118	0.990796	0.298779	0.330961	0.012536	0.168498	0.035369	0.238896	0.532949	0.868512	0.59121	0.945082
CDH5	0.201563	-0.12198	0.14487	0.250368	0.140026	0.379571	0.291293	0.065239	0.267559	-0.07219	0.14263	0.129059	0.963885	0.316759	0.825018	0.803672
CHAF1A	-0.01099	0.083517	-0.10483	-0.18165	0.935354	0.540563	0.437697	0.176267	-0.11079	0.236358	-0.09662	0.045439	0.231789	0.943111	0.263903	0.617857
PARP2	0.154264	0.06107	-0.10757	0.067245	0.251904	0.654792	0.425771	0.619184	-0.14019	0.42036	-0.12616	0.293125	0.176375	0.998185	0.20445	0.975981
PARP3	-0.14483	0.136896	0.106538	0.203831	0.282417	0.314377	0.430244	0.128307	-0.38551	0.431442	-0.08337	0.40617	0.004075	0.998622	0.293066	0.997451
CDH6	0.324307	-0.04853	0.042712	0.145091	0.01385	0.722476	0.752407	0.281544	0.213516	-0.00787	0.197447	0.07655	0.92048	0.479531	0.900552	0.691392
TOM1L1	-0.05013	0.245756	-0.10169	-0.06331	0.71114	0.067895	0.451633	0.639859	-0.09992	0.243484	-0.14364	0.080764	0.254407	0.948511	0.173262	0.70318
HMGXB4	-0.0915	0.337787	-0.32783	-0.00938	0.498458	0.010894	0.012794	0.944786	-0.09745	0.557659	-0.0975	0.286111	0.259685	0.999972	0.262013	0.973048
TOM1	-0.10865	-0.00641	0.048339	-0.18894	0.425399	0.962973	0.723501	0.163143	-0.15597	-0.08226	-0.07202	-0.24394	0.150321	0.29339	0.319137	0.05116
SH2D3C	0.069328	-0.29902	0.317699	0.289873	0.608344	0.025177	0.016032	0.028728	0.137467	-0.41458	0.230713	-0.23004	0.818859	0.002088	0.936342	0.062024
SH2D3A	-0.077	0.101649	-0.0119	-0.17009	0.569126	0.455998	0.929975	0.205903	-0.03676	0.209195	-0.12836	-0.08505	0.404194	0.918534	0.200367	0.287068
MAMLD1	0.173221	0.117391	0.071426	0.113454	0.197544	0.388882	0.597511	0.400741	0.357795	0.05856	0.016484	-0.05781	0.992683	0.650465	0.542794	0.351377
CST8	0.095481	-0.03924	0.229458	-0.19236	0.479872	0.774038	0.085982	0.151712	0.037271	-0.38535	0.143233	-0.19972	0.597126	0.004089	0.826044	0.091637
RANBP9	-0.05422	0.260674	-0.30121	0.061927	0.688742	0.052331	0.022792	0.647226	0.061533	0.315766	-0.0124	0.236418	0.657716	0.98373	0.467781	0.943159
DNAJB6	0.263756	0.100724	-0.04208	0.070891	0.047429	0.460131	0.755946	0.600266	0.022833	0.324832	0.114685	0.223479	0.559861	0.986188	0.773422	0.932275
CDH7	0.235967	-0.25764	0.247481	0.069063	0.07998	0.057559	0.065925	0.613018	-0.04283	-0.08991	0.190959	-0.04028	0.388737	0.27618	0.895541	0.395207
SLC17A4	-0.01677	-0.13485	0.110668	-0.29299	0.901467	0.32172	0.41248	0.026979	-0.04229	-0.1949	0.158105	-0.23983	0.391347	0.099749	0.847325	0.056281
SMC4	-0.0146	0.335601	-0.3406	0.099244	0.91419	0.011453	0.009528	0.462651	-0.0882	0.623773	-0.2231	0.416857	0.279985	0.999998	0.070362	0.998024
GJC1	0.242776	-0.17131	0.148929	0.28913	0.068813	0.2068	0.268876	0.029158	0.397106	-0.27354	0.158983	-0.00699	0.996858	0.032924	0.851557	0.48162
AP1M2	-0.17773	0.083225	-0.25722	-0.27587	0.190046	0.545785	0.055647	0.039592	-0.30656	0.33606	-0.31826	0.043589	0.02027	0.987996	0.017628	0.611913
UBA2	0.142842	0.316219	-0.27635	0.197954	0.289149	0.017584	0.037445	0.139928	-0.01317	0.580087	-0.25573	0.39457	0.465385	0.999988	0.044989	0.996671
SAE1	0.028522	0.430635	-0.14045	0.091344	0.834706	0.001031	0.301852	0.503153	-0.16399	0.72031	-0.26416	0.4887	0.138071	1	0.039763	0.999716
FARSB	0.006595	0.303082	-0.21771	0.16346	0.961165	0.023171	0.103768	0.224387	0.03205	0.454554	-0.10977	0.307736	0.583729	0.999247	0.236439	0.981261
ABCC5	-0.18568	0.435154	-0.34558	-0.30417	0.166705	0.000803	0.008464	0.021428	-0.36383	0.529727	-0.32865	0.181151	0.006467	0.999923	0.013753	0.885861
ABCB6	-0.04537	0.27824	-0.12769	-0.07627	0.737527	0.037858	0.343859	0.572839	-0.20844	0.528836	-0.24951	0.359208	0.082248	0.999921	0.049175	0.99289
DNM1L	0.020779	0.283846	-0.3184	0.27255	0.878066	0.034004	0.015788	0.040255	0.066073	0.423618	-0.1823	0.406744	0.66868	0.998325	0.115353	0.997485
CDH8	0.024447	0.028755	0.022768	-0.419	0.856752	0.833378	0.866496	0.001179	-0.2207	-0.15269	-0.10618	-0.31114	0.070249	0.155519	0.243778	0.017657
ABCC9	0.188715	-0.19834	0.067958	0.349914	0.159763	0.142814	0.615469	0.007626	0.090954	-0.18281	0.181392	0.10885	0.72613	0.111987	0.883467	0.764263
ABCF2	-0.14008	0.15564	-0.31907	0.16458	0.29868	0.252031	0.015556	0.221185	-0.10128	0.410119	-0.17706	0.19721	0.251521	0.997678	0.122297	0.905522
NR1H3	0.029426	-0.11407	0.023889	0.097996	0.827984	0.402539	0.859989	0.468322	0.099675	0.003944	0.06001	0.055227	0.745073	0.510378	0.652316	0.642271
COX17	-0.18641	-0.0618	0.067891	-0.22505	0.165025	0.650919	0.615816	0.092356	-0.29026	-0.0199	-0.22551	-0.02802	0.025184	0.44778	0.068184	0.426665
SCAMP2	-0.09364	0.21193	-0.08954	0.062874	0.492421	0.120348	0.511655	0.645264	-0.19931	0.516842	-0.32762	0.266343	0.092095	0.999882	0.014013	0.963207
SCAMP3	0.165852	0.110789	0.060332	0.355215	0.221855	0.420678	0.658702	0.007221	0.042388	0.481849	-0.04419	0.370347	0.610147	0.999651	0.386577	0.994353
IL18BP	-0.04833	-0.12512	0.274353	0.251493	0.723577	0.362729	0.040736	0.061521	0.186017	-0.04697	0.09516	0.180367	0.889417	0.379657	0.73054	0.882118
RWDD2B	-0.11913	0.289519	-0.21286	0.228358	0.37742	0.030443	0.1119	0.08754	-0.09132	0.428984	-0.19065	0.306818	0.273063	0.998534	0.10484	0.98096
CDH9	-0.02749	-0.09096	0.131752	-0.25841	0.840596	0.508947	0.333076	0.054491	0.030729	-0.2865	0.094395	-0.25741	0.579409	0.028193	0.728898	0.043907
MUC12	-0.11087	-0.08394	0.053443	-0.18402	0.415955	0.542322	0.695657	0.174576	-0.10093	-0.19349	0.245687	-0.26794	0.252251	0.098806	0.948108	0.035904
DPP3	-0.12042	0.167234	-0.04572	0.078679	0.372256	0.217974	0.735603	0.560732	-0.0593	0.613661	-0.29447	0.278943	0.347724	0.999997	0.024792	0.969759
SNUPN	-0.09565	0.081466	-0.39192	0.163322	0.479112	0.55059	0.002569	0.224784	-0.15536	0.524981	-0.34972	0.429071	0.151281	0.99991	0.009264	0.998537
HUWE1	0.090137	0.291485	-0.23551	0.215827	0.504898	0.029283	0.077801	0.106869	0.000357	0.613341	-0.14246	0.456807	0.50094	0.999997	0.175268	0.999292
PTPRU	-0.0876	0.04465	-0.06586	-0.08299	0.516997	0.743853	0.62645	0.539385	-0.17842	0.234463	-0.14884	0.110536	0.117736	0.941605	0.16458	0.767703
TSPAN32	-0.05704	-0.28743	0.294771	-0.07459	0.673445	0.031714	0.026022	0.581338	0.057497	-0.47763	0.190175	-0.33204	0.647858	0.000394	0.894586	0.012085
TSSC4	0.030576	-0.247	0.165395	-0.13116	0.821368	0.066466	0.218873	0.330803	-0.00127	-0.18619	0.055126	-0.26185	0.496651	0.107685	0.640452	0.039383
ATP9A	-0.23404	0.117582	-0.08232	-0.27022	0.082552	0.392576	0.546386	0.043993	-0.35245	0.07988	-0.22358	-0.10153	0.008146	0.701149	0.069917	0.250988
CDH10	0.010924	-0.2386	0.069041	-0.32648	0.936313	0.079384	0.613134	0.014059	-0.04818	-0.45473	-0.03781	-0.4517	0.375248	0.00075	0.402612	0.000813
PDCD7	0.119377	0.279766	-0.1674	-0.06876	0.37644	0.036775	0.213263	0.611318	-0.02601	0.606066	-0.22391	0.249356	0.431872	0.999996	0.069624	0.952657

GPC6	0.448112	-0.19999	0.24483	0.044912	0.000534	0.143207	0.068972	0.742398	0.467424	-0.39208	0.500611	-0.31164	0.999397	0.003864	0.999731	0.018582
USH1C	-0.36905	-0.18837	-0.07656	-0.15412	0.004728	0.164421	0.57137	0.252356	-0.42857	-0.18475	-0.10569	-0.24153	0.001481	0.109499	0.244784	0.052929
PQBP1	-0.1322	-0.08131	-0.07788	0.103616	0.326958	0.551338	0.564737	0.443069	-0.03478	0.259782	-0.17205	0.150561	0.409256	0.959378	0.129206	0.841044
EDIL3	0.410166	-0.06683	-0.02696	0.047619	0.001531	0.624556	0.842181	0.725026	0.466156	-0.20533	0.292464	-0.07825	0.999453	0.085516	0.974386	0.302619
HHLA1	0.223431	-0.12738	0.226569	-0.24246	0.094783	0.349523	0.090117	0.06919	0.243359	-0.35616	0.326669	-0.34492	0.94842	0.007563	0.985744	0.00945
COL4A3BP	-0.00088	0.34882	-0.26716	0.056674	0.994838	0.008419	0.044537	0.67541	-0.12147	0.512317	-0.22084	0.372033	0.210655	0.999864	0.072448	0.994551
KCNK7	0.107946	-0.28353	0.2633	-0.15339	0.42414	0.034213	0.047827	0.254621	0.14219	-0.32368	0.095241	-0.23283	0.827068	0.014106	0.733139	0.059713
CDH11	0.26766	-0.11897	0.142288	0.320831	0.048196	0.391525	0.300069	0.016931	0.075544	0.02979	0.163784	0.307041	0.691103	0.577902	0.858826	0.981033
UST	0.274408	0.3854	-0.06298	-0.03705	0.038859	0.003354	0.641636	0.784361	0.076925	0.546905	0.010229	0.332268	0.694317	0.999958	0.526586	0.987966
ARPC5	-0.01541	0.285669	-0.17781	0.388064	0.910236	0.034499	0.189833	0.003124	0.015221	0.489018	-0.09091	0.313465	0.539985	0.999718	0.276291	0.983052
ARPC4	-0.16838	0.447157	-0.34091	0.264708	0.210544	0.00055	0.009459	0.046605	-0.08454	0.529697	-0.23361	0.260759	0.288221	0.999923	0.061235	0.959967
ARPC3	-0.10235	0.257415	-0.34631	0.048874	0.448676	0.055456	0.008318	0.718077	-0.1951	0.417111	-0.22645	0.320319	0.096912	0.998036	0.067349	0.985007
ARPC1B	-0.10649	-0.01514	-0.11519	0.326802	0.430463	0.911841	0.393514	0.013095	-0.18519	0.341181	-0.12421	0.263065	0.108949	0.989841	0.208124	0.961331
ACTR3	-0.03387	0.273228	-0.2445	0.213728	0.802508	0.041602	0.066802	0.110407	-0.06745	0.417451	-0.15834	0.378288	0.328021	0.998052	0.149433	0.995232
ACTR2	0.002256	0.242516	-0.33045	0.277621	0.98671	0.071721	0.012055	0.036541	-0.09094	0.467266	-0.1565	0.386841	0.27389	0.99947	0.152294	0.996043
TSPAN5	-0.14598	0.294121	-0.32187	-0.20237	0.283039	0.029285	0.015558	0.134722	-0.02272	0.166697	-0.05948	-0.03889	0.440436	0.865906	0.348953	0.39875
TSPAN3	-0.06553	0.226779	-0.13824	0.029505	0.62816	0.09281	0.30511	0.827529	-0.19928	0.377598	-0.16505	0.321194	0.092131	0.99516	0.1393	0.985242
ADAM8	-0.12774	-0.25527	0.160734	0.184806	0.343683	0.057591	0.232316	0.16875	0.008742	-0.32885	0.102876	-0.30325	0.522991	0.012826	0.749362	0.020247
CDH12	0.126018	-0.13958	0.264293	0.152907	0.354728	0.309443	0.04903	0.260557	0.165818	-0.37018	0.132602	-0.27105	0.864623	0.005667	0.807393	0.034223
TSPAN2	0.126799	-0.17919	0.070514	-0.04344	0.347267	0.186365	0.602209	0.748332	0.069907	-0.27957	0.14204	-0.04181	0.677833	0.029942	0.824009	0.39132
NUBP2	-0.0655	-0.09527	0.053533	0.053604	0.62832	0.484906	0.692476	0.69209	0.022046	0.106464	-0.0027	0.076888	0.557814	0.759349	0.492983	0.694231
TSFM	0.00126	0.24523	-0.22239	0.194801	0.992579	0.068505	0.096373	0.146477	-0.17026	0.618626	-0.29037	0.370955	0.128976	0.999998	0.026498	0.994425
TSPAN1	-0.2723	0.207804	-0.25143	-0.01281	0.044298	0.1316	0.064072	0.926068	-0.16277	0.122962	-0.17181	0.032499	0.142689	0.789505	0.132383	0.583921
PPIF	-0.1806	0.178921	-0.23671	0.145813	0.178822	0.187035	0.076253	0.279133	-0.12783	0.535625	-0.28882	0.3235	0.198607	0.999937	0.027166	0.985848
CTDSP2	0.14746	-0.09831	0.051047	0.212918	0.278124	0.475197	0.708679	0.115137	0.251202	0.102669	0.021274	0.074163	0.953906	0.751421	0.555161	0.687873
TRIM10	-0.08102	-0.08752	0.163606	-0.15505	0.549086	0.521245	0.223968	0.249476	0.18414	-0.47918	0.164322	-0.35118	0.889719	0.000377	0.859626	0.008356
ARPC2	-0.06933	0.279375	-0.32092	0.329997	0.611669	0.038863	0.015887	0.012999	-0.09119	0.580045	-0.26926	0.474128	0.273359	0.999988	0.036835	0.999564
SGK2	0.023021	-0.13268	0.167357	-0.30577	0.865031	0.329665	0.213381	0.020721	-0.10796	-0.28472	0.154996	-0.26414	0.237571	0.027565	0.84534	0.038048
RAD50	-0.04464	0.280673	-0.25049	0.045311	0.741626	0.036143	0.060201	0.737866	-0.04302	0.384553	-0.00369	0.31266	0.388259	0.995839	0.490406	0.982809
KIF20A	-0.09928	0.034406	-0.11516	-0.10482	0.470796	0.804918	0.402467	0.44628	-0.17177	0.592733	-0.01738	0.401208	0.129603	0.999991	0.455414	0.996847
PREB	0.06671	0.086099	0.063121	0.218801	0.625196	0.531955	0.643968	0.105205	0.05622	0.296251	-0.24186	0.267944	0.644719	0.977201	0.054729	0.964097
HIPK3	-0.09297	0.140228	-0.19827	0.116075	0.491535	0.302632	0.139287	0.389876	0.063629	0.053346	-0.05078	0.018519	0.662796	0.637621	0.370222	0.548611
FEM1B	0.024098	0.151994	-0.11041	0.218603	0.85878	0.26345	0.413591	0.102326	0.133326	0.232072	-0.15508	0.100597	0.8087	0.937486	0.157407	0.744573
ENAM	-0.09027	-0.16449	0.177842	-0.17976	0.504253	0.22574	0.185667	0.18088	0.015177	-0.3962	0.093393	-0.31185	0.53987	0.003208	0.729137	0.017437
CDH13	0.241579	0.171908	-0.16953	-0.01174	0.070235	0.205197	0.207398	0.93091	0.220944	0.3715	-0.12031	0.110134	0.929971	0.994489	0.215574	0.766885
ACTR1B	-0.03005	-0.16413	-0.08592	-0.09621	0.824408	0.226768	0.525104	0.476527	-0.23682	0.118182	-0.19123	0.017899	0.056524	0.782962	0.104132	0.546992
ACTR1A	-0.03402	0.040531	-0.10169	0.281167	0.80342	0.768907	0.455802	0.035803	-0.11952	0.557816	-0.18982	0.38996	0.217097	0.999966	0.108581	0.995952
ARL4C	0.127065	-0.06272	-0.00297	0.544992	0.346248	0.646065	0.982513	1.17E-05	-0.00938	0.270053	-0.14278	0.279565	0.475338	0.965243	0.174734	0.970057
ARL4A	0.074381	0.277682	-0.03126	-0.06215	0.582398	0.03826	0.817458	0.646025	0.065516	0.173811	0.023527	0.089568	0.667343	0.876	0.560959	0.723059
RASGRP1	-0.17841	0.259032	-0.31411	0.535539	0.184248	0.053888	0.017334	1.77E-05	-0.33094	0.423675	-0.21211	0.318768	0.012337	0.998327	0.08093	0.984581
DNAL4	-0.23174	-0.20693	0.022801	-0.29992	0.082825	0.125959	0.866309	0.023412	-0.42195	-0.23122	-0.11437	-0.12638	0.001746	0.061039	0.227202	0.201317
ZNF263	-0.14778	0.061729	-0.15872	0.006467	0.272619	0.651306	0.238307	0.961921	0.25061	0.021624	-0.00519	-0.06149	0.953509	0.556713	0.486509	0.342394
LRPPRC	0.077369	0.294475	-0.34381	0.196095	0.567296	0.027591	0.00883	0.143762	0.014486	0.571282	-0.18079	0.429938	0.538061	0.999983	0.11732	0.998569
FRY	0.403491	-0.38427	0.321111	-0.29394	0.001857	0.003456	0.014871	0.026465	0.352697	-0.63319	0.402844	-0.48102	0.991257	1.52E-06	0.996648	0.000412
CDH15	-0.11746	-0.12354	0.163462	-0.22214	0.384187	0.364353	0.224381	0.09675	0.112108	-0.37211	0.21788	-0.32157	0.770886	0.00544	0.924753	0.014658
PDIA6	0.02909	0.271123	-0.15574	0.370231	0.82992	0.043262	0.24735	0.004586	0.028021	0.483853	-0.097	0.405047	0.573328	0.999671	0.263072	0.997384
TRAP1	-0.08767	0.128016	-0.14234	0.024946	0.516652	0.347086	0.290877	0.853862	-0.24004	0.674899	-0.35549	0.386571	0.054047	1	0.008277	0.99602
OPTN	-0.04819	-0.12603	-0.03995	0.395991	0.721836	0.35469	0.767955	0.002295	0.096233	-0.23059	0.192167	-0.07261	0.737676	0.061569	0.897001	0.315785
BCAP31	-0.00527	0.165846	-0.26798	0.085866	0.968988	0.221872	0.043859	0.525373	-0.28707	0.645056	-0.42608	0.399156	0.026534	0.999999	0.00176	0.997002
NAMPT	-0.09482	-0.07494	0.14626	0.118816	0.48294	0.583036	0.277645	0.378703	-0.07822	-7.79E-05	0.026236	-0.07352	0.30268	0.499795	0.567918	0.313626

ELA3A	0.030347	-0.16616	0.240989	-0.21076	0.824292	0.225351	0.073584	0.118952	-0.07189	-0.21949	0.090349	-0.12312	0.317462	0.071379	0.722484	0.207487
RBM12	0.031529	0.27159	-0.16093	0.124173	0.815901	0.042889	0.231728	0.357424	0.122317	0.236253	-0.13144	0.164098	0.790976	0.943028	0.194721	0.862088
YAF2	0.084285	0.243469	-0.07462	0.075206	0.533054	0.070579	0.581163	0.578208	0.388764	0.081119	0.071833	-0.04189	0.995845	0.701848	0.678449	0.392345
ARFRP1	-0.1484	-0.02106	0.062838	0.013716	0.270611	0.877569	0.642384	0.919342	0.113235	0.121452	-0.09795	0.07897	0.773154	0.789314	0.261056	0.699053
CDH16	-0.00388	-0.11633	0.221174	-0.22064	0.977122	0.393207	0.098253	0.099088	0.146502	-0.40296	0.121765	-0.29113	0.834359	0.002747	0.78722	0.024828
TOB1	0.268718	-0.05554	-0.09508	-0.09223	0.043262	0.684308	0.481713	0.49502	0.419354	-0.04004	0.032349	-0.14164	0.99814	0.39582	0.583538	0.173882
C4orf6	-0.00932	-0.04125	0.174092	-0.27947	0.945644	0.76492	0.199413	0.036986	0.102721	-0.21075	0.11629	-0.15527	0.751532	0.079878	0.776592	0.151414
AKAP9	0.035549	-0.01095	-0.06245	-0.12914	0.792916	0.936168	0.644464	0.338357	0.047845	-0.17938	0.079243	-0.04345	0.623905	0.116463	0.697573	0.387173
CLEC3A	0.28883	-0.17951	0.255607	-0.22312	0.030858	0.189716	0.057255	0.098349	0.299045	-0.25664	0.183751	-0.32485	0.97569	0.04632	0.880902	0.015717
FAM13A	-0.06902	-0.15934	0.055304	-0.21554	0.609968	0.240797	0.682832	0.107349	-0.13648	-0.28103	0.109946	-0.23576	0.182881	0.029249	0.763919	0.057362
G3BP1	-0.06772	0.296445	-0.35522	0.338146	0.6167	0.026522	0.006698	0.010092	-0.16101	0.644355	-0.31797	0.499929	0.142548	0.999999	0.016646	0.999798
SFRS14	-0.15143	0.206313	-0.09198	-0.02248	0.265232	0.130732	0.500187	0.869381	-0.16271	0.32788	0.029014	-0.00742	0.139984	0.986942	0.575029	0.480478
EBI3	-0.1348	-0.1032	0.160415	-0.11542	0.317435	0.449129	0.233255	0.39256	0.000921	-0.26505	0.03359	-0.24416	0.502423	0.037525	0.586696	0.050995
GPR64	0.086969	-0.24619	-0.00913	-0.12936	0.527805	0.070011	0.947255	0.346564	0.259949	-0.43489	0.097645	-0.34594	0.959479	0.001263	0.738302	0.009263
CDH17	-0.08105	-0.06018	0.148423	-0.16485	0.548937	0.659528	0.270521	0.220421	-0.05702	-0.16911	-0.02564	-0.22848	0.353301	0.130616	0.433612	0.063345
MBNL2	0.064338	-0.04138	0.015602	0.089539	0.63445	0.762054	0.908296	0.50774	0.120471	-0.01349	0.037617	0.085724	0.787419	0.464537	0.596899	0.714458
HNRNPA3P	0.120199	-0.11991	0.060796	-0.15417	0.373137	0.378714	0.653256	0.252206	0.025371	0.004546	0.189852	-0.02219	0.566459	0.51196	0.894191	0.441825
ABI2	-0.05368	0.00148	-0.08656	-0.15534	0.691699	0.991365	0.522009	0.248582	-0.14335	-0.10148	0.070404	-0.05361	0.170958	0.251088	0.677086	0.361728
CEBPZ	0.112966	0.183385	-0.30918	0.098768	0.40278	0.176093	0.019272	0.464809	0.02367	0.512302	-0.1636	0.350722	0.562038	0.999864	0.141442	0.991569
PLXNC1	0.094587	-0.4141	0.075186	0.391451	0.484012	0.00151	0.578311	0.002603	-0.12799	-0.32684	0.218172	-0.08869	0.198303	0.013311	0.925033	0.278902
TRIM28	-0.02445	0.104331	-0.16412	0.067993	0.85672	0.444138	0.222505	0.615282	-0.05767	0.541867	-0.26483	0.321664	0.35171	0.99995	0.039369	0.985367
AASS	0.234213	-0.04838	0.142642	0.317694	0.079504	0.723252	0.289833	0.016034	0.50124	-0.0462	0.099177	-0.01917	0.999774	0.38158	0.739079	0.450261
PDZK1IP1	-0.03216	-0.23186	0.170031	0.300603	0.812267	0.08553	0.206052	0.023083	-0.03068	0.000262	-0.03463	-0.02469	0.419788	0.500688	0.410656	0.435313
ATP6AP2	-0.0117	0.210057	-0.30087	0.171722	0.931179	0.120217	0.022957	0.20151	-0.21668	0.491986	-0.20259	0.409366	0.07403	0.999742	0.090997	0.997636
CDH18	-0.08572	-0.11844	0.163142	-0.21301	0.529913	0.389099	0.229605	0.11498	0.091574	-0.4421	0.12797	-0.27416	0.727499	0.001049	0.798914	0.032608
FARP1	0.045052	0.047191	0.177462	-0.32062	0.73931	0.729816	0.186622	0.015033	-0.07901	-0.11367	-0.0232	-0.20015	0.300858	0.225969	0.43987	0.09116
P2RY5	-0.05198	0.323223	-0.25386	0.356082	0.700992	0.015106	0.056722	0.006557	0.077953	0.593942	-0.16208	0.464139	0.696702	0.999993	0.143732	0.999421
LPCAT3	-0.04468	0.472999	-0.32369	0.251278	0.741405	0.000232	0.014043	0.059369	-0.0125	0.678327	-0.17869	0.503896	0.467141	1	0.120115	0.999822
WASF2	0.008146	0.177643	0.021575	-0.15905	0.952046	0.190257	0.873433	0.237303	-0.00387	0.094666	-0.06731	0.003717	0.489823	0.734274	0.330224	0.50978
CHST4	-0.37967	-0.13029	-0.13653	0.256864	0.003581	0.338506	0.311205	0.053753	-0.25858	0.008482	-0.27205	-0.11531	0.041356	0.522308	0.03531	0.222705
SLC25A13	0.068342	0.369731	-0.35456	0.020364	0.613466	0.005039	0.006807	0.880483	-0.03139	0.487096	-0.24679	0.185464	0.41797	0.999702	0.051098	0.891399
SLC25A15	0.063984	0.288296	-0.05418	-0.05525	0.636318	0.031183	0.688935	0.68315	0.065302	0.201201	-0.11247	0.103789	0.666829	0.910009	0.230992	0.753774
ZNF197	-0.01626	0.238879	-0.102	0.053356	0.904427	0.07622	0.450243	0.693445	-0.03354	0.172037	-0.07243	0.127136	0.412438	0.873532	0.318176	0.800098
SERF2	-0.1694	0.055656	0.065236	-0.2333	0.207763	0.683702	0.629719	0.080719	-0.28717	-0.12665	-0.17987	-0.13377	0.026492	0.200817	0.118538	0.187728
CDK2	0.257896	0.062492	-0.07558	0.277841	0.052766	0.64728	0.576339	0.036387	0.163431	0.394676	-0.23698	0.261313	0.861096	0.996679	0.058513	0.960298
DHRS9	-0.23011	0.439179	-0.33866	-0.11238	0.085064	0.000709	0.009971	0.405225	-0.26189	0.475045	-0.2391	0.207621	0.039361	0.999575	0.05684	0.916903
RCL1	-0.03062	0.151934	-0.19036	0.07023	0.821098	0.263638	0.15609	0.603677	0.083665	0.093017	-0.01879	0.091351	0.709799	0.730671	0.45125	0.727007
ZNF256	0.037385	0.233961	-0.10033	0.169968	0.782475	0.082653	0.457743	0.206223	0.026526	0.28955	0.052714	0.318275	0.569455	0.97452	0.634542	0.984444
SORBS3	0.082038	-0.32359	0.2963	-0.21487	0.544064	0.014985	0.025223	0.108473	0.004329	-0.42571	0.154287	-0.32564	0.511391	0.001591	0.844216	0.013609
CNIH	-0.05435	0.362789	-0.33208	0.216576	0.68802	0.005997	0.011613	0.105629	-0.17199	0.609493	-0.40814	0.49619	0.126529	0.999997	0.002692	0.999773
ODZ1	0.270819	-0.09208	0.267745	0.392697	0.041591	0.499682	0.044054	0.002515	0.025761	-0.02224	0.1009	0.148014	0.56747	0.441669	0.745211	0.836869
RBM7	-0.02153	0.202616	-0.30415	0.313097	0.87368	0.134231	0.021437	0.01772	0.034537	0.367433	-0.17836	0.324212	0.590125	0.993998	0.120553	0.986031
CDK3	0.045351	-0.1541	0.132299	-0.21372	0.739972	0.261312	0.331059	0.113738	0.130998	-0.23626	0.081293	-0.23888	0.804482	0.059083	0.700063	0.057017
RBM6	-0.05196	-0.05461	0.077572	0.021723	0.701085	0.689357	0.566275	0.872575	0.071923	-0.19285	0.061188	-0.13722	0.682605	0.099563	0.655158	0.181573
RBM5	0.030063	0.073024	-0.05589	0.173236	0.824322	0.59275	0.679661	0.197505	0.234686	0.098609	-0.06166	-0.01955	0.941784	0.742794	0.343708	0.448699
LHFPL2	0.121126	-0.19378	0.116684	0.313808	0.369434	0.152426	0.387377	0.017449	0.515472	-0.13216	0.335648	0.030064	0.999877	0.190634	0.987904	0.57861
LHFP	0.314819	-0.09952	0.089858	0.357764	0.018118	0.469719	0.510149	0.006787	0.294958	-0.07162	0.268109	0.24159	0.976703	0.318103	0.962518	0.947116
TNK2	0.013159	-0.144	0.185838	0.014512	0.922605	0.289686	0.166343	0.914675	0.098654	-0.20497	0.070774	-0.15596	0.742891	0.085899	0.677955	0.150327
THOC4	-0.14602	0.185858	-0.11312	-0.08931	0.282887	0.174283	0.406469	0.512756	-0.30155	0.616307	-0.30655	0.440579	0.020846	0.999997	0.020273	0.998909
CDK4	0.049634	0.149073	-0.23687	0.293254	0.713878	0.272842	0.076052	0.026836	-0.05876	0.627631	-0.29544	0.479671	0.349038	0.999998	0.0244	0.999628

TXNDC9	-0.02005	0.296862	-0.31287	0.160335	0.882322	0.0263	0.017809	0.233492	-0.18916	0.490873	-0.2188	0.427906	0.104008	0.999734	0.074371	0.998494
RNF41	-0.09192	0.053778	-0.33126	0.159375	0.496472	0.693844	0.011835	0.236339	-0.05023	0.191702	-0.13255	0.111106	0.370135	0.899071	0.192703	0.768861
TSHZ1	-0.04907	0.269804	-0.22132	-0.10479	0.717009	0.04433	0.098026	0.437903	-0.08706	0.359946	0.094593	0.193826	0.282545	0.992996	0.731739	0.901596
ALG3	0.011989	0.175656	-0.00586	0.039089	0.929469	0.195342	0.965513	0.772823	0.098299	0.462064	-0.18236	0.251217	0.74213	0.999387	0.115274	0.953916
PRMT3	0.059583	0.385743	-0.29202	0.155927	0.659745	0.003324	0.027514	0.246763	-0.10907	0.574213	-0.28053	0.407163	0.235286	0.999985	0.030981	0.99751
PSME3	-0.22138	0.360697	-0.2837	0.12829	0.101063	0.006825	0.034098	0.346046	-0.28928	0.538586	-0.40772	0.325914	0.025592	0.999944	0.002718	0.98646
MPHOSPH	-0.08041	0.077948	-0.2316	0.069646	0.552126	0.567981	0.083014	0.606696	-0.15832	0.356296	-0.08843	0.317293	0.146661	0.992458	0.28176	0.984168
MPHOSPH	-0.10091	0.27852	-0.28581	0.069322	0.455114	0.037657	0.031147	0.608376	-0.09708	0.228849	-0.05831	0.257535	0.260482	0.936966	0.351806	0.957997
ADAM10	0.087468	0.255977	-0.18659	0.099851	0.52151	0.056883	0.168519	0.46405	-0.04641	0.345157	-0.06529	0.312962	0.379712	0.990594	0.335005	0.9829
CDK5	-0.02836	0.098506	0.005425	-0.22051	0.834123	0.47012	0.96805	0.099288	-0.39968	0.323904	-0.29736	0.178476	0.002962	0.985952	0.023641	0.882332
MPHOSPH	0.123896	0.258105	0.022	0.214366	0.362954	0.057097	0.872142	0.112628	0.060567	0.450787	-0.16239	0.332873	0.655365	0.999167	0.143255	0.988102
NME6	-0.14369	0.008582	-0.11737	-0.04844	0.28628	0.949945	0.38457	0.720474	-0.3159	0.298492	-0.15123	0.296637	0.016231	0.978045	0.160679	0.977348
DHRS2	0.020696	-0.12262	0.171758	-0.20566	0.878551	0.367956	0.201413	0.124839	0.014587	-0.22143	0.068431	-0.25993	0.538326	0.069579	0.672439	0.040532
CALCRL	0.126499	-0.01588	-0.03982	0.461116	0.348418	0.907546	0.7687	0.000306	0.105962	0.247757	-0.04268	0.503715	0.758308	0.951555	0.390364	0.999821
NUTF2	-0.01478	0.123934	-0.10689	0.044351	0.913129	0.362803	0.428733	0.743225	-0.40013	0.485458	-0.24632	0.238943	0.002932	0.999687	0.051432	0.945118
MPZL2	-0.07889	0.503461	-0.33676	0.312411	0.559662	7.65E-05	0.010424	0.017984	-0.1217	0.753163	-0.25832	0.511891	0.210203	1	0.043329	0.999862
TRIM13	-0.11818	0.333435	-0.3053	0.038484	0.381291	0.012031	0.020925	0.776244	-0.15987	0.507872	-0.26287	0.285179	0.144272	0.999843	0.040527	0.972637
INADL	-0.1137	0.412144	-0.31573	-0.00659	0.399693	0.001598	0.016737	0.96118	0.047191	0.423559	-0.29163	0.186922	0.622264	0.998322	0.025964	0.893227
USPL1	0.043463	0.150571	-0.12339	0.198598	0.748193	0.267998	0.360496	0.138617	0.135642	0.186912	-0.00124	0.184961	0.815625	0.893215	0.496773	0.890763
EIF1	0.029292	0.24791	-0.27051	0.287125	0.828754	0.065442	0.041833	0.030346	0.176259	0.369448	-0.1348	0.314417	0.87661	0.993749	0.191489	0.982289
CDK6	-0.03246	0.518311	-0.26415	0.253497	0.81056	4.28E-05	0.047082	0.057084	-0.13315	0.704964	-0.18787	0.538225	0.188846	1	0.108263	0.999943
TOPORS	0.054445	0.294933	-0.22108	0.072916	0.690234	0.028821	0.101541	0.593302	0.161322	0.303651	-0.27941	0.12073	0.855128	0.978709	0.033121	0.785233
FLOT1	0.042564	-0.17754	0.128418	0.155215	0.753236	0.190523	0.341094	0.248955	-0.03942	-0.12268	0.064706	-0.04903	0.397398	0.208334	0.663594	0.373133
DDX39	-0.00366	0.113458	-0.05293	0.190016	0.978437	0.40508	0.695772	0.156851	-0.12182	0.569676	-0.29652	0.393444	0.209979	0.999982	0.023972	0.996586
PSMD14	-0.03084	0.319233	-0.32958	0.191327	0.819852	0.016478	0.012296	0.153957	-0.17679	0.572195	-0.26313	0.442294	0.119931	0.999984	0.040373	0.998957
SSX3	-0.05109	-0.30173	0.141931	-0.06835	0.705854	0.023821	0.292268	0.613443	-0.01429	-0.33765	-0.00373	-0.26028	0.462448	0.010871	0.490302	0.040319
OLIG2	-0.03453	-0.10904	0.170424	-0.11625	0.798721	0.42374	0.20499	0.389151	-0.0472	-0.20257	0.069101	-0.29021	0.377712	0.088485	0.674018	0.025206
PRG4	0.102177	-0.25899	0.123796	-0.22751	0.449463	0.053926	0.358897	0.088747	0.274471	-0.3099	0.364023	-0.26013	0.96755	0.018046	0.993019	0.040411
CTDSPL	0.291595	0.182401	-0.125	0.042166	0.027751	0.178466	0.354205	0.755471	0.105066	0.35362	-0.17939	0.212178	0.756444	0.992042	0.119179	0.921559
ANGPTL7	-0.02011	-0.27204	0.158687	-0.0382	0.883032	0.044514	0.24275	0.779869	0.169398	-0.50384	0.243562	-0.4419	0.867025	0.000209	0.944442	0.001186
KLRG1	-0.01803	-0.28971	-0.09443	0.043941	0.895087	0.031918	0.488779	0.747782	-0.02608	-0.53087	0.064614	-0.37327	0.431706	7.37E-05	0.663374	0.005309
CDK7	-0.17804	0.207813	-0.38392	-0.10736	0.185157	0.124321	0.003197	0.426658	-0.21491	0.165158	-0.32591	-0.00457	0.075746	0.863653	0.014452	0.487972
GDF11	0.17698	-0.17299	0.201726	-0.05315	0.191943	0.20233	0.135985	0.697261	0.212615	-0.26632	0.181428	-0.14282	0.921995	0.036806	0.883514	0.171861
TRIB1	0.152543	-0.08656	-0.07476	0.166654	0.257296	0.525851	0.580447	0.215336	0.154302	0.352666	-0.02045	0.166046	0.847053	0.991889	0.446968	0.864957
GPA33	-0.0671	-0.24504	0.20902	-0.08957	0.61996	0.068723	0.118667	0.507601	0.003533	-0.34463	0.122077	-0.26079	0.509295	0.009502	0.787816	0.040012
ZNF443	0.039876	0.181096	-0.17024	0.071782	0.768374	0.181645	0.20548	0.595681	-0.05119	0.319427	-0.08646	0.299902	0.367739	0.984763	0.28612	0.978563
CD96	-0.07142	-0.03873	0.026895	0.68277	0.597562	0.776862	0.842586	4.90E-09	-0.39155	0.047839	-0.11655	0.288615	0.00391	0.622503	0.225604	0.972744
M6PRBP1	-0.22036	0.046497	-0.30883	-0.03625	0.099523	0.733638	0.019418	0.78895	-0.28199	0.36025	-0.26446	0.173215	0.028806	0.993039	0.039581	0.875175
MFSD10	0.071318	-0.13459	0.09236	0.071885	0.601446	0.327256	0.498392	0.598547	0.024264	0.17067	0.059688	-0.03367	0.562854	0.868839	0.649832	0.4131
STX6	-0.02403	0.401279	-0.31978	0.245609	0.859168	0.002176	0.015314	0.065541	-0.12827	0.662432	-0.2543	0.367876	0.197784	1	0.045923	0.994053
COQ7	-0.03697	0.159819	-0.14978	-0.21417	0.78486	0.239362	0.266123	0.109656	-0.20811	0.353631	-0.14815	0.143908	0.082585	0.992044	0.165714	0.829996
NBR2	-0.15878	-0.01472	-0.13008	-0.27476	0.238123	0.914255	0.334814	0.038598	-0.0456	0.05018	-0.14902	0.103804	0.381747	0.629745	0.164291	0.753806
RCAN2	0.334567	-0.1321	0.160334	0.226887	0.010968	0.331796	0.233496	0.089654	0.36969	-0.3252	0.316728	-0.19389	0.994275	0.01372	0.982988	0.098325
MSLN	-0.22914	0.160008	-0.14011	-0.12348	0.086426	0.2388	0.298564	0.360115	-0.30093	0.157733	0.02449	-0.05128	0.021066	0.852433	0.563435	0.367524
LRRC23	-0.15685	-0.20561	0.044666	-0.24417	0.243954	0.128456	0.741462	0.067185	-0.20333	-0.32381	0.074707	-0.2142	0.087656	0.014071	0.687128	0.076437
LRRC17	0.069807	-0.00011	0.091576	-0.06435	0.605866	0.99936	0.498093	0.634367	-0.11193	-0.08004	0.045324	-0.09908	0.229481	0.298477	0.616247	0.256187
RASGRP2	0.0998	-0.43342	0.304795	0.167193	0.464278	0.000948	0.022367	0.218087	0.134394	-0.42771	0.265507	-0.22885	0.810617	0.001691	0.959236	0.065255
HNRNPR	0.053558	0.232694	-0.2205	0.175783	0.692343	0.084378	0.099306	0.190893	-0.11176	0.489019	-0.21293	0.413173	0.229806	0.999718	0.080111	0.997841
SLC35B1	-0.02768	0.078262	0.010162	0.274022	0.838022	0.566419	0.940195	0.039146	-0.15057	0.388864	-0.35298	0.25888	0.158947	0.996217	0.008695	0.958828
WDR68	-0.11078	0.296335	-0.3104	0.35712	0.412007	0.026581	0.018779	0.006391	-0.18402	0.653894	-0.24954	0.526886	0.110439	1	0.049154	0.999916

AP3S2	-0.06242	0.35984	-0.24594	0.105638	0.644598	0.00645	0.065173	0.434171	-0.11164	0.456899	-0.248	0.260689	0.230058	0.999293	0.050235	0.959925
CDK8	-0.10704	0.34553	-0.29009	0.076191	0.428053	0.0091	0.028601	0.573229	-0.21079	0.477707	-0.25831	0.377746	0.079842	0.999606	0.043335	0.995176
MRPS31	-0.17267	0.189831	-0.27752	0.029116	0.199004	0.161123	0.036611	0.82977	-0.31935	0.181917	-0.11161	0.243959	0.015257	0.88686	0.23271	0.948856
CALCOCO2	0.199492	-0.13522	-0.03205	0.229611	0.136814	0.320386	0.812909	0.085768	0.466905	-0.25811	0.152724	-0.26501	0.999464	0.041649	0.841724	0.037546
KCNMB2	-0.12968	-0.29036	0.097893	-0.25638	0.340787	0.031516	0.472899	0.056482	-0.22608	-0.43876	0.014517	-0.32789	0.065421	0.001143	0.537703	0.013055
GPHN	0.076738	0.360515	-0.13338	0.189983	0.570469	0.006344	0.322602	0.156923	0.069525	0.558322	-0.20971	0.359964	0.676927	0.999972	0.083387	0.992999
RABEPK	-0.01799	0.105806	-0.0134	0.067254	0.894324	0.437689	0.921217	0.619139	-0.07563	0.347824	-0.13625	0.257357	0.308706	0.991073	0.18607	0.957885
TIMM17B	-0.19629	0.230328	-0.08281	-0.007	0.143352	0.087676	0.540251	0.958798	-0.3037	0.364707	-0.40687	0.275613	0.020094	0.993648	0.002771	0.968126
SLC17A2	0.096305	-0.15845	0.218158	-0.34486	0.476071	0.243477	0.103045	0.008611	0.095971	-0.38005	0.075807	-0.40613	0.73711	0.00459	0.689675	0.002551
HRSP12	0.099297	0.107341	-0.29904	-0.02304	0.462411	0.43103	0.023844	0.864925	0.03278	0.25951	-0.06851	0.256145	0.585608	0.959213	0.327376	0.957124
POP7	0.051652	0.04472	-0.07971	-0.02211	0.702773	0.743462	0.555594	0.870345	-0.07805	0.32705	-0.25293	0.100666	0.303071	0.98674	0.046835	0.747184
GLYAT	0.143236	-0.08345	0.172437	-0.13935	0.287809	0.540911	0.199612	0.301236	0.037415	-0.16985	0.124459	-0.09323	0.597494	0.129559	0.792343	0.268864
CDK9	-0.05337	-0.21667	-0.02889	0.005173	0.693393	0.108718	0.831098	0.969537	-0.13407	0.041235	-0.11997	-0.03217	0.187195	0.607224	0.216228	0.415958
SRRM1	0.160911	-0.12601	0.187276	-0.17752	0.231796	0.35476	0.163029	0.186469	0.178415	-0.26099	0.318413	-0.29936	0.88225	0.039892	0.983484	0.021635
SPRY1	0.139904	-0.04227	0.014697	0.380857	0.299286	0.757054	0.913593	0.00347	0.168957	0.183705	0.03045	0.285157	0.86917	0.889164	0.578697	0.972628
SPRY2	0.286024	0.005785	-0.06088	0.289438	0.031015	0.966246	0.652815	0.028979	0.232192	0.441665	-0.00591	0.354503	0.939761	0.99894	0.484623	0.992181
STAM2	-0.05242	0.151639	-0.18141	-0.04702	0.698572	0.264578	0.176848	0.728359	-0.05578	0.229605	-0.05569	0.185656	0.356371	0.937607	0.358174	0.891641
HCG9	-0.05271	-0.155	0.149302	-0.15553	0.696999	0.254001	0.267665	0.247979	0.099689	-0.27961	0.117481	-0.06812	0.745105	0.029923	0.778928	0.326423
CNKSRI	-0.04528	-0.07924	0.118113	-0.17917	0.738022	0.561589	0.381548	0.182347	-0.22264	0.155788	-0.18144	-0.06503	0.068481	0.849399	0.116474	0.333837
ABCC4	0.013526	0.155216	-0.0613	0.479972	0.920455	0.25334	0.650559	0.000158	-0.02337	0.294529	-0.08337	0.392218	0.43875	0.976535	0.293064	0.99649
CDKN1A	0.070336	-0.08451	-0.08617	-0.11621	0.60313	0.53574	0.523892	0.389327	-0.0021	0.081991	-0.15391	-0.09639	0.494481	0.705988	0.156384	0.261989
DENND4A	0.015662	0.117065	-0.12644	0.122571	0.907944	0.390209	0.34865	0.36371	0.10992	0.04842	0.067959	0.124707	0.76645	0.625345	0.671321	0.795529
IGSF6	-0.12018	-0.37479	0.126964	0.305105	0.377616	0.004814	0.351097	0.022224	-0.18273	-0.49441	0.066253	-0.24147	0.112092	0.000239	0.667278	0.052976
SF3B4	-0.10307	-0.19466	0.089924	0.060328	0.445487	0.150528	0.50591	0.655755	-0.2161	0.019723	-0.09322	0.085739	0.074593	0.551756	0.271229	0.714491
CDK2AP2	-0.0124	-0.19331	0.120413	0.058043	0.927044	0.153444	0.372281	0.66802	0.043148	0.143846	0.08322	0.157598	0.61081	0.827085	0.704388	0.849415
IRX5	0.044494	0.008297	0.058823	-0.35693	0.742428	0.951605	0.66382	0.006422	0.012443	-0.26059	0.109621	-0.43453	0.532329	0.04191	0.760635	0.001429
RAMP2	0.270678	-0.20356	0.338022	-0.0493	0.041701	0.132386	0.010121	0.715712	0.068319	-0.41313	0.125073	-0.12728	0.674056	0.002162	0.793501	0.199628
RAMP1	0.110442	-0.24633	0.330264	-0.09711	0.413443	0.067238	0.012106	0.472386	0.21411	-0.4524	0.237882	-0.34043	0.923473	0.000798	0.942203	0.010307
RAMP3	0.165588	-0.19757	0.334761	0.251658	0.218327	0.144402	0.010918	0.058972	0.182967	-0.23807	0.165364	-0.01563	0.888216	0.055556	0.861167	0.45895
ZMPSTE24	-0.01657	0.237562	-0.22861	0.118402	0.902614	0.077902	0.087178	0.380378	-0.06325	0.269273	-0.12971	0.280892	0.338127	0.964823	0.197873	0.970684
CDKN1B	0.044645	0.047125	-0.11944	0.366561	0.741582	0.730177	0.376174	0.005039	0.055854	0.299266	-0.05338	0.235975	0.643818	0.978331	0.363815	0.94281
AKAP8	-0.01674	0.176425	0.076467	0.002737	0.901638	0.193363	0.571836	0.983878	-0.20829	0.235238	-0.18824	0.120136	0.08487	0.940091	0.110533	0.784086
FSTL3	0.235452	-0.08924	0.195341	0.074189	0.077881	0.513077	0.145341	0.583372	0.465183	-0.35602	0.267024	-0.35693	0.999438	0.007584	0.961902	0.007447
STUB1	-0.06775	-0.12393	-0.04604	0.06382	0.61656	0.362826	0.733783	0.637186	-0.19304	0.121382	-0.1903	0.089496	0.099329	0.789179	0.105267	0.722899
STAG1	0.107059	0.151886	-0.23402	0.268026	0.427978	0.263792	0.079757	0.043824	0.161234	0.37631	-0.09221	0.31739	0.857797	0.995025	0.273434	0.984195
NET1	0.035872	0.316161	-0.21931	-0.00503	0.791079	0.017605	0.1012	0.970369	0.225129	0.265489	0.034573	0.059181	0.933743	0.962726	0.58919	0.651985
UBE4B	0.031263	0.42976	-0.19706	-0.04057	0.817428	0.000948	0.141764	0.764432	0.02471	0.434165	-0.01689	0.153433	0.564742	0.998714	0.456155	0.84567
EFS	0.263333	-0.11077	0.168414	0.027089	0.047798	0.416363	0.210463	0.841461	0.24685	0.117712	0.029845	0.002892	0.948947	0.779379	0.576252	0.507522
PRSS16	-0.04739	0.039775	0.080136	-0.05341	0.726315	0.771012	0.553473	0.693142	0.197616	-0.15761	0.136555	-0.26208	0.905986	0.147754	0.814463	0.039244
CDKN1C	0.156977	-0.31432	0.403129	-0.10459	0.243558	0.018313	0.001876	0.43879	0.289301	-0.60151	0.379	-0.45069	0.974415	4.91E-06	0.994877	0.000836
SIGMAR1	-0.0096	-0.06605	-0.00438	0.046173	0.94352	0.62861	0.974228	0.733063	-0.07221	0.241166	-0.17702	0.232559	0.316717	0.9468	0.122356	0.940062
DSCR4	-0.1148	-0.14739	0.043176	-0.21446	0.399502	0.282907	0.752034	0.112473	0.048657	-0.35722	0.044612	-0.23268	0.625939	0.007402	0.614471	0.05984
BET1	0.028527	0.140834	-0.13446	0.181945	0.833166	0.300527	0.31868	0.175558	0.016851	0.296973	-0.04411	0.238008	0.544251	0.977476	0.386794	0.944399
SDCCAG10	0.005353	0.171423	-0.20728	0.025404	0.968477	0.206499	0.121842	0.851206	-0.00936	0.247489	-0.04543	0.259708	0.475399	0.951368	0.383499	0.959333
SAP18	-0.00922	0.114251	-0.25249	-0.00154	0.945716	0.401782	0.058111	0.9909	-0.27215	0.219377	-0.23943	0.305854	0.033648	0.928519	0.056588	0.980639
SMNDC1	-0.02144	0.33643	-0.27007	0.210713	0.874217	0.011238	0.042177	0.115643	0.065547	0.509086	-0.14086	0.280389	0.667417	0.999849	0.178016	0.970447
BCAS2	0.026056	0.261105	-0.28123	0.09227	0.847432	0.051928	0.034077	0.49483	-0.19809	0.476539	-0.2384	0.355993	0.093471	0.999593	0.057387	0.992412
RGS19	-0.04454	-0.28014	0.203559	-0.05281	0.742194	0.036517	0.128828	0.696436	0.057699	-0.36874	0.026552	-0.27657	0.648354	0.005841	0.568726	0.031397
LILRB2	-0.10166	-0.33256	0.203501	0.166591	0.451763	0.01227	0.128939	0.215515	-0.16805	-0.40778	0.117372	-0.16428	0.134913	0.002714	0.776006	0.140434
EIF1B	0.007289	0.005045	-0.179	0.124763	0.957479	0.970841	0.18683	0.359579	0.027008	-0.39793	0.130067	-0.1553	0.569896	0.003394	0.79997	0.154173

CDKN2A	-0.12243	0.05922	0.049037	-0.19256	0.364267	0.664616	0.717174	0.151267	-0.18975	-0.07308	-0.03649	-0.13145	0.103286	0.314669	0.405945	0.191929
SPEG	0.30896	-0.24867	0.316904	-0.15128	0.019364	0.0646	0.016313	0.261299	0.372049	-0.51088	0.298173	-0.28041	0.994552	0.000143	0.976673	0.029545
SF3A1	0.075082	-0.01186	-0.01421	0.192962	0.578836	0.93089	0.916449	0.150403	-0.02229	0.382292	0.010995	0.234047	0.44221	0.995223	0.528235	0.939121
TRAIIP	0.048437	0.033827	0.064691	-0.33644	0.722965	0.80632	0.635727	0.011235	-0.19061	0.16852	-0.08966	-0.02338	0.102246	0.868543	0.27903	0.438726
DNAJA2	0.017502	0.236036	-0.36444	0.077485	0.897184	0.079888	0.005319	0.566713	-0.16403	0.415179	-0.21918	0.349486	0.138021	0.997942	0.074003	0.99136
BCKDK	0.103984	0.001421	0.029416	0.136779	0.441441	0.991707	0.828041	0.310315	0.017021	0.311684	-0.12243	0.119747	0.544697	0.982511	0.211506	0.786015
MAEA	-0.09602	0.347166	-0.13589	0.090694	0.477369	0.008756	0.313502	0.50226	-0.21882	0.635959	-0.29026	0.378727	0.072003	0.999999	0.026545	0.995277
APC2	-0.08417	-0.25724	0.277184	-0.18802	0.5336	0.055626	0.03685	0.161328	0.110515	-0.44675	0.18391	-0.33591	0.767661	0.000928	0.886733	0.011235
PAK4	0.022023	-0.16578	0.212587	-0.26401	0.870828	0.222064	0.112367	0.047205	-0.07695	-0.08856	0.125129	-0.23406	0.307695	0.281464	0.79083	0.060867
MARCH6	0.015837	0.080781	-0.08836	0.03804	0.90692	0.553957	0.513387	0.77876	0.020411	0.048477	-0.01091	0.029373	0.553552	0.625487	0.471644	0.576823
ADAR	-0.10672	0.06292	-0.09193	0.460927	0.433701	0.648129	0.500385	0.00035	-0.11175	0.367022	-0.08958	0.387477	0.229836	0.993946	0.279219	0.996099
CDKN2B	0.015728	-0.00173	0.032361	-0.2601	0.907556	0.989875	0.811129	0.050701	0.112044	-0.07799	0.104968	-0.13493	0.770757	0.303216	0.753715	0.185654
KATNB1	-0.23213	-0.08063	0.006365	-0.25854	0.082294	0.554703	0.96252	0.052153	-0.34977	-0.07147	-0.16473	-0.13867	0.008591	0.318464	0.139776	0.179025
DLEU1	-0.04573	0.362107	-0.35701	0.095383	0.735546	0.006099	0.006408	0.480325	-0.18254	0.56415	-0.27766	0.418399	0.112328	0.999978	0.032394	0.998096
SNAPC5	-0.15352	0.013356	-0.02916	-0.04071	0.254229	0.922174	0.8295	0.763658	-0.12463	0.062371	-0.0815	0.112653	0.204609	0.659749	0.297292	0.771985
APBB3	0.019247	-0.17705	0.102744	0.25051	0.886994	0.191765	0.446936	0.060176	0.159341	0.034353	-0.01656	-0.06677	0.854913	0.58965	0.457019	0.329642
ZNF267	-0.07457	0.186686	-0.20862	0.229074	0.581439	0.168306	0.119383	0.086523	-0.14905	0.208971	0.04165	0.305341	0.161425	0.918303	0.607056	0.980467
CCNO	0.060162	-0.07683	0.311558	-0.30777	0.659607	0.577144	0.019418	0.021025	0.034419	-0.12553	0.156593	-0.37159	0.5888	0.205646	0.84497	0.00598
CDKN2C	-0.08014	0.296607	-0.28438	-0.10647	0.553471	0.026435	0.03204	0.430537	-0.1782	0.423049	-0.24803	0.279035	0.118039	0.998301	0.050211	0.969804
DSCR3	0.065692	0.421662	-0.18482	0.369811	0.62732	0.00121	0.168709	0.004636	0.024435	0.472563	-0.13418	0.365204	0.564027	0.999544	0.189773	0.993713
TCIRG1	-0.02958	-0.04853	0.077249	0.187228	0.827075	0.722454	0.567897	0.163138	0.046845	0.225844	-0.07236	0.068279	0.621395	0.934372	0.318339	0.673959
RTN3	-0.09284	0.022755	-0.09772	-0.09939	0.492157	0.86779	0.469588	0.461991	-0.13117	0.134104	-0.1665	-0.03286	0.195211	0.810099	0.140032	0.415155
LANCL1	0.08833	0.140386	-0.27722	0.139252	0.513509	0.302082	0.036827	0.301565	-0.01872	0.454399	-0.19953	0.375822	0.45086	0.999244	0.094413	0.994972
NMUR1	-0.05394	-0.26542	0.294217	-0.02621	0.690279	0.048037	0.026317	0.846528	0.147092	-0.45405	0.189027	-0.3011	0.835341	0.000763	0.893176	0.021006
B3GALT5	0.084881	0.044127	0.034364	0.030596	0.530153	0.746754	0.799675	0.821254	-0.08867	0.15903	-0.27266	-0.03842	0.278935	0.854435	0.034987	0.399948
TNIP1	-0.10518	-0.06311	0.111942	0.125517	0.436168	0.644018	0.407089	0.352204	-0.03613	0.146354	0.066683	-0.09067	0.405787	0.834112	0.6683	0.274503
LAMC3	-0.03731	-0.07603	0.207738	-0.1667	0.782921	0.577564	0.120996	0.215199	0.22115	-0.33136	0.161968	-0.28058	0.930161	0.012239	0.856105	0.029465
CDKN2D	-0.01301	-0.24142	0.23429	-0.09087	0.923459	0.073052	0.079401	0.501404	0.085949	-0.48304	0.172288	-0.28062	0.714963	0.000337	0.871121	0.029442
IKZF1	-0.17054	-0.24019	-0.05062	0.596622	0.204674	0.074578	0.708469	9.69E-07	-0.16259	-0.16022	0.073555	0.088711	0.140159	0.143749	0.684453	0.721152
CRISP3	0.08878	-0.21417	0.078447	-0.1222	0.511357	0.112962	0.561891	0.365172	0.221992	-0.25716	0.257509	-0.26724	0.930931	0.042235	0.956158	0.036291
SMYD5	-0.02767	-0.07768	-0.00061	-0.03649	0.838121	0.569318	0.9964	0.787584	-0.16659	0.252325	-0.18478	0.175144	0.134243	0.954653	0.112155	0.877832
KBTBD10	-0.07089	-0.0502	0.096334	-0.22857	0.600276	0.713317	0.475938	0.087244	-0.07889	-0.42713	0.001582	-0.17699	0.301137	0.001536	0.504114	0.119658
RRAGB	-0.01232	0.191254	-0.21848	0.152918	0.927531	0.157949	0.102519	0.256114	0.060956	0.177504	-0.05438	0.077353	0.656313	0.881032	0.36138	0.695312
SIRPB1	-0.0764	-0.39114	0.105778	-0.23844	0.572163	0.002875	0.433561	0.074069	0.05982	-0.52789	0.083109	-0.47864	0.653544	8.15E-05	0.706353	0.000383
AKR1A1	-0.11019	0.267664	-0.31231	0.093656	0.418812	0.048193	0.019111	0.492359	-0.23964	0.608646	-0.38448	0.350218	0.054351	0.999996	0.004558	0.991484
COX4NB	0.0482	0.047659	-0.09917	0.081879	0.724262	0.729699	0.467138	0.548562	-0.12793	0.618315	-0.33864	0.3002	0.198424	0.999998	0.011441	0.978671
TMEM5	-0.05242	0.090674	-0.12721	0.188488	0.698577	0.5063	0.345691	0.160275	-0.264	0.354505	-0.14369	0.394005	0.038124	0.992182	0.173177	0.996629
CDKN3	-0.02351	0.151446	-0.13785	0.081022	0.863433	0.269708	0.310991	0.552771	0.053597	0.519639	0.005759	0.332976	0.635154	0.99985	0.514799	0.986398
CNPY2	-0.0102	-0.13498	0.124669	0.038233	0.939957	0.321278	0.35549	0.777668	-0.04279	0.026858	-0.16291	0.060938	0.388833	0.570316	0.142486	0.656269
B3GNT3	-0.08621	0.107497	0.000965	0.032843	0.527539	0.434697	0.994369	0.8101	-0.12843	0.475767	-0.25986	0.12376	0.197495	0.999584	0.042366	0.793731
CLEC4M	0.00805	-0.04886	0.203344	-0.30396	0.952607	0.720646	0.129241	0.021525	-0.13141	-0.10313	0.20994	-0.11214	0.192012	0.247611	0.916847	0.229045
TLR6	-0.03207	-0.14483	-0.02101	-0.09246	0.812774	0.286872	0.876725	0.493925	-0.32201	-0.19314	0.096881	0.079242	0.015497	0.101839	0.734215	0.697572
MRV1	0.331419	-0.20382	0.431415	0.120086	0.012591	0.135547	0.000901	0.378011	0.356164	-0.40794	0.360346	-0.17454	0.992438	0.002445	0.992483	0.122992
PCGF3	-0.22831	0.407674	-0.13091	0.056654	0.090562	0.002006	0.336204	0.67834	0.041634	0.354905	-0.06408	0.066162	0.607016	0.991627	0.339712	0.66706
TFG	-0.1657	0.310117	-0.38653	0.18724	0.218023	0.020017	0.002979	0.163112	-0.0462	0.495272	-0.15587	0.469413	0.380233	0.999767	0.153282	0.999501
PKDREJ	-0.06509	-0.01075	0.180212	-0.33849	0.630472	0.937346	0.179778	0.010012	0.0841	-0.36447	0.07302	-0.34076	0.710786	0.006382	0.683208	0.010241
CCL26	0.041715	0.077844	-0.01856	-0.33115	0.760168	0.572138	0.89199	0.012668	-0.17673	-0.19006	0.10481	-0.11415	0.120015	0.102913	0.75339	0.225023
TRDN	-0.018	-0.2388	0.069416	-0.24346	0.894256	0.076314	0.607891	0.068014	-0.14093	-0.12418	-0.1046	-0.12911	0.175093	0.205477	0.247042	0.196242
TRIM22	-0.06548	-0.06225	0.037039	0.562237	0.628458	0.648571	0.78444	5.33E-06	-0.09357	0.182848	0.096968	0.264879	0.270471	0.885363	0.734399	0.960662
ABCA7	-0.11256	-0.2038	0.105655	0.013865	0.40449	0.13192	0.434097	0.918466	-0.17474	0.015409	-0.00178	-0.12728	0.122715	0.540478	0.495369	0.199636

ABCA10	0.210738	0.014397	0.151776	0.174479	0.1156	0.916128	0.259725	0.194257	0.247534	0.035147	0.316433	0.206894	0.9514	0.591689	0.982901	0.916142
ABCA9	0.278705	-0.19712	0.216924	0.239241	0.035785	0.145343	0.105056	0.073078	0.448921	-0.265	0.375345	3.08E-05	0.999124	0.037553	0.994468	0.500081
ABCA8	0.30981	-0.09998	0.114961	0.449263	0.019016	0.463452	0.39447	0.000456	0.254992	0.148864	0.159631	0.356578	0.95639	0.83827	0.852552	0.992501
WARS2	0.044613	0.214922	-0.1981	-0.18079	0.741759	0.111676	0.13964	0.178374	-0.19554	0.242035	-0.20544	0.173415	0.096406	0.947446	0.087898	0.875452
HMGB1L1	0.085761	0.06648	0.083003	-0.01702	0.529704	0.629639	0.54307	0.90093	0.109019	0.041091	0.092177	0.035108	0.76461	0.606856	0.726489	0.591589
CDO1	0.236109	-0.16748	0.398042	0.014715	0.079792	0.221637	0.002381	0.914279	0.433377	-0.39246	0.253377	-0.37373	0.998529	0.003832	0.951496	0.005721
NPM3	0.102606	-0.06006	0.115281	-0.06835	0.451747	0.663152	0.397523	0.616719	-0.12478	0.21642	-0.25626	0.053909	0.204329	0.925718	0.044645	0.639015
NPM2	-0.01653	-0.07899	0.208941	-0.277	0.902847	0.562823	0.118809	0.036977	-0.21035	-0.13872	0.008835	-0.07205	0.082732	0.181738	0.522695	0.31905
HMG20B	0.007559	-0.05349	0.172696	-0.12675	0.955495	0.695388	0.198926	0.347469	-0.08728	-0.10649	0.033332	-0.12448	0.282043	0.240601	0.586039	0.204907
HMG20A	0.084932	0.226595	-0.1314	0.187954	0.529905	0.093083	0.329918	0.161485	0.18115	0.266968	-0.04302	0.322381	0.885861	0.963557	0.389503	0.985557
KLF2	0.272496	-0.33168	0.276222	-0.09578	0.040295	0.012517	0.037536	0.478486	0.358587	-0.55542	0.34741	-0.48532	0.9928	3.08E-05	0.990313	0.000315
CBARA1	0.086874	0.1417	-0.33139	-0.03944	0.520503	0.297534	0.0118	0.770825	-0.13416	0.434577	-0.06361	0.442965	0.189801	0.998573	0.340824	0.998845
CACNG3	0.027203	-0.16959	0.118457	-0.30951	0.840805	0.211462	0.380152	0.019137	0.023236	-0.30594	0.127918	-0.21489	0.560212	0.020485	0.796021	0.078161
CACNG2	-0.08503	-0.23852	0.157396	-0.17207	0.529447	0.076676	0.242285	0.200582	0.039732	-0.25588	0.108622	-0.21732	0.603402	0.043042	0.761228	0.073421
CITED2	-0.00888	-0.2838	0.150317	-0.28813	0.947747	0.034034	0.264388	0.029746	0.154399	-0.42621	0.262399	-0.29742	0.847207	0.001571	0.959189	0.022355
SEMA3A	0.068219	0.409776	-0.20546	-0.0766	0.617378	0.001711	0.128728	0.574723	-0.21512	0.595661	-0.14264	0.481967	0.075538	0.999994	0.174971	0.999653
TUBA1B	0.199155	0.053681	0.222755	-0.00451	0.13749	0.694366	0.095812	0.973447	-0.06231	0.016487	0.007084	-0.07744	0.340399	0.5433	0.518419	0.304481
IRF9	-0.17601	-0.21952	0.157341	0.426079	0.190313	0.104038	0.242452	0.000951	-0.25955	0.143918	0.0038	0.247258	0.040763	0.830013	0.509882	0.951207
CDR1	0.198412	-0.29923	0.103165	-0.12351	0.142673	0.026465	0.449273	0.364476	0.368039	-0.52262	0.240642	-0.42136	0.993566	0.000115	0.942199	0.001972
BPNT1	-0.03982	0.223069	-0.3507	0.227644	0.768678	0.098425	0.007482	0.088561	-0.16738	0.563175	-0.32698	0.489712	0.135888	0.999972	0.01514	0.99968
TUBB3	0.01277	-0.10251	0.204585	-0.15172	0.924888	0.452156	0.12687	0.259903	0.128928	-0.14418	0.070367	-0.15782	0.803431	0.169541	0.676999	0.147438
TUBB4	-0.05653	-0.15118	0.123753	-0.1571	0.676177	0.266031	0.359067	0.243179	-0.1094	-0.02303	0.004543	-0.25379	0.234602	0.439634	0.511814	0.044386
TUBB2C	-0.1694	-0.05641	-0.12441	-0.08902	0.207776	0.679663	0.356497	0.510221	-0.32647	0.061231	-0.1656	0.064101	0.013402	0.656981	0.138484	0.663935
BTN3A3	-0.02531	-0.12569	0.16598	0.553781	0.85176	0.355986	0.217225	7.88E-06	-0.01473	-0.03781	0.19755	0.211453	0.461746	0.402611	0.900671	0.918399
BTN2A2	-0.02648	-0.21301	0.184495	0.403191	0.844967	0.114982	0.169482	0.001872	0.028559	-0.05618	0.166732	0.118531	0.57472	0.355373	0.863173	0.783645
SYCP2	-0.06859	0.17733	-0.1894	0.178174	0.61216	0.191052	0.158228	0.184834	0.079777	0.15594	-0.02406	0.133013	0.700912	0.849638	0.437666	0.810904
SCML2	0.220382	-0.11643	0.067001	0.051318	0.102653	0.39726	0.623685	0.707203	-0.01841	-0.09565	-0.00543	-0.29313	0.452234	0.265988	0.486035	0.025339
CDR2	0.040472	-0.17399	0.035794	0.284672	0.765009	0.199691	0.791522	0.031854	0.443137	-0.34263	0.184262	-0.23066	0.99898	0.009879	0.887185	0.061506
CEPT1	0.01981	0.235709	-0.19342	0.072854	0.883713	0.08032	0.149413	0.590187	0.00385	0.251911	-0.06292	0.173395	0.51013	0.954379	0.340681	0.875424
CORO2B	-0.0066	-0.18739	0.175187	-0.39265	0.961884	0.174819	0.200791	0.003025	-0.18401	-0.44442	0.002394	-0.32694	0.113141	0.001112	0.506151	0.014186
MYL12B	-0.13156	0.215395	-0.30223	0.172076	0.333797	0.114262	0.023582	0.204748	-0.28643	0.470603	-0.26468	0.340331	0.026811	0.999517	0.039455	0.989674
NOD1	0.101285	-0.0036	0.183031	0.317844	0.453451	0.97897	0.172951	0.015981	0.369562	0.014485	0.088341	0.047305	0.994259	0.538058	0.718051	0.62255
ANAPC10	0.092746	0.022854	-0.12329	0.149128	0.492597	0.86722	0.360886	0.268227	0.218931	0.127688	0.15805	0.097304	0.928102	0.801128	0.850117	0.739991
PRG3	-0.03286	-0.17257	0.208516	-0.22472	0.808273	0.20342	0.119577	0.092849	-0.05092	-0.4898	0.126993	-0.31431	0.368399	0.000275	0.797096	0.016697
DLC1	0.385475	-0.16993	0.274126	0.252906	0.003065	0.210536	0.039069	0.057686	0.430326	-0.32808	0.305094	-0.09657	0.998582	0.01301	0.979221	0.2616
ATP8A1	0.216298	-0.08291	0.093132	0.346216	0.106088	0.543511	0.490792	0.008337	0.337745	-0.30426	0.218416	-0.11748	0.98915	0.019901	0.925267	0.218415
NDRG1	0.374219	-0.01223	0.130514	0.242603	0.004493	0.929404	0.337679	0.071616	0.439693	0.011203	0.177903	0.010222	0.998884	0.529453	0.878835	0.526876
MYL9	0.428393	-0.29915	0.510607	0.001367	0.000988	0.026509	5.80E-05	0.992024	0.426917	-0.55522	0.453554	-0.33185	0.998456	3.10E-05	0.999123	0.012128
GNB2L1	0.023039	0.277841	-0.35364	0.278528	0.864923	0.038145	0.006964	0.035908	-0.04467	0.644757	-0.37193	0.43082	0.384083	0.999999	0.005939	0.9986
ADARB1	0.402653	-0.1676	0.36111	0.176971	0.002094	0.22131	0.006252	0.191966	0.46841	-0.41921	0.325709	-0.20817	0.999487	0.001867	0.985495	0.082525
CDS1	-0.11786	0.000781	-0.08105	-0.23039	0.382594	0.995444	0.54894	0.084686	-0.21161	-0.01594	-0.09032	-0.05963	0.079009	0.458126	0.277586	0.346911
PEMT	-0.08061	-0.0507	-0.10544	-0.00625	0.551101	0.710559	0.435046	0.963208	-0.07966	0.300692	-0.13268	0.114339	0.299349	0.978849	0.192473	0.775365
PIAS3	-0.08422	-0.01972	0.001948	-0.31291	0.53335	0.885301	0.988526	0.01779	-0.1766	0.11131	-0.09516	0.008284	0.120188	0.769274	0.267027	0.521788
ST3GAL6	0.240152	-0.19353	0.182696	0.04266	0.071959	0.152967	0.173753	0.752697	0.42169	-0.43095	0.345617	-0.34522	0.998243	0.001396	0.989975	0.009394
NDC80	-0.01985	0.130462	-0.07701	-0.03217	0.884545	0.34243	0.572679	0.813897	-0.14948	0.50102	0.104346	0.301452	0.163534	0.999772	0.749866	0.97791
PGCP	0.22599	-0.37913	0.078804	0.311405	0.090964	0.003957	0.560106	0.018377	0.150852	-0.47455	0.351674	-0.11419	0.841517	0.000431	0.99108	0.22493
WFDC2	-0.12125	-0.04148	0.050719	0.0817	0.368944	0.761479	0.707899	0.545731	-0.13654	0.243883	-0.09605	0.084786	0.182777	0.948801	0.26512	0.71234
BASP1	-0.25104	-0.16429	-0.0186	-0.19093	0.062005	0.230701	0.891792	0.158658	-0.21297	-0.38586	0.118059	-0.18531	0.077655	0.004043	0.780057	0.1088
CDSN	0.074849	-0.12347	0.262473	-0.20919	0.580018	0.364604	0.048557	0.118363	0.058821	-0.29053	0.191842	-0.18277	0.651103	0.025073	0.896609	0.112042
IFITM3	0.121937	-0.12297	0.072887	0.656053	0.366214	0.366592	0.590016	3.03E-08	0.240854	0.220557	0.013933	0.443494	0.946566	0.929615	0.53619	0.998989

RAPGEF3	0.214012	-0.28033	0.306578	-0.00643	0.109922	0.036381	0.020368	0.962132	0.365219	-0.2987	0.156065	-0.26267	0.993715	0.021878	0.847022	0.0389
TINP1	0.065935	0.200104	-0.22765	0.105113	0.626045	0.13923	0.088552	0.436474	0.018841	0.342199	-0.09133	0.400134	0.548883	0.989301	0.277716	0.99677
YAP1	0.226075	0.027441	-0.05065	0.103579	0.09084	0.84089	0.708287	0.443235	0.227467	0.025164	0.120641	-0.06623	0.935783	0.565921	0.785061	0.330936
SPON2	-0.03331	0.018991	-0.11421	-0.11268	0.805701	0.889511	0.397604	0.403974	-0.04942	0.477957	-0.10519	0.154077	0.372141	0.999609	0.245825	0.846696
SPON1	0.263087	-0.08261	0.072365	0.434847	0.048014	0.544965	0.592688	0.000724	-0.02593	0.230197	0.071145	0.493237	0.432088	0.938104	0.678824	0.999752
PRMT5	-0.1767	0.161575	-0.4011	-0.05374	0.188549	0.234173	0.001987	0.691333	-0.32931	0.478023	-0.26324	0.319622	0.012716	0.99961	0.040307	0.984817
TESK2	0.093097	-0.03506	-0.02348	0.052211	0.490952	0.797533	0.862355	0.699706	0.104043	0.019451	-0.05218	0.054723	0.74924	0.549866	0.369822	0.637883
CD2BP2	-0.04379	-0.09202	0.086411	-0.07831	0.74634	0.499965	0.522737	0.562554	0.012733	0.127995	-0.10139	0.085229	0.533466	0.8017	0.253751	0.71334
UBAC1	-0.2383	-0.01099	-0.09156	-0.23375	0.074242	0.935905	0.498175	0.080111	-0.41304	-0.00027	-0.15009	-0.07472	0.002166	0.499288	0.162543	0.310815
CDIPT	0.120543	0.016939	-0.18133	0.174603	0.376183	0.902309	0.181068	0.198077	0.140347	0.315187	-0.06396	0.222844	0.823892	0.983562	0.33819	0.931704
PGRMC2	0.030688	0.121628	-0.06354	0.031604	0.820729	0.371871	0.638664	0.815466	0.406472	0.133721	0.14122	0.061922	0.997469	0.812183	0.822601	0.65866
ARIH2	0.038159	0.126325	-0.06133	0.139161	0.778085	0.353547	0.650408	0.301885	0.149986	0.154893	0.005121	0.007917	0.840108	0.847988	0.513316	0.520822
TUBGCP3	0.061812	0.24264	-0.24193	0.471457	0.647836	0.071572	0.069811	0.000214	0.192991	0.509582	-0.18005	0.328719	0.900608	0.999851	0.118297	0.987143
SEC24B	0.069964	0.219469	-0.19663	0.174785	0.605054	0.104122	0.142659	0.193463	0.193543	0.273443	-0.03307	0.194262	0.901262	0.967025	0.414638	0.902107
CFDP1	-0.16492	-1.01E-05	-0.1643	-0.35456	0.220217	0.999941	0.221981	0.006808	-0.37137	-0.10384	-0.08994	-0.1083	0.005526	0.246118	0.278426	0.236859
CD52	-0.13018	-0.39077	-0.01491	0.488263	0.334458	0.002904	0.912354	0.000117	-0.24997	-0.19606	0.017254	0.095831	0.046924	0.095798	0.544784	0.736806
TMEM147	0.08483	-0.01104	-0.09856	0.134906	0.530402	0.935656	0.465772	0.317049	-0.23507	0.46507	-0.44476	0.294616	0.057905	0.999436	0.001103	0.976569
TIMM23	-0.16259	0.280687	-0.30667	0.006423	0.231213	0.037917	0.021513	0.962525	-0.07297	0.360685	-0.20642	0.171732	0.314938	0.993101	0.086845	0.873105
RBM14	-0.10208	0.035632	-0.14266	0.07174	0.449894	0.79431	0.28976	0.595898	-0.04467	0.371139	-0.26998	0.230554	0.384086	0.994447	0.036439	0.938404
LYPLA1	-0.01294	0.234193	-0.24061	0.100254	0.923876	0.082341	0.071398	0.458087	-0.05299	0.468122	-0.13783	0.344137	0.363252	0.999482	0.183286	0.990406
CDC42EP2	0.013837	-0.00917	0.196119	0.036907	0.918634	0.946514	0.143713	0.785193	0.087942	-0.08851	0.054186	-0.02632	0.719436	0.279303	0.638151	0.431083
EMG1	-0.08107	-0.15295	-0.10748	0.182147	0.552528	0.264929	0.43042	0.179081	-0.15991	0.173933	-0.25271	0.160858	0.144216	0.876168	0.046982	0.857226
IFI30	-0.20831	-0.00233	-0.03699	0.689675	0.123407	0.98655	0.786674	4.14E-09	-0.21837	0.178684	-0.02025	0.304062	0.074774	0.879882	0.448103	0.978856
C1D	0.003186	0.101445	-0.21639	0.021167	0.981235	0.456909	0.105944	0.875812	-0.10588	0.172234	-0.10191	0.124195	0.241858	0.873808	0.252653	0.794558
OLFM1	0.122791	-0.12543	0.076518	0.333263	0.362844	0.357006	0.571578	0.011302	0.201415	-0.3072	0.042318	0.033773	0.910246	0.018916	0.60873	0.588163
CDX1	0.088632	-0.23151	0.348636	-0.1096	0.512068	0.086014	0.007866	0.417018	0.213655	-0.33721	0.265586	-0.22502	0.923026	0.010962	0.961074	0.066355
TIMM17A	-0.00081	0.282821	-0.33652	0.160966	0.995254	0.03642	0.011214	0.235962	-0.08116	0.480461	-0.33646	0.342134	0.295919	0.999637	0.011915	0.990026
N4BP2L2	0.036939	0.050417	-0.02692	0.136791	0.78501	0.712119	0.842425	0.310272	0.326608	-0.04155	0.111033	-0.06953	0.986632	0.391983	0.766118	0.323073
ZER1	-0.08185	0.021784	-0.03867	-0.07273	0.548707	0.874567	0.777221	0.594256	-0.16812	0.021386	-0.01137	-0.06941	0.132029	0.556093	0.470467	0.323341
MCRS1	-0.05102	0.129065	-0.09937	-0.00666	0.706235	0.343116	0.462056	0.960789	-0.10844	0.44024	-0.26878	0.192079	0.236568	0.9989	0.037106	0.899523
LRRN2	0.081379	-0.13443	0.171392	-0.16416	0.547315	0.323258	0.20239	0.222375	-0.00429	-0.35566	0.078276	-0.32677	0.488834	0.008249	0.693239	0.01423
ACAA2	0.223346	-0.23834	0.012365	0.208915	0.094912	0.076899	0.927266	0.118855	0.19698	-0.33833	0.10915	-0.04272	0.90526	0.010729	0.762305	0.389011
CDX2	-0.05033	-0.16498	0.195613	-0.24696	0.710066	0.224337	0.144771	0.064024	0.023053	-0.43362	0.281347	-0.38567	0.560435	0.001304	0.969413	0.004061
PPIE	-0.08145	-0.04234	-0.28158	-0.02899	0.546963	0.756664	0.033846	0.830511	-0.15375	0.237402	-0.0699	0.200452	0.153832	0.943928	0.324097	0.90918
VAV3	-0.01766	0.089554	-0.30314	0.152246	0.896283	0.51159	0.021895	0.258235	-0.14254	0.401602	-0.07827	0.279676	0.172326	0.997166	0.304643	0.97011
TOMM40	0.044437	0.04148	0.175538	-0.04128	0.742742	0.761482	0.191523	0.760444	0.060616	0.058073	0.024186	-0.12445	0.655485	0.649271	0.562653	0.204956
MAP3K7IP1	-0.0018	-0.05099	0.196113	-0.22987	0.989422	0.708981	0.143725	0.085407	-0.06308	-0.09622	-0.02774	-0.12643	0.338535	0.262355	0.428236	0.201221
PECI	0.212461	-0.27828	0.095984	-0.00628	0.112584	0.037827	0.477547	0.963003	0.061097	-0.49263	0.000335	-0.2397	0.656656	0.000253	0.500871	0.054305
HAX1	-0.11582	-0.06067	-0.19093	0.110316	0.390907	0.656907	0.154832	0.413977	-0.25863	0.276369	-0.28474	0.191004	0.041324	0.968503	0.028992	0.898232
GPNMB	0.169139	0.163142	-0.17436	0.18417	0.212701	0.234009	0.198724	0.174218	-0.10638	0.61719	-0.17202	0.58896	0.240831	0.999998	0.12926	0.999992
BAIAP2	-0.1284	0.214426	-0.14643	-0.21504	0.341157	0.112524	0.277085	0.108185	-0.22527	0.394288	-0.29759	0.065243	0.066129	0.99665	0.023551	0.666686
MAD2L2	0.121145	0.062758	0.053341	0.362114	0.369358	0.645875	0.693524	0.005641	0.121115	0.334562	-0.17145	0.365872	0.788664	0.988475	0.130054	0.9938
CDX4	0.040131	-0.0963	0.145761	-0.24089	0.76902	0.484321	0.283761	0.073707	0.018556	-0.35122	0.221488	-0.43053	0.54871	0.008349	0.928157	0.00141
TACC3	-0.12307	-0.03934	0.005416	-0.02314	0.366198	0.775492	0.9684	0.865577	-0.13066	0.301295	-0.15483	0.09326	0.193373	0.979064	0.154929	0.731204
MERTK	0.228794	-0.26393	0.150985	0.179514	0.08692	0.049355	0.262246	0.181497	0.194004	-0.15887	0.007769	-0.06097	0.901805	0.145814	0.520197	0.343643
CLEC10A	0.255008	-0.13441	0.164188	0.066887	0.05786	0.327904	0.226591	0.62428	-0.15173	0.063841	-0.06384	0.207323	0.157055	0.663308	0.338486	0.916592
SLC30A9	0.015054	0.250555	-0.22561	0.037337	0.911503	0.062529	0.091531	0.782747	0.03723	0.353726	-0.09647	0.227542	0.597021	0.992059	0.264212	0.935848
PIBF1	-0.08957	0.04415	-0.21326	-0.09525	0.507573	0.746625	0.111211	0.480944	-0.12655	-0.01882	-0.02059	-0.01021	0.201004	0.450601	0.4466	0.473161
PPIH	0.103165	0.323533	-0.14981	0.249249	0.445067	0.015003	0.266016	0.061522	-0.18107	0.65508	-0.39289	0.607495	0.114238	1	0.003796	0.999996
COG5	-0.05067	0.207191	-0.21263	0.237726	0.708143	0.125477	0.1123	0.074969	-0.09601	0.439393	-0.14936	0.350735	0.262801	0.998875	0.163731	0.991571

ZNHIT1	-0.06622	0.061216	0.119089	-0.22545	0.62453	0.654017	0.377601	0.091765	-0.22356	-0.14232	-0.01632	-0.06366	0.067654	0.172706	0.457635	0.337126
FST	0.285893	0.115392	-0.01295	0.260089	0.031096	0.397066	0.923853	0.050713	0.348157	0.108758	0.029074	0.160285	0.991131	0.764075	0.575183	0.856356
TIMM44	-0.1009	-0.09046	-0.04836	0.010335	0.455186	0.507313	0.720929	0.939183	0.038924	-0.06321	-0.11943	-0.05723	0.601344	0.338229	0.217276	0.352804
CLGN	-0.21696	-0.01527	-0.24656	-0.35192	0.104998	0.911059	0.064468	0.007263	0.020952	-0.21807	0.022311	-0.38821	0.554962	0.07271	0.557832	0.003839
PFDN6	-0.14549	0.074252	-0.13997	-0.1216	0.280221	0.586529	0.299039	0.367567	-0.20924	0.176577	-0.14056	-0.04422	0.081419	0.879782	0.178537	0.385224
ZNF238	-0.04352	-0.01815	-0.16506	-0.35797	0.747893	0.894378	0.219808	0.006257	-0.33716	-0.06885	-0.03321	-0.14564	0.010971	0.32468	0.414262	0.167091
HMGNA4	-0.03016	0.134119	-0.14137	0.393553	0.823745	0.324389	0.294206	0.002456	0.204409	0.328196	-0.04212	0.346164	0.913504	0.987018	0.391754	0.990778
TADA3L	-0.06659	0.072909	-0.01101	-0.15129	0.622616	0.593339	0.935241	0.261264	-0.29456	0.195123	-0.23031	0.102839	0.023452	0.903114	0.064	0.751778
TRIM38	-0.02694	0.257256	-0.15606	0.328678	0.842323	0.055612	0.246345	0.012551	0.088265	0.432482	0.060846	0.316212	0.720156	0.998658	0.654335	0.983859
ATP5H	-0.1065	0.315848	-0.2202	0.060445	0.430421	0.017724	0.099774	0.65513	-0.1485	0.522786	-0.2081	0.351671	0.162331	0.999903	0.085067	0.991726
UBE2E3	0.102129	-0.11339	0.323753	-0.10591	0.449677	0.405352	0.014022	0.432998	0.141413	-0.29167	0.103969	-0.16233	0.825734	0.024605	0.751642	0.140553
SLC25A17	0.032385	0.212772	-0.31766	0.014582	0.810993	0.115391	0.016045	0.914265	0.019068	0.136464	0.071241	-0.02292	0.550046	0.817084	0.679049	0.439923
SLC9A6	0.183998	0.262436	-0.25616	0.213202	0.170654	0.050702	0.054441	0.111307	0.177233	0.375733	-0.04097	0.215536	0.880667	0.994963	0.39464	0.924864
CEACAM5	-0.17124	0.3869	-0.20137	-0.06472	0.206981	0.003523	0.136689	0.63558	-0.16306	0.519008	-0.10901	0.283321	0.139455	0.99989	0.237974	0.971804
EIF3M	0.077095	0.289548	-0.3272	0.281858	0.56867	0.030426	0.012979	0.033661	-0.00452	0.603304	-0.24789	0.483317	0.488114	0.999995	0.050312	0.999666
HOXB13	-0.00537	-0.13092	0.169237	-0.23017	0.968395	0.336155	0.208208	0.084985	0.021989	-0.28926	0.198104	-0.34181	0.557665	0.0256	0.903968	0.010037
NXF1	0.042769	0.067845	0.205987	0.084488	0.752084	0.61931	0.124233	0.532063	0.295348	0.006976	0.109654	-0.07926	0.976854	0.51835	0.763328	0.300274
SEC23B	0.070562	0.109349	-0.06741	0.031253	0.601963	0.422411	0.618313	0.817485	-0.1091	0.350905	-0.20515	0.21777	0.235219	0.9916	0.088207	0.927006
SEC23A	0.248961	0.021217	-0.02323	0.299502	0.061832	0.876655	0.863813	0.023616	0.441539	0.016328	0.192557	0.142934	0.998936	0.542884	0.89747	0.828339
C1orf61	-0.06725	-0.04009	0.195405	-0.17345	0.619143	0.769254	0.145206	0.196954	0.065073	-0.3437	0.222727	-0.23728	0.666278	0.009677	0.9293	0.056167
CAP2	-0.05199	-0.01296	-0.01903	-0.35196	0.700897	0.924463	0.888256	0.007255	-0.2348	-0.13421	0.098202	-0.13396	0.058121	0.186939	0.739491	0.187393
CAP1	-0.02353	0.271116	-0.30628	0.298197	0.862044	0.043268	0.020499	0.02426	-0.0431	0.462206	-0.09507	0.331375	0.38805	0.999389	0.267219	0.987763
CREB3	-0.11823	-0.10558	0.114389	0.011182	0.381093	0.438677	0.396845	0.934205	0.018448	-0.03536	-0.04238	0.067257	0.548426	0.407763	0.391124	0.671517
LRRC41	0.009871	0.140048	-0.1672	0.11335	0.941905	0.30326	0.213803	0.401173	-0.05664	0.51338	-0.24448	0.317596	0.354242	0.999868	0.052772	0.984254
VTI1B	-0.22935	0.238022	-0.31506	-0.02858	0.086131	0.077311	0.016981	0.83284	-0.10312	0.036938	-0.1954	0.083279	0.247639	0.596275	0.099166	0.708923
CRTAP	0.295204	0.01475	-0.02275	0.342881	0.025794	0.91408	0.866617	0.009027	0.466281	0.163111	0.068062	0.25921	0.999455	0.860618	0.671565	0.95903
SYNCRIP	0.096351	0.26765	-0.14467	0.174435	0.475857	0.046121	0.28297	0.194371	0.063274	0.321639	-0.16459	0.121761	0.661936	0.985361	0.139984	0.789907
VAT1	0.336212	-0.23904	0.09353	-0.05991	0.010557	0.076018	0.488932	0.658007	0.304485	-0.00301	0.283034	0.027058	0.980177	0.49207	0.970214	0.570835
STK25	0.012724	0.030109	0.050946	0.085224	0.925156	0.825653	0.706653	0.528487	-0.01244	0.261645	-0.1578	0.13497	0.467309	0.960496	0.150268	0.814425
ENOX2	0.08097	0.158243	-0.15191	-0.12011	0.549339	0.244088	0.259301	0.373511	-0.17398	0.411395	-0.10283	0.187513	0.123769	0.997747	0.250736	0.893962
UNC13B	-0.26601	0.420888	-0.22729	-0.21884	0.047524	0.001375	0.092056	0.105139	-0.20583	0.469453	-0.17626	0.153179	0.084983	0.999501	0.123394	0.845264
CARM1	-0.09587	0.231806	-0.04224	-0.17151	0.48213	0.088585	0.757268	0.206251	-0.06389	0.360614	0.069579	0.046149	0.338348	0.992523	0.67321	0.618302
NCOA2	-0.07271	0.161565	-0.28512	-0.00332	0.590939	0.2342	0.031577	0.980417	-0.2262	0.23791	-0.18634	0.122204	0.06532	0.944323	0.110176	0.790758
ADARB2	-0.13244	-0.08271	0.180806	0.069447	0.326042	0.544491	0.178324	0.607727	0.061551	-0.16398	0.104949	-0.21431	0.65776	0.138084	0.753676	0.076327
CEBPA	0.033347	-0.21403	0.194199	-0.0614	0.805485	0.113202	0.147754	0.650024	-0.0814	-0.10099	-0.00581	-0.10267	0.295356	0.252134	0.484905	0.248584
SEMA6C	0.015733	-0.12576	0.313706	-0.18164	0.907527	0.355727	0.017488	0.176306	0.000309	-0.30863	0.088692	-0.27846	0.500813	0.018448	0.718828	0.030475
SEMA6B	0.057371	-0.21828	0.232126	0.089377	0.671644	0.10606	0.082298	0.50851	0.12223	-0.29372	0.160514	-0.11832	0.790808	0.023783	0.8539	0.216766
SEMA4F	0.09659	-0.26854	0.364058	-0.0182	0.474761	0.045373	0.005371	0.893125	0.198197	-0.3441	0.155631	-0.21109	0.906646	0.0096	0.84634	0.079539
SEMA4D	-0.21606	0.051312	-0.17727	0.417222	0.106475	0.707234	0.18712	0.001243	-0.27057	0.196954	-0.05914	0.126407	0.034481	0.905229	0.349796	0.798734
SEMA4B	-0.24992	0.237888	-0.11842	0.068023	0.060802	0.077483	0.380299	0.615127	-0.18889	0.609829	-0.24734	0.355981	0.104338	0.999997	0.050703	0.99241
CEBPB	-0.20477	-0.10838	0.076837	0.071358	0.126518	0.426572	0.569968	0.597861	0.167433	-0.27427	0.26709	-0.40969	0.866976	0.032551	0.96194	0.002346
SEMA3C	0.008588	-0.06763	-0.03619	-0.06568	0.949444	0.62043	0.789292	0.627376	-0.24155	-0.01824	-0.01252	0.018938	0.052913	0.452107	0.467461	0.549707
APPBP2	0.025195	0.203667	-0.22933	0.196074	0.852419	0.132181	0.086168	0.143806	0.035835	0.371428	-0.03786	0.328077	0.59345	0.99448	0.402492	0.986989
MYBBP1A	-0.01207	-0.04468	-0.01295	0.05495	0.929014	0.743659	0.923827	0.68476	-0.11788	0.285365	-0.16984	0.158884	0.217639	0.97272	0.132344	0.854211
FBLN5	0.291277	-0.20849	0.188948	0.439441	0.027929	0.123071	0.159238	0.000626	0.194988	-0.10396	0.188174	0.139632	0.902957	0.24586	0.892121	0.82265
FBXW10	-0.26516	-0.14715	0.091518	-0.19656	0.048268	0.283698	0.502335	0.146507	-0.28544	-0.26027	-0.005	-0.28489	0.028674	0.042112	0.487148	0.028924
CIB2	0.020839	0.051303	0.226501	0.144759	0.877719	0.707287	0.090217	0.282658	0.20827	0.030596	0.04609	-0.14817	0.91511	0.57907	0.616798	0.165692
CIB1	-0.23211	-0.00188	-0.10726	-0.18552	0.082316	0.989001	0.427122	0.167078	-0.39773	0.07513	-0.17523	-0.00358	0.003098	0.690135	0.124797	0.490577
CEBPD	-0.03439	-0.19519	0.0821	0.115931	0.799534	0.14941	0.543759	0.390469	0.23655	-0.15739	0.124143	-0.22891	0.943262	0.148093	0.791745	0.062979
ZNF211	0.076103	0.017622	0.010636	-0.08631	0.573674	0.897431	0.937413	0.523218	-0.03086	0.072318	-0.12901	-0.13187	0.419341	0.683537	0.19916	0.19117

DDX17	0.041551	0.102586	-0.05586	0.149675	0.758932	0.451835	0.67981	0.266458	0.187179	0.117038	-0.01198	0.088734	0.893547	0.780716	0.468861	0.721203
DEAF1	-0.08269	0.013552	0.038663	-0.01891	0.540836	0.921033	0.775229	0.88898	-0.07982	0.120332	-0.02075	0.139431	0.298996	0.78715	0.446201	0.8223
CHERP	-0.04425	-0.09104	0.03	-0.10393	0.743768	0.504588	0.824682	0.441693	-0.11179	0.17451	-0.03349	0.00712	0.229746	0.876963	0.413564	0.518729
KAT5	-0.03376	-0.11641	0.028863	-0.10148	0.803096	0.392905	0.831228	0.452597	-0.16113	0.156626	-0.15425	0.05365	0.142361	0.850711	0.15584	0.638373
HYOU1	0.087312	0.030603	0.19282	0.150484	0.518394	0.822833	0.15071	0.263849	-0.10138	0.462007	-0.22222	0.345404	0.251299	0.999386	0.071162	0.990639
IPO8	0.046749	0.3093	-0.20398	0.197582	0.729858	0.020364	0.128019	0.140688	0.024862	0.449687	-0.12529	0.3247	0.565137	0.999142	0.206097	0.986155
IPO7	0.004675	0.3611	-0.28755	0.194153	0.972468	0.006253	0.030093	0.147853	-0.02752	0.529948	-0.20863	0.462542	0.427971	0.999924	0.08451	0.999395
NOP56	-0.16513	0.263288	-0.24373	0.236227	0.223888	0.052117	0.070265	0.079638	-0.1099	0.439215	-0.37126	0.365933	0.233598	0.99887	0.006021	0.993808
NEBL	-0.21614	0.336708	-0.2393	-0.22137	0.106345	0.011167	0.073003	0.097943	0.088999	0.066434	0.02232	-0.10649	0.721793	0.669547	0.557854	0.2406
CEBPE	-0.01149	-0.16712	0.24768	-0.24553	0.932427	0.218299	0.063229	0.065628	0.007815	-0.30827	0.100042	-0.38469	0.520554	0.018565	0.743399	0.004149
PITRM1	0.030987	0.250021	-0.17332	0.047003	0.81901	0.063109	0.197294	0.728442	0.076925	0.519148	-0.14455	0.239725	0.694318	0.999891	0.171717	0.945714
ATG7	-0.0558	0.081287	-0.15218	0.301258	0.680169	0.551466	0.258453	0.022772	-0.08052	0.428658	-0.14809	0.215351	0.297384	0.998522	0.165815	0.924686
SSSCA1	0.0003	-0.07756	-0.04698	-0.13064	0.998231	0.569916	0.728589	0.332741	-0.10499	0.160932	-0.17117	0.056308	0.243711	0.857339	0.130452	0.644937
RNASEH2A	-0.07452	0.018231	-0.02523	-0.19511	0.585156	0.8949	0.853549	0.149566	-0.38364	0.478779	-0.14472	0.284499	0.004245	0.999619	0.171432	0.972335
LEPREL2	0.099727	-0.28477	0.261625	-0.04678	0.460461	0.033401	0.049315	0.729672	0.235302	-0.40672	0.150557	-0.24591	0.942276	0.002516	0.838224	0.04974
UBD	-0.07677	-0.23331	0.123756	0.566498	0.570313	0.083542	0.359055	4.36E-06	-0.25989	0.083563	0.046885	0.351048	0.042346	0.707379	0.618754	0.990971
BATF	-0.13921	-0.16343	0.133674	0.092998	0.301704	0.228767	0.321533	0.491417	0.089688	-0.32255	0.217193	-0.08292	0.723326	0.014399	0.924092	0.291902
GLRX3	-0.07045	0.411038	-0.20048	0.109952	0.60589	0.001825	0.138463	0.41984	-0.08013	0.499157	-0.36587	0.307787	0.298276	0.999793	0.006725	0.981277
CEBPG	-0.11103	0.338236	-0.39576	0.151199	0.410942	0.010783	0.00231	0.261564	-0.18801	0.494767	-0.26353	0.246415	0.10542	0.999763	0.040133	0.950615
DCTN2	0.119308	0.108533	-0.05431	0.114035	0.38113	0.430258	0.69095	0.402678	-0.11672	0.536478	-0.27302	0.327207	0.219903	0.999939	0.034793	0.986779
ANP32B	0.044669	0.30564	-0.2168	0.046186	0.741449	0.021979	0.105253	0.732986	0.172319	0.318875	-0.05071	0.241872	0.873926	0.984611	0.370401	0.947326
HBXIP	-0.03325	0.276287	-0.31771	-0.01655	0.806058	0.039282	0.016028	0.902766	-0.11944	0.274269	-0.09689	0.204881	0.214588	0.967447	0.263305	0.91401
PROCR	0.137702	-0.02898	0.305529	0.090886	0.307031	0.832103	0.020824	0.501352	0.155331	-0.08425	0.19538	0.020337	0.848679	0.288874	0.900814	0.553358
TM9SF1	-0.23259	0.047566	-0.20173	0.107934	0.084528	0.730205	0.135981	0.428475	-0.42063	0.30651	-0.23768	0.29964	0.001803	0.980858	0.057953	0.978467
PRDX4	0.095389	0.112715	-0.04725	0.143179	0.480295	0.40818	0.727055	0.288003	-0.03764	0.342423	-0.25907	0.323888	0.401926	0.990082	0.042857	0.985948
ARL6IP5	0.072204	0.103617	-0.18073	0.22704	0.593516	0.447279	0.178516	0.089432	0.173578	0.176056	0.003443	0.240319	0.875678	0.879076	0.508954	0.946164
AGR2	-0.0558	0.269963	0.021065	-0.12412	0.680116	0.044201	0.876405	0.357618	-0.01682	0.254441	-0.13481	0.115845	0.456328	0.954169	0.191469	0.775714
ARPC1A	-0.13444	0.374465	-0.34326	-0.06821	0.323231	0.004854	0.009597	0.617411	-0.36427	0.548267	-0.45035	0.3898	0.006409	0.99996	0.000954	0.996295
HTATIP2	-0.0572	0.417781	-0.16437	-0.00642	0.672574	0.001356	0.221774	0.962198	-0.20518	0.502413	-0.18914	0.341655	0.085673	0.999813	0.10668	0.989933
AGPAT1	0.052621	-0.14995	0.040724	-0.09342	0.700116	0.274519	0.765702	0.493442	-0.15922	0.022	0.012231	0.051831	0.145273	0.557694	0.531778	0.633859
AGPAT2	-0.20238	0.072948	-0.02153	-0.15896	0.134691	0.596613	0.874838	0.241935	-0.33847	0.483733	-0.41923	0.151474	0.010702	0.99967	0.002075	0.842524
RPP30	0.041212	0.193888	-0.26674	0.204446	0.760839	0.152193	0.044882	0.127134	0.079933	0.460535	-0.16888	0.292171	0.70127	0.99936	0.133712	0.975598
RPP38	-0.41021	0.188022	-0.31653	-0.24627	0.001529	0.165226	0.016446	0.064795	-0.30229	-0.02976	-0.08074	-0.19252	0.021783	0.423063	0.30118	0.102575
SPTLC1	-0.01102	0.374288	-0.29237	0.097179	0.935141	0.004485	0.027322	0.472056	-0.03783	0.504136	-0.21804	0.272114	0.401447	0.999823	0.075095	0.966335
SLC35A1	-0.00713	0.232668	-0.0803	0.097854	0.95804	0.084414	0.552665	0.468972	0.062685	0.210352	0.033481	0.130424	0.660511	0.919717	0.586417	0.806187
CEL	-0.13338	-0.22525	-0.19929	-0.27864	0.3226	0.095099	0.137217	0.035833	-0.24883	-0.18378	0.062025	-0.2202	0.0477	0.110736	0.657171	0.070715
SLC19A2	0.190577	-0.07936	-0.12719	-0.06033	0.155607	0.560977	0.345772	0.655757	0.35416	-0.13895	0.096389	-0.29425	0.992127	0.178547	0.73561	0.023575
IFI44	-0.06401	-0.12714	0.022003	0.518526	0.6393	0.354967	0.872124	4.24E-05	-0.11791	0.181308	0.006452	0.358445	0.222946	0.880567	0.516376	0.991557
OLFM4	-0.02149	-0.09961	0.13168	-0.24941	0.873945	0.465118	0.328867	0.061354	0.128077	-0.37804	0.071462	-0.32162	0.801852	0.004794	0.679567	0.014646
CXCL13	-0.18725	-0.15644	-0.0982	0.514156	0.171015	0.258623	0.475668	5.94E-05	0.180681	0.039828	-0.10069	0.063536	0.882532	0.602474	0.25774	0.660796
ARFGF2	0.086244	0.392676	-0.23272	0.13043	0.523545	0.002758	0.081492	0.333521	0.14243	0.506001	-0.14382	0.263758	0.827479	0.999833	0.172962	0.961734
ARFGF1	-0.03793	0.343061	-0.29722	0.008137	0.779407	0.009642	0.024753	0.952099	-0.11204	0.485051	-0.15123	0.303024	0.229249	0.999683	0.160682	0.979674
AKAP3	-0.18974	-0.11159	0.037648	-0.35005	0.157477	0.412914	0.780986	0.0076	-0.13542	-0.32271	0.094034	-0.23716	0.184777	0.014357	0.730528	0.056259
RABAC1	0.048123	-0.10508	0.227075	0.121735	0.72223	0.440851	0.089382	0.367017	0.194653	0.099163	-0.06101	0.081543	0.902565	0.743979	0.345276	0.704962
SLC34A2	-0.18889	-0.14295	0.043264	0.090885	0.159372	0.29326	0.749309	0.501354	-0.1254	-0.02649	-0.04712	-0.14775	0.20317	0.430638	0.379278	0.163572
SLU7	-0.00457	0.138328	-0.24113	0.071329	0.973065	0.309297	0.07077	0.59801	-0.13812	0.250931	-0.07819	0.18982	0.179994	0.953725	0.304839	0.896798
CELP	0.065943	-0.12414	0.252492	-0.14354	0.626002	0.362011	0.05811	0.28679	0.184794	-0.27793	0.128527	-0.27987	0.890551	0.030729	0.799944	0.029797
DPYSL4	-0.15655	-0.1776	0.147235	-0.16498	0.249235	0.19037	0.278865	0.224325	0.112901	-0.38392	0.172216	-0.2231	0.772484	0.004219	0.87102	0.068064
SIVA1	-0.0049	-0.25624	0.284101	-0.10578	0.971157	0.05662	0.032214	0.433569	0.073218	-0.41513	0.107121	-0.2933	0.685655	0.00206	0.758157	0.02395
MRPL28	-0.09795	-0.02613	-0.08787	-0.15818	0.46851	0.848422	0.515699	0.239927	-0.35133	0.401221	-0.2705	0.210453	0.00833	0.997141	0.036153	0.91982

CCT7	0.021709	0.056212	-0.28404	0.100372	0.872656	0.680713	0.032251	0.457555	-0.24755	0.565833	-0.35691	0.437513	0.04859	0.999979	0.008049	0.998819
CCT4	0.062835	0.246101	-0.35416	0.037237	0.642404	0.067498	0.006875	0.783318	-0.15301	0.549245	-0.18991	0.489279	0.155001	0.999961	0.105738	0.99972
CCT2	-0.04016	0.213621	-0.37688	0.091182	0.766745	0.113912	0.003856	0.499954	-0.26529	0.491756	-0.26735	0.402069	0.037384	0.999741	0.037913	0.997196
NPC2	-0.00796	-0.1645	-0.12702	0.466978	0.953157	0.22571	0.346437	0.00025	-0.09471	0.242227	-0.12406	0.416748	0.265631	0.947588	0.208403	0.998018
GNLY	-0.00465	-0.4685	0.215637	0.05142	0.972595	0.000271	0.107186	0.704049	-0.08587	-0.2919	0.053126	-0.1491	0.287457	0.02585	0.634012	0.164155
TACC2	-0.05557	0.099878	0.072651	-0.5176	0.68419	0.468135	0.594651	4.40E-05	-0.00611	-0.18809	-0.03824	-0.32057	0.484113	0.107983	0.402677	0.015898
CENPA	-0.0495	0.013397	0.030131	-0.00703	0.719678	0.923404	0.827138	0.959383	-0.08124	0.152281	-0.11493	-0.0016	0.295727	0.843824	0.226084	0.495792
SORBS1	0.372592	-0.17691	0.298152	0.055329	0.004685	0.196328	0.025623	0.685464	0.43064	-0.44734	0.341218	-0.28436	0.998594	0.000914	0.989101	0.027729
IFITM2	0.121672	-0.21032	0.107448	0.468988	0.371697	0.123251	0.430571	0.000266	0.154366	-0.17277	0.177511	0.073689	0.847155	0.125439	0.878307	0.686761
COLEC10	0.226403	-0.16797	0.149916	-0.33835	0.09036	0.215923	0.265679	0.010043	0.387999	-0.37889	0.247995	-0.32843	0.995776	0.005135	0.947718	0.013808
POMT1	-0.03366	-0.11774	-0.03788	0.006042	0.803699	0.387447	0.779677	0.964421	-0.08343	-0.0473	-0.16079	-0.13576	0.292918	0.378831	0.148547	0.186944
MAB21L2	0.020107	-0.11522	0.186392	-0.19355	0.881981	0.397766	0.16506	0.149134	0.179107	-0.34352	0.14666	-0.33325	0.883172	0.009711	0.831812	0.011814
TXNRD2	0.022324	-0.16853	0.184305	-0.14821	0.86908	0.21439	0.169928	0.271229	0.179956	-0.23523	0.153202	-0.2261	0.884294	0.057779	0.842488	0.065402
MTHFS	-0.01904	-0.04645	0.007087	0.170426	0.888182	0.733876	0.958275	0.204984	0.186989	0.0285	-0.18322	-0.06508	0.893311	0.574567	0.11416	0.333717
DRAP1	0.11984	-0.08877	0.220005	0.039026	0.374575	0.515322	0.10009	0.773179	0.127655	0.228181	-0.01707	0.237296	0.801067	0.936396	0.455699	0.943846
CENPB	0.01969	-0.06497	0.087771	-0.02823	0.884414	0.634262	0.516189	0.834902	0.12063	-0.08693	0.141703	-0.06786	0.785039	0.285074	0.820568	0.328912
SCGN	0.137069	-0.03049	0.019239	-0.28905	0.309281	0.82347	0.887042	0.029207	-0.06649	-0.04838	-0.07255	-0.04825	0.330326	0.374757	0.317883	0.375088
C6orf108	-0.25287	-0.22731	-0.1538	-0.08879	0.057723	0.092029	0.253355	0.511334	-0.47674	-0.02034	-0.20043	0.029815	0.000405	0.446622	0.093397	0.577966
SMC2	0.190132	0.173651	-0.23	0.017792	0.156594	0.20057	0.085229	0.895488	-0.03398	0.543336	-0.12781	0.520841	0.411313	0.999952	0.201384	0.999897
PRPF8	0.074394	0.091528	-0.22908	0.161827	0.582332	0.502288	0.086511	0.229114	-0.15949	0.518764	-0.22995	0.39659	0.144858	0.999889	0.064306	0.996821
ERN2	-0.17059	0.044756	0.032985	-0.09961	0.208735	0.74559	0.809297	0.46512	-0.14991	0.316789	-0.25638	0.000711	0.160012	0.984024	0.044568	0.50187
AHSA1	-0.12313	-0.05842	-0.16159	-0.19563	0.361496	0.668896	0.229795	0.144736	-0.38862	0.069154	-0.18665	0.048608	0.003804	0.676044	0.109782	0.625816
SLCO1B1	0.108785	-0.21969	0.264484	-0.05758	0.424824	0.107045	0.04886	0.673362	0.171499	-0.40568	0.175118	-0.35626	0.870012	0.002848	0.872225	0.008152
CENPC1	0.271701	-0.03636	0.009198	0.06091	0.040905	0.790219	0.945858	0.652644	0.437474	0.059456	0.157455	0.009376	0.998818	0.652654	0.849193	0.524655
USP16	0.002361	0.142062	-0.22255	0.170078	0.986092	0.296287	0.096125	0.205926	-0.03547	0.350739	-0.14001	0.279915	0.407482	0.991572	0.179484	0.970223
CDC42EP3	0.110442	-0.14967	0.169928	0.024599	0.41344	0.270917	0.20633	0.85587	0.275753	-0.43075	0.331593	-0.36961	0.968197	0.001402	0.986965	0.005735
SH2B2	-0.05623	-0.17263	0.241511	0.01864	0.680628	0.207541	0.072943	0.891539	0.009053	-0.38652	0.142726	-0.22767	0.523807	0.003985	0.825182	0.064042
PAIP1	0.31347	-0.02109	0.316753	-0.12731	0.017577	0.877376	0.016367	0.345313	0.358385	-0.14185	0.165191	-0.18618	0.99277	0.173518	0.860911	0.107702
PAICS	-0.02941	0.486424	-0.27612	0.065075	0.828089	0.000144	0.037612	0.630563	0.001351	0.660643	-0.23308	0.388017	0.503555	1	0.061672	0.996145
TBL3	-0.0978	-0.04598	-0.09107	0.059839	0.469208	0.736483	0.500466	0.658373	-0.11635	0.252196	-0.24605	0.082831	0.220645	0.954568	0.051625	0.707903
MXD4	0.107974	-0.15402	0.082547	-0.11506	0.424018	0.257048	0.541562	0.394072	-0.06273	-0.07689	0.228569	-0.26978	0.341127	0.307837	0.932196	0.036552
SC65	0.094834	-0.09739	0.244919	-0.16023	0.482866	0.475166	0.066327	0.233804	0.197326	-0.06622	0.282749	-0.05395	0.905655	0.330971	0.97008	0.360887
ST6GALNA	-0.12782	0.05571	-0.19204	-0.27251	0.343367	0.683413	0.152391	0.040288	-0.3704	0.01729	-0.1582	-0.03905	0.00564	0.545401	0.149645	0.39833
PDLIM5	0.050309	0.284999	-0.08444	0.127107	0.712707	0.034943	0.536092	0.350551	0.066926	0.483289	-0.12138	0.231213	0.670725	0.999666	0.213516	0.938952
TRIM3	-0.17482	-0.13898	0.128309	-0.31963	0.193385	0.306982	0.34151	0.015367	-0.39905	-0.23595	-0.11151	-0.15353	0.003006	0.057208	0.232922	0.154168
ERLIN1	-0.03478	0.464647	-0.2238	-0.1251	0.79912	0.000309	0.097305	0.358278	-0.08037	0.474453	-0.22769	0.344385	0.299851	0.999504	0.068584	0.989736
HEXIM1	0.08988	0.239151	-0.1243	0.243731	0.506117	0.075875	0.356935	0.067697	0.175659	0.470811	0.038958	0.430406	0.878536	0.99952	0.600283	0.998585
SPAG5	-0.30372	0.25764	-0.24757	-0.26389	0.021633	0.055236	0.063347	0.047312	-0.39027	0.452988	-0.41044	0.230832	0.003667	0.999214	0.002552	0.938636
RBCK1	-0.06301	-0.15657	0.097519	0.129791	0.641475	0.249173	0.4705	0.335914	-0.03354	0.153896	-0.17471	0.051489	0.412433	0.846407	0.125518	0.633007
STAMBP	-0.02242	0.443238	-0.29706	-0.05987	0.868534	0.000623	0.024832	0.658222	-0.07774	0.444865	-0.11238	0.197307	0.303787	0.999025	0.231174	0.905634
TGOLN2	-0.06161	0.063952	-0.01816	0.236531	0.651918	0.642748	0.894324	0.079241	-0.07929	0.114882	-0.05965	0.113249	0.300207	0.776446	0.348555	0.773182
CENPE	-0.03381	0.205576	-0.03512	-0.16868	0.804594	0.132142	0.797195	0.213957	0.045772	0.444693	0.126422	0.27414	0.616014	0.998754	0.793246	0.96413
POLR3F	-0.03254	0.156011	-0.17237	-0.04134	0.810131	0.250887	0.199795	0.760137	-0.06379	0.17798	-0.06365	0.117929	0.336805	0.88167	0.338927	0.782467
POLR3G	-0.05796	-0.11621	0.144314	-0.28901	0.668441	0.393696	0.284158	0.029229	0.073311	-0.36671	0.138714	-0.28128	0.685874	0.006093	0.818256	0.029134
POLR3C	-0.11931	0.356259	-0.35622	0.161332	0.376728	0.007041	0.006535	0.230561	-0.05704	0.53909	-0.11947	0.357931	0.353264	0.999945	0.217206	0.992703
IVNS1ABP	-0.02829	0.211084	-0.29753	0.115741	0.834521	0.118375	0.024593	0.391248	0.218615	0.366124	-0.0862	0.127624	0.927805	0.993832	0.286715	0.801009
TRIM16	-0.17793	0.358766	-0.31976	-0.1988	0.189538	0.00715	0.016289	0.141868	-0.34689	0.587385	-0.41275	0.329848	0.009092	0.999991	0.002418	0.98741
MYL12A	-0.01275	0.114734	-0.21967	0.149755	0.924985	0.39978	0.100628	0.266198	-0.00646	0.303077	-0.08878	0.214804	0.482999	0.979692	0.280975	0.924153
TXNIP	0.047859	0.223651	-0.31582	0.14745	0.723693	0.097526	0.016703	0.27371	0.073361	0.396214	-0.07677	0.291368	0.685991	0.996793	0.308093	0.975271
TAF6L	0.001595	-0.07949	0.063268	0.023813	0.990606	0.560334	0.640106	0.860429	0.011494	0.102982	-0.03945	0.004817	0.530217	0.75208	0.398473	0.512672

CENPF	-0.12811	0.224174	-0.21344	-0.2394	0.346715	0.099898	0.114236	0.075566	-0.28516	0.665916	-0.25597	0.346693	0.027369	1	0.044831	0.990872
PDPN	0.228888	0.136797	-0.09612	0.168521	0.086787	0.314733	0.476941	0.210169	0.058508	0.591661	-0.09607	0.423328	0.648683	0.999991	0.267524	0.998119
POSTN	0.297658	-0.15859	0.044528	0.278072	0.02453	0.24303	0.742233	0.036225	0.192843	-0.02419	-0.19114	0.332209	0.897811	0.437339	0.106954	0.987112
ATP5L	-0.0382	0.280818	-0.21231	0.041133	0.777835	0.036043	0.11285	0.761283	-0.28579	0.495159	-0.32819	0.457292	0.027093	0.999766	0.013869	0.999301
RASL10A	-0.16859	-0.07497	0.085496	-0.05812	0.214222	0.582893	0.53098	0.670488	0.146734	-0.38136	0.133632	-0.30354	0.834746	0.004462	0.809251	0.020149
GAS2L1	0.039879	-0.11435	0.286604	-0.20081	0.768357	0.401357	0.030661	0.134184	0.155603	-0.311	0.134406	-0.31762	0.846297	0.018789	0.807806	0.016747
RAD51AP1	-0.06425	0.337257	-0.2932	0.014456	0.634902	0.011027	0.026864	0.915006	-0.24546	0.475307	-0.21231	0.318444	0.050066	0.999578	0.080732	0.984491
RGS14	-0.17829	-0.26469	0.116551	-0.11458	0.184533	0.048677	0.387923	0.396055	-0.14447	-0.39681	0.185122	-0.19753	0.169059	0.003164	0.888283	0.094107
LEFTY1	0.016285	-0.17062	0.172225	-0.1965	0.904298	0.208662	0.200173	0.142919	0.024875	-0.18561	0.098759	-0.15726	0.565171	0.108418	0.740677	0.1483
SPHAR	0.075531	0.164061	-0.0284	0.088703	0.576564	0.226957	0.833921	0.511725	0.056429	0.132864	0.058648	0.193792	0.645234	0.810635	0.649021	0.901555
EXOC5	-0.04139	0.294381	-0.28898	0.208011	0.759815	0.027643	0.029246	0.120496	0.027934	0.39776	-0.09461	0.323912	0.573103	0.996904	0.268217	0.985954
TUSC4	-0.05855	-0.09976	0.018978	0.188434	0.665287	0.464437	0.888566	0.160398	-0.18869	0.137341	-0.27624	0.021548	0.104586	0.818636	0.033118	0.556515
IGF2BP1	-0.07027	-0.14774	0.149105	-0.25133	0.606814	0.281736	0.272738	0.061698	0.168628	-0.24561	0.085927	-0.32064	0.868699	0.049957	0.712682	0.014908
IGF2BP3	-0.14843	0.114516	-0.19681	0.056776	0.270492	0.400683	0.142286	0.674859	-0.12272	-0.06584	0.086321	-0.12012	0.210964	0.333697	0.711287	0.215952
IGF2BP2	-0.21073	-0.14086	0.184873	-0.45418	0.115614	0.30045	0.168593	0.000387	-0.18637	-0.4114	-0.094	-0.40424	0.107464	0.002253	0.26955	0.002666
CAMKK2	-0.04262	0.182673	-0.00325	0.197049	0.752943	0.177807	0.980879	0.141785	0.042083	0.284629	0.094283	0.024467	0.609375	0.972393	0.731067	0.564112
SCGB1D2	-0.20399	-0.1992	-0.01666	-0.34372	0.131563	0.144827	0.903021	0.009496	0.065159	-0.39477	0.119095	-0.43656	0.666484	0.003313	0.782073	0.00121
SCGB1D1	0.122991	-0.08121	0.210787	-0.2555	0.362055	0.551838	0.115513	0.055085	-0.07544	-0.00711	0.014232	-0.07005	0.311165	0.481519	0.536529	0.323757
SLMO1	-0.01219	-0.15419	0.122936	-0.14567	0.928956	0.256522	0.366713	0.284065	0.019124	-0.39493	0.170203	-0.29914	0.550193	0.003301	0.868175	0.021717
MTX2	-0.05899	0.227429	-0.28424	0.171301	0.662924	0.091852	0.032129	0.202635	-0.20104	0.66192	-0.26388	0.533835	0.090174	1	0.039929	0.999933
YKT6	0.036976	0.266206	-0.09408	0.326555	0.784799	0.047354	0.486385	0.013168	0.097056	0.495926	-0.2578	0.285091	0.739456	0.999772	0.043656	0.972598
SPINT2	-0.12158	0.246083	-0.17086	0.003419	0.372065	0.070134	0.208015	0.980047	-0.24743	0.510804	-0.41086	0.245242	0.04867	0.999857	0.002527	0.949781
PMVK	0.106103	-0.03721	-0.04629	-0.06591	0.432139	0.785431	0.732383	0.626165	-0.02592	0.347407	-0.10741	0.15998	0.43211	0.990999	0.241258	0.85589
DMRT2	-0.01215	0.259134	-0.15627	-0.21137	0.928496	0.05379	0.245727	0.114491	-0.34017	0.478773	-0.11453	0.245536	0.010358	0.999618	0.226885	0.94999
KHDRBS3	-0.11031	0.161697	-0.08322	0.389407	0.414013	0.233814	0.538252	0.002754	0.064075	0.280521	0.037068	0.20451	0.663872	0.970509	0.595512	0.913612
KHDRBS1	0.034407	0.2139	-0.32911	0.10748	0.79943	0.11343	0.012428	0.426154	-0.11572	0.56053	-0.15861	0.440506	0.221884	0.999975	0.14902	0.998907
CUGBP1	-0.25053	0.232535	-0.28521	0.139125	0.062558	0.087558	0.033117	0.306489	-0.06477	0.229276	-0.17724	0.222417	0.33625	0.935116	0.124874	0.929016
CUGBP2	0.165363	-0.20818	0.098069	0.40512	0.223239	0.127207	0.472103	0.001953	0.231135	-0.37515	0.279719	-0.10029	0.936699	0.005554	0.967038	0.256077
CES1	-0.00535	0.105849	-0.12561	-0.24726	0.968786	0.441815	0.356303	0.06618	-0.26658	-0.0907	-0.01949	-0.12078	0.036662	0.274426	0.449449	0.211992
LBX1	0.090783	-0.11947	0.283498	-0.05376	0.501837	0.380495	0.032598	0.691222	0.109864	-0.35309	0.210941	-0.22179	0.766335	0.008042	0.917875	0.069255
KLF1	-0.08896	-0.19977	0.194904	-0.09832	0.510476	0.139908	0.146261	0.466853	-0.02708	-0.26265	0.147492	-0.21395	0.429112	0.038913	0.833194	0.07668
CXCR6	-0.09779	0.046044	-0.07325	0.559096	0.47337	0.738526	0.591591	7.51E-06	-0.29519	0.240428	-0.1812	0.473766	0.024501	0.944183	0.119573	0.999494
CTCF	0.034647	0.231306	-0.30996	-0.06336	0.798061	0.086301	0.018955	0.639609	-0.07698	0.457414	-0.0291	0.268879	0.305563	0.999303	0.424755	0.964609
C6orf10	0.101944	-0.08826	0.129476	-0.06365	0.450501	0.517731	0.3371	0.638062	-0.0138	-0.17353	0.051591	-0.14827	0.464157	0.127144	0.630278	0.165512
CD226	-0.02357	-0.33682	0.065041	0.55407	0.861858	0.011138	0.630744	7.77E-06	-0.14663	-0.32043	0.047894	-0.03858	0.165427	0.014962	0.622641	0.399535
FARS2	-0.11198	0.030472	-0.14513	-0.12605	0.40694	0.823581	0.2814	0.350152	-0.34716	0.231816	-0.29665	0.116405	0.009044	0.939452	0.023921	0.779466
CGRRF1	0.163197	-0.11053	-0.08932	-0.03117	0.225143	0.4174	0.508795	0.817957	-0.12056	-0.08068	0.056281	0.027934	0.215093	0.299149	0.641647	0.572268
CGREF1	0.043599	-0.08185	0.18411	-0.0086	0.751955	0.552478	0.178441	0.950291	0.262211	-0.23561	0.270028	-0.19938	0.959076	0.059605	0.96186	0.094574
RRAGA	0.158494	0.005122	0.140649	-0.01226	0.238975	0.970112	0.296695	0.927873	-0.00262	-0.07094	0.270901	-0.07578	0.493116	0.319721	0.964065	0.308356
DCTN6	-0.04207	0.139882	-0.23058	0.153837	0.758188	0.308402	0.087324	0.257635	0.01003	0.278278	0.132071	0.255316	0.526373	0.969439	0.806432	0.956597
GNA13	0.051884	0.202113	-0.15831	0.346003	0.7015	0.135221	0.239533	0.00838	0.232347	0.254893	-0.0145	0.245912	0.939888	0.956326	0.462343	0.950258
TNFSF13B	0.075853	-0.28238	0.192404	0.357361	0.574935	0.034982	0.151609	0.006353	0.137884	-0.40984	0.308723	-0.31067	0.816803	0.002588	0.979275	0.018898
CSPG5	0.013668	-0.22744	0.114724	-0.30409	0.919621	0.091836	0.395454	0.021462	-0.05307	-0.30786	-0.0776	-0.33628	0.363072	0.018699	0.306193	0.011156
AVIL	-0.14016	0.10208	0.08018	-0.19182	0.298383	0.454083	0.553254	0.152869	0.068824	-0.10132	0.030889	-0.19856	0.675258	0.251422	0.579817	0.092938
B3GNT2	-0.09609	0.316837	-0.22498	0.175334	0.477073	0.017352	0.092457	0.192047	-0.14421	0.469917	-0.22001	0.342431	0.169499	0.999508	0.073219	0.990083
CETN1	0.191015	-0.14626	0.266359	-0.24462	0.158479	0.286647	0.047222	0.069218	0.076085	-0.19481	0.236351	-0.20147	0.692363	0.097254	0.940987	0.089688
GNB5	0.198926	-0.07587	0.082168	0.10236	0.145397	0.585583	0.550917	0.457094	0.156957	-0.25013	-0.02354	-0.10512	0.851228	0.046817	0.439006	0.243439
EBP	-0.16986	0.113835	-0.12853	0.073354	0.210732	0.407937	0.34512	0.591078	-0.24515	0.525843	-0.2666	0.331257	0.050286	0.999913	0.038343	0.987737
DLL3	0.132424	-0.12582	0.231486	-0.26539	0.32612	0.355487	0.083171	0.046025	0.223734	-0.3468	0.292175	-0.29652	0.932503	0.009108	0.974265	0.022694
CLDN16	-0.07561	-0.09434	-0.03194	-0.1739	0.576157	0.489212	0.813523	0.195762	-0.28697	-0.19807	-0.25698	-0.15535	0.027984	0.096066	0.046095	0.154106

PNMA2	0.062532	-0.2791	0.212437	-0.11391	0.644009	0.037245	0.112626	0.398844	-0.02482	-0.35305	0.191724	-0.18524	0.434964	0.008049	0.896467	0.108884
CETN2	-0.07295	-0.12027	0.007638	-0.27766	0.589682	0.377285	0.955031	0.036517	-0.20822	-0.25325	0.066096	-0.17996	0.082476	0.044737	0.666904	0.115704
FUT9	-0.01529	0.019451	0.175262	-0.12906	0.910933	0.887908	0.196361	0.343135	-0.21422	-0.30257	0.110414	-0.05733	0.078817	0.021682	0.762234	0.35417
GMEB1	-0.09065	0.088719	-0.15816	0.160457	0.506408	0.519501	0.244341	0.237467	-0.37305	0.515322	-0.39346	0.440576	0.005333	0.999876	0.003749	0.998909
RRH	-0.04898	0.193817	-0.10828	-0.19995	0.717501	0.152345	0.422679	0.135888	-0.04012	-0.05949	-0.05642	-0.14346	0.395606	0.347263	0.356395	0.17076
CCT6B	-0.0682	-0.02182	-0.17866	-0.008	0.614187	0.873201	0.183617	0.952898	-0.23932	-0.03898	-0.03965	0.01808	0.054592	0.398504	0.397963	0.547464
CCT8	-0.03058	0.241811	-0.34318	0.271057	0.821344	0.072577	0.008963	0.041405	-0.13567	0.464012	-0.27345	0.440276	0.184332	0.999419	0.034568	0.998901
CNPY3	-0.17384	-0.11697	0.099172	-0.09991	0.195914	0.390595	0.462976	0.459615	-0.16928	0.050596	-0.02765	-0.09251	0.13037	0.630783	0.428452	0.27044
CORIN	0.320642	-0.13095	0.060561	0.341711	0.015026	0.336037	0.654508	0.009281	0.140327	0.346532	0.139215	0.335809	0.82106	0.990149	0.816276	0.98794
ADCY1	0.281623	-0.07219	0.294019	-0.16038	0.033816	0.596993	0.026423	0.233358	0.322448	-0.29924	0.135206	-0.30444	0.985574	0.021678	0.812068	0.019839
CETN3	-0.02699	0.081129	-0.20253	-0.0358	0.84202	0.552241	0.130823	0.791482	-0.27772	0.269268	-0.22077	0.274395	0.030833	0.96482	0.072515	0.967512
CETP	0.068552	-0.04984	0.234119	-0.11913	0.612373	0.715261	0.079627	0.377443	0.067063	-0.17371	0.179795	-0.08211	0.671054	0.124145	0.881362	0.293746
C1orf2	-0.02179	-0.04907	0.165966	-0.0752	0.872195	0.719487	0.217266	0.578219	-0.03885	-0.12028	0.088299	0.009124	0.398834	0.212947	0.717958	0.523994
USP39	0.069831	0.322807	-0.16643	0.082033	0.609066	0.016228	0.220222	0.547808	-0.07509	0.580264	-0.19339	0.356208	0.309949	0.999988	0.101537	0.992445
POLD3	-0.26485	0.117722	-0.23027	-0.1954	0.046478	0.387537	0.084845	0.145225	-0.31296	0.257995	-0.21503	0.125001	0.017099	0.958282	0.078015	0.796086
LASS1	0.031619	-0.11301	0.239321	-0.16456	0.815381	0.406954	0.07298	0.221233	0.141917	-0.29237	0.262236	-0.20337	0.8266	0.024322	0.959091	0.087612
TBR1	0.081995	-0.2051	0.255965	-0.2418	0.547993	0.133057	0.056895	0.072587	-0.048	-0.287	0.062124	-0.40271	0.37709	0.027971	0.655645	0.003047
AP4B1	0.068642	0.060244	0.023283	0.441219	0.61519	0.662171	0.86475	0.000665	0.142018	0.373395	-0.12752	0.336499	0.826772	0.994706	0.201924	0.98889
NRG3	0.223644	-0.29049	0.320115	-0.05118	0.097537	0.031436	0.016165	0.707981	0.281936	-0.47819	0.207119	-0.39214	0.971169	0.000388	0.913897	0.003516
CFL1	0.062373	0.148539	0.015856	0.28614	0.647906	0.279114	0.907663	0.032525	-0.14188	0.644964	-0.19409	0.503584	0.173472	0.999999	0.100704	0.99982
POLQ	-0.27476	0.244679	-0.31293	-0.19833	0.038599	0.069149	0.017783	0.139164	-0.48955	0.45764	-0.31401	0.297854	0.000277	0.999308	0.017837	0.977808
SLC12A7	-0.16304	-0.07586	0.077368	-0.01574	0.225607	0.578427	0.567298	0.907482	-0.18076	0.089473	-0.17735	0.087958	0.114646	0.722848	0.121906	0.71947
MGEA5	0.086884	0.183051	-0.10644	0.062838	0.520454	0.176897	0.430692	0.642386	0.194758	0.12384	0.023539	0.079907	0.902688	0.793884	0.560991	0.701211
NFAT5	0.078471	0.085687	-0.05881	0.177314	0.561769	0.53006	0.663902	0.186996	0.389213	-0.10268	0.160205	0.050821	0.996246	0.248548	0.85343	0.631345
NUDC	-0.17973	-0.16274	-0.06229	-0.25119	0.180965	0.230774	0.64527	0.059466	-0.28987	-0.15023	-0.05356	-0.13299	0.025347	0.159489	0.363387	0.189141
PTGES3	-0.09302	0.122943	-0.25271	0.102646	0.491328	0.366685	0.057887	0.447372	-0.13581	0.206818	-0.19213	0.209303	0.184077	0.916063	0.103043	0.918645
CFL2	0.205877	0.063726	-0.02664	0.070945	0.124437	0.640784	0.844029	0.599988	0.405687	-0.15288	0.018641	-0.11444	0.997152	0.158033	0.5478	0.227063
YME1L1	0.021418	0.284084	-0.27637	0.210044	0.874347	0.033848	0.037432	0.116831	0.023108	0.470871	-0.09808	0.43697	0.560577	0.999521	0.260763	0.998803
TCFL5	0.22226	0.097891	-0.04014	-0.27211	0.096571	0.47291	0.766885	0.040589	0.351064	-0.20681	0.495537	-0.23402	0.991626	0.08395	0.999731	0.058753
PLK4	-0.19238	0.183493	-0.29048	-0.1105	0.155472	0.179926	0.029869	0.41753	-0.35101	0.6245	-0.3424	0.435899	0.008383	0.999998	0.010658	0.998769
STAG3	0.076617	-0.23081	0.312854	-0.35429	0.571078	0.087002	0.017813	0.006853	-0.05268	-0.4415	0.245154	-0.35635	0.36403	0.001065	0.947721	0.007533
STAG2	0.054136	0.142116	-0.25633	0.112893	0.689187	0.296102	0.054273	0.403088	-0.05956	0.329764	-0.12723	0.244633	0.347096	0.98739	0.202459	0.949344
SIX2	-0.14149	0.013552	0.013718	-0.06529	0.293784	0.921033	0.919331	0.629459	-0.00029	-0.02501	0.127962	-0.03389	0.499235	0.434484	0.798898	0.411528
RFPL3	-0.06004	0.073057	0.018307	-0.24376	0.657308	0.592585	0.892483	0.067665	-0.36655	-0.08975	-0.03618	-0.10578	0.006113	0.276541	0.406729	0.242078
RFPL2	-0.00241	-0.1196	0.021412	-0.10612	0.985799	0.379957	0.874382	0.432084	-0.08661	-0.05014	-0.14201	0.032007	0.28355	0.370366	0.176046	0.58362
RBBP9	-0.07356	0.193996	-0.33465	0.055777	0.586581	0.15196	0.010945	0.680268	-0.27108	0.516575	-0.26009	0.430229	0.034211	0.999881	0.042218	0.998579
RAI2	0.286006	-0.13893	0.282595	0.050426	0.032609	0.311173	0.034834	0.712068	0.251033	-0.42389	0.270318	-0.16966	0.953793	0.001664	0.963746	0.129831
RAI1	0.020709	0.197206	-0.04951	-0.09894	0.879586	0.148981	0.717076	0.468178	-0.03496	0.478241	-0.05943	0.250452	0.409831	0.999554	0.350774	0.951479
PTTG2	-0.1891	0.117019	0.156294	0.237599	0.158899	0.390398	0.245641	0.075129	0.090996	-0.15973	0.002819	-0.20803	0.723904	0.147291	0.507245	0.085144
PHTF1	-0.17533	0.000267	-0.1151	-0.15297	0.192047	0.998443	0.393887	0.255961	-0.25531	-0.14812	0.037889	-0.0006	0.043408	0.162955	0.597585	0.498425
MAP3K2	-0.05397	0.166548	-0.24739	0.114859	0.690099	0.219894	0.063551	0.394892	-0.0708	0.31008	-0.02388	0.164572	0.320049	0.982011	0.438135	0.86279
MASP2	-0.01664	-0.0408	0.142545	-0.18571	0.902214	0.765272	0.290163	0.166648	-0.00479	-0.4825	0.161771	-0.34309	0.487392	0.000342	0.855807	0.009791
KLRA1	0.123165	0.03009	-0.00356	0.172862	0.361371	0.82576	0.979006	0.198488	0.202199	0.018649	0.068506	-0.03012	0.911108	0.548951	0.672616	0.421235
KIF1C	0.055559	0.106971	0.025492	-0.00793	0.681448	0.432629	0.850698	0.953291	0.129573	0.3363	-0.08659	0.14803	0.804622	0.988847	0.285829	0.836896
CTSC	-0.05064	0.376363	-0.09999	0.097756	0.708328	0.004252	0.459285	0.469416	-0.28045	0.439038	-0.17164	0.488846	0.029522	0.998865	0.129789	0.999717
GRAP	-0.06215	-0.13337	0.178338	0.314854	0.649078	0.327128	0.188501	0.018105	0.246927	-0.2212	0.259323	-0.10979	0.950975	0.069792	0.957302	0.233806
CHL1	0.069892	0.293956	-0.08023	0.120368	0.608753	0.027879	0.55667	0.376882	-0.08009	0.393028	-0.02315	0.257155	0.300482	0.996216	0.440708	0.955933
CAPN9	-0.11124	0.038993	-0.08106	-0.36832	0.410039	0.775395	0.548904	0.004817	-0.18272	-0.22891	-0.03171	-0.203	0.114803	0.065204	0.419035	0.090545
GIPC1	-0.00853	0.089052	-0.00081	-0.19314	0.950231	0.517927	0.995249	0.153822	-0.20144	0.309512	-0.25818	0.133408	0.089723	0.981832	0.043417	0.811618
TRAF3IP2	-0.01533	0.257867	-0.23964	0.271953	0.909879	0.055014	0.072587	0.040711	-0.07496	0.701807	-0.20604	0.442342	0.310267	1	0.087247	0.998958

PLAC1	0.061173	-0.05136	0.156924	-0.17145	0.65124	0.706977	0.243718	0.202232	0.068013	-0.18641	0.00067	-0.21287	0.671451	0.110091	0.501721	0.080163
NUP50	-0.30709	0.203879	-0.37482	-0.04966	0.020148	0.13177	0.00407	0.713731	-0.09622	-0.02352	-0.09436	-0.0165	0.262349	0.438346	0.268763	0.456655
NES	0.231291	-0.42585	0.356506	0.030352	0.083437	0.001067	0.006489	0.822659	0.21105	-0.43705	0.399646	-0.16232	0.920425	0.001195	0.996734	0.140572
JARID1B	-0.01522	0.412925	-0.3556	-0.06914	0.910532	0.001563	0.006635	0.609305	-0.13092	0.61549	-0.26466	0.448368	0.192898	0.999997	0.039466	0.999111
TOB2	0.129625	-0.25962	0.083324	-0.20098	0.336538	0.053323	0.537751	0.133849	0.253064	-0.07134	0.100336	-0.11703	0.95514	0.318777	0.744021	0.219304
HBS1L	0.052624	0.204766	-0.26884	0.217046	0.697447	0.130062	0.04316	0.104856	-0.01332	0.43113	-0.22243	0.352094	0.464995	0.998611	0.070973	0.991796
AHCYL1	-0.06478	0.25253	-0.35071	0.151726	0.632102	0.060423	0.007479	0.259885	-0.14544	0.639082	-0.12095	0.458021	0.170227	0.999999	0.217077	0.999221
PLK2	0.158304	-0.19171	0.082306	0.552139	0.243903	0.160873	0.546474	1.03E-05	0.088799	0.180682	0.04821	0.368891	0.721349	0.885249	0.623424	0.994178
ZMYND11	0.170747	0.10403	-0.10103	0.080117	0.204119	0.445462	0.454591	0.553569	0.18903	0.107904	0.097754	0.111185	0.895833	0.762322	0.738535	0.76902
FUSIP1	-0.07877	0.256679	-0.19741	0.263389	0.560293	0.056183	0.141049	0.047749	0.055877	0.392529	-0.10863	0.320059	0.643875	0.996515	0.238746	0.984936
ZBTB6	-0.01411	0.048027	-0.19989	0.163132	0.917038	0.725217	0.136023	0.22533	-0.03596	0.259846	0.109595	0.257971	0.406239	0.959417	0.763208	0.958268
POP4	-0.15612	0.182414	-0.36148	-0.07837	0.246173	0.178434	0.005732	0.562261	-0.33122	0.347795	-0.1546	0.185836	0.012271	0.991068	0.155294	0.891867
ARPP-19	0.034833	0.32401	-0.15523	0.107546	0.796999	0.014847	0.248925	0.425871	0.057158	0.395757	-0.03498	0.237148	0.645404	0.996438	0.41082	0.941622
ARPP-21	0.142544	-0.22551	0.324019	-0.15902	0.294635	0.097843	0.014844	0.241743	0.114329	-0.3488	0.271978	-0.30804	0.775345	0.008757	0.964649	0.018641
ZNF271	-0.14065	0.246589	-0.22577	0.043049	0.296677	0.066938	0.091295	0.750514	-0.04065	0.301962	-0.04836	0.220423	0.394271	0.979301	0.3762	0.929492
ZNF234	-0.07633	0.224796	-0.21073	0.191824	0.572529	0.095779	0.115621	0.152871	-0.07575	0.421149	-0.07243	0.332938	0.310465	0.998018	0.320171	0.987283
ZNF266	-0.0431	0.230596	-0.12301	0.099891	0.750249	0.087298	0.361991	0.459723	-0.09973	0.357533	-0.21315	0.090772	0.254799	0.992644	0.079885	0.725728
ZNF274	0.106216	0.000101	0.145696	-0.01334	0.431649	0.999411	0.279522	0.921548	0.065895	-0.3883	0.154945	-0.35309	0.668254	0.003831	0.845258	0.008043
NEK6	0.041289	-0.02006	0.251587	0.181825	0.760403	0.883348	0.059047	0.175848	0.010812	0.274412	-0.1095	0.257138	0.528425	0.96752	0.236979	0.957749
WDR4	-0.03337	0.17954	0.014865	0.209087	0.807104	0.189652	0.913413	0.121978	-0.03183	0.575348	-0.18396	0.396656	0.41683	0.999986	0.113203	0.996825
SLC17A3	0.049412	-0.21268	0.130043	-0.25572	0.717617	0.119009	0.339441	0.05714	-0.21494	-0.25922	0.00038	-0.28317	0.075718	0.040962	0.500988	0.028266
NCKAP1	0.084791	0.314184	-0.29573	0.132471	0.53059	0.018366	0.025518	0.325946	0.093598	0.451671	-0.11005	0.345384	0.731945	0.999186	0.235876	0.990636
IQGAP2	0.078052	-0.30049	-0.04197	0.156431	0.563867	0.024434	0.756586	0.245222	0.041877	-0.3797	0.221423	-0.2499	0.608853	0.004625	0.928097	0.04697
VAMP5	0.059986	-0.06489	0.006098	0.365336	0.660541	0.637856	0.964424	0.005629	0.149504	0.062267	0.108218	0.210822	0.839321	0.659497	0.760403	0.920194
ZNF273	-0.2141	-0.01441	-0.22324	-0.25106	0.109766	0.916028	0.095071	0.0596	-0.21188	-0.10972	-0.09325	-0.082	0.078737	0.233963	0.271179	0.293991
ZNF460	0.026355	0.395199	-0.21321	0.411586	0.845707	0.002574	0.11129	0.001469	0.136381	0.556617	-0.33193	0.398686	0.816939	0.999971	0.012954	0.996969
ZNF268	-0.10754	0.004906	-0.10703	0.054039	0.430164	0.97164	0.432395	0.692428	-0.3712	0.236499	-0.26392	0.267775	0.005546	0.943222	0.0399	0.964004
MTHFD2	-0.02761	0.189929	-0.10646	0.360899	0.838457	0.160904	0.430587	0.005816	0.163504	0.374095	-0.1342	0.240731	0.861204	0.994784	0.189738	0.946474
OR5I1	0.076864	-0.29935	0.082249	-0.30607	0.569834	0.025009	0.543028	0.020587	-0.16954	-0.28702	-0.01383	-0.23606	0.132777	0.02796	0.464511	0.059248
RPP40	-0.16798	0.350653	-0.32667	-0.06722	0.215901	0.008673	0.013999	0.622542	-0.25387	0.587015	-0.25913	0.375204	0.044337	0.999991	0.04282	0.994905
ADCY2	-0.09365	-0.08639	0.03231	-0.08947	0.488377	0.526686	0.811422	0.508046	0.134169	-0.29556	-0.0881	-0.13811	0.810215	0.024351	0.284797	0.182801
CFTR	-0.05	0.15455	-0.01614	-0.175	0.711833	0.255409	0.905136	0.192911	-0.12769	-0.01418	0.061005	-0.03023	0.19886	0.46274	0.654718	0.420964
CYSLTR1	0.008932	-0.03208	-0.03667	0.357043	0.947421	0.814447	0.78654	0.006403	-0.02844	0.199374	0.049158	0.426646	0.42558	0.907975	0.625771	0.998446
Sep-09	-0.1582	0.06053	-0.15572	-0.10547	0.244219	0.660666	0.251799	0.439135	-0.20378	0.428954	-0.13243	0.345828	0.08717	0.998533	0.192912	0.990717
SEC24A	0.061145	0.261609	-0.11146	0.333776	0.651393	0.051461	0.409126	0.011169	0.146093	0.370473	-0.14793	0.2826	0.833675	0.994368	0.166089	0.971475
CCR9	-0.01299	-0.02949	0.202751	-0.24535	0.923625	0.829161	0.130386	0.065834	-0.05005	-0.26993	0.170059	-0.19405	0.370575	0.034821	0.867971	0.098139
GJB6	0.011606	0.289081	-0.24486	-0.23095	0.932346	0.032309	0.068936	0.086804	0.026743	0.313706	0.007179	0.094377	0.570018	0.983124	0.518664	0.733645
SDCCAG8	0.046221	0.10901	-0.00749	-0.05544	0.732792	0.423859	0.955882	0.682117	0.062972	0.104086	0.103725	0.128359	0.661206	0.754396	0.751134	0.802376
SDCCAG3	-0.00642	0.129829	0.136009	-0.02212	0.962183	0.340244	0.313073	0.870267	0.007141	0.11671	0.069847	-0.03179	0.518783	0.78007	0.675776	0.416948
HSPH1	-0.0563	-0.01716	-0.09485	-0.13051	0.677442	0.90012	0.482812	0.333233	-0.20613	0.011629	-0.0504	0.067432	0.084663	0.530571	0.371163	0.671935
STARD10	-0.11705	0.111481	0.070869	-0.28602	0.390266	0.417764	0.603741	0.032601	-0.1058	0.225668	-0.28225	0.010093	0.242028	0.934218	0.030155	0.526538
CGA	-0.02531	-0.02218	0.108778	-0.3068	0.853096	0.872288	0.424853	0.021454	0.057742	-0.30338	0.175992	-0.28723	0.648459	0.020202	0.876246	0.026466
WASF3	0.228414	-0.15492	0.293581	0.072631	0.087459	0.25427	0.026659	0.591329	0.215218	-0.4908	0.201554	-0.27262	0.922167	0.00031	0.905237	0.035007
NOXA1	0.018309	-0.14363	0.204754	-0.17584	0.89247	0.290929	0.12655	0.190752	0.179983	-0.20373	0.204113	-0.30066	0.88433	0.087231	0.910672	0.021164
UTP14A	0.049267	0.157673	-0.02442	0.000271	0.71841	0.250273	0.858194	0.998421	-0.15381	0.461435	-0.29028	0.33688	0.153723	0.999376	0.026536	0.98897
CPLX2	0.058681	-0.14038	0.298282	-0.26957	0.664587	0.3021	0.024217	0.042576	0.031802	-0.24336	0.206178	-0.27637	0.583092	0.051578	0.912898	0.031497
CPLX1	0.034166	-0.17369	0.26116	-0.12576	0.800801	0.200458	0.049735	0.351279	0.189805	-0.32858	0.363946	-0.16389	0.896779	0.01289	0.993008	0.138228
FRS3	-0.07641	-0.1166	0.194378	-0.14293	0.572124	0.392121	0.147374	0.288842	0.064427	-0.43934	0.098372	-0.32679	0.664722	0.001126	0.739853	0.013324
FRS2	0.004712	0.195147	-0.2671	0.09329	0.972248	0.149497	0.044587	0.490049	0.065771	0.266041	-0.21183	0.222873	0.667957	0.963038	0.081217	0.93173
NEU3	0.142482	-0.14074	0.351064	-0.00551	0.294847	0.305423	0.007981	0.967876	0.075201	0.062601	0.17374	0.014256	0.690302	0.660307	0.873146	0.537458

C5orf4	0.164454	-0.22886	0.232505	-0.278	0.221543	0.089766	0.081784	0.036275	0.199426	-0.56145	0.338499	-0.45967	0.908033	2.46E-05	0.98853	0.000655
FAM114A2	0.092395	0.11233	-0.06108	0.173794	0.494243	0.409794	0.651716	0.196041	0.235662	0.00272	0.094573	-0.01839	0.942562	0.507158	0.731695	0.451712
ZNF275	0.238931	0.043761	0.09731	0.123172	0.073462	0.748781	0.471455	0.361345	0.411745	-0.0926	0.245626	0.015207	0.997766	0.270246	0.948064	0.53995
CEACAM3	-0.07284	-0.28215	0.130211	-0.24784	0.590282	0.035132	0.334339	0.063058	0.003417	-0.48775	0.20171	-0.41452	0.508991	0.000293	0.908033	0.002091
ALDH1L1	0.058946	-0.24973	0.212196	-0.18764	0.663162	0.063421	0.113044	0.162204	0.376755	-0.59367	0.298897	-0.48581	0.995072	6.84E-06	0.976951	0.00031
FTCD	-0.04815	-0.1238	0.267217	-0.16261	0.72207	0.363326	0.044489	0.226844	0.034662	-0.35476	0.195069	-0.21792	0.590445	0.007779	0.90045	0.072848
C7orf16	0.208669	0.10033	0.150714	0.050188	0.122743	0.466112	0.267537	0.713368	0.228984	-0.43612	0.157393	-0.19871	0.937081	0.001224	0.849096	0.092777
TUBGCP2	-0.15297	-0.12824	-0.09842	-0.13455	0.255966	0.346229	0.466377	0.318325	-0.32401	0.081923	-0.14579	0.029312	0.014021	0.705832	0.16964	0.576668
CLPX	0.065388	0.29673	-0.34937	0.014572	0.628917	0.02637	0.007727	0.914323	-0.00832	0.405556	-0.1779	0.253176	0.478115	0.997414	0.121166	0.955213
PDE10A	0.190231	0.208551	0.294502	0.229377	0.160227	0.126517	0.027577	0.089029	0.152325	0.107909	0.014889	0.137559	0.843896	0.76233	0.538666	0.81902
SRCAP	-0.01787	0.002639	0.085391	0.016669	0.89501	0.984602	0.527675	0.90205	-0.02071	0.320627	-0.13263	0.151937	0.445677	0.98509	0.192548	0.843272
PPP1R13L	0.00483	0.120694	0.112486	-0.13779	0.971556	0.375583	0.404796	0.306708	-0.01496	0.29755	-0.07069	0.052365	0.460703	0.977694	0.322233	0.635186
CD3EAP	-0.03038	-0.14782	0.059409	-0.19034	0.822472	0.276925	0.660675	0.156141	-0.05517	-0.13452	0.143869	-0.1809	0.357864	0.186382	0.827124	0.114464
CCL27	-0.14614	-0.05126	0.010246	-0.16395	0.278039	0.707527	0.939703	0.222977	-0.07649	-0.2725	-0.01062	-0.23175	0.306691	0.033461	0.472413	0.060604
HPSE	-0.06732	0.056436	-0.29674	-0.1325	0.622045	0.682352	0.026365	0.330302	0.016726	0.417758	-0.28899	0.073455	0.54342	0.997851	0.027094	0.684219
RUVBL2	-0.17326	-0.12191	-0.08749	-0.21577	0.197445	0.37075	0.517526	0.106956	-0.40393	0.069215	-0.08307	0.005826	0.002685	0.676188	0.293728	0.515326
PGRMC1	0.054737	0.120333	-0.17308	0.127692	0.685918	0.377021	0.197923	0.343853	-0.07131	0.336065	-0.09069	0.205473	0.318836	0.988798	0.276759	0.914641
CYP46A1	0.112954	-0.25471	0.330368	-0.28623	0.402831	0.058163	0.012078	0.03089	0.108469	-0.46626	0.266888	-0.39459	0.763481	0.000546	0.961824	0.003327
LILRB1	-0.12967	-0.26284	0.153317	0.235521	0.336371	0.050338	0.25486	0.07779	-0.1792	-0.25563	-0.00373	-0.07539	0.1167	0.043201	0.490309	0.30925
SLC26A1	-0.02634	-0.0609	0.22419	-0.21	0.845782	0.655675	0.093637	0.116915	0.032402	-0.29356	0.025587	-0.27409	0.584636	0.023845	0.566252	0.032642
ADAM28	-0.21304	0.012036	-0.01738	0.420969	0.111592	0.929846	0.897917	0.001111	-0.04928	0.14647	0.121429	0.162444	0.372499	0.834306	0.786575	0.859619
SLC22A7	-0.0996	-0.12654	0.130066	-0.13157	0.465159	0.357243	0.339356	0.333755	0.102031	-0.47354	0.160634	-0.24916	0.750075	0.000444	0.854082	0.047477
ARID5A	0.030124	-0.22851	0.287156	0.19255	0.823969	0.09027	0.030327	0.151292	0.226913	-0.37675	0.15711	-0.29144	0.935304	0.004928	0.848657	0.024698
HCP5	-0.09194	-0.0964	0.118085	0.692283	0.496364	0.479691	0.38166	2.45E-09	-0.058	0.271843	0.006845	0.500417	0.350915	0.966193	0.517796	0.999801
TSPAN9	0.203383	-0.16926	0.206795	0.320586	0.129165	0.212355	0.122731	0.015045	0.309844	0.087655	0.084666	0.139346	0.981937	0.718794	0.709857	0.822153
USP20	0.026422	-0.00254	0.136454	0.274311	0.845319	0.985201	0.311479	0.038931	-0.11018	0.21398	0.041883	0.190793	0.233022	0.923346	0.607639	0.897978
USP19	-0.08271	0.006181	-0.06605	0.045607	0.544511	0.964276	0.628611	0.738553	-0.27071	0.276118	-0.10553	-0.02643	0.034406	0.968378	0.245118	0.430784
CEACAM7	-0.20474	0.154656	-0.11399	-0.15164	0.126576	0.255079	0.398491	0.260171	-0.25206	0.330677	-0.08607	0.119487	0.047421	0.986745	0.28927	0.782832
HCST	-0.0046	-0.19937	0.064609	0.52962	0.972914	0.140719	0.633019	2.27E-05	-0.05823	-0.07968	-0.06218	0.00898	0.35034	0.299301	0.342455	0.523616
CD300C	-0.05941	-0.08248	0.273497	-0.00347	0.66069	0.545608	0.039539	0.979583	0.010334	-0.26314	0.094976	-0.27862	0.527172	0.038626	0.732567	0.030394
ME3	-0.0993	0.155274	-0.0414	-0.0583	0.462407	0.253161	0.759785	0.666645	-0.08272	0.148555	-0.14879	0.038985	0.292349	0.837762	0.164664	0.6015
NMU	-0.14314	0.124548	-0.26323	-0.28621	0.297141	0.369548	0.052171	0.034146	-0.02327	0.506078	-0.09236	0.241626	0.4404	0.999771	0.275492	0.942963
FGL2	0.233006	-0.17193	0.043721	0.330018	0.08111	0.205131	0.74675	0.012174	0.192761	-0.18629	0.176527	0.09169	0.900336	0.107562	0.876974	0.727754
FAM12A	0.035299	-0.07129	0.115491	-0.26664	0.796193	0.604987	0.396657	0.046984	0.112114	-0.30251	0.078983	-0.1808	0.770899	0.020507	0.696978	0.114596
CFHR4	0.019707	-0.05087	0.010951	-0.20469	0.885373	0.712275	0.936155	0.130199	-0.02097	-0.36567	0.05567	-0.26129	0.44499	0.006227	0.641778	0.039713
CFHR3	0.363588	-0.42493	0.084882	0.085128	0.005435	0.001097	0.530148	0.528951	0.380135	-0.05228	0.235568	-0.03254	0.994999	0.366524	0.938141	0.415988
SMR3B	-0.16434	-0.21695	0.136593	0.052599	0.230555	0.115073	0.320026	0.702917	0.061702	-0.04594	0.079037	0.047212	0.656395	0.382209	0.694966	0.620946
CEACAM8	-0.08728	0.372088	-0.03488	-0.26472	0.51853	0.004746	0.796718	0.046591	-0.28285	0.375344	-0.09684	0.216335	0.02841	0.994921	0.263424	0.925637
ACTL7B	0.086708	0.022389	0.269478	-0.15827	0.521302	0.869902	0.042651	0.239634	0.214389	-0.30847	0.20693	-0.32216	0.923747	0.018501	0.913698	0.014503
ACTL7A	-0.09279	-0.03249	0.12917	-0.24045	0.496402	0.812125	0.342723	0.074248	0.172344	-0.35162	0.087014	-0.45638	0.873962	0.008282	0.715104	0.000717
C1QL1	0.036822	-0.13403	0.286949	-0.16768	0.785675	0.324715	0.030452	0.212479	0.153135	-0.4499	0.336307	-0.34135	0.845193	0.000853	0.988051	0.010126
MRPS30	0.111386	0.241395	-0.27543	0.200755	0.409438	0.073085	0.03811	0.134295	0.061073	0.520687	-0.05891	0.404142	0.656598	0.999896	0.350332	0.997328
WDR3	0.05665	0.32411	-0.30292	0.303763	0.675536	0.014814	0.021996	0.021612	-0.11059	0.588064	-0.27756	0.46079	0.232178	0.999991	0.032447	0.999365
NPFFR2	0.187465	-0.36344	0.130552	-0.39497	0.162599	0.005901	0.333064	0.002361	0.025933	-0.334	0.176679	-0.15138	0.567918	0.011648	0.87718	0.157621
PROKR1	0.068336	-0.09463	0.134865	-0.28184	0.616773	0.491936	0.321681	0.035341	0.036047	-0.43955	0.243808	-0.29409	0.593993	0.00112	0.946731	0.023636
GPR83	-0.21041	-0.15345	0.189018	-0.15523	0.116173	0.258863	0.159082	0.248917	0.070106	-0.38056	0.109148	-0.46836	0.678306	0.00454	0.7623	0.000514
CEACAM4	-0.12786	-0.13894	0.174923	-0.20414	0.343196	0.307125	0.193108	0.127712	0.06362	-0.55582	0.191319	-0.42194	0.662774	3.03E-05	0.895977	0.001746
RAB10	-0.02494	0.407202	-0.17442	0.067223	0.855245	0.002032	0.198549	0.622534	-0.04766	0.571041	-0.18043	0.388717	0.376566	0.999983	0.117794	0.996205
PPARGC1A	0.255612	-0.24545	0.23783	0.072123	0.054973	0.06825	0.074839	0.593929	0.346091	-0.36304	0.319628	-0.28207	0.990764	0.006573	0.983834	0.028768
MALT1	0.135353	0.173643	-0.15861	0.296553	0.315435	0.200592	0.238636	0.025093	0.152924	0.207861	0.077266	0.256362	0.844857	0.917154	0.69304	0.957261

MMP24	-0.07975	-0.12568	0.252994	-0.19129	0.555404	0.356024	0.057595	0.154033	0.118647	-0.48104	0.333326	-0.35166	0.783871	0.000357	0.987374	0.008275
LYVE1	0.010767	-0.00363	-0.00154	0.141369	0.937226	0.979	0.991011	0.298675	0.050424	0.017866	0.312481	0.160649	0.630355	0.546907	0.981684	0.856909
PPBPL2	0.038222	0.195562	0.023997	-0.06948	0.77773	0.148617	0.859365	0.607559	0.207044	-0.21552	0.174189	-0.22967	0.9163	0.075151	0.873768	0.062336
OCLM	0.12648	0.1962	0.07852	-0.02107	0.34849	0.147271	0.561525	0.876391	0.234827	0.079791	-0.03049	0.058689	0.939757	0.698825	0.422119	0.649122
YIF1A	-0.00265	0.100882	-0.0515	0.056982	0.984375	0.459424	0.703624	0.673743	-0.08102	0.485623	-0.17714	0.271069	0.296238	0.999688	0.12219	0.965785
CPSF4	0.045097	-0.01399	0.019353	0.130796	0.739055	0.918483	0.88638	0.332155	-0.0042	0.358297	-0.22053	0.248331	0.488957	0.992757	0.072736	0.951953
JTB	0.019483	0.20833	-0.00068	0.102277	0.885622	0.123366	0.996011	0.449017	-0.01002	0.407589	-0.16988	0.172626	0.473643	0.997535	0.13228	0.874355
ADCY3	0.185768	0.142772	0.10065	0.34727	0.170446	0.298412	0.460463	0.008734	0.265972	0.325101	-0.00626	0.356497	0.962999	0.986256	0.483718	0.992489
RUNDC3A	0.056177	-0.12855	0.192993	-0.21652	0.678097	0.345079	0.150336	0.105722	0.149346	-0.44763	0.228955	-0.51888	0.836249	0.001024	0.932534	0.00013
DHRS4	-0.08397	-0.18955	0.096839	-0.31926	0.534609	0.161759	0.473618	0.015492	0.066304	-0.02814	0.099957	-0.21551	0.669236	0.426363	0.743219	0.075162
BRD8	-0.02105	0.101979	-0.19813	-0.20332	0.876519	0.454529	0.13956	0.129294	0.057629	0.10081	-0.14485	-0.0131	0.648183	0.74749	0.171217	0.465571
MTMR11	0.20781	0.265352	-0.0412	-0.15717	0.120864	0.048097	0.760912	0.242977	0.145201	0.348349	0.068194	0.315781	0.829371	0.990487	0.669973	0.982705
BLCAP	-0.05692	0.385223	-0.13809	0.113408	0.674104	0.00337	0.30565	0.400934	-0.11342	0.594356	-0.29307	0.4305	0.226482	0.999993	0.025365	0.998589
MAN1A2	-0.03716	0.297843	-0.26808	0.163926	0.783735	0.025784	0.043778	0.223051	0.047623	0.430367	-0.11275	0.357594	0.623348	0.998584	0.23043	0.992653
TRAFD1	-0.03738	0.17266	-0.20551	0.319252	0.782483	0.203193	0.125123	0.015494	-0.02302	0.574316	-0.16297	0.469626	0.439639	0.999985	0.142394	0.999504
TXNL4A	-0.10951	0.293156	-0.31457	-0.00534	0.417415	0.028327	0.017164	0.968579	-0.26751	0.435752	-0.24575	0.281846	0.037823	0.998614	0.053922	0.969652
PNPLA6	-0.02782	-0.06869	0.02414	0.111528	0.83725	0.61493	0.858533	0.408835	-0.12634	0.288645	-0.12807	0.163926	0.2014	0.974139	0.200895	0.861832
SUGT1	0.06013	0.143153	-0.20303	0.017948	0.656815	0.292555	0.129845	0.89458	0.003427	0.308307	-0.01119	0.208895	0.509016	0.981446	0.470933	0.918224
UTS2	0.009413	-0.11125	0.231036	-0.20035	0.945106	0.414319	0.086679	0.138735	0.137475	-0.14018	0.012723	-0.04535	0.818873	0.176393	0.533054	0.382362
GADD45G	-0.04973	-0.29686	0.221495	-0.39549	0.713332	0.026301	0.097753	0.002327	0.239456	-0.54762	0.094886	-0.61635	0.94551	4.09E-05	0.732372	2.55E-06
EDAR	-0.00062	0.183983	0.020841	-0.13674	0.996357	0.174663	0.877704	0.310457	-0.04237	0.2175	0.101463	0.058305	0.389893	0.92675	0.746398	0.64984
PAPOLA	-0.06583	0.197779	-0.17718	0.073793	0.626603	0.143978	0.187337	0.585393	0.02478	0.299274	-0.10748	0.231481	0.564925	0.978334	0.241098	0.939174
TCERG1	-0.09047	0.4495	-0.19482	0.035095	0.503316	0.00051	0.146437	0.795503	0.061749	0.394973	-0.26306	0.232885	0.658241	0.996702	0.040416	0.940328
MAGED2	-0.00104	0.025454	-0.14236	-0.04577	0.993902	0.85228	0.290805	0.735311	-0.15843	0.191175	-0.08228	0.08982	0.146483	0.898439	0.295517	0.723619
BTNL3	-0.05822	-0.1052	0.249543	-0.21959	0.669959	0.444638	0.063631	0.103927	0.053359	-0.28839	-0.03531	-0.27435	0.637652	0.02597	0.408941	0.032511
EHMT2	-0.00588	-0.01532	0.015977	-0.11102	0.965375	0.910786	0.9061	0.411005	-0.12919	0.310889	-0.13483	0.143358	0.196088	0.982265	0.188608	0.829062
COPS8	-0.10426	0.109245	-0.1764	0.029955	0.440222	0.422856	0.189321	0.82494	-0.30488	0.027626	-0.06117	0.133687	0.019689	0.572306	0.344884	0.812121
RNPS1	0.110993	0.162116	0.025162	0.118851	0.411102	0.232588	0.852607	0.37856	0.181755	0.397008	0.052903	0.239628	0.886649	0.996851	0.635006	0.945641
FASTK	0.004542	-0.10073	0.183387	-0.08991	0.9735	0.464344	0.176089	0.509902	0.073578	0.029673	0.139802	-0.10742	0.684508	0.576713	0.817295	0.241239
SUB1	-0.06015	0.286449	-0.25713	0.248274	0.656704	0.032329	0.053501	0.062578	-0.04049	0.419219	-0.08851	0.457864	0.394668	0.998134	0.281573	0.999312
SMPDL3A	0.040509	0.229846	-0.19104	-0.09769	0.764801	0.08836	0.154586	0.469702	-0.18239	0.223409	-0.17999	0.089537	0.112529	0.932212	0.118378	0.722991
DBF4	-0.00539	0.098377	-0.13853	-0.05107	0.968524	0.474879	0.308597	0.708542	-0.03834	0.326548	0.083679	0.125367	0.400141	0.986617	0.707638	0.796776
SPIN1	0.128592	0.137286	-0.18782	0.132041	0.340434	0.31299	0.161791	0.327532	0.120599	0.328734	-0.07589	0.285737	0.787666	0.987147	0.310139	0.972884
RALBP1	-0.04165	0.421225	-0.25791	-0.17283	0.758389	0.001225	0.052754	0.198562	0.014901	0.356419	-0.10526	0.152925	0.539147	0.992477	0.24567	0.844859
SFRS2B	0.176311	0.198758	-0.1945	0.205044	0.193656	0.145744	0.150871	0.12953	0.107142	0.442603	-0.11497	0.202159	0.76075	0.998965	0.226005	0.911064
APOBEC2	0.075019	-0.06927	0.175237	-0.26452	0.579159	0.611954	0.192297	0.046763	0.02246	-0.11459	0.193235	-0.07818	0.558891	0.224127	0.89828	0.302771
MORF4L1	0.214654	-0.12689	0.06033	-0.05532	0.108835	0.351398	0.655745	0.682728	0.039691	-0.07944	0.265892	0.09008	0.603298	0.299865	0.961251	0.724196
MORF4	0.078027	-0.26087	0.097664	-0.17597	0.563991	0.052147	0.469837	0.190424	-0.04597	-0.11661	-0.06282	-0.06127	0.382134	0.222775	0.342707	0.34464
PRDX3	-0.02837	0.214561	-0.25741	0.182117	0.83409	0.112293	0.05323	0.175143	-0.06126	0.442912	-0.18209	0.308064	0.342944	0.998974	0.115619	0.981367
GPR75	0.031697	-0.17465	0.089015	0.088443	0.814936	0.197959	0.510235	0.512971	0.222673	-0.28775	-0.06017	-0.15484	0.931549	0.026243	0.347289	0.152088
EHD1	-0.12265	-0.23228	0.061404	0.178619	0.363414	0.084945	0.650011	0.18372	-0.1582	-0.22662	0.06914	-0.06543	0.149652	0.067196	0.672186	0.334677
AFG3L2	-0.01073	0.359114	-0.21147	0.278908	0.93742	0.007091	0.117692	0.037381	-0.08298	0.682935	-0.29215	0.400155	0.291754	1	0.025745	0.99707
POP1	-0.16167	0.445359	-0.21683	-0.02087	0.229564	0.000583	0.105212	0.877529	-0.23669	0.467805	-0.10884	0.388454	0.056624	0.999478	0.238329	0.996182
UGT2A1	0.032907	0.267352	-0.27779	-0.24171	0.808001	0.046374	0.036422	0.070078	-0.25239	-0.0704	-0.04452	-0.0151	0.047197	0.322929	0.387074	0.460795
PRSS21	-0.00048	-0.18353	0.163898	-0.18673	0.997162	0.175752	0.223129	0.164273	0.159596	-0.34424	-0.00886	-0.18414	0.855304	0.009575	0.476956	0.110285
MSL3	-0.26372	0.073024	-0.16627	0.050417	0.047458	0.592753	0.216407	0.709564	-0.16911	-0.03253	0.064025	0.018337	0.130615	0.415036	0.661966	0.548136
C11orf58	0.082835	0.112152	-0.21838	0.186513	0.540148	0.410542	0.102688	0.164781	0.015053	0.257106	-0.08912	0.300474	0.539547	0.957729	0.280215	0.97877
KDEL1	0.026402	0.348663	0.013812	0.05747	0.845431	0.008451	0.918775	0.671106	0.042099	0.587969	-0.12027	0.365665	0.609416	0.999991	0.215645	0.993773
SF3A3	-0.00593	0.182374	-0.24415	0.225652	0.965089	0.17853	0.067213	0.091462	-0.14214	0.520432	-0.17426	0.426021	0.173022	0.999895	0.126128	0.998421
AP3M2	-0.05122	-0.04521	-0.07401	-0.06316	0.70515	0.740751	0.584262	0.640694	-0.2989	0.00079	-0.01389	0.077109	0.021804	0.502079	0.46392	0.694746

STARD3	-0.02278	-0.01083	-0.03703	0.118287	0.866427	0.93685	0.784498	0.380842	-0.12262	0.336108	-0.17244	0.144019	0.208442	0.988807	0.128667	0.830183
HNRNPA0	0.066554	0.233666	-0.30462	0.243552	0.6228	0.083053	0.021227	0.067905	0.152498	0.61654	-0.10623	0.41331	0.844174	0.999997	0.243676	0.997848
BTG3	-0.07911	0.090546	-0.29257	0.193683	0.558595	0.506901	0.027213	0.148856	0.059258	0.282051	-0.09292	0.298399	0.652172	0.971223	0.271883	0.978011
CBX1	-0.05026	-0.36718	-0.09866	-0.00994	0.710435	0.005374	0.465312	0.941513	-0.03332	-0.22677	-0.04291	-0.07457	0.413009	0.064816	0.389797	0.311178
SEC61B	-0.05659	0.024855	-0.10994	0.258641	0.678694	0.855713	0.419893	0.054263	-0.11006	0.160384	-0.20439	0.310531	0.233262	0.856506	0.089024	0.982153
TOMM34	-0.19515	0.053621	-0.22189	-0.36501	0.145732	0.694693	0.097142	0.005242	-0.49539	-0.04377	-0.16056	0.023187	0.000232	0.386358	0.146037	0.560782
PDIA5	0.28791	-0.10044	0.311338	0.152622	0.029876	0.461418	0.018404	0.257048	0.155415	-0.06554	0.083426	-0.01146	0.848812	0.332604	0.707068	0.469865
SERINC3	0.193744	0.142652	-0.15815	0.277502	0.148725	0.294267	0.239996	0.036625	0.10325	0.338739	-0.04335	0.314464	0.752643	0.989354	0.388679	0.983349
OS9	0.135171	0.082108	0.057488	0.126192	0.320572	0.551209	0.673866	0.354058	0.094537	0.286907	0.039013	0.113813	0.733994	0.973395	0.600422	0.774312
PNRC1	0.058148	0.048937	-0.03302	0.217695	0.667451	0.720218	0.807362	0.103795	0.454184	-0.0545	0.107908	-0.07751	0.999239	0.359534	0.75977	0.304333
TMED2	0.092455	0.255975	-0.15383	0.215148	0.49795	0.059252	0.25766	0.11129	-0.04764	0.501194	-0.23551	0.359712	0.376618	0.999806	0.059686	0.992963
LMAN2	-0.17494	0.228391	-0.12088	0.142463	0.193067	0.090449	0.370433	0.290443	-0.25994	0.604011	-0.29698	0.408722	0.040526	0.999996	0.023789	0.9976
ERP29	-0.12999	-0.03424	0.069897	0.039859	0.339637	0.802167	0.608726	0.770541	-0.19035	-0.22363	-0.11363	-0.24983	0.1052	0.069875	0.231342	0.048951
MLLT11	0.150859	0.111773	-0.05844	0.022441	0.262649	0.412135	0.66588	0.868401	0.241881	-0.21417	0.227355	-0.17585	0.94529	0.07887	0.931122	0.123943
STIP1	-0.08787	0.127194	-0.28069	-0.13089	0.515712	0.350218	0.034433	0.331814	-0.2273	0.350882	-0.11977	0.280139	0.064363	0.991596	0.216614	0.970329
IFI44L	-0.08587	-0.34282	0.138566	0.566569	0.52918	0.010401	0.308456	5.32E-06	-0.0458	-0.2864	0.18475	0.081604	0.383907	0.029728	0.882195	0.700763
ACOT2	0.044027	0.019886	-0.09674	0.02945	0.745037	0.884338	0.474071	0.827846	-0.06003	0.137346	-0.02346	0.174585	0.345933	0.818644	0.439206	0.877066
RAB40B	-0.09402	0.320342	-0.02501	-0.35114	0.486638	0.016086	0.853493	0.007402	-0.0255	0.142817	-0.09722	-0.02588	0.433202	0.828139	0.262605	0.432228
EBNA1BP2	-0.19818	0.164869	-0.24554	-0.09171	0.139477	0.224644	0.06562	0.49744	-0.38934	0.386451	-0.30082	0.284329	0.003743	0.996009	0.022324	0.972258
CKAP4	0.120183	-0.06042	0.224928	-0.01503	0.3732	0.658247	0.092534	0.91166	0.146313	0.062424	0.034493	-0.00564	0.834043	0.659877	0.588987	0.485167
YWHAQ	0.060787	0.279368	-0.33363	0.076539	0.653304	0.037054	0.011207	0.571471	-0.08612	0.477291	-0.25192	0.379922	0.284647	0.999602	0.047516	0.995397
TMED10	0.103998	0.029363	-0.0789	0.165378	0.445601	0.83148	0.563237	0.223196	-0.07485	0.291274	-0.13463	0.207695	0.310514	0.975233	0.188965	0.91698
ASCC3	-0.05071	0.364095	-0.27142	0.360948	0.707967	0.005806	0.041119	0.005809	0.002086	0.617893	-0.16532	0.492906	0.505489	0.999998	0.138905	0.999749
C10orf116	0.143857	-0.00683	-0.05473	0.013822	0.285702	0.96017	0.68597	0.918717	0.219157	0.308458	-0.23693	0.147723	0.928314	0.981495	0.058555	0.836388
UQCR	-0.19019	0.107331	-0.14277	0.139408	0.156464	0.431076	0.289389	0.30102	-0.20489	0.217343	-0.13847	0.191208	0.085985	0.926601	0.182173	0.898478
CLP1	-0.07665	0.044184	-0.15727	-0.0018	0.570895	0.746435	0.242677	0.989372	0.036093	0.099463	0.037879	0.000153	0.594113	0.744621	0.597561	0.500403
FERMT2	0.327206	-0.22339	0.104054	0.193514	0.012976	0.09793	0.441133	0.149216	0.476616	-0.42534	0.336277	-0.19865	0.999594	0.001606	0.988045	0.092839
COPS6	-0.04762	0.024753	-0.32	0.132443	0.724995	0.856304	0.01524	0.326048	-0.11917	0.381406	-0.17945	0.325795	0.21511	0.995543	0.1191	0.98643
RAB32	0.016965	-0.39343	0.221917	-0.07818	0.90032	0.002702	0.097101	0.563243	0.193922	-0.47536	0.274881	-0.27413	0.901708	0.000421	0.966184	0.032623
MAPRE2	0.190973	0.143633	-0.05105	0.164163	0.154734	0.290925	0.706056	0.222373	0.201793	0.113458	0.02232	0.204671	0.910662	0.773602	0.557854	0.913785
CCNI	0.147797	0.222607	-0.12512	0.138039	0.27257	0.099141	0.353751	0.305839	0.370551	0.060126	0.093217	0.001073	0.994377	0.65429	0.728755	0.502825
GCN1L1	-0.08832	0.276383	-0.1922	0.231318	0.517448	0.041091	0.155862	0.086284	-0.014	0.564985	-0.2535	0.341787	0.463201	0.999978	0.046457	0.989959
COPS5	0.012637	0.24429	-0.28141	0.111312	0.925669	0.069606	0.033957	0.409748	-0.04165	0.477348	-0.16973	0.326868	0.391721	0.999602	0.132493	0.986696
METAP2	0.029448	0.30619	-0.30227	-0.02386	0.827856	0.021729	0.022297	0.860177	0.069665	0.381984	-0.14112	0.245705	0.677259	0.995598	0.177574	0.950111
IMMT	0.194416	0.230497	-0.22166	0.14163	0.147292	0.087437	0.097498	0.293302	-0.16299	0.555668	-0.10876	0.366333	0.139555	0.999969	0.238488	0.993859
LILRB5	-0.01379	-0.30251	0.265384	0.053692	0.919627	0.024781	0.048068	0.694309	0.024795	-0.27635	0.087816	-0.16418	0.564964	0.031509	0.716888	0.137791
SLC38A3	0.074177	-0.03327	0.233433	-0.18512	0.586908	0.809437	0.08337	0.171961	0.237327	-0.13489	0.10615	-0.21238	0.941765	0.188494	0.753577	0.080658
SF3B2	-0.07131	-0.16713	-0.10655	-0.17661	0.601477	0.222625	0.434455	0.192877	-0.39341	0.195854	-0.05095	0.149197	0.003417	0.903962	0.369809	0.838818
SDS	-0.09191	-0.12941	0.068346	0.105391	0.496535	0.341831	0.613446	0.435255	0.134412	-0.26944	0.118921	-0.05474	0.813425	0.035087	0.781735	0.358938
ILVBL	-0.06352	0.082068	-0.05961	-0.04826	0.638798	0.547638	0.659586	0.721452	-0.28528	0.467322	-0.30194	0.293565	0.027318	0.999471	0.021911	0.976155
SLC27A5	0.091269	0.001564	0.189387	-0.3363	0.503502	0.99096	0.162124	0.011273	0.092354	-0.30871	0.19467	-0.34058	0.729217	0.018425	0.89998	0.010277
SLC27A4	0.069652	0.153419	0.148769	-0.00659	0.609989	0.263444	0.273832	0.96153	-0.09315	0.612126	-0.20369	0.322387	0.26904	0.999997	0.089786	0.985558
SLC27A3	-0.02625	-0.09585	0.026274	0.040606	0.84634	0.482237	0.846172	0.764254	0.048663	0.124586	-0.11203	0.057028	0.625954	0.795301	0.23187	0.646706
SLC27A2	-0.06293	0.017613	-0.04942	-0.14603	0.641897	0.897483	0.715061	0.27841	-0.24279	-0.07948	0.016792	-0.12803	0.051995	0.299772	0.54359	0.198239
KIF2C	-0.05067	0.163848	0.024023	-0.13482	0.710741	0.231964	0.860498	0.321846	-0.05265	0.459154	0.065941	0.245015	0.365622	0.999245	0.664681	0.947619
SPINK5	0.054609	0.40876	-0.2287	-0.1327	0.689348	0.001946	0.090001	0.329584	-0.08088	0.675599	-0.21901	0.424584	0.296549	1	0.07417	0.998364
LILRB4	-0.14272	-0.26321	0.086137	0.2684	0.289581	0.049999	0.524059	0.043519	0.091707	-0.1895	0.186461	0.001088	0.725462	0.106243	0.887224	0.502829
CCDC85B	-0.00227	-0.18016	0.198556	-0.11208	0.986646	0.183958	0.138703	0.406497	0.198737	-0.35653	0.122408	-0.25992	0.907258	0.007506	0.788449	0.040538
IL24	-0.10289	-0.13488	-0.14214	-0.17875	0.450474	0.326175	0.296018	0.187453	0.107796	-0.12504	0.016945	-0.22124	0.762098	0.203849	0.543984	0.069754
CHAD	0.237103	-0.04422	0.272258	-0.39842	0.078495	0.748523	0.042361	0.002356	0.392959	-0.3273	0.354354	-0.44297	0.99621	0.014095	0.990863	0.001155

GLIPR1	0.159112	-0.26857	0.047918	0.400943	0.237123	0.045349	0.723367	0.001996	0.270267	-0.46887	0.265428	-0.17007	0.965358	0.000507	0.960983	0.129242
TLK2	-0.05924	0.242311	-0.19507	0.097544	0.6645	0.07468	0.149667	0.474488	-0.27293	0.243845	-0.2985	0.144015	0.033239	0.948774	0.023202	0.830178
KLK11	0.080129	0.271209	-0.06676	-0.28865	0.55351	0.043193	0.621708	0.029441	-0.04171	0.315951	-0.19038	-0.04093	0.391576	0.983784	0.105169	0.393548
TMSB15A	0.076034	-0.18028	0.25075	0.04548	0.574021	0.183658	0.059923	0.73692	0.165592	-0.26182	0.037759	-0.21305	0.864292	0.039399	0.597257	0.077571
KDELR2	0.050304	0.33946	-0.09532	0.255214	0.710187	0.010483	0.480627	0.055366	0.062513	0.482954	-0.12768	0.374239	0.660094	0.999662	0.201629	0.9948
KDELR3	0.017459	0.206809	0.049053	0.077011	0.897433	0.12619	0.717089	0.569096	0.119654	0.024429	0.05513	0.13166	0.785835	0.564013	0.640459	0.808448
ATF7	0.262702	-0.08849	0.112533	-0.07857	0.048354	0.516654	0.4046	0.561283	0.285003	-0.02777	0.123358	-0.00728	0.972559	0.427322	0.790257	0.48085
SNRNP27	-0.02477	0.251626	-0.06887	0.084251	0.854892	0.06138	0.610728	0.533221	0.05543	0.269986	-0.05864	0.222698	0.642772	0.965208	0.350998	0.931572
TMED1	-0.20629	-0.14994	0.077103	-0.19467	0.123667	0.270017	0.568633	0.146763	-0.08026	-0.17718	-0.01097	-0.21028	0.297971	0.119398	0.47148	0.080354
LIAS	-0.09073	0.23	-0.26593	0.039338	0.502069	0.08814	0.045567	0.77141	-0.09735	0.485669	-0.20871	0.191367	0.259917	0.999689	0.084427	0.898669
RCBTB2	-0.01782	0.24258	-0.20154	0.36618	0.895299	0.071644	0.132739	0.005089	-0.01054	0.435679	-0.18091	0.287361	0.472291	0.998762	0.117164	0.973591
RABL4	-0.18138	-0.1873	-0.02121	-0.24151	0.176936	0.166875	0.875545	0.070321	-0.34937	-0.2258	-0.12822	-0.18351	0.008659	0.06567	0.200618	0.111087
RAB35	0.04184	0.020481	0.02026	0.114394	0.757307	0.880904	0.881089	0.396824	-0.02171	0.260938	-0.06138	0.124311	0.443069	0.960074	0.344368	0.794778
TDRKH	0.113006	-0.46769	0.234918	0.097318	0.402614	0.000279	0.078577	0.471421	0.024689	-0.42145	0.179659	-0.27163	0.564688	0.001767	0.881182	0.033919
VAX1	0.029739	-0.23705	0.259229	-0.23067	0.826185	0.078563	0.05151	0.084291	0.180163	-0.39947	0.289205	-0.37062	0.884566	0.002977	0.973001	0.005614
LILRA1	-0.03167	-0.22236	0.211762	0.002281	0.815067	0.099531	0.1138	0.986562	-0.16692	-0.32984	0.000954	-0.1891	0.136548	0.013459	0.502453	0.106731
LILRB3	0.026471	-0.39772	0.1331	0.13635	0.845037	0.002402	0.323633	0.311851	-0.29638	-0.24054	-0.01549	-0.15181	0.024025	0.055729	0.460258	0.159748
LILRA3	0.038163	-0.10393	0.371531	-0.08718	0.778061	0.44592	0.004434	0.519012	-0.11821	-0.32285	0.19128	-0.28043	0.219657	0.015266	0.893214	0.031028
LILRA2	-0.17672	-0.30373	0.154359	-0.10157	0.192617	0.024177	0.256004	0.456367	-0.24516	-0.4756	0.164575	-0.42938	0.052272	0.00048	0.857136	0.001623
CHAT	-0.06012	-0.1725	0.123771	-0.24484	0.656882	0.203616	0.358995	0.066419	0.109008	-0.3269	0.175522	-0.3557	0.764587	0.013297	0.875603	0.007633
RBPMS	0.248447	-0.10001	0.268902	0.248947	0.06239	0.463317	0.043113	0.061847	0.380173	-0.17382	0.194725	-0.04109	0.995422	0.12399	0.900045	0.393149
RAB31	0.026135	0.024524	-0.14009	0.331522	0.846976	0.857617	0.298632	0.011763	0.102207	0.155566	0.021647	0.224606	0.750447	0.849049	0.556122	0.93328
ADAP1	-0.20043	-0.19539	-0.00261	-0.14468	0.134947	0.148984	0.984652	0.282929	-0.23927	-0.08899	-0.09929	-0.15823	0.054634	0.278224	0.258187	0.146795
DSTN	0.139951	0.086781	-0.0278	-0.03212	0.299122	0.524798	0.837349	0.812508	0.201181	-0.11748	0.20254	-0.02058	0.909987	0.218408	0.908951	0.446003
RIPK3	-0.04984	0.300078	-0.09579	0.177456	0.712724	0.024641	0.478426	0.186639	-0.1929	0.521287	-0.12546	0.412356	0.099498	0.999898	0.205779	0.997798
GTF2A1L	0.115979	-0.05587	-0.04954	-0.33182	0.390269	0.682556	0.714392	0.011684	-0.24307	0.124139	-0.06197	0.069916	0.051789	0.794452	0.34297	0.677856
STON1	0.250417	-0.02343	0.012638	0.241025	0.060275	0.863917	0.925664	0.0709	0.426301	-0.26269	0.305318	-0.07562	0.998432	0.038887	0.979299	0.308714
RCC1	-0.00602	-0.10483	0.098037	-0.04457	0.964555	0.441944	0.468137	0.741984	-1.86E-05	-0.27678	0.135629	-0.07774	0.499951	0.031293	0.812821	0.303793
PIM2	-0.13932	-0.095	0.077138	0.603569	0.301338	0.486164	0.568457	6.70E-07	-0.2894	0.116263	0.044756	0.376001	0.026913	0.776539	0.61351	0.994544
B3GNT1	0.177118	-0.15563	0.201846	-0.00801	0.187493	0.252054	0.132148	0.952854	-0.15504	-0.17894	-0.02519	-0.03122	0.154592	0.11978	0.435522	0.419342
MID2	0.093628	-0.05083	-0.14803	0.250098	0.488473	0.709866	0.271819	0.060613	0.099347	0.05593	-0.05033	0.073494	0.744375	0.644006	0.371323	0.686303
POLS	0.017352	0.330746	-0.06931	0.280416	0.898062	0.012783	0.608453	0.034619	0.122584	0.492085	-0.00916	0.273839	0.791488	0.999743	0.476177	0.967228
UPK1A	-0.03073	-0.18453	0.047218	-0.28375	0.82046	0.173357	0.72725	0.032438	0.058625	-0.39629	0.087112	-0.35478	0.648967	0.00352	0.713036	0.008394
SLC35D2	-0.11062	0.180578	-0.14118	0.016247	0.412687	0.182918	0.294847	0.904523	-0.32472	0.322956	-0.1481	0.323189	0.01384	0.985707	0.165807	0.985767
ADRM1	-0.00545	0.119097	-0.10138	0.125692	0.967901	0.381977	0.453013	0.351526	-0.2479	0.531845	-0.17016	0.406096	0.048343	0.999929	0.13189	0.997447
CHD1	0.028336	0.229943	-0.24744	0.117516	0.834262	0.088221	0.063492	0.383976	0.15661	0.18186	-0.00881	0.161448	0.850686	0.886785	0.477111	0.85812
NUDT21	0.064935	0.259057	-0.26672	0.204493	0.631301	0.053864	0.044906	0.127045	0.007277	0.537562	-0.11445	0.445175	0.519141	0.999942	0.227046	0.999033
CPSF6	0.058267	0.190347	-0.16189	0.244876	0.666813	0.159966	0.228916	0.066376	0.182345	0.237143	-0.11024	0.278257	0.887414	0.943726	0.235489	0.969428
OGFR	-0.07423	-0.23486	0.139888	0.098785	0.583167	0.081442	0.299341	0.464732	-0.01135	-0.05696	0.012117	-0.01615	0.470173	0.353471	0.531484	0.457583
ZBPB	0.144824	-0.18469	0.223785	-0.34752	0.282441	0.172995	0.094248	0.00808	-0.04986	-0.37294	0.208497	-0.31168	0.371063	0.005346	0.915348	0.017489
DDX52	0.017764	0.328506	-0.33848	0.130465	0.895656	0.01344	0.010013	0.333388	-0.02157	0.474969	-0.17196	0.384301	0.443425	0.999574	0.129343	0.995816
ABHD2	-0.13233	0.385963	-0.2529	-0.22499	0.326455	0.003304	0.057694	0.092448	-0.11428	0.338753	-0.07471	0.162939	0.227388	0.988584	0.314916	0.857564
WWP1	0.063429	0.236799	-0.15144	0.265179	0.639255	0.078891	0.26078	0.046202	0.274736	0.393716	-0.05576	0.303115	0.967685	0.996607	0.358008	0.979705
CHD2	-0.01995	0.001595	-0.11533	-0.04325	0.882906	0.990691	0.392953	0.749416	0.375921	-0.29405	0.225268	-0.24937	0.994983	0.023652	0.931601	0.04733
WWP2	0.185908	-0.16331	0.223453	-0.13985	0.170119	0.233507	0.097832	0.30394	0.394691	-0.07502	0.276426	-0.27967	0.996352	0.312138	0.965345	0.031401
LECT1	0.158071	-0.16317	0.237318	-0.22993	0.244608	0.233913	0.078217	0.088243	0.113818	-0.30588	0.128593	-0.31238	0.769025	0.021731	0.794408	0.019488
DUS4L	-0.15107	0.277977	-0.20604	-0.06336	0.261974	0.038047	0.124124	0.639634	-0.39151	0.400019	-0.15576	0.184125	0.003566	0.99706	0.153452	0.8897
SOX30	-0.03276	-0.10376	0.279191	-0.19842	0.808831	0.446671	0.035451	0.138984	0.011674	-0.32657	-0.01645	-0.32256	0.530689	0.013379	0.457307	0.014397
CEP110	-0.10857	-0.09138	-0.05389	-0.202	0.42147	0.50299	0.690553	0.131845	-0.23539	-0.17363	0.063982	-0.12632	0.057653	0.124257	0.661863	0.201424
UBE2C	-0.00241	0.212179	0.046921	-0.15919	0.985912	0.119902	0.731303	0.241233	-0.15017	0.459467	-0.12915	0.260488	0.159596	0.999341	0.198914	0.959804

SNRNP35	-0.09685	0.015351	-0.09616	-0.21495	0.473543	0.910591	0.476731	0.108342	-0.00153	0.033569	0.038678	-0.16421	0.495962	0.587637	0.599577	0.137742
C10orf10	-0.013	-0.20039	0.102764	0.443383	0.923567	0.138661	0.446846	0.000552	0.329255	-0.13866	0.20735	0.093193	0.987271	0.179053	0.914142	0.731057
CYB561D2	-0.01255	0.108886	-0.00661	0.201426	0.92686	0.42875	0.961442	0.136581	-0.23674	0.203496	-0.19952	0.133049	0.056588	0.91252	0.094416	0.81097
RAPGEF4	0.227134	-0.03161	0.088329	0.313202	0.089296	0.817092	0.513517	0.017679	0.240785	-0.03765	0.028802	0.199529	0.946514	0.401916	0.574488	0.908149
CHD3	0.172443	0.08133	0.01021	0.160518	0.199596	0.551256	0.939911	0.232952	-0.04679	0.398045	-0.06028	0.339037	0.378737	0.996924	0.34704	0.989414
TMEM115	-0.02793	-0.17617	-0.03371	0.052061	0.83659	0.194022	0.803395	0.700531	-0.31462	0.212999	-0.23398	0.101662	0.016605	0.922376	0.060936	0.749295
DUSP14	-0.15521	0.073536	-0.10013	-0.14644	0.248963	0.590157	0.458653	0.277054	-0.03092	-0.20463	0.048556	-0.13434	0.420116	0.08877	0.622859	0.189471
TOPBP1	-0.04616	0.429979	-0.31767	0.23026	0.733155	0.000942	0.016041	0.084862	-0.08435	0.640397	-0.25423	0.448119	0.288639	0.999999	0.045969	0.999105
TRIM31	-0.29198	-0.00197	-0.08975	0.163356	0.028995	0.988624	0.510674	0.228988	-0.18992	0.511899	-0.04513	0.328614	0.105725	0.999837	0.385564	0.986237
STMN2	0.188174	-0.13281	0.135326	-0.19303	0.160986	0.329171	0.315534	0.150253	0.216624	-0.3263	0.265272	-0.29698	0.925913	0.013443	0.960892	0.022522
TPPP	-0.15647	-0.0691	0.007368	-0.2673	0.245105	0.612833	0.956618	0.044417	-0.16624	-0.12052	-0.04888	-0.25908	0.134756	0.212488	0.37492	0.041051
HSF2BP	-0.11553	-0.0676	0.145819	-0.26915	0.392118	0.62059	0.279112	0.042912	0.168151	-0.36464	-0.08127	-0.45077	0.868013	0.006361	0.297817	0.000834
TRIOBP	-0.06177	-0.04548	0.05048	-0.08433	0.648061	0.73925	0.709216	0.532838	0.05019	-0.05151	0.155735	-0.02951	0.629771	0.366947	0.846504	0.422829
RER1	-0.00874	0.344837	-0.27725	0.230175	0.948569	0.00925	0.0368	0.084979	-0.19635	0.616388	-0.35525	0.457717	0.095459	0.999997	0.008316	0.999309
CHD4	-0.14085	0.236163	-0.38852	-0.05235	0.300471	0.08259	0.003086	0.701587	-0.11964	0.330561	-0.11027	0.288105	0.214197	0.987576	0.23542	0.973909
DNAJB4	0.107499	0.039929	-0.10969	0.004962	0.426073	0.770152	0.416669	0.970778	0.178684	0.011913	0.047486	0.017023	0.882609	0.531317	0.621628	0.544701
KERA	0.108652	-0.11995	0.160701	-0.21513	0.425392	0.383054	0.236744	0.111323	0.09236	-0.20005	0.208817	-0.32894	0.726887	0.093828	0.913134	0.013682
ESM1	-0.02512	-0.30545	0.121257	-0.15284	0.852851	0.022065	0.368912	0.256345	0.095121	-0.34463	0.194018	-0.35506	0.735265	0.009502	0.89921	0.007731
DIDO1	-0.21435	0.48252	-0.14141	0.01919	0.109343	0.000166	0.294064	0.887328	-0.06745	0.389764	-0.03249	0.074677	0.328029	0.996292	0.416111	0.689077
ADAM30	0.125139	-0.09739	0.213605	-0.24251	0.358122	0.479335	0.113941	0.07173	0.112104	-0.2183	0.104745	-0.26146	0.770878	0.072492	0.753253	0.039614
ADAM29	0.016641	-0.12813	0.12932	-0.20503	0.902219	0.346654	0.337684	0.126024	-0.05984	-0.42867	0.021755	-0.31672	0.346411	0.001478	0.5564	0.015995
AKR1C4	-0.30115	0.226575	-0.24347	-0.15906	0.022823	0.093111	0.067995	0.237271	-0.23642	-0.22523	-0.11705	-0.34499	0.056843	0.066168	0.221921	0.009436
WDR5	0.062853	0.305196	-0.05458	-0.08151	0.642304	0.022182	0.686765	0.546681	-0.06285	0.458286	-0.21872	0.080313	0.339096	0.99932	0.074445	0.702143
C9orf9	-0.22889	-0.20001	0.038149	-0.23721	0.086788	0.13941	0.778146	0.075625	-0.30579	-0.29548	0.042299	-0.26488	0.019383	0.023097	0.608685	0.037621
ADAMTS13	-0.02997	-0.00082	0.249696	-0.21902	0.824858	0.995186	0.061043	0.101665	0.158276	-0.19433	0.076817	-0.25045	0.853274	0.097813	0.692006	0.046601
C9orf7	-0.1995	-0.13477	0.055627	-0.26042	0.136791	0.322016	0.681081	0.050407	-0.188	-0.31483	-0.07185	-0.34071	0.10543	0.016542	0.319523	0.010252
ADAMTS8	0.21627	-0.1974	0.33645	0.17785	0.106134	0.14476	0.010499	0.185645	0.265149	-0.2857	0.383338	-0.01966	0.962533	0.027132	0.995329	0.448405
ADAMTS5	0.323188	-0.14739	0.179968	0.134985	0.0142	0.278362	0.180378	0.316764	0.26031	-0.32621	0.225069	-0.1363	0.959697	0.013466	0.931422	0.183211
NUPL2	-0.19338	0.215188	-0.39076	0.094705	0.149512	0.111223	0.002653	0.483464	-0.15295	0.400633	-0.23361	0.284906	0.155101	0.997102	0.06124	0.972516
PRSS23	0.105643	0.420331	-0.12991	-0.03577	0.438399	0.001258	0.339945	0.793509	-0.1111	0.507702	-0.09058	0.368729	0.231146	0.999842	0.277019	0.994158
PTPN21	0.034225	-0.0669	-0.00132	-0.14578	0.800468	0.624201	0.992251	0.279227	0.060385	-0.15616	0.012984	-0.12447	0.654922	0.150017	0.533731	0.204923
ADCY5	0.322617	-0.20182	0.301493	0.093802	0.014382	0.135806	0.022661	0.487661	0.290682	-0.2713	0.197959	-0.07614	0.97499	0.034094	0.903802	0.307518
HNRNPUL1	0.112534	0.111443	-0.00539	-0.13157	0.404595	0.413524	0.968275	0.329259	0.063847	0.374623	0.07023	0.304156	0.663321	0.994842	0.676678	0.980065
ATE1	0.002711	0.376973	-0.28293	0.240223	0.984033	0.004185	0.03296	0.071873	0.155187	0.41828	-0.09403	0.298559	0.848452	0.998091	0.269478	0.97807
RPP14	-0.03004	0.329674	-0.2964	0.204443	0.824473	0.013094	0.025172	0.12714	-0.14922	0.63118	-0.3089	0.451787	0.161142	0.999999	0.019478	0.999189
KRR1	-0.03434	0.204963	-0.26954	0.152693	0.799827	0.129684	0.042605	0.256822	0.012661	0.307216	-0.17245	0.258048	0.533278	0.981091	0.128647	0.958315
KATNA1	-0.10815	0.111091	-0.35188	0.039059	0.423245	0.415011	0.007271	0.77299	-0.2084	0.180278	-0.25453	0.103782	0.082286	0.884719	0.045771	0.75376
PRDM7	0.019129	-0.054	0.183058	-0.28757	0.887686	0.692663	0.172888	0.030081	0.168737	-0.18401	0.113804	-0.15058	0.868856	0.110445	0.77167	0.158924
PRDM5	0.275082	-0.26067	0.068458	0.049607	0.038363	0.052331	0.612865	0.714026	0.241262	-0.16706	0.196819	-0.02325	0.94482	0.136352	0.899821	0.439747
PRDM4	-0.13506	0.348823	-0.30679	0.173268	0.316483	0.008419	0.020279	0.197419	-0.06832	0.506059	-0.20587	0.243818	0.325934	0.999833	0.087428	0.948754
CHEK1	0.072821	0.276799	-0.1852	0.161937	0.593783	0.040776	0.17178	0.233111	0.055621	0.528035	-0.18398	0.357276	0.643243	0.999919	0.113182	0.992606
HIBADH	0.117775	-0.08208	-0.1329	-0.04179	0.382923	0.547601	0.324367	0.757591	-0.10748	0.019076	0.053366	-0.03368	0.238558	0.550068	0.636141	0.412082
CIT	-0.00581	0.362946	-0.11419	-0.20269	0.966105	0.006461	0.402041	0.134091	-0.10664	0.670665	-0.16215	0.376108	0.240282	1	0.143627	0.995003
FGFR1OP	-0.21004	0.06591	-0.10228	-0.10388	0.116844	0.629362	0.449019	0.44191	-0.30145	-0.02055	-0.15575	0.027035	0.020882	0.446098	0.153474	0.570774
EMILIN1	0.137869	-0.20063	0.25718	0.123319	0.30644	0.138171	0.053449	0.360767	0.331551	-0.30839	0.159556	-0.11546	0.987804	0.018526	0.852437	0.222411
BTN3A2	-0.01258	-0.0209	0.190891	0.537492	0.925975	0.878482	0.154914	1.62E-05	-0.1356	0.066312	0.148232	0.377487	0.187228	0.667417	0.831541	0.994711
BTN3A1	0.077888	-0.14378	0.262542	0.610956	0.564692	0.290426	0.048496	4.48E-07	-0.03313	-0.05947	0.261905	0.191729	0.414476	0.348983	0.957046	0.896473
FOXN3	0.151219	0.29678	-0.02205	-0.09332	0.265921	0.026343	0.871851	0.493928	0.101883	0.088957	-0.05	0.051443	0.749763	0.7217	0.372141	0.632893
BTN2A1	-0.10833	-0.06849	0.145668	0.254058	0.422467	0.615954	0.279614	0.056518	-0.21162	0.04045	-0.05535	-0.01863	0.079004	0.605228	0.359003	0.451099
PTPRT	-0.19279	-0.18591	-0.01196	-0.22006	0.150773	0.170107	0.929645	0.10001	-0.33685	-0.13753	-0.12527	-0.11637	0.011037	0.181035	0.206125	0.220608

RCAN3	-0.0997	-0.08478	-0.03551	-0.26013	0.460588	0.534459	0.793153	0.050676	-0.29045	-0.08418	0.042666	-0.08176	0.025106	0.289024	0.609603	0.294551
FAF1	-0.03926	0.410312	-0.28199	0.254505	0.77187	0.001685	0.033575	0.05607	-0.07753	0.632505	-0.27233	0.447285	0.304272	0.999999	0.035164	0.999085
CD160	-0.18187	-0.05789	0.168989	0.035583	0.175744	0.671712	0.208887	0.792724	-0.04046	-0.31694	-0.12397	-0.3974	0.395936	0.016949	0.211347	0.003435
KIF3A	-0.06064	-0.10686	-0.04456	-0.19422	0.654083	0.433132	0.742041	0.14772	-0.10133	-0.22843	0.072341	-0.1141	0.251409	0.06339	0.681622	0.225116
POLR3A	0.088198	0.118249	-0.15245	0.14154	0.514142	0.385403	0.257587	0.293612	0.034725	0.441671	-0.15758	0.309774	0.590606	0.99894	0.150611	0.981915
SFRS16	-0.06725	-0.07908	0.131683	-0.05862	0.619183	0.562346	0.328858	0.664919	0.025137	-0.1274	0.12651	-0.16536	0.565852	0.19941	0.796195	0.136047
CHGA	-0.08992	-0.10678	0.143238	-0.37914	0.505923	0.433447	0.287801	0.003632	-0.07555	-0.39001	0.089501	-0.36612	0.308876	0.003687	0.720616	0.006169
ZWINT	-0.07384	0.23057	-0.06552	-0.1533	0.588621	0.090345	0.631401	0.259322	-0.08971	0.537088	-0.25535	0.285678	0.276626	0.999941	0.045236	0.972858
CAPN11	0.102417	-0.19258	0.274996	-0.34314	0.452585	0.158938	0.040248	0.009625	0.036674	-0.40231	0.284285	-0.26507	0.595599	0.002788	0.970797	0.037514
CAPN10	-0.30237	-0.08745	0.064524	-0.24909	0.022249	0.521578	0.633469	0.061691	-0.30762	-0.14682	-0.01964	-0.19014	0.018779	0.165103	0.449052	0.102819
KPTN	0.064723	0.000103	0.131193	-0.08348	0.632421	0.9994	0.330676	0.536979	0.116049	0.142692	0.023909	0.019348	0.778762	0.827927	0.561943	0.550778
CDC42EP1	0.114068	-0.23707	0.192652	0.073649	0.39818	0.078541	0.151071	0.586125	0.248445	-0.28814	0.157877	-0.18119	0.952032	0.026074	0.849849	0.114089
SLC7A9	-0.12128	0.162138	0.1462	-0.32225	0.373258	0.236938	0.282298	0.015432	-0.08314	-0.52181	0.167111	-0.34783	0.291393	1.00E-04	0.863725	0.008926
PWP1	-0.0819	0.299126	-0.36273	0.218139	0.544766	0.025122	0.005554	0.103076	-0.1751	0.531347	-0.2095	0.400483	0.122232	0.999928	0.083608	0.997092
TBC1D8	-0.27815	-0.01758	-0.09761	-0.17754	0.036169	0.89769	0.470064	0.186417	-0.32423	-0.03381	-0.10852	-0.14199	0.013964	0.411734	0.238983	0.173271
CHGB	-0.12534	0.137882	-0.0427	-0.25494	0.352899	0.310871	0.752463	0.055636	-0.09665	-0.19667	0.049837	-0.29646	0.261412	0.095098	0.627452	0.022718
CDC37	0.030164	0.116626	0.067777	0.044977	0.823741	0.392002	0.616411	0.739725	-0.00446	0.429213	-0.14413	0.338678	0.488278	0.998542	0.172426	0.989341
IL1RAPL1	0.120639	-0.38405	0.144833	0.096967	0.3758	0.003795	0.286869	0.477119	0.277018	-0.39731	0.280298	-0.20766	0.96728	0.003442	0.967328	0.085529
PKIG	0.099768	-0.38253	0.205607	-0.29647	0.464423	0.003948	0.128457	0.02651	-0.039	-0.63059	0.262617	-0.32284	0.398455	1.32E-06	0.95932	0.014323
MYST2	0.064252	0.030999	-0.16582	-0.05157	0.634902	0.82058	0.217666	0.703217	-0.20969	0.163116	-0.19816	0.017878	0.080955	0.860626	0.095968	0.546937
DMC1	0.188444	-0.05065	-0.01584	-0.27222	0.160375	0.710833	0.906883	0.040503	0.070593	-0.22824	0.159646	-0.15736	0.679461	0.063554	0.852575	0.148143
PLA2G16	-0.0109	-0.24668	0.001411	-0.07411	0.935883	0.066837	0.991686	0.583763	-0.1949	-0.18161	0.009106	-0.13215	0.097149	0.113535	0.523671	0.190652
GLMN	0.039135	0.315584	-0.23085	0.189819	0.772562	0.017825	0.084038	0.157289	-0.01433	0.511086	-0.05669	0.330446	0.462359	0.999858	0.355723	0.98755
HHLA3	-0.02474	-0.04763	0.123251	-0.20291	0.855069	0.727395	0.361032	0.130081	0.002921	-0.23001	0.191011	0.050658	0.507685	0.062051	0.895605	0.630937
HHLA2	-0.0543	-0.16685	0.037222	-0.25976	0.688292	0.219038	0.7834	0.051019	-0.15705	-0.36096	0.109141	-0.18247	0.148634	0.006861	0.762285	0.112423
BVES	0.319416	-0.25436	0.261027	0.013972	0.015439	0.05852	0.049856	0.917838	0.321569	-0.57554	0.28086	-0.46256	0.985342	1.43E-05	0.969179	0.000605
CORO1A	-0.1418	-0.35493	0.04626	0.51489	0.292705	0.007271	0.732577	4.17E-05	-0.27092	-0.21863	-0.03003	-0.04834	0.034296	0.072182	0.422375	0.374859
WDR45	-0.01469	-0.27419	0.137	0.088038	0.913652	0.040861	0.309529	0.51491	0.193609	-0.21276	0.098954	-0.22532	0.901339	0.077863	0.741092	0.066085
FICD	-0.01321	-0.15171	0.092527	0.127296	0.92301	0.268878	0.497613	0.349829	0.028986	-0.01227	0.026118	0.063942	0.575826	0.467743	0.567614	0.663551
AP4S1	0.103968	0.117014	0.00769	0.087324	0.441514	0.390419	0.954724	0.518336	0.027864	-0.11081	0.085665	0.056592	0.572921	0.231732	0.712096	0.645634
LDB3	0.149618	-0.2709	0.3525	-0.18937	0.266641	0.043443	0.007161	0.158293	0.309253	-0.60894	0.399714	-0.39271	0.981749	3.55E-06	0.996739	0.003471
PTP4A3	0.155727	-0.14908	0.196843	0.181659	0.247378	0.272824	0.142211	0.17625	0.322563	-0.21684	0.219119	-4.91E-05	0.985604	0.073881	0.925936	0.499871
LSM6	0.050723	0.136145	-0.16277	0.173261	0.707879	0.317065	0.226382	0.197438	-0.0992	0.40682	-0.08137	0.378874	0.255948	0.99749	0.297585	0.995291
CHI3L1	0.012421	-0.25201	0.168818	0.156569	0.926933	0.060975	0.209354	0.244801	0.411328	-0.38079	0.222508	-0.35802	0.997743	0.004517	0.9291	0.007283
ERLIN2	-0.12022	0.060394	-0.18708	-0.20781	0.37306	0.658374	0.163468	0.120856	-0.40737	0.248443	-0.28078	0.239462	0.002478	0.95203	0.030858	0.945514
C14orf1	-0.14098	0.086181	-0.12174	-0.01203	0.30001	0.531566	0.371409	0.929867	-0.35235	0.217637	-0.18136	0.163562	0.008163	0.926881	0.11658	0.861291
NUDT6	-0.10857	-0.16571	-0.09706	-0.12367	0.421435	0.222263	0.472585	0.359385	-0.12971	-0.28802	0.023358	-0.15809	0.197869	0.027519	0.559816	0.149822
NUDT5	-0.05036	0.154406	-0.27954	0.019682	0.709865	0.255856	0.035213	0.884462	-0.22748	0.436463	-0.25538	0.32435	0.064204	0.998787	0.045213	0.986066
NUDT3	0.142379	-0.04687	0.063333	0.017236	0.295201	0.734031	0.642849	0.899667	-0.02395	0.024872	-0.01746	0.124206	0.437964	0.564415	0.455214	0.791864
SOX21	-0.03214	0.372803	-0.16851	-0.30983	0.812372	0.00466	0.210188	0.019009	-0.25507	0.514552	-0.17568	0.23637	0.043558	0.999873	0.124179	0.943121
FSTL1	0.292857	-0.25565	0.06653	0.325355	0.027053	0.057213	0.622926	0.013528	0.341062	-0.11559	0.230127	0.15128	0.989818	0.222144	0.935844	0.84221
PSIP1	0.205684	0.009554	-0.0783	-0.00471	0.124799	0.944287	0.56265	0.97224	0.145088	-0.08218	0.175236	-0.07019	0.83199	0.293581	0.875211	0.32149
WDHD1	-0.05591	0.247115	-0.14691	-0.17836	0.682318	0.068929	0.279937	0.188437	-0.24284	0.57407	-0.30103	0.402741	0.053993	0.999981	0.022247	0.996955
CHI3L2	0.119525	-0.12835	0.23307	0.172404	0.380259	0.35035	0.083864	0.203874	0.116404	-0.16393	0.036295	0.004956	0.776816	0.140959	0.592469	0.512887
FAM107A	0.142751	-0.41373	0.245927	0.186675	0.289461	0.001527	0.065183	0.164408	0.407086	-0.53079	0.25352	-0.51584	0.997242	8.81E-05	0.953559	0.000144
STRAP	-0.03923	0.399878	-0.3604	0.225346	0.772032	0.002263	0.00589	0.091915	-0.04476	0.622293	-0.15473	0.393662	0.383857	0.999998	0.155082	0.996602
INSL6	-0.18336	0.047531	0.11676	-0.10886	0.172155	0.72794	0.387065	0.420197	-0.19478	-0.00235	-0.04176	-0.09918	0.097283	0.493826	0.392659	0.255991
ADAMTS7	0.001312	-0.19627	0.26412	-0.06626	0.992274	0.147129	0.047112	0.624349	0.184466	-0.51154	0.254494	-0.40252	0.890134	0.00014	0.954204	0.002775
ADAMTS6	0.315903	-0.12081	0.205555	0.024344	0.016673	0.375123	0.12504	0.857349	0.326177	-0.30053	0.170978	-0.0989	0.986525	0.021211	0.869275	0.25659
BAZ2A	0.054734	0.100245	-0.00137	0.099959	0.688674	0.466494	0.991977	0.463563	0.24409	0.214637	0.001901	0.150953	0.948952	0.92399	0.504944	0.841681

BAZ1A	-0.26437	0.444807	-0.37729	0.051179	0.046893	0.000593	0.003814	0.705369	-0.13967	0.383793	-0.1996	0.211269	0.177287	0.995769	0.094334	0.920646
LZTS1	-0.07691	-0.16658	0.207406	-0.11345	0.569579	0.219809	0.121605	0.400774	0.238996	-0.34533	0.200201	-0.19462	0.945158	0.009375	0.906347	0.097473
ZNF277	-0.02258	0.235166	-0.26959	0.149437	0.867619	0.081038	0.042559	0.267226	0.033186	0.335298	-0.02823	0.232332	0.586653	0.988634	0.426976	0.939876
CHIT1	-0.00264	-0.21529	0.046595	-0.19186	0.9846	0.114451	0.7331	0.156615	-0.11779	-0.23886	0.040424	-0.21181	0.217807	0.054949	0.603975	0.078808
WDR6	0.038703	0.005904	0.040737	0.163589	0.775007	0.965554	0.763517	0.224017	0.031372	0.327341	-0.20399	0.21633	0.581983	0.986811	0.089457	0.925631
TREH	-0.02055	-0.13545	0.157155	-0.29807	0.879386	0.319563	0.243016	0.024323	-0.0378	-0.39263	0.155428	-0.28323	0.401534	0.003478	0.846021	0.028235
SLC2A6	0.070258	-0.3171	0.349496	0.110335	0.603533	0.017253	0.007704	0.413896	0.113859	-0.42061	0.307517	-0.21631	0.774406	0.001804	0.980057	0.074388
MAP4K5	0.10412	0.227232	-0.17067	0.149421	0.440843	0.092142	0.204318	0.267278	0.350633	0.229486	0.04864	0.181093	0.991554	0.937506	0.62449	0.885787
MAP4K1	-0.11073	-0.20072	0.115748	0.493042	0.412206	0.137998	0.39122	9.76E-05	-0.07839	-0.08604	0.003955	0.080583	0.30228	0.284831	0.510286	0.702763
INMT	0.260862	-0.19632	0.215811	0.292901	0.052155	0.150849	0.110166	0.028472	0.27226	-0.39676	0.207299	-0.07559	0.966412	0.003167	0.914089	0.308791
RASSF1	-0.04017	-0.1939	0.216257	0.2463	0.766726	0.152163	0.106156	0.064763	0.095801	-0.23489	0.08536	-0.15837	0.736742	0.05805	0.711414	0.146582
PKP3	-0.09153	0.235303	-0.09597	-0.18723	0.498322	0.080857	0.477605	0.163131	-0.16987	0.466238	-0.20622	0.245655	0.129529	0.999454	0.087057	0.950076
NISCH	0.046617	-0.09195	0.035681	0.051691	0.730593	0.500295	0.792164	0.702559	0.153612	-0.0329	-0.05852	-0.02276	0.845956	0.414072	0.3513	0.440324
TNRC4	-0.03691	-0.06802	0.167378	-0.1722	0.785191	0.61843	0.213323	0.200229	0.170914	-0.35611	0.101039	-0.31735	0.871954	0.00757	0.745505	0.015816
CHKA	0.047674	-0.28263	0.115175	0.028158	0.724719	0.03481	0.393585	0.835292	0.197836	-0.31483	0.130441	-0.36822	0.906237	0.016544	0.803463	0.005905
CEP250	-0.20274	-0.08663	-0.10616	-0.43242	0.130402	0.525535	0.431879	0.000782	-0.50549	-0.06521	0.018284	-0.09873	0.00017	0.333391	0.547446	0.256937
WBP4	0.037885	0.073699	-0.17692	0.043538	0.779636	0.58933	0.188006	0.747775	0.200076	0.249333	0.110797	0.122744	0.908761	0.952642	0.765643	0.791793
ABC8	-0.12035	-0.17242	0.160661	-0.1599	0.372519	0.203843	0.232529	0.234766	-0.18294	-0.16264	-0.0797	-0.23236	0.111821	0.140092	0.301383	0.060104
SEC23IP	-0.04497	0.276995	-0.15292	0.109512	0.739758	0.03876	0.256117	0.417411	0.049682	0.253893	-0.10699	0.239292	0.628502	0.955681	0.242114	0.945384
WIF1	0.304315	-0.33054	0.200371	-0.28686	0.021363	0.012841	0.135057	0.030504	0.39437	-0.46309	0.209761	-0.38007	0.996326	0.000679	0.914124	0.005008
SUPT16H	0.055424	0.228866	-0.32643	0.135908	0.682182	0.089763	0.013206	0.313437	-0.01138	0.430401	-0.07273	0.330506	0.470092	0.998585	0.317465	0.987563
ANXA10	-0.13548	0.301397	-0.22233	-0.30432	0.319475	0.025341	0.099568	0.022586	-0.02396	0.032661	-0.09793	-0.13725	0.437217	0.585303	0.26108	0.181516
ADCY6	0.050928	-0.10331	0.189992	-0.0233	0.70675	0.448619	0.156906	0.863407	0.040177	0.023268	-0.16795	-0.07646	0.603353	0.560294	0.137908	0.308824
CHKB	-0.15455	0.022637	0.009411	0.047586	0.251011	0.868471	0.944607	0.725211	-0.0655	0.08688	-0.14365	0.130038	0.332704	0.717056	0.173253	0.805478
CHEK2	-0.06098	0.280774	-0.35965	0.169673	0.652286	0.036073	0.006	0.207022	-0.13117	0.538289	-0.23164	0.482991	0.192454	0.999943	0.062873	0.999663
POLI	0.011063	-0.0624	0.052427	0.0594	0.934906	0.647761	0.698527	0.660725	0.066223	-0.19497	0.124082	-0.09952	0.669041	0.097061	0.79163	0.255265
KLK8	0.079648	-0.03676	0.081711	-0.30903	0.555897	0.787958	0.545679	0.019335	0.075786	-0.22973	0.271875	-0.23449	0.691667	0.062289	0.964593	0.058375
CHM	0.018716	0.173232	-0.25228	0.153522	0.890094	0.201677	0.058332	0.254218	0.092892	0.359117	0.067134	0.23713	0.730398	0.992877	0.669369	0.943716
FZD10	-0.00597	0.134124	0.064973	-0.08773	0.964859	0.324369	0.631103	0.516377	-0.07258	0.125257	-0.0624	-0.04832	0.315844	0.79657	0.341938	0.374898
PROSC	-0.26109	0.148715	-0.26948	0.111555	0.051946	0.27854	0.044593	0.413053	-0.06411	0.143582	-0.27289	0.28605	0.336052	0.829442	0.034861	0.973021
IRAK3	-0.17335	0.09991	0.003429	0.48259	0.19721	0.463783	0.979805	0.000144	0.094274	0.268164	-0.06586	0.214669	0.73342	0.964218	0.333653	0.924021
AKAP13	-0.0043	0.338029	-0.1441	0.208131	0.974667	0.010834	0.284883	0.120278	0.251633	0.177024	-0.06137	0.137546	0.952288	0.877648	0.346157	0.81621
AKAP11	0.045549	0.118506	-0.14247	0.107489	0.736534	0.384363	0.290419	0.426114	0.013758	0.232655	0.017448	0.188364	0.536154	0.94014	0.545286	0.895014
AKAP10	0.001491	0.158304	-0.23943	0.123792	0.991218	0.243902	0.072851	0.358911	-0.00042	0.308787	-0.14016	0.181983	0.498902	0.981601	0.179229	0.886945
DDX20	-0.09654	0.081231	-0.30598	0.279315	0.475007	0.551741	0.020626	0.035366	-0.2614	0.244913	-0.25296	0.386531	0.039652	0.949545	0.046815	0.996016
TREX2	0.058928	-0.16557	0.284394	-0.19191	0.663259	0.222645	0.032029	0.152692	-0.0042	-0.36021	0.16558	-0.30685	0.488961	0.006966	0.861485	0.019029
CHML	0.027629	0.323473	-0.25875	0.230895	0.838343	0.015023	0.051958	0.083982	0.023179	0.491879	-0.14529	0.330031	0.560763	0.999742	0.170479	0.987453
DUSP10	-0.10413	0.002113	-0.19553	-0.04455	0.440805	0.987667	0.14494	0.742114	-0.27069	0.253331	-0.03921	0.181954	0.034418	0.955315	0.399086	0.886907
MRPL3	0.005593	0.410378	-0.2358	0.243691	0.967061	0.001682	0.077426	0.067743	0.05992	0.551609	-0.16824	0.458642	0.653788	0.999965	0.134646	0.999326
RPL35	0.095117	0.185903	-0.2145	0.159527	0.481554	0.170131	0.109095	0.235887	-0.02779	0.517897	-0.38447	0.392682	0.42727	0.999886	0.004559	0.996527
GALNT6	-0.03177	0.078968	0.166071	-0.07743	0.816173	0.566587	0.221235	0.570582	-0.14357	0.163531	-0.17791	0.07486	0.170585	0.861245	0.121161	0.689504
GALNT5	-0.02733	0.520146	-0.22954	-0.05372	0.840079	3.98E-05	0.085865	0.691476	-0.05978	0.683226	-0.30649	0.384699	0.346564	1	0.020294	0.995852
RASSF8	0.295567	-0.27308	0.117915	0.156179	0.025603	0.041717	0.382353	0.245992	0.426351	-0.425	0.217644	-0.28388	0.998434	0.001619	0.924527	0.027945
CHN1	0.199497	-0.08775	0.021109	0.362946	0.136803	0.520186	0.876144	0.005524	0.308026	-0.01921	0.197544	0.239999	0.981355	0.449581	0.903326	0.945922
PRAF2	0.063925	0.048764	0.136985	0.042635	0.636633	0.721168	0.309583	0.752839	-0.05739	0.138394	0.015845	-0.02623	0.3524	0.820488	0.541142	0.431314
SEC63	0.11479	0.152062	-0.07491	0.162028	0.39518	0.263231	0.579695	0.228528	0.168811	0.182098	0.025118	0.170217	0.868961	0.887094	0.565047	0.870967
POLG2	-0.13974	0.251104	-0.1167	0.228459	0.299874	0.061938	0.387319	0.087396	0.04542	0.138205	-0.03559	0.084525	0.617809	0.820157	0.408221	0.71175
HPS5	0.03566	0.183332	-0.13309	0.21986	0.792285	0.17622	0.323667	0.10032	0.107237	0.258865	-0.11581	0.110411	0.760945	0.958818	0.224348	0.76745
PDCD10	0.016675	0.246895	-0.22346	0.091336	0.902017	0.066589	0.094735	0.499226	-0.00878	0.339625	-0.18698	0.24685	0.476909	0.989533	0.109374	0.950921
RNF139	0.047853	0.238001	-0.28095	0.103594	0.723727	0.077338	0.034263	0.443167	-0.003	0.413952	-0.11954	0.234756	0.4921	0.99788	0.217057	0.94184

RNF24	0.059857	0.167847	-0.12372	0.277484	0.658276	0.216268	0.359189	0.036638	0.098881	0.328605	0.023983	0.218052	0.743377	0.987116	0.562132	0.927274
CA5B	0.033004	-0.01879	0.022087	-0.04904	0.80745	0.890666	0.870455	0.717144	0.030172	0.045189	0.136082	0.067101	0.578889	0.617225	0.813625	0.671144
EGLN2	-0.11875	-0.11013	-0.05027	0.006565	0.378976	0.419067	0.710356	0.961347	-0.25413	0.008998	-0.15199	0.035732	0.044167	0.523664	0.159464	0.593188
EGLN3	-0.07373	-0.40166	0.075875	-0.1003	0.589161	0.00237	0.578351	0.46203	0.075932	-0.6378	0.054433	-0.56019	0.692006	9.33E-07	0.638756	2.58E-05
CHN2	0.027884	-0.12773	0.125909	-0.34946	0.83687	0.348181	0.350689	0.00771	-0.08902	-0.40006	0.169632	-0.25362	0.278167	0.002937	0.867361	0.0445
PADI2	0.158916	-0.3275	0.281706	0.061246	0.23771	0.013744	0.033761	0.650854	0.201022	-0.46008	0.244406	-0.36312	0.909812	0.000648	0.947173	0.006563
BIRC8	0.049809	-0.116	0.199121	-0.18802	0.712911	0.394575	0.137561	0.161333	0.168242	-0.18684	0.147477	-0.33319	0.868144	0.106874	0.83317	0.011828
PMF1	0.086809	0.018197	-0.09573	0.080966	0.520819	0.894102	0.478706	0.549361	0.080603	0.361859	-0.13021	0.118465	0.702811	0.993265	0.196954	0.783517
ZHX1	-0.03756	0.184595	-0.20555	0.183895	0.781482	0.17321	0.125056	0.170897	0.264476	0.12552	-0.06788	0.004287	0.962148	0.797064	0.328863	0.511279
GPR176	0.245386	-0.10412	0.260807	0.178874	0.065794	0.445046	0.050056	0.183086	0.365313	-0.21667	0.179382	-0.11369	0.993728	0.074042	0.880814	0.225936
PRKCDBP	0.372986	-0.28132	0.325234	0.032766	0.00427	0.035697	0.013565	0.808809	0.250081	-0.34899	0.373199	-0.07894	0.953151	0.008725	0.994215	0.30102
NXPH4	-0.06963	-0.02458	0.222177	-0.10329	0.606794	0.857294	0.096699	0.444498	0.115022	-0.28454	0.138311	-0.43607	0.774088	0.029084	0.814701	0.001375
PRRT2	0.095071	-0.2845	0.29649	-0.2596	0.485814	0.035275	0.026498	0.053345	0.04712	-0.42854	0.25292	-0.3275	0.622084	0.001483	0.953157	0.013151
ERI2	-0.0812	0.220313	-0.16731	-0.22706	0.548198	0.102763	0.213509	0.089406	0.032644	0.301029	-0.13817	0.120325	0.58526	0.978969	0.18269	0.787137
NXPH3	0.246146	-0.33189	0.23902	0.033461	0.064936	0.012457	0.073352	0.80483	0.348273	-0.31344	0.176384	-0.15696	0.991151	0.016955	0.876779	0.148762
SAT2	0.08755	-0.30226	0.173154	-0.12711	0.517253	0.023564	0.19772	0.346071	0.258115	-0.32924	0.117454	-0.28966	0.958357	0.012733	0.778875	0.025435
C14orf126	-0.02146	0.260806	-0.24238	0.045511	0.874102	0.052208	0.069283	0.736747	-0.15254	0.460127	-0.18533	0.379075	0.155763	0.999353	0.111449	0.995312
NXPH2	0.070118	-0.04203	0.147869	-0.25608	0.604256	0.758425	0.272335	0.054514	0.096834	-0.28173	0.194207	-0.26452	0.738977	0.028924	0.899433	0.037828
GTF3C6	-0.04488	-0.1171	-0.00723	-0.21445	0.742584	0.39455	0.957827	0.11248	-0.01778	-0.1652	0.173969	-0.15914	0.453312	0.13629	0.873464	0.145402
GPR45	0.085936	0.070217	0.145166	-0.24016	0.52886	0.610463	0.28575	0.074608	0.165121	-0.22463	0.260216	-0.1901	0.863599	0.0667	0.957857	0.102866
GPR44	-0.00514	-0.01526	0.337423	-0.11912	0.969751	0.911138	0.010264	0.377488	0.21313	-0.33903	0.171369	-0.2993	0.922507	0.010587	0.869828	0.021657
PACSIN2	-0.23877	-0.06514	-0.18629	-0.13543	0.073662	0.633397	0.1653	0.315154	-0.06788	-0.01368	-0.07336	-0.22713	0.326985	0.464059	0.316011	0.064509
MAN1B1	-0.08049	-0.1106	0.203809	-0.18583	0.551702	0.417104	0.128349	0.166366	-0.1529	-0.04628	-0.1985	-0.16613	0.155185	0.380023	0.095578	0.134919
SLC6A14	0.018479	0.321136	-0.25843	0.315365	0.891481	0.015811	0.052256	0.01687	-0.19185	0.53186	-0.10196	0.379794	0.100752	0.999929	0.252554	0.995384
HRH3	-0.22785	-0.09318	0.078573	-0.21021	0.091235	0.494573	0.564877	0.119945	0.159865	-0.40616	0.175707	-0.34106	0.855714	0.002549	0.875856	0.010182
SNX18	-0.09704	-0.243	0.157145	-0.03255	0.472676	0.071137	0.243047	0.810028	0.15352	-0.33315	0.117593	-0.31655	0.845809	0.011835	0.779147	0.016043
DCTN3	-0.01882	0.13454	-0.33909	0.059704	0.88949	0.32286	0.009871	0.659095	-0.03936	0.352777	-0.20838	0.211347	0.39755	0.991907	0.084777	0.920725
FILIP1L	0.273797	-0.26202	0.171079	0.21604	0.039314	0.051079	0.203227	0.106515	0.216605	-0.40408	0.313909	-0.15514	0.925895	0.002676	0.982132	0.151618
XPOT	-0.12261	0.449587	-0.23075	0.130382	0.367994	0.000574	0.087078	0.338172	0.036033	0.451868	-0.13623	0.29405	0.593959	0.99919	0.186107	0.976347
MRAP2	-0.07568	0.323178	-0.21592	-0.35903	0.575787	0.015121	0.106714	0.006095	-0.19495	0.365833	-0.04628	0.223406	0.099687	0.99327	0.382745	0.929921
CHP	-0.11357	0.454797	-0.21563	0.1757	0.404627	0.000486	0.110465	0.195228	-0.0974	0.613186	-0.24018	0.388125	0.259809	0.999997	0.056007	0.996154
RWDD2A	0.030912	-0.0414	0.103249	0.099012	0.819441	0.761947	0.444694	0.463699	0.257107	-0.11867	-0.02842	-0.06502	0.95773	0.216092	0.426479	0.333843
CMTM7	0.191392	-0.0534	0.188668	0.274189	0.157643	0.695881	0.163752	0.040861	0.047814	0.189631	0.064538	0.313162	0.623827	0.896568	0.663191	0.982961
SP140	-0.13017	-0.21326	-0.02665	0.408749	0.338963	0.117987	0.845394	0.001762	0.007746	-0.25881	0.170981	-0.23127	0.520139	0.043021	0.866437	0.063186
PXMP4	0.017443	-0.02327	-0.1692	-0.14335	0.897529	0.864828	0.208313	0.287405	-0.16084	0.24448	-0.0806	-0.04602	0.142805	0.949233	0.299325	0.380686
DUSP12	-0.08446	0.352052	-0.13667	0.29447	0.532187	0.007794	0.310688	0.026182	-0.08842	0.395557	-0.19129	0.262639	0.281773	0.996422	0.106775	0.959334
SNF8	-0.08072	0.070886	-0.15436	-0.07292	0.550594	0.603654	0.251596	0.589855	-0.25487	0.216253	-0.35351	0.092916	0.043689	0.925557	0.008606	0.730449
DDX19B	0.167231	-0.0609	-0.0594	-0.1514	0.21373	0.655713	0.660726	0.260932	-0.05409	0.216049	-0.00503	0.078389	0.362088	0.922981	0.487067	0.695619
NRM	0.133926	0.23218	0.001776	0.054594	0.320611	0.085086	0.989537	0.686695	0.042692	0.32535	-0.01089	0.328904	0.610918	0.986319	0.471695	0.987187
FAM71E1	-0.05437	-0.16088	0.182024	-0.28401	0.687899	0.236223	0.175369	0.032273	0.09359	-0.41822	0.131089	-0.41033	0.731927	0.001912	0.804648	0.002311
TUBA3E	-0.1246	-0.10402	0.073246	-0.19837	0.355742	0.445513	0.588183	0.139083	-0.03396	-0.13939	0.114829	-0.14283	0.411355	0.177763	0.773708	0.17183
PRR4	0.233668	-0.38077	0.247781	0.046201	0.080226	0.003791	0.063118	0.732903	0.245318	-0.35177	0.427156	-0.25867	0.949835	0.008258	0.998286	0.041301
RDH13	-0.20267	0.246413	-0.00573	-0.10458	0.130545	0.067139	0.966244	0.438836	-0.08501	0.242165	-0.14006	-0.01826	0.287159	0.947542	0.179405	0.452061
ATXN2L	-0.0588	0.001628	0.007615	0.015021	0.663926	0.990497	0.955169	0.911698	-0.03341	0.246568	-0.08048	0.136945	0.41277	0.950722	0.299599	0.817936
USP18	-0.24835	-0.15366	0.040108	-0.02882	0.064951	0.262701	0.769151	0.832982	-0.18038	0.035079	-0.1621	0.165174	0.115143	0.591513	0.143692	0.863678
IL17F	0.144407	-0.05883	0.294682	-0.22644	0.288304	0.669632	0.027477	0.093315	0.246013	-0.32077	0.196183	-0.20379	0.95033	0.014872	0.901752	0.087163
KLHL2	-0.14511	0.309362	-0.34586	0.072271	0.281484	0.020337	0.008408	0.593174	-0.14205	0.35451	-0.26418	0.12829	0.173166	0.992182	0.039747	0.802247
C14orf179	-0.18653	-0.17165	-0.11357	-0.21467	0.164746	0.205888	0.400239	0.108813	-0.30876	-0.14028	-0.13073	-0.02558	0.018407	0.176226	0.196009	0.432992
STX1B	0.077719	-0.10972	0.323441	-0.09106	0.565537	0.420833	0.01412	0.500533	0.321034	-0.3449	0.187263	-0.30496	0.985199	0.009452	0.890985	0.019662
AP1GBP1	0.001507	0.044635	-0.1867	0.32877	0.991207	0.746256	0.168276	0.013361	-0.10658	0.481169	-0.10829	0.360428	0.240414	0.999644	0.23944	0.993065

TREX1	-0.11262	0.107889	0.038579	-0.01914	0.404252	0.428669	0.775708	0.887643	-0.14909	0.32706	-0.14085	0.271626	0.161359	0.986743	0.178035	0.966079
C1orf85	-0.10745	0.170951	-0.07741	0.033831	0.426276	0.207769	0.567113	0.80272	-0.06333	0.387186	-0.19108	0.270189	0.337921	0.996073	0.10431	0.965316
KLF12	0.16431	-0.21105	0.072805	-0.01723	0.221953	0.118431	0.590437	0.898802	0.012188	-0.20947	0.124708	0.004295	0.531667	0.083643	0.79004	0.511169
KLF8	0.150494	0.318503	0.000923	-0.06343	0.268245	0.017792	0.994612	0.642366	0.075287	0.470116	-0.16874	0.271856	0.690502	0.999511	0.133921	0.9662
CHRM1	0.16718	-0.30086	0.307827	-0.09899	0.213871	0.024251	0.019836	0.463819	0.34105	-0.38464	0.211891	-0.32039	0.989815	0.004153	0.918844	0.014973
SCN11A	-0.08324	-0.21466	0.162047	-0.39557	0.53814	0.11213	0.228472	0.002322	-0.03842	-0.55671	0.035184	-0.41441	0.39995	2.94E-05	0.590741	0.002097
KRT71	-0.0848	-0.18384	0.122578	-0.18041	0.534363	0.179079	0.368119	0.183342	0.093801	-0.23531	0.111083	-0.2195	0.732387	0.057715	0.766219	0.071368
POU6F2	-0.06019	-0.0356	0.181237	-0.23102	0.656473	0.794483	0.177274	0.083812	0.037854	-0.35837	0.218315	-0.31227	0.598614	0.007232	0.92517	0.017308
FDX1L	-0.00668	-0.25348	0.19312	-0.05713	0.960648	0.059429	0.150063	0.672947	0.08934	-0.12444	0.090514	-0.1162	0.722552	0.204974	0.722846	0.220935
C10orf65	-0.14735	0.06694	0.039528	-0.43894	0.2785	0.627261	0.772395	0.000714	0.092845	-0.34472	0.113277	-0.36969	0.730293	0.009487	0.77062	0.005726
MGAT4B	-0.02652	0.228849	-0.02342	-0.02727	0.844759	0.089788	0.862703	0.840442	-0.1668	0.496007	-0.25329	0.239279	0.133939	0.999772	0.046597	0.945375
CYP4F8	-0.172	-0.12192	0.124319	-0.17728	0.200767	0.370725	0.356853	0.187091	0.01866	-0.27428	0.117234	-0.2987	0.548981	0.032549	0.778444	0.021878
PNKP	-0.0707	-0.14958	0.235053	-0.2032	0.604617	0.275707	0.081189	0.133084	-0.06794	-0.2377	0.043683	-0.18472	0.326848	0.055837	0.61215	0.109546
WDR89	0.034214	0.147329	-0.10905	0.218725	0.80053	0.278557	0.41939	0.10213	0.156108	0.183103	-0.03072	0.16958	0.8499	0.888391	0.420615	0.870061
C14orf149	-0.01648	0.080353	0.085198	0.016668	0.903181	0.556066	0.52861	0.902058	-0.0528	-0.04295	-0.00096	-0.05371	0.363735	0.388438	0.497509	0.361482
B4GALT7	-0.0061	-0.10787	0.031651	0.076697	0.964095	0.428745	0.815199	0.570674	-0.08175	0.130733	-0.20414	0.131105	0.294554	0.806754	0.0893	0.807435
TP53RK	-0.25409	0.1572	-0.21419	-0.06116	0.056487	0.24725	0.109623	0.651326	-0.25766	0.028258	-0.20889	-0.04934	0.041926	0.573941	0.084244	0.372349
CCDC101	-0.10003	0.076983	-0.03387	-0.08924	0.459089	0.572801	0.802507	0.50916	-0.20991	0.403343	-0.08343	0.299741	0.080737	0.997278	0.29292	0.978504
PHF21B	0.017482	-0.10119	0.271567	-0.14887	0.897299	0.458043	0.041009	0.269063	0.122832	-0.46017	0.278628	-0.33163	0.791961	0.000646	0.968087	0.012178
CHRM2	0.065158	-0.08167	0.172431	-0.28759	0.630131	0.549593	0.199628	0.030064	0.044459	-0.28014	0.192283	-0.23299	0.615386	0.029669	0.89714	0.059584
VPS26B	-0.01938	0.137887	-0.11919	-0.04517	0.886234	0.310854	0.377199	0.738628	0.008325	0.444297	-0.2228	0.183223	0.521895	0.99901	0.070632	0.888546
GLB1L3	0.017503	-0.01404	0.041342	0.307978	0.897177	0.918227	0.760109	0.019773	0.318741	-0.24212	0.166593	-0.10045	0.983579	0.054527	0.86011	0.255738
NACC1	-0.08003	0.248808	-0.02157	-0.13721	0.554007	0.064442	0.873447	0.308788	-0.12528	0.441635	-0.10441	0.299954	0.203381	0.998939	0.247434	0.978582
CCDC104	-0.15391	-0.0569	-0.06776	-0.22395	0.253006	0.676997	0.616476	0.094	-0.25338	-0.18138	-0.02394	-0.08384	0.044651	0.113839	0.43799	0.289804
MED8	0.084377	0.309195	-0.14447	0.170809	0.532607	0.020409	0.283624	0.203952	0.178476	0.31928	-0.03153	0.187923	0.882332	0.984723	0.418541	0.89447
KTI12	-0.18805	0.475491	-0.25063	0.267308	0.161277	0.000213	0.060055	0.044414	-0.05123	0.551378	-0.1328	0.294271	0.367647	0.999964	0.192242	0.976434
ADCY7	-0.02673	-0.19426	0.064076	0.415474	0.843523	0.151399	0.635831	0.001309	-0.04432	0.068355	0.028008	0.157492	0.384976	0.674142	0.572458	0.852059
LYST	0.179534	0.0277	-0.05128	-0.00714	0.181447	0.839409	0.704829	0.957957	0.301567	-0.27461	0.151789	-0.22237	0.979161	0.032379	0.84022	0.068727
RPUSD1	-0.1145	0.142245	0.055295	-0.05609	0.396378	0.295659	0.682882	0.678553	-0.06868	0.195253	-0.09421	0.071218	0.325082	0.903265	0.269081	0.680941
PLCD3	-0.03226	0.196928	-0.11646	-0.15595	0.811729	0.145745	0.388285	0.246699	0.104214	0.325406	-0.09979	0.12398	0.754665	0.986333	0.257144	0.79415
SLCO2B1	0.077441	-0.27634	0.123681	0.529371	0.566931	0.039245	0.359347	2.30E-05	-0.08972	0.163761	0.061203	0.464882	0.276608	0.861587	0.655195	0.999433
PTH2	-0.0644	-0.1293	0.235161	-0.15587	0.634117	0.342226	0.078259	0.246941	0.02248	-0.35468	0.146699	-0.27453	0.558942	0.007792	0.831878	0.032422
CHRM3	0.334626	-0.20714	0.306869	-0.0098	0.010953	0.125576	0.020243	0.942332	0.345801	-0.2049	0.318385	-0.22529	0.99001	0.088478	0.98241	0.068381
VPS45	0.020232	0.239109	-0.19549	0.114033	0.881254	0.075928	0.145028	0.398324	0.07347	0.334857	-0.09236	0.241399	0.686248	0.988539	0.27312	0.946973
FAM54A	-0.13885	0.250562	-0.18256	-0.23517	0.307454	0.065024	0.178085	0.081028	-0.07938	0.413486	-0.30232	0.202489	0.300004	0.997857	0.021772	0.911425
LYPLA2	-0.15034	0.244857	-0.0767	-0.18515	0.264314	0.068941	0.570651	0.16795	-0.2257	0.254624	-0.32008	0.103216	0.068011	0.95429	0.017083	0.750073
CDCA5	-0.04239	0.07943	-0.03398	-0.13901	0.754204	0.560625	0.80189	0.302426	-0.05215	0.275321	-0.13787	0.190252	0.365356	0.96798	0.183221	0.897323
CD300A	-0.16665	-0.33793	0.024486	0.229128	0.215353	0.010858	0.856526	0.086448	-0.20142	-0.30362	0.181035	-0.1824	0.092286	0.0213	0.880208	0.115213
AHNAK2	-0.04185	0.29527	-0.3204	-0.31043	0.75723	0.027156	0.015107	0.018764	-0.03527	0.302173	-0.08645	-0.07547	0.407996	0.979376	0.28616	0.309074
PARK7	0.015718	0.112957	-0.27872	0.042498	0.907614	0.407168	0.035774	0.753609	-0.11389	0.395186	-0.25026	0.294287	0.228167	0.996392	0.050668	0.975135
COPE	-0.12457	0.107942	-0.03114	-0.01609	0.355879	0.428441	0.81813	0.905429	-0.26988	0.439865	-0.20247	0.194647	0.03485	0.998889	0.091123	0.902558
RBPJL	-0.13745	0.000903	0.225985	-0.13162	0.307918	0.994732	0.090971	0.329098	0.08646	-0.31825	0.157007	-0.29889	0.716113	0.015563	0.848496	0.021808
SAAL1	-0.02383	0.267876	-0.26523	0.223177	0.860344	0.04593	0.046157	0.095168	-0.052	0.448557	-0.06995	0.248332	0.367225	0.999	0.325918	0.950001
C19orf36	-0.02503	-0.18708	0.221878	-0.16591	0.853362	0.167398	0.097161	0.217421	0.141358	-0.43279	0.234147	-0.40489	0.825638	0.001332	0.939203	0.002626
SCAMP4	-0.25127	-0.10295	-0.01995	-0.16926	0.061756	0.454489	0.883957	0.212372	-0.29368	-0.04699	-0.00172	-0.19631	0.025113	0.379599	0.495581	0.098102
ADAT3	-0.12818	-0.11064	0.127794	-0.15449	0.342006	0.41694	0.343466	0.251204	0.086984	-0.32375	-0.02706	-0.3096	0.71729	0.014088	0.429978	0.01814
GPR182	0.070091	-0.21217	0.194396	-0.25482	0.604396	0.116445	0.147336	0.05576	0.070171	-0.36614	0.252169	-0.38435	0.678461	0.006166	0.952652	0.004179
CHST14	0.130285	-0.15757	0.314188	-0.08222	0.334062	0.246133	0.017307	0.543153	0.068037	-0.39665	0.144177	-0.30051	0.673381	0.003175	0.827645	0.021217
ECD	-0.01292	0.292913	-0.2821	0.22972	0.923979	0.028465	0.033502	0.085615	-0.0029	0.438929	-0.13477	0.345291	0.492379	0.998862	0.188711	0.990619
CHRM4	0.172813	-0.28539	0.403087	-0.08508	0.198617	0.033001	0.001878	0.529197	0.15204	-0.13953	0.286416	-0.05219	0.843437	0.17752	0.971768	0.365252

MGAT4A	0.065295	0.111983	-0.13819	0.396829	0.629407	0.411253	0.305287	0.002242	0.256934	-0.00135	0.07098	0.139868	0.955791	0.496495	0.676469	0.820265
CASC4	0.027582	0.12044	-0.03432	-0.14087	0.838613	0.376593	0.799916	0.295912	-0.00479	-0.05776	0.066664	0.0006	0.487397	0.35149	0.668255	0.501579
GPN1	-0.04622	0.230518	-0.40247	0.176219	0.732826	0.087407	0.001911	0.189778	-0.24774	0.534656	-0.30295	0.39079	0.048455	0.999935	0.021542	0.996376
TMC6	0.032322	-0.16777	0.197525	0.284021	0.811353	0.216478	0.140807	0.032265	0.097421	-0.02698	0.175023	0.106939	0.740243	0.429362	0.874919	0.76033
KIF12	-0.015	-0.02503	0.231896	-0.27813	0.911792	0.854686	0.082611	0.036188	0.150852	-0.41068	0.181157	-0.34873	0.841518	0.002292	0.883158	0.00877
LOC11323C	-0.12403	-0.05972	0.142475	-0.38613	0.357974	0.661936	0.290405	0.003011	0.018562	-0.41067	0.108161	-0.41775	0.548724	0.002292	0.760288	0.001934
SLC46A1	0.096802	-0.11047	0.284064	-0.19036	0.473787	0.417644	0.032238	0.156087	0.039652	-0.26917	0.037367	-0.23389	0.603199	0.035234	0.596267	0.058854
C12orf57	0.089798	0.065083	-0.17551	0.162027	0.506509	0.633679	0.191582	0.22853	-0.02109	0.271881	-0.30148	0.329343	0.44532	0.964597	0.023365	0.986419
DDX42	0.035069	0.135019	-0.13316	0.058065	0.795652	0.321122	0.323429	0.667898	0.008612	0.1538	-0.03262	0.163028	0.522649	0.846255	0.41576	0.860494
LARP4	-0.02528	0.246273	-0.23962	0.18926	0.851905	0.0673	0.072614	0.158539	0.065996	0.431334	-0.12859	0.292581	0.668495	0.998618	0.199933	0.975763
VSIG4	0.011396	-0.16366	0.239852	0.139546	0.932951	0.228118	0.072326	0.300537	0.082258	-0.34293	0.293705	-0.15652	0.706597	0.009822	0.974898	0.149459
GLCC1	-0.07136	0.193502	0.013392	0.085587	0.597826	0.153027	0.921237	0.526723	-0.22997	0.311679	-0.05005	0.294667	0.062088	0.982509	0.372022	0.976589
TMEM106A	-0.05699	-0.15346	0.136158	0.258922	0.673712	0.25881	0.312541	0.051797	0.234526	0.051763	0.24993	0.166592	0.941656	0.633689	0.951119	0.865754
C20orf54	-0.15483	0.178969	0.107325	-0.02065	0.250156	0.186915	0.426826	0.87884	-0.04785	0.201511	0.060559	0.161991	0.376085	0.910352	0.653643	0.858938
FKBP9	-0.04319	0.198194	-0.08408	0.022684	0.749732	0.14312	0.534075	0.866987	-0.2535	0.259649	-0.24859	0.081295	0.044574	0.959297	0.04982	0.704396
STK38	-0.06947	0.405237	-0.15531	-0.02298	0.610923	0.001947	0.25305	0.866513	-0.1901	0.458214	-0.17099	0.240578	0.102862	0.999318	0.130711	0.946359
CHRM5	0.081661	-0.0713	0.275644	-0.27931	0.545927	0.601537	0.037954	0.035367	0.078551	-0.29596	0.06872	-0.2691	0.698084	0.022909	0.673122	0.035269
CTRC	-0.04818	-0.08381	0.223677	-0.20085	0.721908	0.539126	0.094411	0.134114	0.080263	-0.23032	0.111325	-0.24576	0.702028	0.061791	0.766706	0.049847
PHB2	0.037157	0.272249	-0.18395	0.273425	0.785714	0.044343	0.17474	0.041449	-0.06383	0.712703	-0.33109	0.468095	0.336708	1	0.013155	0.999482
ACOT7	-0.0345	-0.12263	0.117336	-0.07701	0.800686	0.372433	0.389107	0.572689	-0.16003	0.118523	-0.07371	-0.01459	0.144038	0.783629	0.315186	0.461677
PDAP1	-0.11536	-0.11462	-0.01822	-0.06138	0.392832	0.400242	0.893003	0.650146	-0.04356	0.111514	0.083407	-0.00178	0.386881	0.769686	0.707026	0.495328
TUSC2	-0.20104	-0.05265	0.07252	-0.26719	0.137352	0.702635	0.595312	0.046514	-0.16684	-0.35227	0.180673	-0.35705	0.136669	0.008817	0.87973	0.008026
CBX3	0.015936	0.297199	-0.24648	0.037297	0.906342	0.026122	0.064558	0.782976	-0.04743	0.286926	-0.20369	0.233274	0.37713	0.973403	0.089784	0.940645
EXOC3	-0.12499	0.175112	-0.0375	-0.22773	0.35423	0.196751	0.781814	0.088444	-0.23458	0.234676	-0.13577	-0.0421	0.060441	0.939635	0.189777	0.391817
GABARAP	-0.05614	-0.06479	-0.04257	-0.15365	0.678288	0.635184	0.753181	0.253832	-0.11123	-0.10809	-0.14478	-0.08261	0.230884	0.237295	0.171336	0.2926
U2AF2	-0.18868	-0.05567	-0.05816	-0.01793	0.159846	0.683635	0.667369	0.894708	-0.2571	0.22373	-0.18194	0.16312	0.042276	0.9325	0.115818	0.860632
OIP5	0.039952	0.077268	0.039576	-0.06349	0.767945	0.571375	0.770066	0.638952	-0.07743	0.252475	-0.10087	0.156944	0.30452	0.954753	0.254853	0.851207
CHRNA1	0.020205	-0.19594	0.286878	-0.09274	0.882496	0.151653	0.03206	0.496619	0.117048	-0.41801	0.243036	-0.18542	0.77808	0.002137	0.944043	0.111339
EXOSC8	0.053443	0.179862	-0.06932	0.064514	0.692969	0.184691	0.608408	0.633521	0.004128	0.407941	-0.04854	0.268685	0.51086	0.997555	0.375763	0.964503
SFT2D1	0.09471	0.134555	-0.19916	0.298732	0.483441	0.322806	0.137489	0.023994	0.046473	0.394886	-0.14467	0.348569	0.62046	0.996695	0.171527	0.991203
SCRG1	0.299859	-0.22574	0.222226	-0.20259	0.024751	0.097489	0.099736	0.134274	0.272	-0.21694	0.262187	-0.19875	0.96466	0.076157	0.957221	0.095295
TEX261	0.184396	0.161896	-0.01486	0.254947	0.173681	0.237648	0.913454	0.057923	-0.05698	0.374312	-0.19176	0.281421	0.35341	0.994808	0.103485	0.970931
RNF13	0.280298	0.1576	0.099226	0.113103	0.034699	0.246035	0.462729	0.40221	0.306906	0.060116	0.073233	0.004481	0.980989	0.654266	0.683703	0.511789
MGLL	0.174538	-0.27192	0.077888	-0.09135	0.194103	0.042623	0.564688	0.499163	0.100272	-0.22396	0.134361	-0.26172	0.746346	0.067296	0.810558	0.039458
TWF2	0.021455	0.046763	-0.04498	0.185534	0.874133	0.732173	0.739713	0.167049	-0.07573	0.355334	-0.16315	0.265651	0.30847	0.992311	0.142118	0.962818
C1orf212	-0.07814	0.196374	-0.13007	0.320369	0.563417	0.146905	0.334855	0.015117	-0.07507	0.353381	-0.29427	0.241135	0.310005	0.992004	0.02487	0.946776
GABARAPL1	0.037803	-0.03738	-0.17287	0.093217	0.780107	0.784469	0.198457	0.490391	-0.11824	-0.06459	-0.05533	-0.04889	0.216915	0.334895	0.359039	0.373467
ADC	-0.17394	-0.24619	0.08124	-0.22269	0.195658	0.0674	0.548002	0.095917	-0.24991	-0.30766	-0.03636	-0.24032	0.046962	0.018763	0.40629	0.053834
TMEM54	-0.11901	0.151326	-0.00378	0.020442	0.382339	0.270092	0.977918	0.881129	-0.16218	0.573858	-0.32062	0.345	0.140784	0.999985	0.015884	0.990566
TUBA3D	-0.14413	-0.00577	-0.06584	-0.20561	0.289242	0.966657	0.629709	0.128445	-0.07698	-0.19783	-0.14873	-0.23453	0.305546	0.093774	0.164769	0.058344
SYNPO	0.285183	-0.19239	0.465584	0.222699	0.031535	0.155442	0.000263	0.095898	0.306228	-0.29161	0.418561	-0.11963	0.980764	0.024629	0.997891	0.214217
CHRNA2	0.018967	-0.10117	0.309766	-0.20714	0.889651	0.462366	0.020165	0.125569	0.057951	-0.25554	0.173545	-0.22379	0.648971	0.043258	0.872876	0.067443
HELQ	-0.09472	0.24857	-0.15367	0.068578	0.483413	0.064706	0.253756	0.61224	0.054229	0.290756	-0.1241	0.127523	0.639806	0.97502	0.208334	0.800821
CMTM1	-0.07728	-0.23681	0.269044	0.055792	0.567744	0.078874	0.042999	0.680186	-0.12893	-0.26037	0.132807	-0.23572	0.196559	0.040266	0.807765	0.05739
CHRNA3	-0.04129	0.24573	0.094102	-0.22719	0.760385	0.067925	0.486267	0.089216	0.15181	-0.21824	0.167069	-0.23977	0.843067	0.072551	0.863663	0.054254
CYP2U1	0.051863	-0.26436	-0.04593	0.062942	0.701613	0.048966	0.734422	0.641837	-0.04675	-0.35141	0.255247	-0.05262	0.378856	0.008317	0.954698	0.364191
ADPRHL1	-0.20532	-0.41408	-0.07415	-0.48408	0.125476	0.001511	0.583595	0.000136	-0.05395	-0.66298	0.202509	-0.4637	0.360877	2.58E-07	0.908917	0.000586
MFSD3	0.040672	-0.03682	0.251695	0.028796	0.763881	0.787633	0.058934	0.831612	0.05458	0.078666	0.066383	-0.09951	0.640674	0.69835	0.667587	0.255283
SDSL	-0.05914	-0.13621	0.186674	-0.15944	0.662141	0.316842	0.16441	0.236153	0.004357	-0.35989	0.133082	-0.2458	0.511463	0.007011	0.80826	0.049823
MGC16703	-0.26191	-0.1678	-0.0905	-0.34317	0.051181	0.22075	0.507117	0.009619	-0.34126	-0.25188	-0.06623	-0.22007	0.010143	0.045645	0.332785	0.07084

CHRNA4	0.05203	-0.20255	0.299112	-0.24048	0.700702	0.134361	0.023807	0.071566	0.211388	-0.45448	0.222252	-0.35993	0.920766	0.000755	0.928864	0.007007
KLHDC7B	-0.07449	-0.15333	0.308193	-0.02561	0.581836	0.259228	0.019683	0.850042	0.217541	-0.44209	0.123397	-0.36481	0.924428	0.001181	0.78757	0.006872
ODF3	0.111423	-0.18449	0.294707	-0.16445	0.409282	0.173463	0.026056	0.221561	0.121227	-0.27149	0.294633	-0.27367	0.788879	0.033994	0.975275	0.032858
C7orf29	-0.03387	-0.00567	0.206236	-0.17008	0.802509	0.966901	0.123768	0.205929	0.114706	-0.06896	0.142869	-0.09785	0.776096	0.324417	0.825425	0.258845
PIK3IP1	-0.09083	0.095646	-0.21215	0.063918	0.505581	0.487284	0.116486	0.63978	-0.15666	0.28874	-0.04799	0.134087	0.149231	0.974179	0.377119	0.812842
CHRNA5	0.161626	0.306553	-0.14825	0.271399	0.229701	0.021566	0.271073	0.041139	0.008407	0.541704	-0.13953	0.353168	0.522112	0.999949	0.180316	0.99197
C1orf59	-0.30016	-0.00634	-0.16351	0.292088	0.023296	0.962995	0.224237	0.027476	-0.15257	0.126674	0.118695	0.117002	0.155717	0.799233	0.781295	0.780646
FAM83F	-0.14689	0.151524	-0.04347	-0.09547	0.275553	0.264945	0.748149	0.479929	-0.05674	0.420598	-0.29053	0.185672	0.354004	0.998195	0.026431	0.89166
SLC35A4	0.00662	0.295571	-0.01218	0.375098	0.96138	0.028461	0.929018	0.004393	0.063111	0.683886	-0.16963	0.483671	0.661542	1	0.132641	0.99967
ZNF257	0.049081	-0.05191	-0.07216	-0.01197	0.716934	0.70399	0.593756	0.929609	-0.02162	0.245402	-0.11469	0.192456	0.4433	0.949895	0.226571	0.899973
DTX2	-0.19867	0.036547	-0.09641	-0.17314	0.138468	0.789151	0.475578	0.197745	-0.264	0.287976	-0.28051	0.108667	0.038124	0.973854	0.03099	0.763888
CHRNA7	0.028951	0.145802	0.225348	-0.12036	0.832256	0.288167	0.094945	0.376897	0.011298	-0.0353	-0.20674	-0.04699	0.529703	0.407915	0.086507	0.378251
ADCY8	0.210196	-0.0303	0.270996	-0.19401	0.119966	0.826184	0.043365	0.151933	0.29398	-0.36917	0.297519	-0.27753	0.97501	0.006286	0.975082	0.03246
CHRNA1	0.036161	-0.25385	0.107649	-0.01462	0.78943	0.059045	0.425422	0.91407	-0.10548	0.151227	-0.11042	0.089128	0.242687	0.842125	0.235126	0.722081
ZIM3	-0.05941	-0.20091	0.152466	-0.26937	0.663594	0.141339	0.26195	0.044687	0.082013	-0.40267	0.28553	-0.32462	0.703876	0.00305	0.969864	0.01479
TOE1	-0.03389	0.322793	-0.11738	0.141905	0.802407	0.015249	0.384523	0.292357	0.133842	0.255749	-0.13807	0.120998	0.812401	0.956873	0.182877	0.788439
C21orf84	-0.03883	-0.18876	0.094181	-0.10494	0.7743	0.163534	0.485896	0.437228	0.26436	-0.33146	0.229961	-0.33236	0.962081	0.012217	0.935702	0.012014
C21orf88	0.051565	0.022425	0.100844	-0.05722	0.70325	0.869694	0.455432	0.672447	-0.04327	-0.03532	-0.10501	-0.13844	0.387619	0.407856	0.246189	0.179428
C21orf89	-0.03829	0.060939	0.191653	-0.0704	0.777318	0.655487	0.153243	0.602776	0.150889	-0.31431	0.16381	-0.23	0.838764	0.017744	0.855998	0.064267
C21orf90	-0.04728	-0.09581	0.12749	-0.13664	0.729336	0.48654	0.349088	0.315288	0.186625	-0.29273	0.144663	-0.27172	0.892856	0.024177	0.828466	0.03387
MCM3APA	0.135683	-0.18964	-0.07419	-0.22354	0.318726	0.165537	0.586827	0.097692	0.002588	-0.11229	-0.02651	0.110269	0.50681	0.228737	0.431389	0.76716
WBSCR22	-0.1986	0.067201	-0.16816	0.015102	0.142282	0.625916	0.215386	0.912037	-0.37415	0.289099	-0.31644	0.200822	0.00521	0.974331	0.017096	0.90959
TRIM9	0.151691	-0.06412	0.261089	-0.2452	0.259995	0.638732	0.0498	0.066008	0.233083	-0.27688	0.079722	-0.3615	0.938327	0.032788	0.696519	0.007345
CHRNA2	-0.19024	-0.22961	0.093777	-0.11846	0.160196	0.088697	0.491799	0.38456	0.160176	-0.37439	0.013184	-0.27212	0.85619	0.005184	0.534249	0.03366
TXNRD3	0.173328	0.032453	0.027826	-0.09411	0.197263	0.812315	0.83721	0.486241	-0.00013	0.079229	-0.03655	-0.05009	0.499668	0.69965	0.40581	0.370487
UCN3	-0.111	-0.29677	0.141635	-0.05974	0.411066	0.026347	0.293288	0.658881	-0.02314	-0.35242	0.195007	-0.28081	0.439349	0.008152	0.900377	0.029355
SIGLEC11	-0.08175	-0.22557	0.134615	-0.27813	0.545483	0.094606	0.318107	0.036182	-0.07633	-0.23796	0.223578	-0.25744	0.307076	0.055639	0.930077	0.042063
SLC2A13	-0.12961	-0.00764	-0.06973	0.194518	0.336605	0.955432	0.606281	0.147078	-0.09564	-0.00596	-0.03022	-0.03069	0.263613	0.484328	0.421886	0.419767
CHRNA3	-0.00244	-0.04577	0.142938	-0.26443	0.985605	0.737657	0.288822	0.046845	0.056322	-0.32597	0.143084	-0.27994	0.64497	0.013527	0.825792	0.029763
LACTB	0.151953	0.226153	-0.2265	0.190926	0.259164	0.09374	0.090221	0.154837	0.024712	0.206537	0.077357	0.067897	0.564747	0.915767	0.69325	0.673048
PALM2	0.220515	-0.05237	0.151354	-0.03441	0.099285	0.701494	0.261069	0.799385	0.386548	-0.30828	0.093942	-0.3317	0.996018	0.018562	0.73033	0.012163
CHRNA4	0.086181	-0.12914	0.198062	-0.22744	0.523847	0.34284	0.139708	0.088848	0.05239	-0.26233	0.074307	-0.31243	0.635249	0.039098	0.686202	0.01726
EFHC1	-0.12272	-0.11889	-0.00198	-0.12451	0.36314	0.382805	0.988318	0.356103	-0.17391	-0.158	0.047175	-0.11834	0.123863	0.147156	0.620856	0.216733
CHRNA5	0.045225	-0.18307	0.195497	-0.28271	0.740667	0.180961	0.148755	0.034758	0.086706	-0.34792	0.140535	-0.42593	0.716667	0.00891	0.82142	0.001582
CHRNA6	0.031241	-0.25751	0.248688	-0.25492	0.817551	0.055361	0.062128	0.055657	0.00307	-0.30909	0.108208	-0.31618	0.508078	0.018301	0.760384	0.01615
NLRP3	0.071484	-0.24677	0.221606	0.08223	0.597215	0.066737	0.097582	0.54312	-0.15514	-0.1076	0.001337	-0.08616	0.15444	0.240868	0.503436	0.286801
MAL2	-0.15072	0.578146	-0.3416	-0.07193	0.263082	3.07E-06	0.009306	0.594896	-0.14208	0.616174	-0.3048	0.316209	0.173127	0.999997	0.020881	0.983858
SLC22A9	-0.10783	-0.15316	0.144602	-0.17441	0.424654	0.259749	0.283188	0.194441	0.024221	-0.50951	0.127527	-0.3476	0.563472	0.000149	0.798091	0.008967
SNORD15B	0.193357	-0.31532	0.188323	0.18281	0.149553	0.017925	0.160647	0.173478	0.094651	-0.28668	0.093684	-0.16306	0.734242	0.026706	0.72977	0.139463
CHRNA7	0.079349	-0.12777	0.262911	-0.22923	0.557389	0.348015	0.048169	0.086297	0.089016	-0.24466	0.158727	-0.28634	0.721832	0.050635	0.851161	0.026851
TIRAP	-0.14223	0.335318	0.012923	0.314505	0.291233	0.011527	0.923992	0.017188	-0.13121	0.375479	-0.16948	0.244617	0.192366	0.994935	0.132851	0.949332
ERMAP	0.125005	0.197144	0.166585	-0.21341	0.35864	0.149112	0.219791	0.114285	0.07632	0.21305	0.039809	-0.06135	0.692912	0.922428	0.602427	0.342721
LRRRC37B	-0.13135	0.151859	-0.10753	0.004839	0.33009	0.263879	0.425946	0.971501	-0.14125	-0.00439	-0.01002	0.022602	0.174542	0.488459	0.473968	0.559261
CHUK	-0.01339	0.188053	-0.29018	0.107384	0.921273	0.165155	0.028551	0.426572	-0.07035	0.364526	-0.18448	0.244184	0.321122	0.993625	0.112531	0.949019
CYGB	0.074535	-0.31844	0.348507	-0.01418	0.581616	0.016763	0.00789	0.916603	0.155515	-0.42766	0.278779	-0.26673	0.848969	0.001516	0.968162	0.036575
CARD16	-0.08307	0.00076	-0.12066	0.402663	0.538994	0.995567	0.371311	0.001901	-0.12986	-0.09635	-0.07328	0.110416	0.194856	0.262061	0.316197	0.76746
PGLYRP2	-0.03144	-0.15222	0.169119	0.04621	0.818045	0.262738	0.212754	0.735226	0.126511	-0.26994	0.061532	-0.41875	0.798928	0.034818	0.655986	0.001888
PGLYRP3	0.017538	0.271994	0.025189	-0.25345	0.897916	0.04455	0.853797	0.059456	0.057723	0.250538	-0.16605	0.037725	0.646777	0.951539	0.137829	0.597172
PKD1L2	0.004827	-0.21029	0.204342	-0.20366	0.971571	0.119801	0.127333	0.12863	0.054522	-0.42205	0.113161	-0.25723	0.64053	0.001742	0.770388	0.042196
BTBD9	-0.05624	-0.02484	-0.11038	-0.17418	0.677749	0.855783	0.413705	0.195029	-0.29015	-0.03944	-0.00647	-0.10364	0.025228	0.397347	0.483179	0.246529

LMTK3	0.00152	-0.11214	0.298611	-0.19135	0.991046	0.410589	0.024054	0.153897	0.155686	-0.44615	0.2412	-0.37581	0.849238	0.000943	0.944773	0.005029
CSMD2	-0.00093	-0.10213	0.155693	-0.21748	0.9945	0.453879	0.247485	0.104149	0.103567	-0.3574	0.119125	-0.38411	0.75331	0.007375	0.782131	0.004202
MBD6	0.026741	-0.10321	0.201837	-0.19058	0.843476	0.449058	0.132165	0.155606	0.03001	-0.12594	0.062218	-0.25856	0.57847	0.202142	0.657635	0.041368
XKR4	0.193048	0.017294	0.045015	0.188298	0.150218	0.899332	0.739518	0.160703	0.178119	-0.25157	0.340542	-0.22903	0.881856	0.045851	0.988961	0.06288
GPRIN1	-0.02487	-0.10726	0.328626	-0.12462	0.854312	0.43138	0.012566	0.355688	0.058562	-0.33975	0.225418	-0.29273	0.65047	0.010443	0.931735	0.024176
CSMD3	-0.02649	-0.19693	0.005675	-0.31907	0.844929	0.145748	0.966583	0.015556	-0.00298	-0.38083	0.10649	-0.33453	0.492258	0.004928	0.754273	0.012349
SLC25A25	0.130831	-0.1009	0.068564	-0.04871	0.332023	0.459325	0.612313	0.718984	0.106168	0.156206	0.076396	-0.13894	0.758735	0.850053	0.691035	0.178557
STK11IP	-0.22308	-0.12729	-0.07472	-0.26082	0.095315	0.349855	0.580662	0.050048	-0.39237	-0.04358	-0.20443	-0.1648	0.003498	0.386842	0.088982	0.136881
TUBGCP5	-0.02587	-0.00139	-0.18372	0.097091	0.848499	0.991881	0.171301	0.472459	0.019627	0.336072	-0.17257	0.098915	0.551506	0.988799	0.128477	0.743449
KLHL32	-0.05857	-0.16148	0.052561	-0.31724	0.665199	0.234445	0.697793	0.016194	-0.27669	-0.25023	0.006669	-0.19392	0.03134	0.046751	0.517339	0.098292
FMNL2	0.182277	-0.28808	0.21163	0.276057	0.174757	0.031317	0.114032	0.037655	0.261205	-0.11856	0.045586	-0.02143	0.958465	0.21896	0.615557	0.444442
ELFN2	-0.05723	-0.15831	0.168174	-0.38243	0.672384	0.243881	0.211123	0.003326	0.195152	-0.48577	0.195563	-0.37276	0.903147	0.000311	0.901028	0.005366
TMEM132f	-0.01826	0.305518	-0.0995	-0.1478	0.892763	0.022035	0.461481	0.272561	-0.0843	0.1163	-0.12356	-0.24199	0.288759	0.779259	0.209356	0.052586
SLITRK1	0.048756	-0.10225	0.247648	-0.3009	0.721212	0.457564	0.065737	0.024232	0.10132	-0.43735	0.242006	-0.41126	0.748571	0.001186	0.945384	0.00226
ESCO1	-0.0043	0.303397	-0.19777	0.13501	0.97467	0.023021	0.140313	0.316676	0.033849	0.317504	-0.12108	0.232713	0.588356	0.984228	0.214096	0.940188
CCDC85A	-0.00142	-0.25942	0.200745	-0.18128	0.991634	0.053514	0.134314	0.177168	-0.08652	-0.39761	0.168603	-0.34632	0.283741	0.003106	0.865884	0.009195
TMEM200a	-0.07199	0.110573	-0.33561	0.248495	0.59461	0.417202	0.010706	0.062338	0.115599	0.251342	0.029534	0.197364	0.777871	0.954	0.576358	0.905699
MYSM1	0.020992	0.299148	-0.13096	0.18881	0.87683	0.025111	0.331547	0.159548	0.246128	0.247188	0.010753	0.077166	0.948428	0.949189	0.527614	0.692811
RNF157	0.142906	-0.26469	0.206189	-0.12345	0.288932	0.048678	0.123854	0.360242	0.149413	-0.47773	0.318615	-0.39098	0.836358	0.000452	0.98248	0.003958
GALNT13	0.024749	-0.20586	0.056685	-0.0415	0.855002	0.127975	0.67535	0.759243	0.29597	-0.49443	0.187103	-0.45995	0.977094	0.000239	0.890784	0.00065
GNRHR2	-0.07009	0.132448	0.24684	-0.1042	0.604426	0.330509	0.064159	0.440476	0.26628	-0.41676	0.143554	-0.35105	0.963172	0.001981	0.826591	0.008377
SORCS1	0.088652	0.074523	-0.08309	0.142891	0.511971	0.585159	0.538912	0.288982	0.306284	-0.26635	0.235894	-0.22323	0.980783	0.036786	0.94062	0.067952
KLHL29	0.274312	0.016265	0.234716	0.28085	0.038931	0.905293	0.078841	0.034329	0.30412	0.120831	0.03075	0.190873	0.980052	0.788116	0.579462	0.898074
CROCCL2	-0.20009	-0.20826	0.171239	-0.25721	0.135617	0.123488	0.202799	0.053422	-0.1702	-0.50229	0.035225	-0.3181	0.129052	0.000188	0.590845	0.015604
SCAND3	0.11032	-0.2252	0.192243	-0.19899	0.413961	0.095166	0.151957	0.137825	-0.00408	-0.3123	-0.09321	-0.16502	0.489377	0.018373	0.273663	0.139339
RHPN1	-0.1865	-0.17812	0.163703	-0.30626	0.164815	0.189049	0.22369	0.020507	-0.232	-0.32651	-0.03963	-0.21944	0.060396	0.013391	0.398014	0.071422
LENG8	-0.10413	-0.13684	0.173354	-0.00462	0.445021	0.319159	0.201354	0.973051	0.054178	-0.23381	-0.02615	-0.19572	0.63968	0.058922	0.432316	0.096192
PNMA5	-0.002	-0.27127	0.189848	-0.32008	0.988225	0.043142	0.157225	0.015215	0.071526	-0.39562	0.216973	-0.34397	0.681667	0.003251	0.92388	0.009625
PWWP2A	0.081231	-0.43401	0.373513	-0.16678	0.551742	0.000931	0.004576	0.21923	0.216962	-0.44069	0.293213	-0.15354	0.926237	0.001088	0.974696	0.154164
SMYD4	0.035837	-0.08543	0.001182	-0.06895	0.791277	0.531277	0.993038	0.610308	0.087875	0.184903	-0.07723	-0.11577	0.719285	0.890689	0.307053	0.221795
FHAD1	-0.12964	-0.19405	0.06325	-0.33341	0.336468	0.151853	0.640202	0.011264	-0.17468	-0.4163	0.107938	-0.29974	0.122797	0.002003	0.759831	0.021497
SLAMF6	-0.07601	-0.19011	-0.02832	0.622741	0.574164	0.160497	0.834386	2.31E-07	-0.14238	0.016062	-0.11908	0.085096	0.175404	0.541702	0.220685	0.710823
OSBPL1A	0.192926	0.052189	-0.07003	-0.07551	0.15048	0.702461	0.604704	0.576683	0.147993	-0.06539	0.050784	-0.11693	0.836835	0.33296	0.62979	0.219495
OSBPL5	-0.00464	-0.17497	0.119144	-0.00622	0.972699	0.197125	0.377376	0.963374	-0.06652	-0.09046	0.040553	0.013956	0.332082	0.277266	0.603094	0.536248
OSBPL6	-0.03704	-0.25937	0.058562	-0.19164	0.784429	0.053566	0.665224	0.153274	-0.22707	-0.37113	0.023714	-0.23188	0.064563	0.005555	0.56144	0.060498
OSBPL7	-0.04808	0.082218	0.158767	-0.11829	0.722456	0.546903	0.238156	0.380816	0.029489	0.076652	-0.09206	-0.19294	0.577124	0.693683	0.273757	0.099456
OSBPL8	0.010463	0.134592	-0.25836	0.235366	0.938429	0.32267	0.052328	0.077992	0.040023	0.306048	-0.00345	0.236549	0.604143	0.980704	0.491022	0.943261
OSBPL9	0.056928	0.075595	-0.15129	0.083561	0.674033	0.579758	0.261265	0.536592	0.21075	-0.0547	0.123539	-0.02231	0.920121	0.359018	0.790601	0.441502
OSBPL10	-0.04469	0.06928	0.167219	0.315326	0.741356	0.611904	0.213765	0.016884	0.41533	0.074157	0.115378	0.044546	0.99795	0.68786	0.774793	0.615604
OSBPL11	-0.03969	0.212311	-0.31478	-0.01984	0.76944	0.1162	0.017086	0.883566	-0.12639	0.426196	0.004054	0.24804	0.201304	0.998428	0.510543	0.951752
C1QTNF1	0.155897	-0.18763	0.32582	0.01117	0.251238	0.170143	0.014266	0.934879	0.310934	-0.30631	0.319951	-0.13083	0.982279	0.01921	0.983926	0.193062
C1QTNF2	0.094181	-0.11762	0.173956	-0.03143	0.485895	0.387952	0.195618	0.816451	0.15037	-0.30313	0.13075	-0.19667	0.840733	0.020289	0.804029	0.095095
C1QTNF3	0.265441	-0.22164	0.219727	-0.05043	0.045978	0.100652	0.100531	0.709475	0.341035	-0.27909	0.228736	-0.22429	0.989812	0.030168	0.934649	0.066999
CIDEA	0.000736	-0.14419	0.116014	-0.16382	0.995662	0.289046	0.390127	0.22334	-0.12746	-0.15604	0.023109	-0.27793	0.202038	0.153024	0.559182	0.032263
C1QTNF4	0.03446	-0.03285	0.319583	-0.18936	0.799126	0.810089	0.015382	0.15831	0.23545	-0.42045	0.146568	-0.42299	0.940262	0.002015	0.828785	0.001896
C1QTNF5	0.128125	-0.28809	0.323443	-0.08261	0.342205	0.031307	0.01412	0.541245	0.143489	-0.449	0.215203	-0.29276	0.829284	0.000874	0.922152	0.024165
C1QTNF6	0.023181	-0.06281	0.237836	-0.00327	0.864101	0.645618	0.07483	0.980753	0.064111	-0.09865	0.087267	0.039445	0.663959	0.257108	0.715668	0.602672
C1QTNF7	0.213019	-0.1014	0.015667	0.183996	0.11162	0.457114	0.907913	0.170658	0.152225	-0.07983	0.091203	0.082518	0.840922	0.301082	0.721998	0.705018
FBXO32	0.135968	-0.04463	-0.01306	0.214925	0.31322	0.743948	0.923166	0.108379	0.295755	-0.17121	0.146786	-0.23051	0.977011	0.127626	0.832022	0.061633
TMEM123	0.021084	0.136604	-0.1361	0.141686	0.876295	0.315423	0.312743	0.293109	-0.03463	0.254381	-0.04659	0.251695	0.409645	0.955997	0.380592	0.954235

C5orf26	0.002915	0.029212	0.139474	-0.03629	0.982833	0.830767	0.300788	0.788721	0.213258	-0.28743	0.161872	-0.20364	0.922634	0.026378	0.855959	0.087327
C8orf40	-0.16174	0.144773	-0.12216	-0.23859	0.229379	0.287073	0.365317	0.073886	-0.31638	0.055768	-0.05603	-0.03399	0.016093	0.643606	0.357333	0.411276
GPRASP2	0.357984	-0.30009	0.130591	-0.08357	0.006751	0.026015	0.337394	0.540319	0.40009	-0.47524	0.355062	-0.19212	0.997065	0.000423	0.991653	0.100431
MRFAP1L1	0.116653	-0.10713	-0.17478	0.081975	0.387501	0.431931	0.193467	0.544377	-0.28371	0.050991	-0.10006	0.1034	0.02802	0.631768	0.256554	0.752958
TSGA13	-0.00427	-0.12315	0.206175	-0.27459	0.974876	0.365878	0.123882	0.038722	0.12408	-0.34689	0.186126	-0.36477	0.794339	0.009092	0.889556	0.006344
PTPMT1	-0.26805	0.026433	-0.14152	0.043364	0.043805	0.846663	0.293678	0.748752	-0.24933	0.312524	-0.33067	0.133347	0.047359	0.982768	0.013256	0.811508
FLYWCH2	-0.25248	-0.14198	0.021415	-0.1533	0.058124	0.29658	0.874368	0.254915	-0.0592	-0.1986	-0.03686	-0.10467	0.347972	0.092894	0.405026	0.244374
WDR31	-0.1679	-0.0181	-0.13906	-0.34391	0.211874	0.894682	0.302235	0.008809	-0.40291	-0.13139	-0.06369	-0.11111	0.00275	0.192047	0.338846	0.231122
VASN	0.174352	-0.21547	0.320088	-0.02293	0.194587	0.110752	0.015211	0.865573	0.276559	-0.26206	0.317499	-0.14013	0.967047	0.041015	0.98214	0.179274
ZNF618	0.078558	-0.24544	0.316584	0.131774	0.561334	0.06826	0.016428	0.328521	0.191834	0.019979	0.104136	0.141966	0.89923	0.552424	0.751988	0.826684
ADCY9	0.001816	-0.07587	0.172548	0.010884	0.989401	0.581963	0.203489	0.936543	-0.08963	0.111583	-0.03062	0.185064	0.276803	0.769827	0.42087	0.890893
C6orf150	-0.06027	0.139905	-0.18135	0.526449	0.656059	0.303757	0.177006	2.60E-05	-0.18311	0.259896	-0.12823	0.285479	0.114296	0.957659	0.203406	0.971345
SLC26A9	-0.16872	0.372944	-0.14142	-0.29959	0.209624	0.004643	0.294016	0.023575	0.017828	0.223137	0.0988	0.060292	0.546807	0.931967	0.740764	0.654697
NT5C3L	0.234494	-0.06904	0.091894	0.100521	0.079133	0.613144	0.496595	0.456881	0.300489	0.032435	-0.13583	-0.08111	0.978775	0.584722	0.186824	0.29603
CCDC124	-0.07733	-0.14119	0.093733	-0.2639	0.567502	0.2993	0.487983	0.047301	-0.09511	-0.31874	0.085275	-0.26288	0.264751	0.015427	0.711222	0.038775
CCDC5	0.024503	0.213781	-0.20941	0.043137	0.857738	0.117066	0.121386	0.752251	-0.11111	0.243262	-0.19984	0.148583	0.231131	0.948349	0.094059	0.837808
SLC26A7	-0.09917	-0.16566	-0.14782	-0.3428	0.462987	0.222385	0.272511	0.009045	-0.24112	-0.4891	0.080223	-0.44606	0.053237	0.000281	0.69981	0.000945
MARCH3	-0.15282	0.455609	-0.27472	-0.13949	0.256411	0.000418	0.03863	0.300721	-0.14685	0.501387	-0.22988	0.210245	0.165069	0.999807	0.064367	0.919608
ZNF554	-0.06775	-0.25783	0.122827	-0.1107	0.616552	0.055049	0.362699	0.412358	0.049827	-0.20185	-0.00097	-0.17462	0.628864	0.089271	0.49747	0.122887
CKB	0.068495	-0.16265	0.071557	-0.05194	0.612673	0.231027	0.59684	0.701197	-0.1192	-0.09055	0.044319	-0.02037	0.215055	0.274768	0.61374	0.446554
ATG4A	-0.0516	0.180892	-0.15124	0.087794	0.703049	0.182145	0.26142	0.51608	-0.09095	0.273327	-0.07213	0.235506	0.273878	0.966965	0.318862	0.942438
KCTD12	0.013873	-0.21019	0.002186	-0.05637	0.919168	0.123502	0.987245	0.67985	-0.19135	-0.31453	0.075796	-0.13015	0.101347	0.016631	0.689651	0.194312
OMA1	-0.05928	0.130998	-0.15856	-0.03892	0.661391	0.335878	0.238763	0.773797	-0.09453	0.171924	-0.05034	0.140045	0.266028	0.873374	0.371298	0.823368
DDIT4L	0.130473	-0.06537	0.301434	0.191881	0.33336	0.632157	0.022688	0.152745	0.304028	-0.46496	0.204512	-0.25088	0.980021	0.000566	0.911106	0.04631
RAB42	0.072939	-0.22253	0.192086	-0.35838	0.589753	0.099259	0.152299	0.006194	-0.09772	-0.07302	0.251305	-0.11523	0.261548	0.316796	0.950067	0.225506
SLC25A26	-0.05851	0.213766	-0.33727	0.190318	0.665529	0.113662	0.0103	0.156182	0.124346	0.423795	-0.04338	0.255723	0.794846	0.998332	0.388606	0.956857
FBXO17	0.129243	-0.09634	0.096373	-0.04835	0.337978	0.479992	0.475757	0.720955	0.072248	-0.10186	0.239326	-0.05092	0.681406	0.252766	0.941167	0.36988
PCMTD1	0.064595	0.099297	-0.0919	0.173068	0.633094	0.466545	0.49656	0.197945	0.312915	-0.00295	0.068231	0.109577	0.982886	0.492225	0.671966	0.765751
CIRBP	0.091692	-0.08803	0.017231	0.018391	0.497547	0.518833	0.898765	0.891993	0.103395	-0.01733	-0.00644	-0.11851	0.752948	0.454498	0.483259	0.216387
GPR146	0.210504	-0.1642	0.215808	0.247546	0.116013	0.226562	0.106902	0.063377	0.344604	-0.33886	0.24989	-0.2532	0.990492	0.010622	0.951091	0.044771
FCRL1	-0.12849	-0.19175	0.051132	-0.03101	0.345279	0.16078	0.708216	0.820494	0.159864	-0.57898	0.115588	-0.59751	0.852909	1.55E-05	0.772517	7.34E-06
FCRL3	-0.16563	-0.23056	0.122684	0.048588	0.22247	0.09036	0.367704	0.722136	0.104197	-0.5209	0.158836	-0.41084	0.752115	0.000122	0.848453	0.002529
LRRC42	0.056773	0.363842	-0.06118	-0.00245	0.677702	0.006321	0.654234	0.985692	-0.14103	0.52631	-0.06036	0.281646	0.17772	0.999898	0.348568	0.969556
GBP4	-0.07149	-0.15893	0.027283	0.603257	0.600578	0.246474	0.841791	8.62E-07	-0.04334	0.04007	0.255149	0.307552	0.388697	0.603084	0.952693	0.980069
GBP5	-0.17082	-0.19616	0.060654	0.517736	0.208123	0.151194	0.656996	4.38E-05	-0.22653	-0.25093	0.070361	-0.0043	0.067276	0.048195	0.675031	0.488828
LRRC56	-0.23161	-0.20931	0.03882	-0.22269	0.083002	0.121579	0.774343	0.095913	-0.21518	-0.29521	-0.01843	-0.24704	0.075483	0.023201	0.452164	0.048949
CISH	0.14931	-0.21581	0.229985	0.04632	0.267639	0.110164	0.085245	0.732244	0.222436	-0.37721	0.198437	-0.17012	0.931334	0.00488	0.904349	0.129165
C7orf30	-0.14433	0.327703	-0.19025	0.137616	0.284106	0.013682	0.156336	0.307336	0.048768	0.19645	-0.23719	0.221593	0.626217	0.90465	0.058344	0.930567
UHRF2	0.063887	0.14491	-0.10484	0.356791	0.636834	0.286611	0.437675	0.006443	0.2725	0.196299	-0.11647	0.151592	0.966537	0.904476	0.223046	0.842715
TBCB	-0.01092	-0.18804	-0.12401	-0.01737	0.935763	0.165184	0.35806	0.897945	-0.40361	0.273868	-0.25481	0.286634	0.002986	0.965654	0.047534	0.971867
ZNF689	0.047474	-0.17426	0.161803	-0.17811	0.725829	0.198976	0.229182	0.184984	0.096724	-0.1908	0.221844	-0.14579	0.738739	0.102015	0.928488	0.166834
FCHO2	0.030262	0.340008	-0.28416	0.149608	0.823174	0.010351	0.032178	0.266672	0.147149	0.34228	-0.06785	0.227801	0.835436	0.990054	0.328929	0.936071
GEFT	0.372066	-0.15105	0.232515	0.192538	0.004373	0.266475	0.081771	0.151319	0.414359	-0.319	0.279822	-0.11263	0.997901	0.015355	0.968675	0.228068
ZNF501	0.081756	0.068904	-0.08755	-0.03336	0.545456	0.613839	0.517254	0.805432	-0.00071	-0.01896	0.102763	-0.04056	0.498123	0.450237	0.749125	0.394488
FAM46B	0.114524	-0.11159	0.08584	-0.06205	0.396282	0.412904	0.525497	0.646561	0.36274	-0.08079	0.050962	-0.16605	0.993385	0.296764	0.630229	0.135031
SLC5A11	-0.05735	-0.13303	0.100413	-0.22378	0.671756	0.32837	0.457368	0.094255	0.216279	-0.48815	0.330959	-0.47638	0.925582	0.000289	0.986813	0.000409
TNFRSF13C	-0.09972	-0.16012	0.178999	-0.07188	0.46051	0.238463	0.182774	0.595185	-0.06123	-0.2946	0.15334	-0.17969	0.343027	0.023439	0.842709	0.116063
KIR3DL3	0.028854	-0.1573	0.2027	-0.28308	0.831278	0.24695	0.130485	0.032863	0.086031	-0.35094	0.167792	-0.27098	0.715149	0.008395	0.864714	0.034264
TTC6	-0.13159	0.14836	-0.10303	-0.06422	0.329205	0.275169	0.445688	0.635053	-0.09412	0.013342	-0.01759	0.019202	0.266921	0.535062	0.45435	0.550396
NOSTRIN	0.267661	-0.09823	0.324268	0.320691	0.046112	0.475525	0.014763	0.015964	0.440895	-0.28533	0.31553	-0.06174	0.998918	0.027294	0.982629	0.341779

ALPK2	-0.23067	-0.27875	-0.02985	-0.10131	0.0843	0.037496	0.825562	0.453347	0.086211	-0.28213	0.075157	-0.1819	0.713315	0.030214	0.686117	0.115866
SNX26	-0.04599	-0.284	0.258441	-0.20077	0.734065	0.033905	0.052249	0.134257	-0.13641	-0.32971	0.069192	-0.29397	0.183006	0.012622	0.674234	0.023683
EVI5L	-0.02839	-0.05629	0.129473	-0.18732	0.833935	0.680277	0.33711	0.162937	0.070777	-0.10403	0.046932	-0.20103	0.679896	0.245722	0.620251	0.090174
TRMT61A	-0.14892	-0.17845	0.014191	-0.09128	0.268892	0.188222	0.916555	0.499486	-0.01734	-0.14527	0.007487	-0.1444	0.454466	0.167706	0.519464	0.169171
RASGRP4	-0.15802	-0.26692	0.142267	-0.15407	0.240415	0.046745	0.291114	0.252498	-0.1271	-0.51104	0.108502	-0.45392	0.199973	0.000142	0.760983	0.000766
C12orf56	-0.10534	-0.0537	-0.00596	-0.2153	0.435475	0.694259	0.964896	0.107755	-0.38897	0.12298	-0.18966	0.159566	0.003774	0.792245	0.10605	0.855257
DIS3L	0.094453	0.254276	-0.27946	0.076159	0.484632	0.058608	0.035265	0.573388	0.006645	0.501959	-0.15183	0.288275	0.517479	0.99981	0.159712	0.973982
ARL11	-0.15117	-0.20734	0.040584	-0.00843	0.26166	0.125191	0.764378	0.950389	0.154658	-0.45877	0.254546	-0.24279	0.844805	0.000763	0.952288	0.054028
C3orf24	0.090953	-0.10596	0.169319	-0.19866	0.501032	0.437038	0.207986	0.138486	0.178705	-0.31871	0.160042	-0.32806	0.882638	0.015436	0.85318	0.013015
CKM	-0.06567	-0.00246	0.161613	-0.24646	0.627433	0.985645	0.229739	0.064586	-0.01134	-0.39546	0.252655	-0.15602	0.470177	0.003262	0.952979	0.150245
IQCD	-0.23225	-0.13466	-0.06006	-0.36655	0.082126	0.322426	0.657211	0.005041	-0.32907	-0.32861	0.027293	-0.22437	0.012772	0.012884	0.570625	0.06693
DHRS1	0.11868	0.258299	-0.09039	-0.00327	0.38366	0.056904	0.507648	0.980937	-0.22192	0.717619	-0.21354	0.392816	0.069136	1	0.079501	0.996537
WDFY2	-0.21621	0.344131	-0.33476	-0.095	0.10624	0.009404	0.010917	0.482104	0.023539	0.152791	-0.11786	0.065047	0.5617	0.844643	0.220332	0.666215
RAB3C	0.131598	-0.17536	0.09087	0.187216	0.329172	0.19612	0.501428	0.163166	0.061938	-0.09712	0.084665	0.215054	0.6587	0.260409	0.709856	0.924397
NXNL1	0.116468	-0.07774	0.408956	-0.16649	0.388261	0.569017	0.001586	0.215809	0.166215	-0.37531	0.24093	-0.36832	0.865203	0.005083	0.944567	0.005891
CTHRC1	0.087709	-0.10684	0.107942	0.193824	0.516488	0.433219	0.424158	0.148554	0.242856	-0.21552	0.246073	-0.08204	0.948051	0.075148	0.948388	0.293894
C16orf42	0.05251	0.056669	0.174276	0.019498	0.698068	0.678258	0.194785	0.885533	-0.00715	0.148225	-0.11666	-0.07601	0.481188	0.837217	0.222677	0.30781
CCDC151	-0.23767	-0.25615	0.017559	-0.43021	0.075045	0.056705	0.896849	0.000837	-0.24882	-0.4056	-0.00965	-0.36946	0.047711	0.002583	0.474921	0.005753
ZNF653	-0.05809	-0.20135	0.236205	-0.22658	0.667745	0.136731	0.076906	0.090106	-0.01945	-0.3555	0.090084	-0.34907	0.448961	0.007664	0.7219	0.008711
RNF166	-0.03718	-0.28983	0.303118	0.102237	0.783647	0.030254	0.021905	0.449195	0.029238	-0.44611	0.198203	-0.25387	0.576477	0.000944	0.904082	0.044334
ADCYAP1	0.143187	-0.07611	0.052311	0.136553	0.287973	0.577153	0.69916	0.311125	-0.08752	-0.17258	0.254981	0.163083	0.281511	0.125715	0.954524	0.860577
CKMT2	0.236662	-0.28976	0.270937	-0.21775	0.07632	0.0303	0.041498	0.103699	0.197611	-0.40922	0.154361	-0.34842	0.90598	0.002372	0.844335	0.008823
C16orf75	-0.09433	-0.12211	0.040894	-0.01953	0.4852	0.369959	0.762631	0.885341	-0.08032	-0.01939	-0.1029	0.066274	0.297845	0.449107	0.250598	0.669164
OSR2	0.060951	-0.10857	0.137407	0.32045	0.652424	0.425761	0.308078	0.01509	0.096619	-0.00635	0.080518	0.019328	0.733658	0.483697	0.696119	0.549551
LRRCS8	-0.00826	0.230582	-0.25172	0.167132	0.95139	0.087317	0.058912	0.214005	0.042981	0.327035	-0.13356	0.200125	0.611649	0.986737	0.190876	0.908816
LYSMD3	0.040857	0.249058	-0.15614	0.186748	0.762837	0.064165	0.246123	0.164241	0.235703	0.336676	-0.03186	0.271324	0.942594	0.988927	0.41771	0.96592
BATF2	-0.03612	-0.12011	0.303263	0.230507	0.789639	0.377916	0.021839	0.084518	0.114663	0.008436	0.079808	-0.02612	0.776011	0.522187	0.698864	0.431595
SLC22A12	0.068797	-0.11225	0.179722	-0.1784	0.611101	0.410147	0.180985	0.184255	0.1441	-0.39635	0.197135	-0.23806	0.830321	0.003197	0.902855	0.055559
DNTTIP1	-0.203	-0.16772	-0.07861	-0.21287	0.1299	0.216631	0.561097	0.111876	-0.19689	-0.18074	-0.00407	-0.23918	0.097425	0.11739	0.489533	0.056782
DIRC1	0.000902	-0.22026	0.164894	-0.1326	0.994734	0.102845	0.224574	0.329962	-0.01491	-0.31108	0.186695	-0.25664	0.460819	0.017675	0.890273	0.042564
ERCC8	-0.01816	0.214254	-0.20075	-0.02782	0.893347	0.112821	0.134297	0.837242	0.027022	0.14679	-0.022	-0.10558	0.570742	0.834839	0.442962	0.242483
FOXP4	0.173764	-0.15907	0.228445	-0.20947	0.19612	0.241613	0.087414	0.117857	0.287744	-0.22676	0.197281	-0.34023	0.973755	0.064826	0.903023	0.010347
ZNF526	-0.08029	0.07514	0.076016	0.08803	0.552705	0.582047	0.574112	0.514947	0.051913	0.086843	-0.02987	-0.10968	0.634063	0.716974	0.422776	0.234042
FMO9P	0.07922	0.03272	0.081443	-0.31814	0.561665	0.812544	0.550699	0.016872	-0.06148	-0.1711	-0.04954	-0.17883	0.342418	0.127781	0.373291	0.117199
LRRCS3B	0.079532	-0.11202	0.323176	-0.1548	0.56012	0.41109	0.015121	0.254638	0.155682	-0.34909	0.125401	-0.35264	0.849232	0.008707	0.794117	0.008116
KLHDC3	-0.09516	0.020539	-0.22168	0.065597	0.48539	0.88168	0.100594	0.630996	-0.14096	0.371714	-0.18818	0.288228	0.177846	0.994034	0.110607	0.972574
WDR92	-0.18771	-0.06212	-0.16978	-0.11432	0.162029	0.64924	0.20672	0.397142	-0.28315	-0.07619	-0.07377	-0.02193	0.028274	0.30739	0.315054	0.442495
NUS1	-0.24642	-0.053	-0.03402	0.083852	0.064633	0.698068	0.801618	0.53517	0.050688	-0.17759	-0.19101	-0.11144	0.631013	0.118848	0.104397	0.230467
C20orf108	-0.11403	0.045309	-0.05371	-0.13158	0.398322	0.740201	0.691527	0.329252	-0.03788	-0.17147	-0.17561	-0.19604	0.402437	0.130032	0.127102	0.098421
PHACTR3	-0.03915	-0.24816	0.127198	-0.10407	0.772458	0.065167	0.34574	0.441079	0.250516	-0.34502	0.237073	-0.42279	0.953445	0.009431	0.941563	0.00171
CYYR1	0.159601	-0.07814	0.025382	0.459578	0.235669	0.56705	0.851336	0.000323	0.291823	0.079665	0.046034	0.32553	0.975457	0.700654	0.618016	0.986364
CMTM5	-0.07894	-0.18888	0.121844	-0.06601	0.559444	0.163275	0.366582	0.625633	0.016519	-0.29077	0.200055	-0.20894	0.542377	0.027756	0.90082	0.086741
TGM7	0.053641	-0.05487	0.248135	-0.27289	0.691887	0.687914	0.062731	0.039994	0.009591	-0.36398	0.205328	-0.3289	0.52522	0.006448	0.911987	0.012813
TM4SF19	-0.10343	-0.08517	0.102855	-0.12359	0.443894	0.53254	0.446444	0.359721	0.154514	-0.3606	0.170116	-0.33484	0.847388	0.006911	0.868051	0.011464
FAM122A	0.082382	0.181646	-0.13426	0.016589	0.542372	0.1803	0.319388	0.902522	0.183406	0.051822	0.063254	-0.04221	0.888781	0.633836	0.66012	0.390312
ZMYND19	-0.0662	-0.0337	0.092988	-0.10944	0.624673	0.805259	0.491461	0.417724	0.036564	-0.14491	0.030339	-0.19526	0.595318	0.168309	0.578414	0.096724
FAM36A	0.234939	-0.02664	0.135777	-0.09128	0.081341	0.846924	0.318387	0.503451	0.250086	-0.10664	0.329482	-0.03836	0.953154	0.240284	0.986453	0.400092
LOC116236	-0.14317	-0.06168	0.062836	-0.11272	0.288048	0.65154	0.642396	0.403816	-0.21129	-0.00928	-0.06783	0.035052	0.079335	0.475584	0.328975	0.591445
TLCD1	-0.19457	0.141654	-0.14173	-0.24297	0.146972	0.297692	0.292964	0.068583	-0.29582	0.211751	-0.3678	-0.02253	0.022964	0.92113	0.006466	0.440924
C6orf72	0.116942	0.23388	-0.20142	0.211436	0.386322	0.082764	0.132988	0.11437	0.13946	0.404059	-0.05691	0.357001	0.822352	0.997323	0.355189	0.992565

MOGAT1	0.029135	-0.1962	0.141824	-0.2101	0.829662	0.147271	0.292637	0.116731	0.053489	-0.44484	0.1768	-0.42155	0.637973	0.000976	0.877345	0.001763
ACSM1	-0.03956	-0.36811	0.037573	-0.49818	0.770145	0.00525	0.781406	8.03E-05	-0.01739	-0.39691	0.035406	-0.40371	0.454338	0.003156	0.591303	0.002699
C8orf34	0.008368	-0.09491	0.067109	-0.35937	0.950742	0.486575	0.619897	0.006043	-0.16851	-0.32313	0.058919	-0.30343	0.131474	0.014248	0.649677	0.020185
PANX3	-0.21039	-0.21668	0.107472	-0.21953	0.116214	0.108709	0.426191	0.10084	-0.03732	-0.37319	0.116576	-0.34923	0.402749	0.005318	0.777153	0.008683
LOC116345	-0.25568	-0.04296	-0.07686	-0.20599	0.054907	0.753258	0.569832	0.124226	-0.16795	-0.18634	-0.06642	-0.19567	0.132275	0.107506	0.332324	0.096248
RBP7	0.153161	-0.26614	-0.03487	0.187979	0.255351	0.047414	0.796801	0.161428	-0.02742	-0.12431	0.229549	0.047623	0.42823	0.205217	0.935349	0.623347
SLC26A8	-0.07417	-0.19296	0.1658	-0.16484	0.583468	0.154195	0.217733	0.220435	0.103068	-0.35912	0.097804	-0.22389	0.752261	0.007122	0.738641	0.067354
LYPD1	0.119889	0.027609	0.294961	-0.11519	0.378798	0.841409	0.027324	0.397904	-0.01735	-0.31522	0.128065	-0.12273	0.454435	0.016428	0.799089	0.208234
IL22RA2	0.089115	-0.06169	0.151821	-0.31726	0.509758	0.651531	0.259583	0.016185	0.056558	-0.16469	0.002604	-0.26978	0.643944	0.13983	0.506692	0.036549
CKS2	-0.08721	0.225164	-0.01031	0.167854	0.522738	0.09837	0.939858	0.216247	-0.18245	0.571111	-0.31087	0.408887	0.112448	0.999983	0.018831	0.997609
ZNF837	-0.08388	-0.09621	0.220094	-0.23792	0.535032	0.480577	0.099949	0.07473	0.133186	-0.37233	0.204239	-0.35585	0.811217	0.005415	0.91081	0.00761
TM4SF18	0.180949	-0.09079	0.052314	0.397478	0.177974	0.505765	0.699143	0.002201	0.221206	-0.16462	0.202658	0.133829	0.930212	0.137135	0.909081	0.812377
RAB39B	-0.00201	-0.13029	0.23169	-0.05404	0.988297	0.338509	0.085766	0.692414	0.123982	-0.33654	0.32591	-0.38183	0.794155	0.011102	0.985548	0.004416
GRIN3A	0.005926	-0.10784	0.205655	-0.16915	0.965428	0.433247	0.128366	0.212658	0.032559	-0.27177	0.063537	-0.26115	0.585041	0.033843	0.660799	0.039796
GRIN3B	-0.19606	-0.22063	0.12263	-0.38527	0.143833	0.102254	0.363477	0.003081	-0.21778	-0.39913	0.09264	-0.36947	0.072985	0.003	0.727498	0.005752
TOP1MT	-0.00345	0.173345	-0.0717	0.111142	0.979671	0.201377	0.596095	0.410468	0.042171	0.310753	-0.19535	0.218823	0.609598	0.982223	0.09922	0.928001
OLIG1	0.059188	-0.18138	0.274993	-0.21818	0.66186	0.180961	0.038428	0.103002	0.08659	-0.36095	0.140062	-0.31236	0.716406	0.006861	0.820602	0.017281
CLNK	-0.22555	-0.11754	0.049048	0.061145	0.094639	0.392732	0.719611	0.654396	-0.0894	-0.23027	0.185183	-0.17755	0.279611	0.064034	0.885598	0.121636
TSEN15	-0.05557	0.099426	-0.06956	0.164033	0.681372	0.465961	0.60716	0.222744	0.025126	0.012551	0.001043	0.094167	0.565823	0.532989	0.502711	0.733187
FAM129A	0.235911	-0.13865	0.107072	-0.0625	0.077286	0.308166	0.427922	0.644185	0.209127	-0.25536	0.263741	-0.30736	0.918464	0.043372	0.959991	0.018862
MAS1L	-0.01106	-0.1419	0.148514	-0.12075	0.935541	0.301402	0.274665	0.375368	-0.06458	-0.33879	-0.10594	-0.27965	0.334903	0.010637	0.244266	0.029902
MRGPRD	0.011254	-0.28704	0.259791	-0.03255	0.934393	0.033603	0.053163	0.811741	-0.03538	-0.42548	0.082396	-0.34456	0.407725	0.0016	0.704743	0.009516
APOA5	-0.02927	-0.14862	0.201238	-0.14091	0.828889	0.274314	0.133341	0.295775	-0.01611	-0.29464	0.053005	-0.31544	0.457682	0.023422	0.635256	0.016365
MRGPRE	-0.00603	-0.1714	0.294771	-0.04762	0.964496	0.206571	0.026022	0.72501	0.189094	-0.29318	0.152649	-0.19582	0.895912	0.023998	0.841603	0.096075
MRPL53	-0.01561	0.145687	-0.19161	-0.11513	0.908236	0.284008	0.153335	0.393756	-0.21516	0.240151	-0.17202	0.197689	0.075497	0.946037	0.129257	0.906069
MRPL54	-0.14128	-0.01967	0.074185	-0.18079	0.294521	0.885608	0.583394	0.178361	-0.09106	-0.32915	-0.17168	-0.30665	0.275961	0.013629	0.132576	0.02024
DYSFIP1	-0.01015	-0.14767	0.14407	-0.15563	0.940279	0.277448	0.284982	0.247667	0.114129	-0.35505	0.12465	-0.31819	0.774945	0.007734	0.792702	0.01558
RPL39L	-0.06119	-0.04797	-0.31556	-0.04479	0.651149	0.725503	0.016799	0.740757	-0.11698	0.415935	-0.19816	0.224256	0.219407	0.997979	0.095971	0.932969
HSPA12B	0.184624	-0.24636	0.363752	-0.03428	0.169177	0.067203	0.005412	0.800157	0.17637	-0.35183	0.21032	-0.1226	0.879501	0.008247	0.917238	0.208486
CNTROB	-0.09726	0.058554	-0.07445	-0.18061	0.471685	0.668166	0.582046	0.178792	-0.03547	0.189188	-0.02045	0.001265	0.407474	0.896026	0.446966	0.503327
SNAP47	-0.20092	0.160526	-0.10309	-0.03529	0.133968	0.237262	0.445412	0.794389	-0.07277	0.370426	-0.26687	0.236733	0.315407	0.994363	0.038186	0.943405
LEAP2	-0.03639	-0.03527	0.200971	-0.0553	0.790057	0.796378	0.137489	0.685603	0.139265	-0.21233	0.201126	-0.19421	0.822011	0.078287	0.907383	0.097951
C6orf192	-0.13998	0.013184	-0.19503	0.184833	0.299006	0.923174	0.145996	0.168686	-0.09776	0.38876	-0.21972	0.303238	0.261447	0.995845	0.075916	0.978561
LRG1	-0.20817	0.001324	0.134473	0.11435	0.120206	0.992276	0.31862	0.397008	-0.30977	-0.02579	0.004867	-0.11635	0.018087	0.432466	0.512657	0.22065
MED12L	0.122394	-0.04484	0.12477	-0.18134	0.364409	0.742821	0.355099	0.177015	0.006764	-0.15461	-0.0017	0.037202	0.517587	0.155269	0.49564	0.595849
SNORD83A	-0.02538	-0.02155	0.137104	0.062299	0.852674	0.875917	0.313637	0.648298	-0.02966	-0.1047	0.06436	0.012275	0.423312	0.246834	0.660949	0.531894
SNORD83B	-0.01982	-0.10616	0.179742	-0.15005	0.883669	0.436164	0.180936	0.265241	0.158261	-0.31174	0.197917	-0.30601	0.853251	0.017473	0.903754	0.01931
WDR17	-0.02951	-0.18446	0.059935	-0.28546	0.827482	0.173529	0.65786	0.031366	-0.05054	-0.36908	-0.01828	-0.25926	0.369353	0.005799	0.452558	0.040937
ART5	-0.08327	0.022693	0.130526	-0.1567	0.538015	0.868148	0.333161	0.244405	0.042854	-0.33663	0.027541	-0.26207	0.611327	0.011084	0.57126	0.039254
ACAP3	-0.04729	0.095849	0.007005	-0.02068	0.726857	0.482236	0.958756	0.878639	-0.09735	0.250896	-0.08984	0.165014	0.259911	0.953701	0.278637	0.863442
ARAP2	-0.1738	0.470482	-0.30274	0.241745	0.196015	0.000253	0.022077	0.070037	-0.1205	0.567138	-0.22348	0.320778	0.212515	0.99998	0.070011	0.98513
ARAP1	-0.13348	-0.16534	-0.00445	0.067805	0.326724	0.227688	0.974059	0.619517	-0.23798	-0.04243	-0.05199	0.002429	0.055626	0.389755	0.367242	0.50639
AGAP2	-0.06509	-0.25262	0.205635	0.230189	0.630496	0.060326	0.124891	0.084961	-0.13553	-0.07391	0.099657	-0.00826	0.184582	0.312729	0.742584	0.478263
AGAP1	-0.20376	0.012168	0.083892	-0.19656	0.128448	0.929074	0.534974	0.1428	-0.1927	-0.18059	-0.02071	-0.27844	0.099733	0.114872	0.446305	0.030481
AGAP3	-0.03018	-0.01777	0.072738	-0.10216	0.823657	0.89656	0.590782	0.449545	0.084148	0.105482	0.192373	-0.07232	0.708693	0.75478	0.894541	0.318417
ADCYAP1R	0.3574	-0.2531	0.340597	-0.07146	0.006347	0.059823	0.009528	0.597318	0.135144	-0.22517	0.329831	-0.04171	0.814736	0.066225	0.986539	0.391582
TADA1L	0.056564	0.217493	-0.1274	0.200616	0.676005	0.107355	0.344962	0.13457	-0.01723	0.40102	0.003966	0.312739	0.454755	0.997127	0.510315	0.982833
CATSPER1	-0.00993	-0.10328	0.182632	-0.2726	0.94156	0.44878	0.173905	0.040217	0.030961	-0.48926	0.167923	-0.46795	0.580925	0.00028	0.864902	0.00052
THEM4	0.238824	0.131524	0.133654	0.148391	0.073595	0.333922	0.321605	0.270628	0.229471	0.062597	0.150451	0.269666	0.937494	0.660297	0.838052	0.965036
MIA2	-0.02812	-0.12146	0.100026	-0.08511	0.8355	0.372518	0.459113	0.52904	0.063953	-0.34202	0.059832	-0.23673	0.663577	0.009995	0.651888	0.056595

DACH2	0.018336	-0.24524	0.175522	-0.02016	0.892315	0.068493	0.191564	0.881702	0.173282	-0.49567	0.176228	-0.38355	0.875268	0.00023	0.876568	0.004254
CATSPER2	-0.39215	0.201098	-0.25135	0.023855	0.002798	0.140964	0.061671	0.861463	-0.22338	0.216606	-0.27767	0.142762	0.067818	0.925896	0.032391	0.828046
SCGB3A2	0.28017	-0.22351	0.237031	-0.03127	0.034785	0.097744	0.07585	0.817369	0.192844	-0.28439	0.135135	-0.25053	0.900434	0.027716	0.811941	0.046542
SH2D1B	-0.00598	-0.13567	0.097906	-0.15239	0.965093	0.323339	0.472842	0.262197	-0.05693	-0.07275	-0.06304	-0.1029	0.35514	0.317414	0.34218	0.25058
DCD	0.068711	0.004999	0.278249	-0.10506	0.611549	0.970834	0.036102	0.436717	0.032386	-0.34999	0.196595	-0.17091	0.584595	0.008554	0.90223	0.128056
WFIKKN1	-0.00572	-0.05132	0.268134	-0.18995	0.966301	0.707183	0.043736	0.156997	-0.02723	-0.42942	0.214867	-0.45057	0.42953	0.001622	0.919342	0.000948
RAB3IP	-0.04529	0.052051	-0.0123	-0.09889	0.737956	0.703211	0.927643	0.464272	0.070174	-0.19385	0.021699	-0.20055	0.676545	0.100983	0.555594	0.093257
SSX2IP	-0.0539	0.120018	-0.33239	0.062595	0.690496	0.378282	0.011532	0.643677	-0.24143	0.39185	-0.19589	0.305182	0.053005	0.996461	0.09859	0.980414
MRGPRX2	-0.02798	-0.22364	0.116861	-0.34767	0.837795	0.100737	0.391042	0.008653	0.053246	-0.32761	0.174344	-0.23001	0.637372	0.013123	0.873983	0.062048
MRGPRX3	-0.01841	0.021226	0.203853	-0.18918	0.892887	0.877754	0.13182	0.162599	0.148329	-0.26947	0.078819	-0.27565	0.834578	0.036722	0.694473	0.033417
MRGPRX4	0.182645	-0.09001	0.260565	-0.28912	0.173874	0.509447	0.050277	0.029164	0.132754	-0.39437	0.110418	-0.47693	0.810435	0.003344	0.764876	0.000402
HRASLS5	0.083623	-0.2701	0.242538	-0.27137	0.536289	0.044088	0.069095	0.041161	0.109958	-0.61026	0.187202	-0.42596	0.766527	3.35E-06	0.890909	0.001581
FTSJ3	-0.18841	0.191001	-0.26528	0.263949	0.164333	0.162454	0.048159	0.049336	-0.21179	0.459713	-0.18927	0.354641	0.081259	0.999256	0.109252	0.991583
SLC16A10	0.157613	-0.20091	0.083048	-0.03163	0.24163	0.137618	0.539103	0.815309	0.256718	-0.31853	0.136397	-0.29534	0.957486	0.015484	0.814183	0.023149
GALNTL2	0.274174	-0.40496	0.270143	0.025449	0.040873	0.002163	0.044054	0.852303	0.643915	-0.55465	0.349902	-0.56468	0.999999	3.17E-05	0.990768	2.18E-05
IP6K3	0.010117	0.098468	-0.01807	-0.30507	0.941006	0.474468	0.894812	0.022238	-0.24209	-0.29497	0.010509	-0.3303	0.05251	0.023291	0.527311	0.012486
DEFB118	-0.06461	0.17633	-0.00421	-0.19757	0.636168	0.197822	0.975453	0.144415	0.05039	-0.23259	0.125895	-0.34007	0.630268	0.05991	0.795044	0.010379
CIB3	-0.0561	-0.17888	0.14722	-0.20229	0.67853	0.187136	0.274469	0.131276	0.002735	-0.28442	0.105872	-0.35689	0.507197	0.027703	0.755587	0.007452
TAGAP	-0.14888	-0.37872	0.031625	0.458366	0.273474	0.004356	0.817022	0.000381	-0.26926	-0.25368	-0.02851	-0.07098	0.036837	0.046337	0.427126	0.32156
AP2M1	0.126824	0.133393	-0.15335	0.155748	0.351633	0.331602	0.25915	0.251699	-0.0071	0.604171	-0.20258	0.407965	0.481318	0.999996	0.091006	0.997557
AP1S1	-0.20522	-0.02897	-0.1586	-0.05806	0.125679	0.832158	0.238655	0.667954	-0.17487	0.219246	-0.17391	0.042516	0.122545	0.928397	0.126617	0.610472
AP2S1	-0.0237	0.096207	0.048113	-0.05691	0.861076	0.480593	0.722287	0.674155	-0.10378	0.347598	-0.20082	0.174942	0.246239	0.991033	0.092962	0.877556
TMC1	-0.00121	-0.14368	0.174437	-0.42604	0.992966	0.295301	0.198511	0.001061	0.101653	-0.37141	0.019511	-0.34336	0.749277	0.005522	0.550613	0.00974
TMC2	0.022427	-0.13458	0.271965	-0.21096	0.868479	0.322724	0.040702	0.115208	0.143442	-0.35466	0.088718	-0.40046	0.826401	0.008414	0.716569	0.003206
RLN3	-0.12254	-0.22619	0.171308	-0.17033	0.363826	0.093688	0.202615	0.205252	0.031612	-0.52017	0.120151	-0.38642	0.58166	0.000125	0.781381	0.004371
TWIST2	0.081962	0.046501	0.014466	0.32717	0.544441	0.733619	0.914948	0.012986	-0.04282	0.161417	0.08687	0.292725	0.388753	0.858073	0.714784	0.975821
PARD3B	0.083545	-0.09624	0.191448	-0.30828	0.536669	0.480437	0.153693	0.019647	-0.22088	0.098968	0.01911	0.132449	0.070086	0.743564	0.549578	0.809883
RFFL	-0.09374	0.311624	0.01691	0.15951	0.49195	0.020559	0.901555	0.240284	-0.21113	0.448085	-0.2462	0.21553	0.079495	0.999104	0.05152	0.924859
AP3S1	0.161334	0.106094	-0.09982	0.094727	0.230553	0.436435	0.460041	0.483359	0.188162	0.15843	0.048253	0.077655	0.894765	0.853512	0.623531	0.696012
ZNF354B	-0.09129	0.066635	-0.0106	0.008241	0.503427	0.628836	0.9382	0.951933	0.170285	0.065808	0.121594	0.019799	0.871063	0.668046	0.786891	0.551954
CLC	-0.00036	-0.16278	0.180047	-0.13651	0.997883	0.230657	0.180183	0.311293	-0.01429	-0.51768	0.124131	-0.34654	0.462461	0.000115	0.791723	0.009154
TRIM6	0.15539	0.099808	0.040002	0.001428	0.248416	0.464242	0.76766	0.991586	0.178605	-0.09993	0.167524	0.01754	0.882504	0.254372	0.864325	0.546053
CLCA1	-0.10062	-0.12595	0.014997	-0.14957	0.460582	0.359517	0.912645	0.271242	0.11749	-0.34079	0.272954	-0.2042	0.781605	0.010236	0.965171	0.086716
ADD1	0.306607	-0.02582	0.091926	0.112233	0.020356	0.850164	0.496448	0.405862	0.180518	-0.00715	0.374799	0.088156	0.885034	0.481192	0.994405	0.719914
CLCN1	0.214401	-0.16308	0.207447	-0.33885	0.112567	0.234182	0.125	0.010632	-0.07664	-0.0143	-0.00676	-0.1679	0.306336	0.462422	0.482413	0.13235
CLCN2	0.157659	-0.13647	0.236733	-0.1116	0.24149	0.315903	0.076229	0.40854	0.199374	-0.09113	0.328998	-0.0747	0.907975	0.273489	0.986333	0.310864
CLCN3	-0.03036	0.222476	-0.19006	-0.05264	0.822585	0.099346	0.156753	0.697379	-0.12654	0.370922	-0.16635	0.246809	0.201016	0.994421	0.137392	0.950892
CLCN4	0.070241	-0.33181	0.14163	-0.43874	0.603622	0.01248	0.293303	0.00064	0.025524	-0.68566	0.163286	-0.46573	0.566856	7.28E-08	0.858082	0.000554
CLCN5	0.060921	0.103059	-0.15697	0.174378	0.655579	0.454009	0.247963	0.198663	0.126932	0.22305	-0.20723	0.010058	0.799717	0.931889	0.085983	0.526446
UBE2J2	0.011992	0.107696	0.086173	-0.0673	0.929451	0.429501	0.523885	0.618916	-0.24776	0.304198	-0.07422	0.115152	0.048442	0.980079	0.313998	0.776984
LOH12CR1	0.205305	0.108985	0.278084	0.145823	0.12551	0.423965	0.036217	0.279098	0.160821	0.1042	0.181496	0.067944	0.857171	0.754635	0.883603	0.67316
OLFM3	0.050956	-0.12219	0.093173	-0.32156	0.706594	0.369669	0.490597	0.014725	-0.0041	-0.32923	0.043034	-0.2762	0.489222	0.012736	0.610524	0.031579
ANTXR2	0.239807	-0.23198	0.085712	0.226583	0.072381	0.085357	0.52612	0.090097	0.312709	-0.20965	0.26832	-0.10901	0.982824	0.080995	0.962636	0.235407
MUCL1	-0.12544	0.269661	-0.07585	-0.21508	0.352494	0.044447	0.574944	0.108118	-0.2745	-0.06398	0.01414	0.038763	0.032436	0.336351	0.536725	0.600935
RPL23AP7	0.144359	0.057822	0.121876	-0.21484	0.284006	0.672079	0.366458	0.108529	0.040462	-0.27344	-0.00395	-0.39024	0.605258	0.032978	0.489726	0.003668
GPR62	-0.09532	-0.02651	0.187902	-0.15907	0.480609	0.846197	0.161602	0.237251	0.161129	-0.39547	0.138031	-0.40612	0.854835	0.003585	0.814211	0.002819
EXOSC6	-0.04877	-0.10839	0.240578	-0.10966	0.718661	0.426527	0.071442	0.416781	0.223447	-0.54342	0.283661	-0.47441	0.929957	5.73E-05	0.968977	0.000497
C10orf71	0.107072	0.038337	0.360805	-0.19325	0.427926	0.77908	0.00583	0.14979	0.03174	-0.03888	0.226066	-0.1358	0.582933	0.398776	0.932311	0.184097
PRAP1	-0.02771	-0.15727	0.24214	-0.21731	0.837862	0.247027	0.069566	0.104427	0.115572	-0.47134	0.202782	-0.34281	0.777818	0.000473	0.909217	0.009844
ZNF511	0.011922	-0.08678	0.031673	0.097096	0.929862	0.524784	0.815071	0.47244	-0.25556	0.221144	-0.2054	0.237585	0.043246	0.930156	0.087937	0.944071

CHCHD1	-0.13464	0.086173	-0.35413	-0.11957	0.322511	0.5316	0.007413	0.380076	-0.34125	0.245494	-0.19268	0.179249	0.010146	0.949961	0.102382	0.88336
ZMYND17	0.015787	0.027953	0.213195	0.20872	0.907211	0.837959	0.111319	0.119208	0.001589	-0.25683	0.079114	-0.10749	0.504181	0.042444	0.697279	0.238529
TTC18	-0.09347	-0.21168	0.053119	-0.18081	0.489227	0.117315	0.694739	0.178302	-0.12198	-0.34087	0.07581	-0.26386	0.209662	0.010219	0.689684	0.038207
CLCN6	-0.04973	-0.02006	0.129131	-0.10281	0.713335	0.883336	0.338398	0.446662	-0.02572	-0.02159	0.052127	-0.14479	0.432643	0.44337	0.633099	0.168516
CLCN7	-0.00978	-0.03948	0.003227	0.095473	0.942418	0.772668	0.980996	0.479906	-0.02681	0.13595	-0.06179	0.062491	0.429799	0.816172	0.34339	0.66004
C10orf90	0.104902	-0.01682	0.12634	-0.10354	0.437399	0.902094	0.34903	0.443427	0.125126	-0.46971	0.210895	-0.40668	0.796321	0.000495	0.917828	0.002519
BTBD16	-0.01431	-0.05625	0.090873	-0.4778	0.915873	0.680513	0.501414	0.000171	-0.01827	-0.4087	0.255656	-0.34929	0.452579	0.002657	0.95303	0.009343
FAM24A	0.116111	0.017481	0.216399	-0.39922	0.389729	0.898247	0.105921	0.002096	0.155331	-0.42587	0.203184	-0.34184	0.848679	0.001584	0.909659	0.010031
PSTK	-0.13849	0.332234	-0.13793	-0.21744	0.304261	0.012362	0.306206	0.104216	-0.03055	0.010295	-0.11308	-0.1885	0.42014	0.527069	0.229766	0.104817
CLCNKA	0.100163	-0.15479	0.343876	-0.07069	0.458495	0.254658	0.008816	0.601284	0.136744	-0.31024	0.197929	-0.13941	0.817582	0.017939	0.903768	0.177737
ZNF488	0.113179	-0.06075	0.17375	-0.21237	0.401889	0.656481	0.196156	0.112736	0.270667	-0.23935	0.232379	-0.24542	0.965571	0.054573	0.937742	0.050092
PIK3AP1	0.028935	-0.39108	0.177535	0.201829	0.830814	0.00288	0.186439	0.132181	0.170422	-0.43581	0.209774	-0.32477	0.871258	0.001233	0.916676	0.013828
CLCNKB	-0.20121	-0.15605	0.143132	-0.37666	0.133399	0.250769	0.288163	0.003878	-0.01592	-0.47815	0.17255	-0.41213	0.458183	0.000388	0.871488	0.002214
MORN4	-0.25204	-0.13598	-0.07984	-0.39222	0.058572	0.317667	0.554926	0.002549	-0.36483	-0.37696	0.03123	-0.28496	0.006335	0.004907	0.580688	0.02746
ZFYVE27	-0.19713	0.052565	0.052292	0.050552	0.14161	0.700419	0.699266	0.708818	-0.11506	0.279541	-0.1903	0.115845	0.223196	0.970045	0.105265	0.77836
MMP21	-0.02695	-0.18136	0.171584	-0.17203	0.842274	0.18101	0.201878	0.200695	0.090862	-0.43295	0.146905	-0.2421	0.725927	0.001327	0.83222	0.052506
COMTD1	-0.01579	-0.22503	0.110735	-0.15667	0.9072	0.095428	0.412196	0.244482	0.10019	-0.34069	0.089637	-0.26093	0.746171	0.010256	0.720915	0.039928
C10orf4	0.099571	0.114477	-0.08118	0.046712	0.46117	0.400845	0.548305	0.730063	0.268413	-0.05877	-0.02263	-0.00459	0.962688	0.350683	0.442024	0.488057
ANKRD22	-0.04092	0.38579	-0.18392	-0.09548	0.764604	0.003627	0.174805	0.483936	-0.11788	0.605721	-0.23609	0.338446	0.217639	0.999996	0.059219	0.989294
SFXN2	-0.01806	0.008001	0.12883	-0.02635	0.893942	0.953331	0.339535	0.845714	0.278864	-0.00443	0.144952	-0.04667	0.969721	0.488352	0.828952	0.379042
PDZD8	0.017498	0.226201	-0.26576	0.119712	0.898152	0.096789	0.047737	0.379509	-0.00337	0.562346	-0.05035	0.333288	0.491125	0.999976	0.371292	0.988195
ADD2	-0.05372	-0.15973	0.125436	-0.11304	0.691462	0.239629	0.352516	0.40247	0.115497	-0.32205	0.083487	-0.14716	0.777668	0.01453	0.707206	0.164544
C10orf32	0.008872	-0.01174	-0.25315	0.000517	0.947776	0.93154	0.057438	0.996956	-0.13569	0.270342	-0.21438	0.15901	0.184297	0.965398	0.078666	0.854404
CLU	0.345904	-0.37913	0.241891	-0.05071	0.00902	0.004311	0.07248	0.710534	0.533728	-0.42242	0.375882	-0.30249	0.999933	0.001725	0.99453	0.020512
LYZL2	-0.14666	-0.13914	-0.03098	-0.1285	0.276302	0.306422	0.819033	0.340784	-0.0676	-0.05932	0.140577	-0.22085	0.327661	0.347681	0.821493	0.070119
CLIC1	-0.1864	0.323268	-0.30287	-0.12104	0.16503	0.015091	0.022021	0.369782	-0.41696	0.547583	-0.37562	0.310615	0.001971	0.999959	0.005499	0.982179
CLIC2	0.235803	-0.15408	0.079812	0.283324	0.080196	0.261382	0.558735	0.034349	0.199452	-0.17471	0.222786	0.162078	0.908063	0.122758	0.929354	0.85907
LOC119358	-0.05858	-0.09988	0.075499	-0.22077	0.665149	0.46392	0.576724	0.098883	0.087172	-0.27195	0.012617	-0.33767	0.717712	0.033752	0.53278	0.010865
NUDT9P1	0.14701	-0.12096	0.118315	0.011739	0.275161	0.374521	0.380731	0.930936	0.016404	-0.31544	0.129275	-0.36258	0.543082	0.016364	0.801323	0.006636
AGAP11	0.184059	0.136634	-0.07664	0.146358	0.170508	0.315315	0.570957	0.27732	0.320971	0.066781	0.134294	0.048463	0.985182	0.670378	0.810439	0.625454
GSTO2	-0.16785	-0.11708	0.045055	-0.04862	0.212021	0.390152	0.739291	0.719498	-0.23055	0.100742	0.1683	0.092654	0.061596	0.747346	0.865448	0.729875
C10orf78	0.158216	0.186689	-0.12188	0.033984	0.239809	0.1683	0.366435	0.801846	0.027446	0.29355	-0.03898	0.207308	0.57184	0.97615	0.399655	0.916576
CALHM3	-0.07546	-0.09557	0.210729	-0.16338	0.576924	0.483502	0.115615	0.224624	0.030029	-0.37853	0.155176	-0.26739	0.578519	0.004743	0.845624	0.036206
CLRN3	0.09941	-0.06286	0.24985	-0.21807	0.461899	0.645339	0.060877	0.103179	0.042462	-0.11429	0.086743	-0.19827	0.610335	0.224734	0.714502	0.09327
CLK1	0.085725	0.122196	-0.10299	0.270247	0.526055	0.369627	0.445825	0.04204	0.340756	0.093709	-0.01007	0.031553	0.989758	0.732187	0.473823	0.582451
C10orf104	-0.03891	0.232005	-0.18078	0.165154	0.773819	0.085329	0.178385	0.219554	0.053717	0.275784	-0.07351	0.174698	0.638538	0.968212	0.315647	0.877222
PNLIPRP3	-0.04266	0.013108	-0.02557	-0.22523	0.752692	0.923614	0.850236	0.092082	0.00961	-0.11914	0.237338	-0.22487	0.52527	0.215162	0.941773	0.06649
SFXN4	-0.03929	0.149516	-0.17707	0.057269	0.771662	0.271404	0.187614	0.672191	-0.23926	0.38388	-0.34661	0.241362	0.054642	0.995777	0.009837	0.946946
CPXM2	0.381688	-0.10365	0.274574	0.263543	0.0037	0.451428	0.040567	0.0497	0.337067	-0.09476	0.180312	0.12549	0.989009	0.265528	0.882046	0.797009
CLK2	-0.089	0.075771	0.076566	0.068784	0.510325	0.578875	0.571337	0.611167	0.192941	-0.11793	-0.00584	0.065974	0.895226	0.222905	0.48518	0.664759
OR52E2	0.039435	-0.20744	0.083013	-0.35569	0.770865	0.125009	0.539275	0.006621	0.181887	-0.49142	0.02705	-0.31505	0.884114	0.000304	0.569184	0.017519
OR52J3	0.049452	-0.16165	0.224496	-0.31025	0.714884	0.233957	0.093179	0.018838	-0.01788	-0.36339	0.04184	-0.33402	0.453055	0.006527	0.607533	0.011644
OR51L1	0.113024	-0.01819	0.099222	-0.33036	0.40689	0.895138	0.466883	0.012894	0.222951	-0.28773	0.031626	-0.28086	0.929505	0.027644	0.580743	0.03082
OR51A7	-0.05272	0.014403	0.123051	-0.34353	0.696902	0.916094	0.36182	0.008889	0.195464	-0.29046	0.188736	-0.33441	0.900912	0.026457	0.89008	0.012376
OR51S1	0.033851	-0.07902	0.15677	-0.26899	0.802604	0.562635	0.244187	0.043045	0.143038	-0.41022	0.071005	-0.35993	0.828517	0.002317	0.678496	0.007006
OR51F2	0.229038	-0.10055	0.205571	-0.32779	0.086574	0.460919	0.12501	0.012807	0.126072	-0.34484	0.195498	-0.23002	0.798104	0.009464	0.900952	0.062046
OR52R1	0.036745	-0.04098	0.113577	-0.20417	0.786109	0.764283	0.400227	0.127665	0.101218	-0.429	0.108169	-0.31026	0.745881	0.001639	0.757696	0.019028
CLK2P	-0.00807	-0.1669	0.242925	0.136488	0.952463	0.218903	0.068639	0.311356	0.069213	-0.16735	0.248427	-0.07093	0.676183	0.133145	0.950068	0.319746
C11orf74	-0.09809	-0.04349	-0.0747	-0.29479	0.467874	0.750292	0.580798	0.026011	-0.2761	-0.17377	0.083066	0.004645	0.031628	0.124057	0.706257	0.512219
OR4C46	0.055238	-0.01133	-0.09144	-0.32636	0.685954	0.934584	0.502692	0.014098	-0.08288	-0.20844	-0.00716	-0.13567	0.29199	0.082243	0.481373	0.184334

OR4X2	0.223331	-0.08533	0.313802	-0.33845	0.094935	0.531797	0.017452	0.01002	0.224019	-0.46407	0.167753	-0.48668	0.932758	0.00058	0.864657	0.000302
OR4B1	0.061745	-0.19088	0.186711	-0.12886	0.648196	0.158775	0.164326	0.339407	0.121958	-0.40153	0.182961	-0.27565	0.790287	0.002839	0.88551	0.031854
OR52M1	-0.03618	-0.01331	0.096988	-0.06806	0.789313	0.922437	0.472931	0.614949	0.127854	-0.24856	0.106614	-0.23213	0.801437	0.047892	0.757116	0.060288
OR52K2	0.050356	-0.27074	0.164429	-0.31576	0.709896	0.043571	0.221615	0.016727	-0.00133	-0.3071	0.235436	-0.19711	0.496498	0.018947	0.940251	0.094596
CLK3	-0.02179	0.130065	0.112927	0.017483	0.872182	0.339361	0.402946	0.897296	0.00662	0.110555	0.155338	0.047708	0.517212	0.765152	0.843	0.622178
SERPINA3	0.238102	-0.40135	0.34948	0.20351	0.074496	0.002172	0.007707	0.128923	0.462555	-0.5241	0.316698	-0.33824	0.999395	9.26E-05	0.98298	0.010749
ADD3	-0.07928	0.265008	-0.2604	-0.00061	0.55775	0.048398	0.050432	0.996405	0.048499	0.222811	-0.04183	0.170752	0.62414	0.929377	0.39373	0.868956
TPP1	0.054953	0.045316	-0.07083	0.463567	0.684744	0.740164	0.600576	0.000282	-0.01196	0.323929	0.019321	0.323912	0.468567	0.985958	0.550123	0.985954
OR5P2	-0.05656	-0.09531	-0.04711	0.16544	0.676025	0.484709	0.72785	0.218747	0.048435	-0.21525	0.073909	-0.11332	0.625382	0.075417	0.685277	0.226682
OR5P3	0.115563	-0.11277	0.189905	0.189828	0.396363	0.412358	0.160957	0.161129	0.11289	-0.31005	0.051377	-0.19138	0.772461	0.017999	0.631251	0.101311
GYLTL1B	0.060527	0.021727	0.145389	-0.0252	0.654693	0.873716	0.280548	0.852407	0.115149	0.095479	0.009281	0.093445	0.776977	0.736042	0.524126	0.73161
CLN3	-0.01334	-0.02569	-0.0865	0.148237	0.92154	0.850911	0.52231	0.271131	-0.12614	0.382306	-0.22618	0.116677	0.201773	0.995629	0.067588	0.780004
SLC36A4	-0.05397	0.11645	-0.14957	0.020778	0.690077	0.392721	0.266782	0.878076	0.004282	0.132478	-0.08583	0.067447	0.511265	0.809935	0.287538	0.671972
FAT3	0.23638	-0.28369	0.299662	-0.16392	0.076682	0.034108	0.023538	0.22308	0.017376	-0.41136	0.123872	-0.21493	0.545626	0.002255	0.791232	0.075723
TMEM45B	-0.12772	0.274891	-0.20385	-0.13162	0.348224	0.042242	0.131824	0.333584	-0.22802	0.155083	-0.15655	0.101158	0.065973	0.845477	0.155104	0.745756
CYP2R1	-0.07288	0.396957	-0.19978	0.206854	0.590057	0.002453	0.136227	0.122621	-0.0148	0.489775	-0.19517	0.262113	0.461113	0.999725	0.099431	0.960773
DBX1	-0.21462	0.022547	0.101882	-0.1987	0.10889	0.868992	0.450781	0.138402	-0.01619	-0.33931	0.027168	-0.35884	0.457489	0.01053	0.570306	0.007164
CLN5	0.019769	0.169292	-0.19932	0.054511	0.883952	0.21228	0.137153	0.687147	0.003363	0.198403	0.032584	0.161537	0.508847	0.90688	0.584135	0.858254
CASP12	0.219395	-0.11686	0.21472	0.022521	0.101058	0.391065	0.108724	0.867933	0.114666	-0.40085	0.32586	-0.38231	0.773384	0.003179	0.984559	0.004774
LOC120364	0.079947	0.149126	0.173518	0.000977	0.558069	0.277198	0.200922	0.9943	0.12556	-0.15936	-0.00253	-0.15183	0.79714	0.145062	0.493417	0.1569
PIH1D2	-0.12041	-0.11816	0.000541	-0.20868	0.372299	0.385779	0.996816	0.119286	-0.18907	-0.26855	0.064281	-0.18544	0.104118	0.035568	0.662579	0.108637
FAM55A	0.344014	-0.25726	0.284679	-0.25113	0.00943	0.057945	0.033461	0.061906	0.092325	-0.48282	0.315153	-0.38755	0.729152	0.000339	0.982514	0.003895
FAM55B	0.19752	-0.18372	0.217509	0.03695	0.144514	0.179378	0.107328	0.78688	0.354392	-0.28904	0.076149	-0.32041	0.992164	0.025695	0.690465	0.014968
AMICA1	-0.10425	-0.28269	0.052083	0.519296	0.440259	0.034769	0.700412	3.49E-05	-0.36134	-0.15446	-0.04018	0.023893	0.006808	0.152696	0.396635	0.562618
DNAJC24	0.044696	0.233661	-0.07229	0.161317	0.741299	0.083059	0.593097	0.230605	0.302376	0.260977	0.144362	0.060363	0.979447	0.960098	0.827958	0.654869
C11orf46	0.063168	0.107994	-0.09717	0.029371	0.640639	0.428215	0.47209	0.8283	-0.03252	-0.00162	0.095098	0.094042	0.415049	0.49574	0.73283	0.732915
OR8I2	-0.00951	0.023242	0.094537	-0.13938	0.944519	0.866243	0.488278	0.305587	0.022772	-0.1772	-0.03627	-0.30157	0.559017	0.12212	0.407585	0.022048
CLNS1A	0.153695	0.231365	-0.17276	0.156171	0.253677	0.086219	0.198764	0.246018	-0.08228	0.56832	-0.10138	0.397362	0.293346	0.999981	0.253787	0.996876
OR2D3	-0.0163	-0.0882	0.059221	-0.35679	0.905076	0.521959	0.664614	0.00695	-0.0264	-0.32028	0.100476	-0.31209	0.430883	0.015005	0.744316	0.017366
OR2D2	-0.03726	-0.25679	-0.00386	-0.21165	0.783169	0.056069	0.977243	0.113995	0.007012	-0.34578	-0.05218	-0.25506	0.518445	0.009293	0.366775	0.043564
OR52W1	0.010767	-0.23139	0.156266	-0.3484	0.936643	0.086179	0.245725	0.00791	0.170946	-0.50884	0.203759	-0.40036	0.871999	0.000153	0.910288	0.002917
OR56A4	0.031163	-0.34333	0.178801	-0.18421	0.818001	0.009583	0.183266	0.170157	-0.07439	-0.42536	0.078875	-0.19333	0.311587	0.001605	0.696732	0.098996
OR56A1	-0.08878	0.05199	0.077152	-0.16719	0.511359	0.703543	0.568387	0.213846	0.195065	-0.32501	0.115948	-0.37474	0.900445	0.014687	0.773223	0.005602
CLPS	0.091812	-0.13135	0.20941	-0.24938	0.496985	0.334577	0.117965	0.061376	0.250701	-0.22014	0.171998	-0.29166	0.95357	0.070771	0.870714	0.024609
LOC120824	0.234756	-0.2967	0.175322	-0.30677	0.078789	0.026384	0.192078	0.020285	0.064678	-0.36047	0.119146	-0.28918	0.665327	0.006929	0.782171	0.025634
DEPDC4	-0.11752	0.081209	-0.31896	-0.17198	0.38395	0.551852	0.015596	0.200819	-0.1531	0.166453	-0.1107	0.020293	0.154856	0.865551	0.234546	0.553244
LRRK2	0.163318	-0.28115	0.081124	0.082344	0.229097	0.037587	0.552266	0.546284	-0.07078	-0.2789	0.119486	-0.24286	0.322028	0.031777	0.780102	0.053971
CLPTM1	0.013345	0.112624	-0.05016	-0.04024	0.921518	0.408564	0.711003	0.766327	-0.11091	0.503147	-0.16577	0.295551	0.231542	0.999817	0.138236	0.976933
CCDC38	0.061806	-0.17731	0.146657	-0.28475	0.647868	0.191109	0.276328	0.031807	-0.04952	-0.39908	0.152898	-0.30665	0.371897	0.003004	0.842002	0.019097
C12orf59	0.142159	-0.21129	0.262993	-0.24631	0.291487	0.118007	0.048098	0.064755	0.190669	-0.18204	0.217062	-0.26258	0.897829	0.112985	0.923965	0.038951
FAM186A	0.113639	-0.15368	0.278806	-0.19555	0.404326	0.262625	0.037453	0.148653	-0.03329	-0.35147	0.132889	-0.22729	0.413091	0.008307	0.807912	0.064373
C12orf45	0.076972	0.347654	-0.11891	0.297014	0.56929	0.008655	0.378308	0.024857	-0.14123	0.529256	-0.27289	0.421484	0.174579	0.999922	0.034862	0.998234
CLTA	-0.2126	0.209989	-0.30131	0.079443	0.112341	0.12034	0.022747	0.556919	-0.34725	0.502534	-0.32727	0.324177	0.009029	0.999814	0.014102	0.986022
OR10P1	0.176042	0.025087	0.256104	-0.08173	0.19023	0.854382	0.054491	0.545587	0.317807	-0.2945	0.290383	-0.28901	0.984313	0.023476	0.973508	0.025708
CLTB	-0.15573	0.066131	-0.01804	-0.12278	0.251741	0.631441	0.89499	0.367339	-0.20748	0.549415	-0.2606	0.298274	0.083248	0.999962	0.041905	0.977964
SDR9C7	-0.13908	-0.09102	0.091618	-0.25053	0.302157	0.504686	0.497895	0.060157	0.106468	-0.28308	0.17734	-0.22456	0.759357	0.028308	0.878076	0.066764
LRIG3	0.102264	0.210275	-0.20115	0.238114	0.449072	0.119824	0.133506	0.074482	0.077528	0.492082	-0.12012	0.313035	0.695716	0.999743	0.215949	0.982923
TMEM132I	-0.04368	-0.07442	0.177401	-0.3565	0.746979	0.58567	0.186776	0.00649	0.087435	-0.32422	0.161159	-0.32879	0.718301	0.013966	0.854881	0.012841
SLC15A4	0.040678	0.127946	-0.2583	0.446904	0.763849	0.347355	0.05238	0.000492	0.111525	0.345718	-0.1268	0.221652	0.76971	0.990697	0.203268	0.930621
RHEBL1	-0.2764	-0.22056	0.035662	-0.42742	0.037411	0.102375	0.792275	0.000913	-0.19273	-0.34022	-0.01598	-0.31199	0.0997	0.010348	0.458499	0.017394

C12orf54	0.051253	0.200804	-0.03395	-0.3834	0.704962	0.137823	0.802056	0.003241	-0.02634	0.269711	-0.02445	0.107805	0.431023	0.96506	0.436656	0.762116
ZNF641	-0.07005	0.027427	-0.14925	0.140804	0.604585	0.840969	0.267847	0.296158	0.013127	0.166074	-0.11033	0.121064	0.5345	0.864997	0.235297	0.788565
OR10AD1	-0.00458	-0.13312	0.067824	-0.20733	0.973017	0.328027	0.616164	0.121742	0.044658	-0.18582	0.118734	-0.14813	0.615886	0.108147	0.781371	0.162934
TPH2	-0.00791	0.046344	0.149957	-0.41503	0.953407	0.734482	0.265546	0.001327	0.050715	-0.19153	-0.00497	-0.40282	0.631081	0.101132	0.487065	0.002755
CLTC	0.016008	0.228255	-0.31101	0.082647	0.905921	0.090646	0.018535	0.541073	-0.15846	0.417163	-0.16278	0.32511	0.146447	0.998038	0.14268	0.986259
SP7	0.079222	-0.24587	0.259819	-0.26474	0.561653	0.07038	0.053137	0.048631	-0.13581	-0.31268	0.07737	-0.15845	0.184083	0.017184	0.693279	0.14645
GTSF1	-0.12312	-0.21963	-0.08654	-0.0411	0.365994	0.10715	0.525975	0.763608	0.078644	-0.37181	0.232615	-0.1412	0.696202	0.005954	0.935682	0.177431
OR10A7	0.24629	-0.25389	0.204214	-0.34798	0.06728	0.061425	0.131123	0.008589	0.217563	-0.46833	0.204883	-0.42229	0.924449	0.000588	0.908918	0.001928
KRT74	-0.04569	-0.03354	0.056119	-0.10617	0.735748	0.806143	0.678414	0.431836	0.140097	0.084777	0.016352	0.00168	0.823458	0.712318	0.542453	0.50442
NEDD1	-0.04793	0.134987	-0.12883	-0.01165	0.7233	0.32124	0.33953	0.931454	-0.11004	0.26503	-0.03632	0.204858	0.233311	0.962465	0.406387	0.913985
IKIP	0.101665	-0.16019	0.060362	0.347268	0.451751	0.238249	0.655573	0.008129	0.017688	0.119999	-0.04693	0.200996	0.546442	0.786504	0.379766	0.909783
CMA1	-0.07999	-0.16515	0.183408	0.152665	0.554219	0.223837	0.172052	0.25691	-0.08912	-0.27727	-3.21E-08	-0.01146	0.277929	0.031052	0.5	0.469875
HIST4H4	-0.19556	-0.03484	-0.26923	0.068961	0.144884	0.798761	0.042852	0.610252	-0.15401	0.196615	-0.17268	-0.02928	0.153413	0.904841	0.128328	0.423423
ERP27	0.129089	-0.29809	0.130298	0.219094	0.338556	0.025655	0.334015	0.101539	0.124918	-0.36599	0.241531	-0.25495	0.795929	0.006185	0.945024	0.043637
FGD4	0.102008	0.081917	-0.03391	-0.04422	0.450215	0.548378	0.802264	0.743964	0.303229	0.002115	0.161331	-0.10329	0.979745	0.505566	0.855142	0.247279
AEBP2	-0.05581	0.279689	-0.25014	0.109148	0.680113	0.036829	0.060567	0.41897	0.058278	0.402329	-0.01887	0.212758	0.649773	0.997213	0.45104	0.922137
ASCL4	0.087235	-0.17325	0.189688	-0.33062	0.518765	0.201623	0.157582	0.012009	0.274406	-0.35189	0.223678	-0.3585	0.967517	0.008237	0.930168	0.007213
BTBD11	-0.07282	0.431431	-0.20007	0.151101	0.593813	0.001007	0.139302	0.266297	-0.04413	0.665697	-0.24946	0.393449	0.385447	1	0.049206	0.996586
SPIC	-0.08739	0.15202	-0.06809	0.038708	0.518001	0.263367	0.614764	0.774976	-0.00349	0.050039	0.054069	0.069118	0.490809	0.629394	0.637866	0.675958
ANO4	0.00296	-0.20747	0.189263	-0.22669	0.982725	0.128542	0.162404	0.092946	-0.04239	-0.45407	0.090496	-0.31522	0.391082	0.000865	0.720458	0.017466
ALKBH2	-0.09949	0.179775	-0.22759	0.273423	0.46155	0.184905	0.088632	0.039594	-0.12104	0.51592	-0.26598	0.290027	0.214163	0.999857	0.040482	0.973356
FOXN4	-0.0343	-0.25544	0.181683	-0.24057	0.800049	0.057418	0.176191	0.071455	-0.02969	-0.24182	0.101079	-0.23037	0.422354	0.05271	0.74559	0.061749
UNQ1887	0.08213	0.440199	-0.35313	0.152385	0.543611	0.000686	0.007051	0.257795	-0.01302	0.667462	-0.1987	0.369739	0.465783	1	0.095349	0.994281
C13orf16	-0.034	-0.07249	0.260213	-0.18006	0.801738	0.595465	0.050599	0.18014	0.088099	-0.29544	0.174775	-0.24147	0.719787	0.02311	0.874578	0.052976
LOC121952	-0.1407	0.176588	0.046927	-0.06458	0.300975	0.197157	0.731269	0.636292	0.030086	-0.2218	0.040297	-0.09716	0.57777	0.071557	0.602457	0.262737
RP11-4310	0.081908	0.056473	0.190653	-0.13246	0.544708	0.679312	0.15544	0.325993	0.135622	-0.10024	0.07757	-0.07862	0.815589	0.253724	0.693739	0.301749
CSNK1A1L	0.089651	-0.12394	0.233973	-0.14507	0.511131	0.367321	0.082638	0.286063	0.112052	-0.28492	0.12454	-0.2527	0.770774	0.027478	0.792496	0.0451
RXFP2	0.020032	-0.20646	0.160706	-0.17429	0.882419	0.126855	0.232398	0.19474	0.149136	-0.28798	0.186615	-0.26769	0.835904	0.027537	0.887419	0.037717
C13orf26	-0.03603	-0.19129	0.051535	-0.21746	0.790186	0.157867	0.703416	0.104187	-0.23007	-0.35293	-0.0054	-0.19528	0.062003	0.008069	0.485962	0.0967
SLAIN1	0.297535	-0.1635	0.159359	-0.02919	0.024592	0.228561	0.236388	0.829369	0.364923	-0.38097	0.168545	-0.30401	0.993677	0.004499	0.8658	0.019985
C13orf28	0.160848	-0.12317	0.166983	-0.2631	0.23198	0.365799	0.214421	0.047999	0.074209	-0.24145	0.177543	-0.34173	0.687981	0.05299	0.878351	0.010051
TDRD9	-0.00719	-0.23554	0.273894	-0.11686	0.957686	0.080538	0.039241	0.386665	0.060374	-0.52225	0.226958	-0.36204	0.654897	9.85E-05	0.9331	0.006711
ANKRD9	0.048148	-0.10762	0.253124	-0.10557	0.722096	0.429822	0.057463	0.434456	0.040405	-0.2397	0.086569	-0.25159	0.605115	0.054307	0.714115	0.045837
AK7	-0.04191	-0.11145	0.015206	-0.17054	0.756887	0.413504	0.910612	0.204682	-0.18418	-0.2104	0.09645	-0.13481	0.110233	0.080232	0.735741	0.18586
IFI27L1	-0.11062	-0.06388	0.11096	-0.09141	0.41701	0.643121	0.415566	0.502833	0.253353	-0.26677	0.222186	-0.25343	0.955329	0.036554	0.928803	0.044623
C14orf28	0.131525	0.072138	-0.07635	0.150886	0.329443	0.597261	0.572437	0.262563	0.315514	-0.07045	0.123993	0.016291	0.983657	0.320883	0.791462	0.542787
TRAPPC6B	-0.02832	0.3102	-0.23592	0.232455	0.834363	0.019982	0.077272	0.081852	0.105531	0.525568	-0.09251	0.416984	0.757412	0.999912	0.272792	0.99803
C14orf79	-0.24871	-0.17198	-0.0204	-0.28096	0.06455	0.209293	0.881362	0.035942	-0.31551	-0.32892	-0.10023	-0.30783	0.016345	0.012809	0.256212	0.018708
PLD4	-0.01601	-0.17215	0.299642	-0.07809	0.905917	0.204553	0.023547	0.563681	0.186608	-0.32482	0.178631	-0.25658	0.892836	0.013814	0.879812	0.042598
ADSSL1	-0.17447	-0.24824	0.001016	-0.45185	0.194284	0.065075	0.994014	0.000418	-0.21144	-0.47265	0.121364	-0.34219	0.079179	0.000455	0.786451	0.009963
RNASE11	0.174158	0.064968	0.201663	-0.03656	0.199241	0.637465	0.136111	0.78907	0.116493	-0.30751	0.142662	-0.14966	0.77964	0.018814	0.825073	0.160426
TPPP2	0.075597	-0.14501	0.226651	-0.21875	0.576229	0.286288	0.089999	0.102087	0.167713	-0.49792	0.183622	-0.39368	0.867381	0.000215	0.886363	0.003396
RNASE8	-0.05011	-0.264	0.142637	0.030371	0.716373	0.051463	0.298874	0.825784	0.234793	-0.42269	0.096559	-0.46703	0.94187	0.001714	0.735977	0.000534
MRPL52	-0.10939	0.064303	-0.02816	0.171705	0.417929	0.637757	0.835304	0.201556	-0.15746	0.266703	-0.21633	0.165437	0.147996	0.963409	0.076745	0.864063
PSMB11	0.129128	-0.12092	0.265908	-0.31055	0.342882	0.37918	0.047613	0.019835	0.159993	-0.27092	0.246914	-0.3663	0.85591	0.034295	0.948993	0.006146
OR4K14	0.165601	-0.1293	0.136994	-0.27063	0.218291	0.342227	0.309548	0.04174	0.099884	-0.27102	0.014155	-0.35835	0.743065	0.035869	0.53633	0.007822
OR4L1	-0.05037	-0.2824	0.026232	-0.29235	0.709805	0.034965	0.846416	0.02733	-0.03698	-0.39277	0.128433	-0.35439	0.403616	0.003467	0.79977	0.007836
OR11H6	0.035908	-0.20976	0.14853	-0.41339	0.792757	0.12429	0.274613	0.001542	0.037946	-0.4345	0.24805	-0.32115	0.59885	0.001275	0.949802	0.014769
PPIL5	-0.07479	0.238329	-0.22133	-0.02069	0.580338	0.076919	0.098011	0.878584	-0.10743	0.464085	-0.15061	0.347722	0.238658	0.99942	0.161696	0.991055
KLHDC1	0.1412	0.039591	-0.00512	0.024063	0.294785	0.772044	0.969841	0.858979	0.371215	-0.21701	0.259252	-0.16921	0.994456	0.07372	0.957258	0.130468

FRMD6	0.109622	0.252397	-0.26632	0.197911	0.421247	0.063019	0.047252	0.143705	-0.03116	0.707723	-0.23262	0.488474	0.41856	1	0.06206	0.999714
SOCS4	-0.00944	0.24343	-0.18042	0.135877	0.944461	0.070625	0.179264	0.313549	0.061364	0.297367	0.081218	0.234184	0.657305	0.977625	0.702074	0.941381
NAT12	0.016797	0.121956	-0.24955	-0.02147	0.901307	0.370572	0.061202	0.874025	0.054354	0.138846	0.016437	-0.01023	0.640116	0.821279	0.542673	0.473104
GPHB5	0.194145	-0.01416	0.267685	-0.27946	0.15164	0.918253	0.046092	0.036989	0.220616	-0.29286	0.345087	-0.3132	0.929669	0.024127	0.989873	0.017027
C14orf148	-0.11818	0.064847	0.040225	-0.23416	0.381268	0.63491	0.766403	0.079571	-0.13001	-0.22259	-0.15359	-0.23338	0.19458	0.068528	0.156892	0.059265
JDP2	0.155562	-0.20634	0.16761	-0.21329	0.247888	0.127076	0.212679	0.111163	0.210396	-0.2655	0.187925	-0.3541	0.919761	0.037267	0.891811	0.007883
ISCA2	-0.09259	-0.18453	0.081459	-0.19024	0.493311	0.173367	0.546922	0.156359	-0.25834	-0.28693	0.057939	-0.08779	0.041503	0.026595	0.647302	0.280894
ACOT4	0.01041	-0.08434	-0.02472	-0.10972	0.93874	0.536557	0.855171	0.416501	0.074252	-0.00827	0.222559	0.085819	0.688082	0.478255	0.929146	0.714671
ADFP	0.104404	-0.34878	0.061304	0.256612	0.43959	0.008428	0.650544	0.053998	0.296115	-0.47339	0.24906	-0.291	0.977149	0.000446	0.950513	0.024881
CCR1	-0.35117	-0.2105	-0.16028	0.247255	0.007396	0.119425	0.233668	0.063698	-0.09786	-0.42927	0.159529	-0.28448	0.258807	0.001456	0.852395	0.027675
TTC8	-0.05429	0.048479	-0.0911	-0.2048	0.688341	0.722734	0.500342	0.126466	-0.24263	0.041221	-0.0151	0.005272	0.052114	0.607188	0.460789	0.51387
TC2N	-0.13064	0.154967	-0.07459	0.10281	0.332746	0.254112	0.581335	0.446645	-0.04762	0.268227	-0.09531	0.091347	0.376669	0.964253	0.266705	0.726999
SLC24A4	0.105013	-0.24338	0.286871	-0.16453	0.43691	0.070684	0.030499	0.221317	-0.05273	-0.38173	0.170635	-0.30392	0.365411	0.004834	0.865945	0.021196
SLC25A29	-0.19882	-0.17276	0.090547	-0.21192	0.138164	0.202922	0.502954	0.113528	-0.08397	-0.36224	-0.0394	-0.35298	0.289512	0.006683	0.398602	0.008061
DEGS2	-0.24551	-0.03535	-0.02864	-0.33345	0.065652	0.795881	0.832511	0.011253	-0.25336	-0.16664	-0.03691	-0.31892	0.044666	0.134175	0.404877	0.015376
KLHL33	-0.09573	-0.06673	0.207996	-0.17317	0.478737	0.625068	0.120523	0.197672	0.133025	-0.37545	0.242179	-0.37462	0.810926	0.005068	0.945514	0.005158
LEO1	-0.00684	0.310737	-0.30115	0.209006	0.959735	0.019757	0.022821	0.118692	-0.03384	0.560749	-0.1641	0.48113	0.411655	0.999975	0.140701	0.999644
CCR3	0.033484	-0.21727	0.198282	-0.23306	0.808246	0.114534	0.146731	0.086824	-0.02552	-0.32494	-0.10789	-0.27995	0.433919	0.014708	0.242873	0.031262
C15orf40	-0.15988	0.262501	-0.14113	0.101432	0.234832	0.050643	0.295017	0.452792	-0.04166	0.266757	-0.14561	0.254318	0.391699	0.96344	0.169936	0.955956
SENP8	-0.13154	0.183787	-0.10723	-0.1861	0.329403	0.175131	0.427247	0.165734	-0.1883	0.118897	0.007955	-0.01577	0.105063	0.78436	0.520682	0.458587
MTFMT	-0.08128	0.322688	-0.38086	0.197565	0.547798	0.015284	0.00347	0.140724	-0.06411	0.351931	-0.15687	0.355525	0.336045	0.991769	0.151711	0.99234
OSTbeta	-0.27394	-0.37556	-0.01521	-0.23547	0.039208	0.004341	0.910581	0.077857	-0.18189	-0.50881	0.051492	-0.22921	0.113179	0.000153	0.631536	0.062726
TARSL2	0.34142	-0.10636	0.172369	0.223482	0.009345	0.435286	0.199791	0.094705	0.361886	-0.38015	0.128438	-0.21294	0.993268	0.004581	0.79978	0.077679
CCR4	-0.02155	-0.22137	0.047719	0.268742	0.87358	0.101077	0.724469	0.043243	-0.1202	-0.11	0.045141	-0.0003	0.213115	0.233391	0.61579	0.499212
HIGD2BP	-0.07598	0.033999	0.114248	-0.22953	0.574299	0.803546	0.397432	0.085876	-0.04707	-0.37396	0.191137	-0.28628	0.378032	0.005231	0.895757	0.026879
LRRC28	-0.01839	0.227659	-0.15345	0.139457	0.891984	0.091516	0.254456	0.300846	-0.14404	0.304721	-0.10107	0.223738	0.169785	0.980257	0.254439	0.932507
CCR5	0.075339	0.033829	0.18943	0.251053	0.577538	0.80451	0.158158	0.059605	-0.14692	-0.07841	-0.06127	0.021572	0.164939	0.302232	0.344634	0.556578
CCR6	-0.1066	-0.32422	-0.03842	0.128393	0.429978	0.014777	0.776613	0.34119	-0.09015	-0.25511	0.195448	-0.04099	0.275653	0.043535	0.900894	0.393391
C15orf27	-0.15249	0.027186	0.064274	-0.17727	0.257466	0.842348	0.634786	0.187107	0.10627	-0.23891	0.04611	-0.26562	0.758946	0.054909	0.618205	0.0372
CCR7	-0.05683	-0.231	0.014924	0.178441	0.674547	0.086729	0.912262	0.184164	0.017554	-0.38222	0.115867	-0.23248	0.54609	0.004379	0.775757	0.060004
NIPA1	-0.35513	0.207983	-0.33976	0.190597	0.006713	0.124006	0.009718	0.155563	0.025392	0.349204	-0.2334	0.165903	0.566513	0.991312	0.061412	0.864747
AGBL1	-0.11193	-0.26911	-0.05503	-0.36029	0.415888	0.049097	0.689838	0.006892	-0.15071	-0.39725	-0.01159	-0.34068	0.158711	0.003132	0.469886	0.010257
LOC123688	0.022815	0.173493	0.041447	0.122982	0.867449	0.205249	0.761663	0.366532	-0.11883	-0.03165	0.068658	0.041007	0.215772	0.417288	0.672975	0.606645
CCR8	0.134949	-0.07129	0.157627	-0.27193	0.321374	0.605008	0.245952	0.04262	0.113307	-0.20364	0.106028	-0.23529	0.770679	0.089842	0.753327	0.059866
WHAMM	0.204025	0.324057	-0.00515	-0.01005	0.127935	0.014831	0.969687	0.94084	0.226357	-0.05938	0.172496	-0.16813	0.93482	0.347518	0.871413	0.132016
FSD2	-0.05075	-0.05834	0.082215	-0.21199	0.707726	0.669336	0.543197	0.1134	0.057322	-0.29092	0.047512	-0.24829	0.647429	0.024912	0.621691	0.048072
PLA2G4E	-0.067	0.182737	-0.16128	-0.21473	0.620489	0.177653	0.230703	0.1087	0.042675	-0.10288	0.153209	-0.13894	0.610874	0.248139	0.842499	0.178564
C16orf46	-0.23619	-0.17357	0.04252	-0.34486	0.076921	0.20079	0.753485	0.008613	-0.37753	-0.29235	-0.04582	-0.19823	0.004846	0.024329	0.382524	0.093312
CCBP2	-0.1989	-0.1925	0.087639	-0.21294	0.141665	0.159122	0.520692	0.115102	-0.1334	-0.41022	0.072421	-0.12593	0.188392	0.002317	0.68181	0.202166
NTAN1	0.174013	-0.16675	-0.01734	0.064595	0.195471	0.21933	0.898112	0.633096	-0.0167	-0.33436	0.028899	-0.03079	0.456142	0.011569	0.574735	0.419515
C16orf63	-0.06366	0.450024	-0.34661	0.137464	0.638032	0.000502	0.008259	0.307875	-0.09618	0.630215	-0.34555	0.442766	0.262439	0.999999	0.010038	0.99897
LRRC50	-0.1045	-0.19554	0.103429	-0.24544	0.439154	0.148662	0.443899	0.065728	-0.09655	-0.3582	0.105459	-0.28308	0.261633	0.007257	0.754733	0.028306
ACSM2A	-0.07158	-0.27158	0.177301	-0.17635	0.596718	0.042893	0.187029	0.189434	0.00337	-0.23338	0.020811	-0.15082	0.508866	0.059272	0.553967	0.158535
DCUN1D3	-0.1581	-0.07248	-0.06297	-0.00885	0.24016	0.595521	0.641686	0.947902	0.106268	0.010069	-0.02836	-0.00322	0.758942	0.526477	0.426645	0.49154
NRN1L	0.185478	0.047971	0.29566	-0.17939	0.167179	0.725525	0.025555	0.181816	0.296921	-0.31775	0.374277	-0.33522	0.977456	0.015703	0.994343	0.011383
CMTM3	0.132865	-0.31594	0.140559	0.412764	0.324495	0.017688	0.297005	0.001419	0.218079	-0.17525	0.209538	0.007697	0.927299	0.122023	0.916431	0.520245
C16orf78	0.148527	-0.16215	0.227029	-0.18094	0.270183	0.232486	0.089449	0.177996	-0.00665	-0.2651	0.144865	-0.19107	0.482514	0.037497	0.828807	0.101683
ADH1A	0.072349	-0.10554	0.20657	0.1371	0.596185	0.44316	0.126639	0.313651	-0.06964	-0.05838	0.134912	0.019662	0.322809	0.349969	0.811543	0.551597
CMKLR1	0.188092	-0.32004	0.116639	0.255495	0.161171	0.016192	0.387561	0.055088	0.338131	-0.27341	0.229845	0.049897	0.988451	0.034587	0.93331	0.6276
SPATA2L	-0.01808	-0.23225	0.152177	-0.15703	0.893794	0.084985	0.258453	0.2434	0.025986	-0.28759	0.095152	-0.17986	0.568054	0.026313	0.732946	0.115828

C16orf55	-0.35856	-0.16109	-0.02894	-0.31145	0.006167	0.235592	0.830787	0.01836	-0.2885	-0.33052	-0.03867	-0.28851	0.025924	0.012434	0.400436	0.02592
NOXO1	-0.0318	-0.07898	0.271065	-0.12799	0.814362	0.56283	0.041399	0.342717	0.042529	-0.46458	0.171467	-0.30442	0.610504	0.000572	0.869967	0.019843
CCDC78	-0.24096	-0.22612	0.075036	-0.3907	0.070976	0.093795	0.579071	0.002658	-0.21772	-0.44565	0.072444	-0.39008	0.073041	0.000955	0.681863	0.003682
LTB4R	-0.1419	0.389426	-0.1927	0.216879	0.29238	0.003012	0.150961	0.105129	0.009128	0.504128	-0.19547	0.292743	0.524005	0.999823	0.099083	0.975828
hCG_24312	0.052286	-0.07701	0.119991	-0.0417	0.699296	0.572667	0.373969	0.758112	-0.06341	0.064617	-0.01208	-0.00296	0.33773	0.665179	0.468606	0.492203
IQCK	-0.15327	-0.13923	-0.01371	-0.24177	0.255002	0.306109	0.919357	0.070006	-0.28259	-0.19289	0.104169	-0.06703	0.028531	0.099514	0.752057	0.329034
LOC12422C	0.170571	-0.24688	0.25374	0.074923	0.204594	0.066606	0.056839	0.579643	0.252848	-0.12963	0.262099	-0.08812	0.954998	0.195271	0.959008	0.280164
MGC52282	-0.06744	-0.11087	0.214688	-0.13832	0.618171	0.415934	0.108777	0.30483	0.117048	-0.46496	0.164258	-0.36531	0.780735	0.000566	0.859531	0.006272
PAQR4	-0.05852	0.028887	0.141185	-0.17652	0.665477	0.832622	0.29484	0.189002	0.051156	-0.08228	0.017284	-0.19001	0.63218	0.293359	0.544862	0.102971
ZC3H18	-0.10908	0.045946	0.045718	-0.19313	0.419269	0.736679	0.735595	0.150048	0.027365	0.026867	-0.04717	-0.1795	0.571629	0.570339	0.379167	0.116314
GPR139	0.014062	0.004678	0.192691	-0.13536	0.917312	0.972702	0.150988	0.315393	0.176552	-0.35711	0.133417	-0.28213	0.879748	0.007419	0.808864	0.028739
CDYL2	-0.08589	-0.19616	0.228545	-0.04515	0.525279	0.147359	0.087272	0.738742	0.217516	-0.33796	0.295289	-0.29465	0.926765	0.010805	0.975539	0.023416
ABCC2	0.021329	0.117855	0.145994	-0.24546	0.876012	0.39147	0.282981	0.068232	0.104618	-0.17213	0.14168	-0.10978	0.755509	0.126337	0.823392	0.233831
ANKS3	-0.16818	-0.19435	0.111966	-0.16157	0.211106	0.151199	0.406986	0.229874	0.002251	-0.3084	0.064573	-0.34277	0.505922	0.018525	0.663276	0.009853
FAM100A	0.024626	-0.12195	0.065881	-0.00488	0.855718	0.370604	0.626331	0.97129	0.015178	0.065206	0.03665	-0.01252	0.539873	0.666598	0.594454	0.467099
Sep-12	-0.09597	-0.07364	0.175807	-0.24949	0.477615	0.589647	0.190832	0.061259	0.054752	-0.39526	0.066541	-0.37501	0.6411	0.003277	0.667961	0.005116
TMEM219	-0.11878	-0.07873	0.111071	-0.14992	0.378843	0.564072	0.410772	0.265669	-0.26175	-0.02981	-0.16855	-0.01614	0.039443	0.422056	0.134193	0.457612
EARS2	-0.00349	0.276467	0.147764	0.039346	0.979468	0.039149	0.27268	0.771364	0.017327	0.355248	-0.20704	0.184158	0.545498	0.992297	0.086189	0.889742
SNX20	-0.06943	-0.21557	0.185296	0.262482	0.607799	0.110575	0.167604	0.048549	0.122657	-0.33227	0.262425	-0.1703	0.791626	0.012032	0.959205	0.128912
TMEM170A	-0.08413	0.246707	-0.27108	0.271602	0.533804	0.066803	0.04139	0.040982	0.064242	0.518609	-0.13935	0.343221	0.664274	0.999889	0.180627	0.990234
C17orf95	-0.07197	0.162787	-0.27418	0.327445	0.594731	0.230633	0.039031	0.012906	-0.04982	0.413967	-0.02849	0.317465	0.371162	0.997881	0.426301	0.984217
HSF5	0.022904	-0.36064	0.221791	-0.24802	0.86571	0.006324	0.097296	0.062859	0.121674	-0.4663	0.097985	-0.41843	0.789742	0.000545	0.739028	0.001903
OR4D2	-0.1486	-0.09809	0.034511	-0.16371	0.269955	0.472016	0.798834	0.223668	-0.11772	-0.28011	0.072875	-0.18236	0.217947	0.029684	0.68287	0.112564
MSI2	-0.1541	0.003756	-0.10752	-0.14266	0.252406	0.978083	0.425992	0.289767	-0.21809	-0.03015	-0.02149	-0.03229	0.072693	0.421176	0.444286	0.415663
SLC38A10	0.064378	-0.1783	0.208002	0.032195	0.637369	0.192768	0.123971	0.813378	0.035415	0.015533	-0.03902	0.023108	0.592374	0.540802	0.399566	0.560577
CANT1	0.042551	0.029529	0.094964	-0.01331	0.753312	0.828956	0.482261	0.921712	0.101103	0.261609	-0.09002	0.132794	0.748111	0.960475	0.278241	0.810509
USH1G	0.05407	0.070278	0.251723	-0.20916	0.689551	0.606771	0.058905	0.118407	-0.00052	-0.21193	0.177674	-0.20399	0.498629	0.078688	0.878526	0.086948
CD300LB	0.220817	-0.22834	0.325108	-0.10711	0.098812	0.090521	0.013603	0.427754	0.090952	-0.32674	0.175163	-0.33715	0.723808	0.014238	0.872287	0.011763
KIF19	-0.20889	-0.18764	0.035144	-0.30461	0.118899	0.166104	0.795227	0.021231	-0.27041	-0.29335	-0.05411	-0.28442	0.034565	0.023931	0.362032	0.027702
ZBPB2	0.081183	0.107098	0.115247	-0.30895	0.548287	0.432079	0.393289	0.019368	0.036164	-0.36493	0.069715	-0.30984	0.594294	0.006322	0.675466	0.018064
CYB5D1	-0.13588	-0.14087	-0.02959	-0.24828	0.313554	0.300392	0.827058	0.062574	-0.25489	-0.27076	-0.02136	-0.18213	0.043674	0.03438	0.444607	0.112865
hCG_16443	0.290128	-0.36087	0.176429	-0.11279	0.028581	0.006289	0.189243	0.403504	0.112634	-0.17954	0.013812	-0.10297	0.771948	0.116259	0.535878	0.247953
USP43	-0.21671	-0.25527	-0.04929	-0.38997	0.10866	0.059983	0.718293	0.002968	-0.3431	-0.29062	-0.10035	-0.35047	0.009789	0.025035	0.255952	0.008473
KRBA2	-0.11167	0.322832	-0.17205	-0.09075	0.412581	0.016219	0.204809	0.505959	-0.09963	0.092651	-0.21491	-0.11916	0.255027	0.729869	0.078135	0.215127
C17orf64	-0.09023	0.044445	0.202124	-0.09845	0.512378	0.7473	0.138903	0.474567	-0.00673	-0.39024	0.217225	-0.31553	0.482297	0.003669	0.924123	0.016337
C17orf46	-0.16126	-0.32744	0.013994	-0.29099	0.230767	0.013762	0.91771	0.02809	-0.08522	-0.3018	0.19839	-0.25159	0.28668	0.020756	0.904295	0.045835
HEXIM2	-0.02916	-0.08467	0.165362	-0.15195	0.829526	0.534973	0.218966	0.259185	-0.03192	-0.18151	0.100373	-0.10276	0.416609	0.113676	0.744098	0.248392
CCDC43	0.044465	0.112352	-0.08445	-0.13478	0.744879	0.414113	0.536013	0.322001	-0.31068	0.431965	-0.24224	0.193564	0.017799	0.99864	0.05444	0.901286
CNTD1	-0.0181	-0.23474	0.146962	-0.23395	0.894638	0.084518	0.279768	0.082666	-0.23075	-0.28627	0.059509	-0.15021	0.06143	0.026883	0.651107	0.159528
TMEM132F	-0.15023	-0.04229	0.115369	-0.11261	0.269082	0.756982	0.397159	0.408628	0.011271	-0.30499	0.016038	-0.27874	0.52963	0.019652	0.541639	0.030339
WFIKK2	0.107103	-0.19357	0.199776	-0.30735	0.427789	0.15287	0.136244	0.020036	0.161813	-0.26105	0.271662	-0.23246	0.85587	0.04163	0.962775	0.06219
FLJ40194	0.045863	-0.14266	0.141451	-0.23039	0.737142	0.298795	0.298393	0.087593	-0.01558	-0.29948	0.144098	-0.12425	0.459082	0.021593	0.827512	0.20534
B4GALNT2	-0.2269	0.17364	-0.09946	-0.26582	0.092636	0.200599	0.465816	0.047688	0.053432	-0.19156	0.137275	-0.27552	0.636302	0.103736	0.812886	0.033487
SPACA3	0.05691	-0.21988	0.224858	-0.1591	0.676964	0.106738	0.095684	0.241521	0.080012	-0.31156	0.115591	-0.10876	0.701453	0.017528	0.775213	0.235931
FLJ25006	-0.25226	0.244005	-0.03948	0.037191	0.058347	0.069942	0.770614	0.783575	-0.11309	0.235786	-0.22593	0.180901	0.227143	0.94266	0.067806	0.885536
SEZ6	-0.01165	-0.06866	0.274186	-0.24407	0.931454	0.615075	0.039024	0.0673	0.130958	-0.31278	0.159565	-0.30331	0.807167	0.017154	0.85245	0.020226
ANKRD13B	-0.00419	-0.0159	0.11578	-0.13292	0.975305	0.907416	0.391089	0.324296	0.073188	0.017881	0.058698	-0.01079	0.685586	0.546946	0.649142	0.471623
SLC43A2	-0.17083	-0.38837	0.115865	-0.15694	0.203888	0.003099	0.390738	0.243662	-0.25135	-0.28316	0.119892	-0.29605	0.045994	0.028267	0.783616	0.022876
CYB5D2	-0.17009	0.09787	-0.01164	0.015166	0.205902	0.473003	0.931494	0.910847	-0.2328	0.146314	-0.01426	0.029606	0.06191	0.831235	0.463407	0.576543
C17orf49	-0.09206	0.162462	-0.1494	0.170981	0.495796	0.231579	0.267345	0.203491	-0.07226	0.568459	-0.18213	0.418709	0.316593	0.999981	0.115571	0.99811

ZFP3	-0.11307	0.00133	-0.01359	-0.14773	0.402361	0.992239	0.920107	0.272806	-0.21539	-0.04749	-0.01703	0.103451	0.075277	0.376999	0.455792	0.753065
GGT6	-0.11345	0.152682	-0.17414	-0.0739	0.400744	0.261268	0.195146	0.584858	-0.35759	0.467218	-0.30538	0.266704	0.007347	0.999469	0.020679	0.96341
SPNS2	0.0952	-0.10697	0.08244	0.115274	0.481168	0.432636	0.542088	0.393178	0.163932	0.203129	-0.00146	0.223452	0.861841	0.912122	0.496208	0.932251
C17orf57	0.165633	-0.18351	0.073123	0.13079	0.222473	0.179892	0.592252	0.336651	0.264269	-0.30045	0.259614	0.003875	0.962029	0.02124	0.957484	0.510196
MRPL10	-0.20062	-0.08214	-0.15774	-0.18171	0.134554	0.547299	0.241252	0.176129	-0.15756	0.203983	-0.15096	0.279305	0.147839	0.913046	0.161124	0.969933
WDR81	-0.07612	-0.10945	0.104835	0.015634	0.573604	0.422	0.437691	0.908107	-0.07302	0.039423	-0.06593	0.020714	0.314807	0.602615	0.333493	0.554341
ADH1B	0.207595	-0.16928	0.026219	0.450825	0.121257	0.212327	0.846494	0.000433	0.348363	-0.13969	0.24105	0.131943	0.991167	0.177248	0.944658	0.808965
TBC1D16	-0.12511	0.164408	0.091691	-0.01003	0.353798	0.225962	0.49755	0.94099	0.179617	-0.05846	0.034876	-0.14012	0.883846	0.349777	0.58996	0.176495
AFMID	0.103164	-0.07545	0.240776	0.055099	0.445074	0.580488	0.071202	0.683947	0.216123	0.193428	-0.12305	0.003722	0.925432	0.901125	0.210329	0.509793
GJD3	-0.01166	-0.11096	0.26438	-0.05533	0.931396	0.415568	0.046887	0.682718	-0.00906	-0.24665	0.194034	-0.21906	0.476452	0.051199	0.896536	0.074124
KRT222P	-0.01048	-0.10875	0.043982	-0.09876	0.938328	0.424988	0.745288	0.464851	-0.08231	-0.11767	0.075096	0.018434	0.293295	0.218044	0.688031	0.54839
KRT40	0.03694	0.149901	-0.12744	0.134327	0.785004	0.270157	0.344833	0.319151	-0.22084	0.41436	-0.24458	0.376516	0.070125	0.997901	0.0527	0.995046
C17orf45	0.057133	0.286562	-0.32123	0.106986	0.672925	0.032259	0.014832	0.428296	0.076647	0.449395	-0.21994	0.312599	0.691615	0.999022	0.075712	0.981722
SMCR7	-0.03313	-0.28182	0.252003	-0.21619	0.806735	0.035356	0.058615	0.106262	0.004412	-0.44207	0.157301	-0.33994	0.511607	0.001049	0.848954	0.010404
SLC5A10	-0.05709	0.010963	0.135474	-0.23408	0.673157	0.936087	0.315	0.079677	0.144013	-0.37213	0.163224	-0.43908	0.830174	0.005438	0.857991	0.001134
C18orf19	-0.12732	0.471694	-0.43405	0.275828	0.345277	0.000243	0.000743	0.037821	0.038474	0.383524	-0.18737	0.333127	0.600198	0.995744	0.108882	0.988159
LOXHD1	-0.08725	-0.16136	0.077387	-0.33173	0.518714	0.234794	0.567202	0.011706	-0.17201	-0.48569	0.084223	-0.23843	0.126505	0.000311	0.708862	0.055275
INO80C	-0.06339	0.258198	-0.07076	-0.01456	0.639462	0.054692	0.600942	0.914397	-0.17524	0.408758	-0.11377	0.180124	0.122035	0.997602	0.228389	0.884516
TTC39C	-0.14703	0.405686	-0.2249	-0.01313	0.275104	0.001922	0.092582	0.922787	0.021005	0.31388	-0.07148	0.133889	0.554468	0.982123	0.322377	0.809713
C18orf51	-0.00776	-0.02891	0.170852	-0.12308	0.954287	0.832481	0.203837	0.361702	-0.04466	-0.43456	0.147006	-0.24765	0.384107	0.001273	0.832388	0.048523
CNGB1	0.074064	-0.16786	0.280998	-0.22491	0.584012	0.216228	0.03423	0.092558	-0.07411	-0.34441	0.175545	-0.1608	0.312244	0.009543	0.875635	0.142865
CLDND2	0.00242	-0.23761	0.280883	-0.07462	0.985745	0.077835	0.034307	0.581206	0.142708	-0.43942	0.237721	-0.29507	0.827954	0.001124	0.942076	0.023252
ZNF816A	-0.07556	0.023836	-0.17682	0.179901	0.576428	0.861573	0.188246	0.180542	-0.14223	0.272191	-0.27948	0.242827	0.17287	0.966376	0.031495	0.94803
CNGA1	0.037557	-0.01661	0.024506	-0.15153	0.785447	0.90513	0.859044	0.269446	0.012774	-0.27903	0.125077	-0.25088	0.533574	0.030197	0.793509	0.04631
ZNF543	-0.09793	0.274421	-0.38233	0.018152	0.472754	0.042609	0.003638	0.894365	-0.08341	0.365783	-0.21467	0.278358	0.292978	0.993263	0.080857	0.967952
CEACAM20	-0.12917	-0.18712	0.145966	-0.16245	0.338235	0.167308	0.278622	0.227314	0.003501	-0.3335	0.07078	-0.20065	0.509212	0.011758	0.677969	0.090598
RAVER1	-0.05259	-0.12303	0.180351	-0.16273	0.697651	0.36635	0.179437	0.22649	0.015958	-0.24554	0.056155	-0.2779	0.541432	0.051998	0.641344	0.032277
OR7D4	-0.03387	-0.1687	0.172264	-0.17131	0.802492	0.21391	0.200068	0.202604	0.208363	-0.25376	0.069945	-0.05317	0.917675	0.044406	0.676006	0.362811
OR7G1	0.0618	-0.15468	0.178526	-0.15252	0.65093	0.2595	0.188027	0.261776	-0.1766	-0.26061	0.121871	-0.09253	0.120185	0.040124	0.787422	0.270398
OR1M1	-0.06942	-0.28818	0.167991	-0.21585	0.607869	0.031252	0.211628	0.106827	-0.0641	-0.31698	0.12985	-0.36731	0.336076	0.015921	0.802381	0.006017
COX6B2	-0.0015	-0.22607	0.248924	-0.17003	0.991169	0.093857	0.061873	0.206063	-0.04103	-0.23214	0.108541	-0.1543	0.393302	0.060284	0.761063	0.152954
CALR3	-0.01777	-0.28253	0.220346	-0.22958	0.896557	0.036623	0.10271	0.088736	-0.14049	-0.498	0.042225	-0.33969	0.175861	0.000214	0.608497	0.010455
ACER1	-0.04027	-0.07753	0.159158	-0.22437	0.766145	0.570065	0.236988	0.093363	0.127759	-0.38262	0.186869	-0.40537	0.80126	0.004341	0.890491	0.002597
C19orf70	-0.17287	-0.11152	-0.02897	-0.03118	0.198459	0.413184	0.830634	0.817909	-0.23883	0.293441	-0.09402	0.074038	0.059227	0.973396	0.274362	0.683543
ADH1C	0.111134	0.042222	-0.0446	0.000751	0.410501	0.757344	0.741834	0.995575	-0.18983	-0.04391	0.010985	0.090501	0.103188	0.386007	0.528546	0.725127
CNGA2	0.034147	-0.30865	0.262539	-0.35848	0.802711	0.021864	0.050608	0.00667	0.001108	-0.30686	0.095371	-0.19925	0.502914	0.019027	0.733419	0.09216
TRAPPC5	-0.05233	0.084551	0.106896	-0.09693	0.69906	0.535548	0.428689	0.47321	-0.05474	-0.1242	-0.05801	-0.20601	0.35894	0.205427	0.352531	0.084791
PCP2	-0.05027	-0.21533	0.271008	-0.15542	0.710361	0.110976	0.041443	0.248331	0.051612	-0.43627	0.038886	-0.41355	0.63183	0.001368	0.598941	0.002373
OSCAR	0.095001	-0.11348	0.314237	-0.24796	0.48614	0.4094	0.018345	0.065387	0.077321	-0.40701	0.240168	-0.39786	0.695236	0.002499	0.943983	0.003088
ZNF813	0.0997	0.199491	-0.09623	0.136958	0.460585	0.14047	0.4764	0.309678	-0.02737	0.261679	0.070657	0.292104	0.42835	0.960516	0.67768	0.97557
ZNF441	0.172888	-0.17801	0.175686	-0.0988	0.19842	0.189337	0.191142	0.46465	0.264845	-0.43836	0.329636	-0.24108	0.962359	0.001155	0.986491	0.053265
ZNF491	-0.1054	-0.11832	0.106405	-0.26863	0.43946	0.389583	0.435084	0.045297	0.043772	-0.39735	0.259097	-0.15442	0.61365	0.003125	0.957161	0.152756
ZNF440	-0.13634	-0.11231	-0.0499	-0.21635	0.311885	0.40988	0.712404	0.106003	-0.17259	-0.19284	0.060048	-0.12421	0.125695	0.099571	0.652409	0.205407
C19orf39	-0.38661	0.150234	-0.11464	-0.04446	0.002972	0.269082	0.395781	0.742615	-0.29451	0.182564	-0.12622	-0.03066	0.023472	0.887697	0.204353	0.419865
hCG_2997	-0.17318	-0.02811	0.09192	-0.19188	0.197661	0.83704	0.496476	0.152747	-0.00322	-0.30208	-0.01825	-0.24487	0.491623	0.02186	0.453204	0.052489
CNGA3	-0.10198	-0.14843	-0.00145	-0.2471	0.458769	0.284097	0.991612	0.068945	-0.0687	-0.50114	0.034719	-0.34259	0.32504	0.000194	0.589561	0.009886
JOSD2	-0.0798	-0.15429	0.236691	-0.27872	0.555142	0.256228	0.076284	0.035772	-0.19405	-0.32346	-0.03345	-0.27854	0.098136	0.014161	0.413664	0.030435
C19orf41	-0.0538	0.059424	0.14468	-0.14879	0.691006	0.663531	0.282925	0.269326	0.007064	-0.28443	0.160456	-0.21588	0.518582	0.027698	0.853812	0.074804
CPT1C	0.139352	-0.16066	0.252685	-0.04004	0.301216	0.236857	0.057911	0.767433	-0.01907	-0.09028	0.143688	-0.12988	0.449959	0.275363	0.826817	0.194807
ALDH16A1	-0.01758	0.037024	0.106259	0.005266	0.897653	0.788421	0.435718	0.969272	-0.01808	0.246236	-0.05228	0.093785	0.453074	0.948505	0.368048	0.729988

NTN5	0.015282	-0.11901	0.366078	-0.1778	0.91017	0.382336	0.005102	0.18578	-0.03238	-0.30909	0.244897	-0.39238	0.415412	0.018302	0.947533	0.003497
CNGA4	-0.12425	-0.19548	0.079331	-0.25373	0.357131	0.148792	0.557479	0.056851	-0.2385	-0.26658	0.016183	-0.18492	0.055222	0.03666	0.542014	0.109296
NLRP13	-0.0904	0.135921	0.066857	-0.21566	0.50365	0.317871	0.621217	0.107148	0.061383	-0.18229	0.032147	-0.1729	0.657352	0.112653	0.583024	0.125256
NLRP8	0.086967	-0.12382	0.196232	-0.21027	0.520056	0.36326	0.143478	0.11642	0.046848	-0.46781	0.110901	-0.34204	0.621403	0.000522	0.765852	0.009992
NLRP5	-0.0616	0.019157	0.14852	-0.25962	0.648981	0.888552	0.270207	0.051147	0.122804	-0.30762	0.209401	-0.34497	0.791907	0.018778	0.916289	0.00944
ZNF787	-0.11896	0.010443	0.174838	0.055555	0.382549	0.939111	0.197464	0.68425	-0.0923	-0.1987	0.107757	-0.19748	0.273251	0.095347	0.756859	0.096749
ZNF573	0.087514	0.185934	-0.12844	0.052582	0.517423	0.170057	0.341026	0.697677	0.038201	0.302077	-0.09784	0.11819	0.5995	0.979342	0.261282	0.782978
RPS4P21	0.014554	0.204079	-0.15546	0.043074	0.91443	0.131383	0.248185	0.750374	0.073546	-0.09316	-0.08556	-0.16492	0.686425	0.269016	0.28815	0.136697
WDR88	-0.07079	-0.19465	0.145408	-0.21148	0.600797	0.150549	0.280485	0.11429	-0.0217	-0.36235	0.050541	-0.25472	0.443086	0.006668	0.62919	0.043784
TMIGD2	-0.07332	-0.16012	0.267656	-0.02403	0.587823	0.238458	0.044128	0.859143	0.045956	-0.47506	0.182465	-0.32892	0.619159	0.000425	0.884867	0.012808
EID2B	-0.18843	-0.05896	0.089749	-0.30089	0.160401	0.666014	0.50674	0.022944	-0.0681	-0.38896	-0.04117	-0.37118	0.326478	0.003775	0.394143	0.005549
TNFAIP8L1	-0.07937	-0.20852	0.05526	-0.25792	0.557306	0.12302	0.683075	0.052743	-0.24948	-0.30765	-0.06641	-0.33731	0.04726	0.018766	0.332343	0.010941
ZNF57	-0.18147	0.178145	-0.25841	-0.27098	0.176717	0.188987	0.052278	0.041467	0.020825	0.393613	-0.15367	0.116612	0.554631	0.996599	0.156768	0.779875
IRGQ	-0.058	0.008517	0.032742	-0.11842	0.668267	0.950324	0.808944	0.380292	0.00856	0.201224	-0.07475	-0.03094	0.522512	0.910036	0.312771	0.419132
ZNF428	-0.1066	-0.11676	0.093898	-0.08506	0.429996	0.391448	0.487216	0.529289	-0.20075	0.03344	0.050322	-0.06059	0.090486	0.587305	0.628651	0.34459
PLK3	-0.02092	-0.08775	-0.11645	0.094894	0.877257	0.520168	0.388349	0.482586	0.14684	0.04312	0.082342	-0.09862	0.834922	0.612	0.704622	0.257178
JSRP1	0.08554	-0.05657	0.309084	-0.09839	0.526952	0.678775	0.019313	0.466533	0.182028	-0.2849	0.171023	-0.25496	0.887003	0.027487	0.869339	0.043633
MOBK2A	-0.05234	-0.2866	0.238	0.347498	0.699022	0.032235	0.074624	0.008084	-0.1219	-0.10338	-0.00343	0.05938	0.212514	0.249578	0.491195	0.650794
C19orf28	0.067304	-0.0816	0.181123	0.076148	0.61888	0.549912	0.177551	0.573442	0.09879	0.105856	0.005831	0.062679	0.743183	0.758087	0.515162	0.660497
GIPC3	0.072236	0.027747	0.286071	-0.05176	0.593349	0.839139	0.030987	0.702208	0.226444	-0.30353	0.247614	-0.23674	0.934896	0.020151	0.949493	0.056591
NDUFA11	-0.07468	-0.11681	-0.01351	0.158073	0.580882	0.391245	0.920538	0.24024	-0.15331	0.164738	-0.01604	0.263079	0.157345	0.860242	0.458841	0.959597
C19orf21	-0.24172	0.219732	-0.12366	-0.14364	0.070064	0.103696	0.359441	0.286423	-0.29906	0.432793	-0.21799	0.182389	0.021746	0.998668	0.075137	0.88747
LRRC25	-0.00358	-0.31246	0.250131	-0.06809	0.978934	0.019051	0.060578	0.614789	-0.01848	-0.50933	0.089777	-0.42707	0.452042	0.000176	0.718887	0.001718
OR11	-0.02151	-0.19214	0.158143	-0.23861	0.873789	0.155984	0.240029	0.073856	0.074725	-0.39097	0.14126	-0.35509	0.689189	0.00361	0.822669	0.007726
WTIP	0.155581	-0.32502	0.321354	-0.06307	0.247827	0.014521	0.014791	0.641146	0.239436	-0.56825	0.223608	-0.3344	0.945494	1.90E-05	0.930104	0.011561
ZNF792	0.356682	-0.06296	0.304953	0.12687	0.006461	0.644828	0.021078	0.346996	0.259317	-0.13112	0.231404	-0.0091	0.959095	0.192532	0.936926	0.476077
NR2C2AP	-0.19271	0.051817	-0.26573	0.124087	0.150952	0.704484	0.045735	0.357761	-0.18761	0.480534	-0.40772	0.276606	0.105923	0.999638	0.002718	0.968621
HSPB6	0.219107	-0.08346	0.214174	0.112772	0.101519	0.540825	0.109648	0.403595	0.342639	-0.20241	0.3441	-0.05759	0.990123	0.088661	0.98968	0.35191
CNN1	0.410941	-0.27788	0.24125	0.052678	0.001497	0.038119	0.07063	0.697153	0.308628	-0.47542	0.281994	-0.30832	0.981549	0.00042	0.969722	0.01855
CCDC105	-0.0175	-0.16446	0.269598	-0.13645	0.897193	0.225812	0.042555	0.311504	0.117362	-0.48554	0.129769	-0.3513	0.781354	0.000313	0.802232	0.008335
CYP4F22	-0.03796	0.064891	0.039601	-0.27521	0.78117	0.637866	0.771987	0.040087	-0.06061	-0.13108	0.058491	-0.1417	0.344541	0.19261	0.648641	0.173767
RINL	0.023943	-0.2804	0.169084	-0.0357	0.859677	0.036331	0.208627	0.79207	0.164709	-0.248	0.165927	-0.24919	0.862992	0.048278	0.861994	0.047459
FBXO27	0.062056	0.238905	-0.02251	-0.33971	0.646537	0.076186	0.867983	0.00973	-0.05354	0.150308	0.000747	-0.03337	0.363426	0.837819	0.501921	0.413877
CNN2	0.080327	-0.04269	-0.0362	0.205437	0.552523	0.754711	0.789211	0.125261	0.07565	0.27455	-0.1136	0.233762	0.691349	0.96759	0.22874	0.941041
PLK5P	0.006009	-0.1906	0.193768	-0.17189	0.964618	0.159411	0.148674	0.20105	0.144666	-0.36833	0.159608	-0.33646	0.831279	0.005891	0.852516	0.011119
C19orf47	0.014524	-0.07038	0.027678	-0.26874	0.914605	0.606224	0.83806	0.043241	0.018514	-0.24953	-0.08149	-0.28638	0.548598	0.047224	0.297302	0.026833
OR10H4	0.088226	-0.17811	0.133078	-0.27185	0.51401	0.189067	0.323713	0.040791	0.052375	-0.37025	0.069976	-0.36234	0.635212	0.005659	0.676079	0.006669
ANKLE1	-0.07568	-0.07597	0.224814	-0.12567	0.575785	0.57787	0.092704	0.351623	0.131476	-0.30926	0.122737	-0.30521	0.805353	0.019357	0.786319	0.020737
FAM148C	0.053197	-0.02491	0.210274	-0.20017	0.694311	0.855386	0.116422	0.135467	0.072743	-0.33348	0.18693	-0.29668	0.684539	0.011763	0.890567	0.022633
CNN3	0.213269	-0.12251	0.00145	0.362812	0.111192	0.368381	0.991461	0.005543	0.315937	-0.07624	0.255296	0.177854	0.98378	0.307275	0.954731	0.881501
GABPB2	-0.0836	0.016495	-0.04736	-0.19118	0.536407	0.903961	0.726479	0.154288	-0.09256	0.077901	-0.15641	0.075585	0.270332	0.696582	0.152441	0.691197
TCHHL1	0.002786	-0.15209	0.181239	-0.1657	0.983744	0.26765	0.181295	0.222294	0.155694	-0.22248	0.240398	-0.26306	0.84925	0.068628	0.94416	0.038671
RPTN	-0.05803	0.032044	0.003977	-0.27859	0.670989	0.816347	0.976792	0.037604	-0.15306	0.030496	-0.02021	-0.08851	0.160619	0.577895	0.448202	0.283897
TDRD10	0.251183	-0.13636	0.342016	0.193269	0.059469	0.316298	0.009214	0.149741	0.182744	-0.16695	0.257855	-0.01541	0.88793	0.133731	0.956378	0.459526
SHE	0.222072	-0.35989	0.233249	0.135913	0.096861	0.006443	0.080785	0.313418	0.229344	-0.34966	0.197612	-0.18468	0.937386	0.008611	0.903403	0.109589
C1orf172	-0.17911	0.075909	-0.04981	-0.07409	0.182486	0.57818	0.712921	0.583874	-0.33563	0.215907	-0.32707	0.115065	0.011296	0.925223	0.014153	0.77681
CNP	0.157928	-0.02992	0.008309	0.110127	0.240678	0.826733	0.951088	0.414781	0.007347	0.389738	-0.12601	0.311993	0.519326	0.99629	0.204739	0.982606
C1orf96	0.150673	-0.14395	0.024311	0.1661	0.263245	0.289856	0.857545	0.216889	0.340757	-0.21966	0.081616	-0.13641	0.989758	0.071214	0.702976	0.183019
LRRC38	-0.0159	-0.04179	0.161772	-0.25143	0.90654	0.759752	0.229274	0.059208	-0.10728	-0.20533	0.144558	-0.17388	0.241523	0.088012	0.825419	0.12666
AADA3	-0.27808	0.049668	-0.04552	-0.18995	0.03622	0.716213	0.73668	0.156996	-0.11069	-0.34583	0.125405	-0.34644	0.231977	0.009283	0.794125	0.009172

PUSL1	-0.05178	-0.11461	0.146163	-0.20008	0.702054	0.400289	0.277966	0.135644	-0.07785	-0.2006	-0.07396	-0.27905	0.30354	0.090655	0.314603	0.03019
B3GALT6	0.021664	-0.12338	0.27338	-0.02305	0.872915	0.364988	0.039626	0.864834	-0.06327	-0.07448	0.100287	-0.04321	0.338082	0.311385	0.743918	0.387759
CNR1	0.183063	-0.17279	0.130679	0.097403	0.176866	0.207121	0.337065	0.475128	0.304588	-0.47891	0.176259	-0.32424	0.980212	0.00038	0.87661	0.013962
WDR63	-0.06844	-0.12595	0.044903	-0.23676	0.612958	0.35499	0.740141	0.076201	-0.13145	-0.29177	0.103619	-0.22918	0.191942	0.024565	0.750913	0.062753
KLHDC9	-0.24675	-0.14391	-0.06484	-0.26292	0.064262	0.289977	0.631807	0.04816	-0.24698	-0.20056	-0.08223	-0.18384	0.048987	0.090704	0.295636	0.110666
C1orf125	-0.07945	-0.15546	-0.08613	-0.28707	0.560516	0.257071	0.527917	0.03194	-0.09458	-0.44799	-0.00252	-0.30062	0.265908	0.000898	0.493436	0.021178
C1orf161	0.064475	-0.18708	0.203241	-0.41446	0.633727	0.167388	0.12944	0.001349	-0.15434	-0.05683	0.117585	-0.10901	0.152879	0.353776	0.77913	0.235419
CNR2	-0.05547	-0.23296	0.155843	-0.14082	0.681953	0.084017	0.247021	0.296117	-0.04477	-0.40212	0.080945	-0.20561	0.383826	0.002801	0.701454	0.085212
IFFO2	0.017179	0.101919	-0.07133	-0.15894	0.89907	0.454798	0.597984	0.237633	-0.20001	0.354237	-0.12642	0.187407	0.091313	0.99214	0.203974	0.893831
SLC44A3	0.002377	0.250897	-0.12962	-0.01034	0.985998	0.062161	0.336573	0.939158	0.119465	0.33537	-0.17667	0.137213	0.782789	0.987842	0.125645	0.815623
ADH4	-0.01962	-0.0769	-0.01239	-0.07298	0.884845	0.573204	0.927142	0.58954	0.029613	0.033913	0.0089	-0.13857	0.577446	0.588522	0.523136	0.179197
ATXN7L2	-0.01057	-0.07411	0.182433	-0.16929	0.937771	0.587234	0.174382	0.208057	0.001528	-0.14794	-0.04288	-0.14033	0.504021	0.163246	0.389862	0.176132
C1orf194	-0.0281	-0.17427	0.085655	-0.24495	0.835634	0.198955	0.526393	0.066287	-0.14929	-0.3012	0.136655	-0.1873	0.161028	0.020969	0.814639	0.106303
LYPLAL1	0.029841	0.184094	-0.13904	0.128968	0.825597	0.174398	0.302327	0.339014	0.021567	0.236029	-0.13489	0.217622	0.556566	0.942852	0.188499	0.926867
OR2M5	-0.01148	-0.14226	0.014101	-0.31262	0.932459	0.295626	0.917083	0.017902	0.003321	-0.22805	0.093034	-0.39819	0.508737	0.06372	0.728357	0.003066
OR2M3	0.029395	-0.16428	-0.08906	-0.23346	0.828165	0.226322	0.510002	0.080503	-0.02175	-0.28037	0.047395	-0.16788	0.442966	0.029562	0.6214	0.132383
OR14C36	0.000235	-0.1257	0.199407	-0.24928	0.998617	0.355947	0.136984	0.061486	0.024853	-0.31786	-0.04126	-0.29071	0.564368	0.016676	0.395155	0.026351
OR2T10	-0.02138	-0.05231	0.07302	-0.13439	0.874577	0.701816	0.589339	0.318908	-0.00333	-0.35602	0.111555	-0.15182	0.491247	0.007583	0.76717	0.156923
OR2T4	-0.0348	-0.18987	0.059958	-0.35969	0.797187	0.161034	0.657735	0.005994	-0.00514	-0.30311	0.039731	-0.20428	0.486628	0.021485	0.601047	0.089144
OR2T11	0.065933	-0.01519	0.18671	-0.13848	0.632462	0.913165	0.17228	0.313331	-0.04186	-0.41466	0.060155	-0.21474	0.392419	0.002312	0.650951	0.078303
RPLP1P3	0.070082	-0.02449	0.130341	-0.23525	0.607779	0.859113	0.338328	0.080933	-0.08799	-0.17997	-0.09652	-0.40162	0.280459	0.115684	0.264114	0.002833
CNTFR	0.116384	-0.15672	0.373806	-0.09835	0.392992	0.253196	0.004541	0.470845	0.216982	-0.25123	0.274259	-0.23099	0.923889	0.047985	0.964194	0.063427
ATP6V1G3	-0.13615	-0.14222	-0.01207	-0.41032	0.312577	0.295752	0.929017	0.001524	-0.14637	-0.27081	-0.04606	-0.28063	0.168678	0.035986	0.383273	0.030933
CNTN1	0.209933	0.256685	-0.17288	-0.00745	0.11703	0.056177	0.198446	0.956136	-0.0373	0.47668	-0.01631	0.295959	0.402812	0.999595	0.45766	0.977089
ASB17	0.039679	-0.11811	0.023938	-0.23059	0.769485	0.385962	0.859706	0.084406	-0.12852	-0.15574	-0.1555	-0.06165	0.20007	0.153486	0.156747	0.343731
TYW3	0.177709	0.110838	-0.10986	0.213639	0.186001	0.416081	0.41592	0.110559	0.223717	0.285112	-0.07085	0.252797	0.932488	0.972607	0.321859	0.954965
C1orf173	-0.06349	-0.17446	0.075584	-0.19988	0.638906	0.198451	0.576294	0.136032	-0.12027	-0.29831	0.144436	-0.24601	0.212962	0.022022	0.828082	0.049674
LRRIQ3	-0.10787	-0.13452	0.019875	-0.27893	0.424462	0.322915	0.883335	0.035631	-0.26693	-0.35885	0.098168	-0.11528	0.036464	0.007162	0.739417	0.222768
TPRG1L	0.033338	0.038262	-0.11256	-0.35595	0.809068	0.783553	0.413243	0.00765	-0.46198	-0.00815	-0.07381	-0.09508	0.0007	0.478823	0.316987	0.267212
C1orf93	-0.19775	-0.16648	-0.00158	-0.18852	0.140338	0.220087	0.990709	0.1602	-0.15573	-0.03321	0.003717	-0.0566	0.150696	0.413275	0.509666	0.354348
MYOM3	0.015888	-0.16826	0.228885	-0.19556	0.906619	0.21511	0.086791	0.144872	0.078652	-0.2464	0.170787	-0.18486	0.698319	0.049399	0.869004	0.109368
DMBX1	0.059968	-0.03805	0.304599	-0.3177	0.657679	0.780696	0.021236	0.01603	-0.06631	-0.33489	0.130802	-0.30641	0.330755	0.011454	0.804123	0.019175
OR10J5	0.004725	-0.12417	0.11296	-0.24062	0.972174	0.3619	0.402807	0.071388	0.355525	-0.42186	0.161901	-0.36792	0.991728	0.001949	0.853132	0.006449
TMCO2	-0.03101	-0.09661	0.204159	-0.16879	0.818874	0.478732	0.12768	0.209423	-0.02131	-0.35376	0.13713	-0.21854	0.444117	0.007936	0.815478	0.072269
ZNF684	-0.02077	0.105973	-0.02454	0.055105	0.87814	0.436963	0.856232	0.683916	-0.0046	-0.0843	0.004445	-0.0445	0.487897	0.288758	0.511559	0.384515
C1orf83	-0.14329	0.302676	-0.17444	-0.14051	0.287637	0.023366	0.194365	0.297164	-0.26696	0.220399	-0.0473	0.048545	0.036447	0.929469	0.378825	0.625658
PODN	0.239969	-0.33948	0.117883	0.270828	0.074848	0.011226	0.386885	0.0435	0.209789	-0.0389	0.22936	0.205304	0.919142	0.398727	0.935187	0.914462
LRRC39	0.218213	-0.26898	0.119139	-0.13933	0.102956	0.045011	0.377399	0.3013	0.21881	-0.10182	0.265741	-0.25895	0.925642	0.252852	0.959375	0.04293
GJB4	-0.02156	0.264404	-0.09643	-0.3697	0.873504	0.048931	0.4755	0.004649	-0.34287	0.362317	-0.20252	0.235993	0.009833	0.993328	0.091067	0.942824
HMGB4	-0.06192	-0.14401	0.150102	-0.24064	0.647281	0.289631	0.265079	0.071364	-0.07992	-0.27502	0.175842	-0.22432	0.298756	0.03217	0.876041	0.066977
RNF19B	-0.17527	0.393769	-0.20087	0.311948	0.19221	0.002677	0.134058	0.018164	-0.25775	0.606418	-0.23998	0.332923	0.041867	0.999996	0.056162	0.988113
hCG_16417	-0.04993	-0.11618	0.103323	0.042783	0.712225	0.393822	0.444365	0.752008	0.284774	-0.21356	0.163675	-0.07525	0.972458	0.077069	0.858664	0.30959
A3GALT2	0.00617	-0.05487	0.09539	-0.2059	0.964005	0.690695	0.484344	0.127905	0.155027	-0.15284	0.220914	-0.23586	0.8482	0.155281	0.927624	0.057279
DCST2	0.026799	0.091981	0.148723	-0.12874	0.843141	0.500167	0.269543	0.339869	0.160473	-0.1287	0.023931	-0.1728	0.856641	0.196992	0.561998	0.125408
DNAH14	0.011189	-0.07257	0.049956	-0.22612	0.934162	0.595058	0.7121	0.090776	0.050946	-0.54708	0.210779	-0.34815	0.631655	4.17E-05	0.91771	0.008871
OR2B11	-0.01929	-0.12377	0.168874	-0.17875	0.886731	0.363434	0.209201	0.183402	0.05711	-0.32025	0.026489	-0.19974	0.646908	0.015013	0.568565	0.091618
ZNF648	-0.03972	-0.10194	0.151739	0.01715	0.769246	0.454718	0.259844	0.899238	-0.20618	-0.0413	0.097603	-0.03708	0.087103	0.393823	0.735748	0.404452
TEDDM1	-0.08294	-0.16759	0.055089	-0.16135	0.53964	0.216978	0.684003	0.230503	0.019634	-0.16557	0.166891	-0.21265	0.551524	0.135734	0.863404	0.077968
C1orf122	0.066283	-0.14415	0.208156	-0.04191	0.62422	0.289163	0.120231	0.756895	0.091356	-0.21418	0.019823	-0.13069	0.727017	0.076459	0.55142	0.193319
COL1A1	0.288898	-0.20926	0.302651	0.307932	0.029293	0.121671	0.02212	0.019792	0.05366	0.201334	0.173564	0.431802	0.638398	0.910157	0.872902	0.998634

C1orf102	-0.11995	-0.22458	0.044952	-0.29648	0.374139	0.09611	0.739866	0.025132	-0.23588	-0.26905	0.032157	-0.21297	0.057265	0.035299	0.583049	0.077654
C1orf216	0.03648	-0.14951	0.235797	-0.07438	0.787615	0.271431	0.077433	0.582405	0.038137	-0.48842	0.158611	-0.23659	0.599337	0.000287	0.850983	0.056709
KLHDC7A	-0.15117	-0.26041	0.087907	-0.23429	0.261654	0.05258	0.515537	0.079397	-0.13261	-0.37781	0.142467	-0.23944	0.189831	0.004818	0.824739	0.054502
VWA5B1	0.039732	-0.10636	0.245351	-0.0353	0.769188	0.435294	0.065834	0.794319	0.068805	-0.22983	0.048284	-0.31879	0.675213	0.062205	0.623606	0.015413
UBXN10	-0.09097	-0.17465	0.045249	-0.19783	0.500955	0.197957	0.738211	0.14018	-0.13225	-0.27426	0.102695	-0.21521	0.190487	0.032556	0.748982	0.075449
C1orf87	-0.06555	-0.25125	0.110349	-0.27035	0.628087	0.061776	0.413835	0.041957	-0.14009	-0.39793	0.136792	-0.30226	0.176553	0.003084	0.814881	0.020592
COL1A2	0.340932	-0.0553	0.280609	0.461957	0.010132	0.688393	0.036187	0.000338	0.009296	0.299529	0.08202	0.53311	0.524447	0.978427	0.703892	0.999932
ARL8A	0.038188	0.008099	-0.06352	-0.03682	0.777922	0.952761	0.638753	0.78568	-0.05501	0.253965	0.027638	0.068547	0.358273	0.955727	0.571508	0.674598
SYT2	-0.0892	-0.24744	0.14275	-0.09883	0.513275	0.068556	0.293932	0.468654	-0.01371	-0.38617	-0.03063	-0.30054	0.46481	0.004812	0.422699	0.023725
GOLT1A	0.006744	-0.00098	0.251836	-0.14698	0.960656	0.994362	0.061156	0.279715	-0.16368	-0.06166	0.135324	-0.0364	0.138527	0.341983	0.812279	0.405092
UHMK1	-0.11634	0.248195	-0.33336	0.223797	0.388788	0.065124	0.011277	0.094229	-0.16139	0.529674	-0.2688	0.383646	0.141967	0.999923	0.037095	0.995755
FCRLB	0.050018	0.006603	0.287944	-0.20305	0.711761	0.961476	0.029856	0.129812	0.135747	-0.23353	0.088843	-0.27487	0.815811	0.059145	0.719164	0.032246
ADH5	0.149709	0.10536	-0.16854	0.139574	0.266347	0.439634	0.210124	0.300437	0.237553	0.241182	0.086057	0.273053	0.944046	0.946812	0.712971	0.966824
COL2A1	0.301107	-0.19075	0.363615	-0.13782	0.024129	0.163011	0.005875	0.311109	0.386606	-0.30648	0.176103	-0.29911	0.995233	0.021514	0.870681	0.024284
WDR64	-0.01324	-0.10689	0.045768	-0.11041	0.922866	0.437327	0.737665	0.417897	-0.02184	-0.29844	0.08096	-0.15503	0.442729	0.021973	0.701486	0.15179
C1orf131	-0.22017	0.090703	-0.08582	0.168249	0.099834	0.506166	0.525611	0.210915	-0.02981	0.057057	-0.11322	0.071396	0.422052	0.646777	0.2295	0.681361
LIX1L	0.110482	-0.35544	0.198439	0.115795	0.413271	0.007182	0.13894	0.391029	0.194494	-0.36273	0.259912	-0.11822	0.899772	0.007165	0.955796	0.219621
COL3A1	0.206827	-0.04586	0.130369	0.374166	0.129753	0.741961	0.342775	0.00489	-0.07696	0.419445	0.009923	0.614492	0.305603	0.998144	0.52579	0.999997
SPATA17	-0.09217	-0.08918	0.041209	-0.19941	0.495307	0.513341	0.760857	0.136988	-0.15841	-0.26212	0.099812	-0.13589	0.146518	0.039226	0.742912	0.183933
EDARADD	0.030077	0.075297	-0.09776	0.155762	0.825833	0.584814	0.473526	0.251655	-0.26771	0.606045	-0.18552	0.471056	0.036031	0.999996	0.111206	0.999524
LOC128192	-0.1645	-0.09254	0.001721	-0.10044	0.221418	0.497533	0.989861	0.457246	-0.0157	-0.22588	-0.09085	-0.2257	0.45877	0.065599	0.276425	0.065756
COL4A1	0.3041	-0.12595	0.413707	0.336532	0.02269	0.359507	0.001528	0.011212	0.295698	-0.17785	0.18861	0.076888	0.976989	0.118499	0.89266	0.694231
KLF17	-0.17502	-0.22772	0.023151	-0.20854	0.196985	0.091426	0.86551	0.122988	0.096144	-0.38863	0.094453	-0.30398	0.737484	0.003802	0.731437	0.019995
TMEM125	-0.11654	-0.07019	0.216585	-0.19311	0.387968	0.607197	0.105614	0.15008	-0.12735	-0.09931	-0.03811	-0.12436	0.199502	0.255705	0.401856	0.205123
C1orf182	-0.01939	-0.14327	0.213251	-0.19431	0.88616	0.292166	0.111222	0.147527	-0.19683	-0.16888	-0.08332	-0.18991	0.094911	0.130942	0.293181	0.103087
IQGAP3	-0.00322	0.199275	0.150747	-0.10496	0.981402	0.14856	0.271948	0.445694	-0.04415	0.457514	0.163128	0.271105	0.386689	0.999211	0.854978	0.964176
APOA1BP	0.087887	0.169214	-0.07363	0.136056	0.515632	0.212496	0.586241	0.312906	-0.09602	0.613891	-0.19836	0.439514	0.262783	0.999997	0.095735	0.998879
ARHGEF19	-0.04649	-0.04775	-0.01121	-0.08915	0.731315	0.726762	0.934035	0.509615	-0.00205	0.057258	-0.14106	-0.03452	0.494605	0.647272	0.177676	0.40992
MRPL55	-0.04554	-0.22036	0.200737	-0.10276	0.736583	0.10269	0.13433	0.446845	-0.13861	-0.10092	-0.1348	-0.34863	0.179132	0.252272	0.188663	0.008786
HIST3H2BB	-0.27534	-0.00812	-0.07313	-0.33277	0.038177	0.952662	0.588799	0.011432	-0.32144	-0.16151	-0.17659	-0.26641	0.014692	0.141792	0.122946	0.036753
LOC128322	-0.1139	0.106944	0.032208	-0.14619	0.398889	0.432747	0.812004	0.277889	-0.14917	-0.0013	0.128525	-0.08715	0.161229	0.49657	0.799939	0.282346
TMEM77	-0.12407	0.08092	-0.18665	0.006464	0.357845	0.55327	0.16446	0.961939	-0.13909	0.157083	-0.01504	0.19395	0.178303	0.851423	0.460942	0.901741
C1orf88	-0.11833	-0.13287	0.013415	-0.17222	0.385054	0.333526	0.92183	0.204363	-0.13057	-0.25712	0.113697	-0.17543	0.193541	0.042261	0.771457	0.121772
C1orf162	0.061285	-0.31079	0.204336	0.419811	0.653654	0.020917	0.130887	0.001278	0.179417	-0.5481	0.244324	-0.23154	0.883582	4.02E-05	0.947112	0.060779
OR10T2	-0.06133	-0.0481	0.024652	-0.2389	0.650388	0.724792	0.855563	0.073497	-0.02382	-0.30151	0.021913	-0.2674	0.437576	0.020859	0.556808	0.036203
OR10X1	0.115442	0.057212	0.053374	-0.14618	0.396858	0.678223	0.696033	0.282373	0.056739	-0.04976	0.201694	-0.01816	0.642752	0.374187	0.902684	0.453422
OR10Z1	-0.00963	-0.08658	0.168367	-0.28751	0.943326	0.525741	0.210591	0.030113	0.071059	-0.34913	0.028401	-0.32453	0.680565	0.0087	0.573461	0.013889
OR6K6	0.171441	-0.16977	0.259706	-0.1513	0.202258	0.210961	0.051067	0.261236	0.085387	-0.30347	0.162785	-0.33525	0.713697	0.020173	0.857333	0.011377
OR6N1	0.048497	0.00268	0.185834	-0.2335	0.722631	0.984505	0.170291	0.083277	0.162259	-0.17268	0.285835	-0.23787	0.856543	0.128328	0.970006	0.057805
COL4A2	0.343969	-0.17302	0.473128	0.228072	0.00944	0.206517	0.000231	0.090913	0.310156	-0.20672	0.315499	-0.0217	0.982035	0.084042	0.982619	0.443098
BHLHE23	0.008444	-0.12333	0.248743	-0.17228	0.950294	0.365181	0.062069	0.200019	0.128177	-0.41202	0.196221	-0.43807	0.799296	0.00246	0.899122	0.001307
NKAIN4	-0.14312	-0.14727	0.151469	-0.08263	0.288192	0.27875	0.260701	0.541145	0.072386	-0.39775	0.134601	-0.33855	0.683698	0.003097	0.810989	0.010684
VSTM2L	-0.16337	-0.23396	0.154012	-0.28833	0.224656	0.082662	0.252687	0.029625	-0.04347	-0.3723	0.126373	-0.4076	0.387103	0.005419	0.795939	0.002464
SNHG11	-0.20421	0.181011	0.131559	-0.11231	0.127591	0.181854	0.329315	0.40552	-0.08931	-0.07411	-0.16032	-0.18311	0.277522	0.312262	0.1464	0.111597
C20orf142	-0.0785	-0.02935	-0.17601	0.075206	0.568888	0.833114	0.198656	0.585271	0.035967	0.004009	-0.24242	-0.01062	0.593789	0.510548	0.054302	0.472088
WFDC12	0.008492	0.164309	0.14572	-0.21529	0.950012	0.226246	0.279442	0.107764	0.082219	-0.15846	0.121761	-0.16113	0.706507	0.146441	0.787213	0.142355
C20orf165	0.149019	-0.21193	0.205057	-0.2884	0.268582	0.116879	0.125977	0.029588	0.07449	-0.26737	0.270343	-0.22726	0.688639	0.03622	0.96376	0.064395
COL4A3	0.071739	-0.28077	0.283206	-0.10573	0.595904	0.036077	0.032785	0.433754	0.223082	-0.38769	0.259924	-0.27424	0.931918	0.003883	0.957676	0.032567
C20orf123	0.12596	-0.02298	0.326119	-0.20724	0.350491	0.866513	0.013298	0.121901	0.088594	-0.4084	0.134655	-0.25191	0.720892	0.002419	0.811085	0.045621
TSHZ2	0.027548	0.366281	-0.16345	-0.0221	0.838813	0.005497	0.224416	0.870368	0.061916	0.257412	0.043885	0.06474	0.658645	0.95792	0.612655	0.665475

COL4A4	-0.09812	-0.21221	0.184809	-0.06371	0.467775	0.116374	0.168744	0.637762	0.01395	-0.32693	0.153322	-0.2434	0.536656	0.013289	0.842681	0.05155
C2orf85	-0.10772	-0.16487	0.08938	-0.14098	0.425119	0.224653	0.508497	0.295557	-0.12825	-0.2612	0.125695	-0.1906	0.197823	0.039767	0.79467	0.102257
ZNF831	-0.06878	-0.22836	0.144453	0.317714	0.611188	0.090502	0.283687	0.016027	-0.0011	-0.13468	0.047575	-0.08989	0.497117	0.186095	0.621848	0.276235
TBC1D20	-0.15458	0.174927	-0.1348	0.173958	0.259811	0.205818	0.326489	0.204019	-0.09134	-0.12852	-0.259	-0.0974	0.275349	0.200069	0.044785	0.262216
SIRPD	-0.03194	-0.32338	0.196571	-0.2082	0.815235	0.016027	0.146493	0.12361	0.049906	-0.39107	0.286719	-0.2722	0.626163	0.004334	0.968845	0.036928
C2orf141	0.100296	-0.11919	0.300045	-0.1692	0.457897	0.381619	0.023352	0.208315	0.039309	-0.38622	0.191356	-0.23782	0.602324	0.004011	0.896022	0.05575
PROKR2	0.048447	0.011663	0.170466	-0.17993	0.722909	0.932647	0.20908	0.184517	0.156178	-0.23031	0.094945	-0.20145	0.85001	0.061797	0.732499	0.089716
COL4A5	0.17124	0.019601	0.03131	0.064619	0.202796	0.885988	0.817158	0.632966	0.199064	-0.11104	0.226581	0.013479	0.905063	0.233863	0.930432	0.535013
C2orf94	-0.16315	0.349244	-0.19676	-0.0837	0.225283	0.008335	0.142372	0.535904	-0.09869	0.434	-0.15773	0.271521	0.257037	0.998708	0.150386	0.966024
COL4A6	0.260521	-0.18819	0.231219	0.099334	0.050317	0.164833	0.083536	0.462241	0.15	-0.33589	0.14004	-0.08523	0.840131	0.01124	0.820563	0.28666
CSTL1	-0.21416	-0.03037	-0.06305	-0.38898	0.109669	0.824162	0.641279	0.002786	-0.25205	-0.24094	0.111539	-0.2297	0.045528	0.053368	0.767137	0.062312
CST9L	-0.00658	-0.20342	0.191309	-0.24457	0.961628	0.136337	0.157826	0.069277	0.16482	-0.24747	0.278068	-0.21778	0.863155	0.048644	0.967808	0.072982
CST9	-0.00211	-0.04079	0.058946	-0.2799	0.987697	0.767481	0.666077	0.03668	0.097574	-0.31996	-0.05912	-0.28656	0.740571	0.01509	0.349829	0.026756
C2orf166	0.089283	-0.24788	0.287789	-0.18358	0.508957	0.065472	0.029948	0.171641	0.207659	-0.53487	0.191861	-0.40249	0.916943	6.42E-05	0.896633	0.002777
DUSP15	0.083079	-0.14381	0.274083	-0.2414	0.53895	0.290323	0.039101	0.070453	0.140597	-0.35634	0.231489	-0.29911	0.824325	0.007535	0.936997	0.021726
TSPYL3	-0.03509	-0.19634	0.175925	-0.17579	0.795554	0.146982	0.190529	0.190877	0.15332	-0.41119	0.169059	-0.36688	0.84549	0.002264	0.866541	0.006072
BPIL3	0.007865	-0.10952	0.240518	-0.00832	0.954555	0.426071	0.076922	0.951903	0.138985	-0.33673	0.130931	-0.24547	0.821522	0.011062	0.80436	0.05006
C2orf71	-0.02032	0.002947	0.214319	-0.2507	0.881812	0.982965	0.112708	0.062373	0.113974	-0.38522	0.109484	-0.43173	0.774636	0.004101	0.762982	0.001368
C2orf144	0.059569	-0.01772	0.29943	-0.17372	0.65982	0.896891	0.023651	0.196247	0.252241	-0.25564	0.204834	-0.27952	0.954598	0.043199	0.911454	0.029966
CHMP4B	-0.16305	0.116774	-0.12371	-0.17254	0.225579	0.391397	0.359226	0.199332	-0.10523	0.133798	-0.18286	-0.09174	0.243215	0.812321	0.114615	0.272137
PIGU	-0.0943	0.359962	-0.25979	-0.14197	0.485335	0.006431	0.050993	0.292148	-0.25029	0.501717	-0.27195	0.268064	0.046708	0.999809	0.035367	0.964164
HMGB3L1	-0.016	-0.15613	0.186386	-0.29468	0.905979	0.250514	0.165073	0.026072	0.049752	-0.32573	0.097858	-0.38934	0.628677	0.013586	0.738757	0.003743
FAM83C	-0.13736	0.028929	-0.07533	-0.13758	0.308255	0.832384	0.577601	0.307479	-0.13482	0.166759	-0.03041	0.052032	0.185843	0.865997	0.421393	0.634359
COL5A1	0.238282	-0.28606	0.321286	0.107422	0.074271	0.032574	0.014813	0.426405	0.160859	-0.23773	0.167934	-0.01357	0.857228	0.055817	0.864918	0.464348
GAB4	0.033382	-0.18659	0.225586	-0.29501	0.805285	0.168534	0.091559	0.025895	0.216537	-0.3285	0.279404	-0.35054	0.92583	0.012908	0.96847	0.008461
C22orf39	-0.04128	0.102178	-0.11259	0.154766	0.760478	0.453649	0.404345	0.250343	-0.23626	0.080201	0.113474	0.104536	0.056967	0.701887	0.771014	0.755337
C22orf25	-0.00894	-0.02436	0.036392	0.075633	0.947371	0.858581	0.788116	0.576046	-0.11981	0.140916	0.055173	0.090395	0.213867	0.824876	0.640567	0.724894
COL5A2	0.308215	-0.18801	0.291261	0.274628	0.020831	0.16926	0.029414	0.040527	0.092183	0.12807	0.213354	0.306461	0.72884	0.801839	0.920317	0.980842
ZNF280A	-0.05897	0.063795	0.102241	-0.22453	0.663058	0.640422	0.449178	0.093129	-0.14298	-0.22589	0.102074	-0.23424	0.171579	0.065588	0.747681	0.058576
SGSM1	-0.01971	-0.02867	0.194808	-0.50761	0.884312	0.833868	0.146463	5.57E-05	-0.07238	-0.09027	-0.04982	-0.13469	0.316323	0.275389	0.372586	0.186079
EMID1	-0.01193	-0.20089	0.256316	-0.12761	0.929827	0.137654	0.054285	0.344159	0.248695	-0.40033	0.129539	-0.23337	0.952204	0.002918	0.80181	0.059274
COL6A1	0.293099	-0.21162	0.377953	0.13234	0.028359	0.120908	0.00408	0.330907	0.285026	-0.23082	0.214833	0.059789	0.97257	0.061376	0.921788	0.653469
ANKRD54	-0.27505	-0.32094	0.037167	-0.25903	0.038386	0.015878	0.783711	0.051693	-0.33851	-0.32437	0.013953	-0.3134	0.010694	0.013929	0.536242	0.016969
COL6A2	0.33863	-0.33164	0.261061	0.09349	0.010685	0.013383	0.051969	0.493132	0.312707	-0.30573	0.304704	-0.01934	0.982823	0.019403	0.979083	0.449232
KLRAQ1	-0.05386	0.090423	-0.18493	0.074283	0.690674	0.507484	0.168457	0.582896	-0.02496	0.251983	-0.10675	0.079432	0.434609	0.954427	0.242615	0.700117
LOC129293	-0.05648	-0.17486	0.118867	-0.17008	0.676462	0.197395	0.378496	0.205913	0.045851	-0.51466	0.230288	-0.53617	0.618893	0.000126	0.935981	6.14E-05
COL6A3	0.276469	-0.12711	0.219144	0.412932	0.041026	0.359709	0.107947	0.001729	0.160361	0.150251	0.214464	0.484308	0.856471	0.84054	0.921423	0.999676
TMEM150	0.183601	-0.12609	0.223063	0.102659	0.171594	0.354453	0.095342	0.447317	0.210154	-0.06719	-0.05125	-0.17065	0.917068	0.330496	0.370551	0.131192
COL7A1	-0.02389	-0.02562	-0.02575	-0.03708	0.859959	0.851321	0.849199	0.784189	0.038925	0.16569	-0.10097	0.098279	0.601345	0.864436	0.254636	0.742087
NUP35	0.023121	0.183721	-0.18785	0.202461	0.864448	0.175289	0.161729	0.130948	-0.15315	0.411219	-0.24907	0.278478	0.154774	0.997738	0.04948	0.969535
XIRP2	0.076103	-0.0846	0.112459	-0.22233	0.573674	0.535332	0.40491	0.096459	0.032717	-0.38783	0.119454	-0.38214	0.585446	0.003871	0.782769	0.004387
C2orf60	0.012022	0.272273	-0.13479	0.14257	0.929276	0.042348	0.317468	0.290079	0.043392	0.557822	-0.25812	0.291569	0.611421	0.999966	0.04535	0.974011
COL8A1	0.290594	-0.26978	0.274205	0.096714	0.028315	0.044347	0.03901	0.474191	0.300488	-0.34178	0.471358	-0.15685	0.978775	0.010041	0.999459	0.148935
NMS	0.079715	-0.13406	0.329311	-0.17769	0.555564	0.324619	0.012372	0.186048	0.12582	-0.32216	0.154345	-0.29264	0.797631	0.014502	0.844309	0.024214
LYG1	0.015071	0.249615	0.102098	0.092507	0.911405	0.063552	0.449816	0.493716	0.10422	0.119945	0.027064	-0.07058	0.754677	0.7864	0.57004	0.320573
MITD1	-0.01548	0.159341	-0.20303	0.253685	0.908987	0.240788	0.129852	0.056894	0.030885	0.247114	-0.07229	0.343595	0.579808	0.949136	0.320494	0.989581
DIS3L2	-0.15786	0.036713	-0.01091	-0.18705	0.240885	0.788216	0.935782	0.163553	-0.32709	-0.00231	-0.1911	-0.09036	0.014147	0.493993	0.107006	0.277486
COL8A2	0.118065	-0.29764	0.232954	-0.11525	0.381745	0.025893	0.08118	0.393294	0.235249	-0.45561	0.23659	-0.32605	0.942234	0.000732	0.941178	0.013507
CMPK2	-0.17794	-0.33359	0.243632	0.054612	0.189513	0.012815	0.070384	0.689331	-0.05637	-0.38041	0.174814	-0.39901	0.358141	0.005428	0.868902	0.003649
MBOAT2	-0.09607	0.291246	-0.31909	-0.16773	0.481242	0.030979	0.016529	0.216583	-0.09745	0.550797	-0.2573	0.220272	0.259702	0.999964	0.043974	0.929352

CNTNAP5	0.094114	-0.03675	0.141934	-0.28249	0.486207	0.788015	0.292259	0.033245	0.083947	-0.40089	0.14294	-0.43027	0.710439	0.002881	0.825546	0.00142
TAF8	0.120618	-0.00991	0.163311	0.127807	0.375884	0.942752	0.229116	0.347881	0.202518	0.109479	-0.05293	0.117706	0.911457	0.76555	0.364932	0.78203
COL9A1	0.088942	-0.23055	0.309493	-0.16795	0.518446	0.093495	0.021487	0.220325	0.410217	-0.27318	0.234683	-0.28464	0.997159	0.036393	0.93509	0.030556
TMEM18	0.069404	0.364541	-0.30024	0.166902	0.611264	0.006214	0.024561	0.218902	0.015269	0.620433	-0.36154	0.360467	0.540112	0.999998	0.00734	0.99307
C7orf13	-0.32074	0.209011	-0.11248	-0.05668	0.014994	0.122116	0.404843	0.675389	-0.41901	0.236319	-0.24457	0.144221	0.001876	0.94308	0.052707	0.830527
COL9A2	0.014536	-0.30366	0.264595	-0.09393	0.915322	0.024209	0.048762	0.491086	0.068092	-0.33555	0.19455	-0.28653	0.671637	0.012119	0.897151	0.028182
FBLN7	0.05104	-0.11067	0.202175	-0.03019	0.708718	0.421183	0.135098	0.825184	0.10327	-0.06708	0.149806	-0.0085	0.750184	0.330758	0.834123	0.477906
NEU4	-0.06879	-0.11034	0.109473	-0.15999	0.61113	0.418194	0.417578	0.234525	0.081639	-0.35717	0.075262	-0.32514	0.705183	0.007409	0.688416	0.013734
RBM45	0.094308	0.033681	-0.09472	0.095535	0.485308	0.805347	0.483377	0.479621	0.015569	0.157823	-0.05608	0.175554	0.540897	0.852573	0.357212	0.878392
C2orf73	-0.05748	-0.08096	0.043233	-0.23063	0.671064	0.553071	0.749482	0.084343	-0.23002	-0.24477	0.073366	-0.18744	0.06204	0.050554	0.684014	0.106132
BBS5	-0.10214	0.031733	-0.10146	-0.10117	0.449648	0.816407	0.452679	0.453958	-0.17464	-0.01422	0.013284	-0.0052	0.12286	0.462635	0.534508	0.486318
C2orf77	-0.05054	-0.1222	0.028582	-0.29981	0.708878	0.369604	0.832844	0.023466	-0.15068	-0.27806	0.138879	-0.19113	0.158769	0.030667	0.818544	0.101614
COL9A3	0.067875	-0.31757	0.221517	-0.16102	0.615897	0.017082	0.09772	0.231475	0.128662	-0.33335	0.154721	-0.29924	0.800194	0.012622	0.842024	0.022917
AADAC	-0.06986	0.303209	-0.26133	-0.16778	0.608934	0.024432	0.051717	0.216446	-0.31849	0.473832	-0.22828	0.346183	0.015495	0.99956	0.065743	0.990781
ADH6	-0.14032	-0.04136	-0.04972	-0.34647	0.297828	0.762139	0.713413	0.008286	-0.22518	-0.22237	0.069107	-0.21091	0.066215	0.06873	0.674034	0.079712
COL10A1	0.131356	-0.3292	0.188674	-0.11298	0.33007	0.013233	0.159855	0.402714	0.166416	-0.30088	0.404313	-0.17506	0.865497	0.021086	0.997062	0.122276
ACMSD	0.011984	-0.14763	0.269674	-0.2334	0.929499	0.277553	0.042495	0.080588	0.209079	-0.52138	0.225493	-0.52289	0.918414	0.000101	0.931802	9.64E-05
ICA1L	-0.09288	-0.02862	-0.04559	-0.23582	0.491949	0.834132	0.73629	0.077406	-0.1262	-0.24726	0.089332	-0.19549	0.201653	0.048795	0.720242	0.096457
FAM168B	0.193597	0.159203	-0.12232	0.284762	0.149039	0.2412	0.364718	0.031798	0.163823	0.498732	-0.00882	0.312941	0.858884	0.999756	0.477348	0.98183
OR9A4	0.178024	-0.21149	0.074706	-0.24116	0.189293	0.121135	0.584237	0.073375	0.232659	-0.36059	0.178968	-0.33933	0.940143	0.006913	0.880261	0.010527
COL11A1	0.287009	-0.20685	0.337446	-0.2068	0.031978	0.129704	0.01098	0.126206	0.362135	-0.38529	0.228867	-0.40686	0.992145	0.004901	0.93006	0.003065
CIB4	0.102368	-0.17832	0.218277	-0.20986	0.457058	0.197022	0.109382	0.124095	-0.02675	-0.39797	0.059399	-0.32778	0.429974	0.003081	0.65084	0.013082
REG3G	-0.05869	-0.14448	0.129278	-0.13702	0.664557	0.288054	0.337845	0.309468	-0.13682	-0.20659	0.049896	-0.13594	0.182277	0.084175	0.627598	0.18385
RFTN2	0.357109	-0.24602	0.114761	0.097091	0.006393	0.067594	0.395301	0.472461	0.301262	-0.12272	0.404984	0.136605	0.97784	0.210953	0.996804	0.81455
C2orf63	-0.0797	0.069557	-0.04497	-0.18281	0.555652	0.610475	0.739764	0.173476	-0.12687	-0.06949	0.010585	-0.07329	0.200408	0.323153	0.527508	0.314168
COL11A2	0.138938	-0.20405	0.319398	-0.10358	0.307147	0.135091	0.016419	0.447434	0.192115	-0.296	0.18105	-0.30573	0.894229	0.025537	0.877356	0.021784
PLEKHH2	0.214211	-0.06723	-0.00991	0.224888	0.109585	0.622478	0.941704	0.092594	0.34862	-0.00783	0.159603	0.084584	0.991212	0.479413	0.852509	0.711882
COL12A1	0.35258	-0.06325	0.252876	0.209406	0.007696	0.646389	0.060059	0.121396	0.408388	-0.14038	0.282481	-0.04545	0.997581	0.17605	0.969953	0.38212
AP1S3	-0.21564	0.392832	-0.44456	0.162889	0.107179	0.002746	0.000531	0.226032	-0.25687	0.64767	-0.20505	0.440012	0.042422	0.999999	0.088318	0.998893
C2orf76	-0.1168	-0.11503	-0.03635	-0.17669	0.386904	0.398539	0.78837	0.188571	-0.0107	-0.48128	0.241874	-0.206	0.471855	0.000355	0.945284	0.084805
SGPP2	-0.32023	0.288051	-0.27188	0.11864	0.016126	0.032957	0.042662	0.38382	-0.29439	0.528567	-0.25852	0.185281	0.023519	0.99992	0.043201	0.891168
ACVR1C	-0.00222	-0.17819	0.138925	-0.0489	0.986935	0.188881	0.302715	0.717939	0.169357	-0.4004	0.102717	-0.30934	0.866967	0.003211	0.746491	0.019331
OSR1	0.13341	-0.14997	0.137426	-0.01805	0.326976	0.269927	0.31249	0.894982	0.227941	-0.2455	0.20353	-0.16642	0.936191	0.050032	0.910037	0.134497
COL13A1	0.10062	-0.27507	0.226085	-0.04207	0.456436	0.040194	0.090825	0.756021	0.050769	-0.22255	0.230308	-0.11079	0.631215	0.068565	0.935998	0.231783
TTC32	-0.01423	0.20957	-0.00079	-0.10626	0.916304	0.121098	0.995365	0.431452	0.082625	0.245507	0.06431	-0.01791	0.707434	0.94997	0.662647	0.452984
UBR3	0.199613	0.10923	-0.09295	0.154227	0.13657	0.422918	0.491636	0.252018	0.200716	0.245736	-0.02079	0.159479	0.909473	0.950133	0.446093	0.855124
KCTD18	-0.196	0.065071	-0.31462	-0.08261	0.143958	0.633741	0.017144	0.541277	-0.35056	0.321657	-0.13358	0.300404	0.008458	0.985365	0.190849	0.978745
ALS2CR12	-0.05826	-0.20302	0.093603	-0.23342	0.666848	0.133437	0.488592	0.080553	-0.0883	-0.39057	0.138598	-0.28613	0.27977	0.003642	0.818055	0.026942
ZNF513	-0.0583	-0.1362	0.103529	-0.06176	0.666647	0.316862	0.443456	0.648094	0.094593	-0.25048	0.039065	-0.25886	0.734116	0.046578	0.600552	0.041183
SPATA3	0.024711	-0.1603	0.240466	-0.146	0.855222	0.237921	0.071578	0.278518	0.090854	-0.45017	0.206301	-0.32553	0.725909	0.000847	0.913029	0.013635
LYPD6	-0.01328	0.001044	0.011226	-0.36797	0.921916	0.99391	0.933947	0.004861	0.027776	-0.10895	0.206799	-0.15788	0.572693	0.23553	0.913558	0.147346
LYPD6B	-0.26254	0.374101	-0.19326	-0.09305	0.048497	0.004507	0.149753	0.49119	-0.38142	0.255335	-0.08553	0.305299	0.004866	0.954756	0.290463	0.979293
GALM	-0.05278	-0.15881	-0.18337	0.005882	0.696611	0.242372	0.172148	0.96536	-0.12654	-0.1252	-0.07196	0.044271	0.203754	0.206251	0.321251	0.61362
COL15A1	0.319918	-0.10127	0.214027	0.472916	0.015269	0.457686	0.109897	0.000203	0.053183	0.176608	0.150721	0.433325	0.637216	0.879823	0.838492	0.998686
TMEM198	-0.01877	-0.23761	0.23027	-0.09758	0.889805	0.077845	0.084848	0.47022	0.238464	-0.39613	0.098515	-0.24744	0.94475	0.003213	0.740157	0.048666
ZFAND2B	-0.03465	0.090922	0.111439	0.102382	0.798034	0.505132	0.409213	0.448547	-0.05104	0.02475	-0.06621	-0.13398	0.368119	0.564847	0.332834	0.187343
RPLP1P5	0.174889	0.24981	0.132449	-0.07144	0.193195	0.063339	0.326026	0.59746	0.20138	0.203294	-0.12886	-0.00303	0.910207	0.912301	0.199435	0.492017
COL16A1	0.157607	-0.28419	0.209705	-0.06961	0.241647	0.033779	0.117437	0.606878	0.243986	-0.35591	0.189628	-0.20452	0.948877	0.007601	0.893915	0.086378
TMEM178	0.004746	-0.27294	0.138268	-0.22391	0.972308	0.041825	0.309507	0.097128	-0.1678	-0.44373	0.06087	-0.26831	0.132494	0.001005	0.654392	0.035703
CPO	0.219966	-0.42419	0.319205	-0.33276	0.103319	0.001249	0.016488	0.012217	-0.00179	-0.37205	0.207504	-0.20536	0.495291	0.005448	0.914305	0.085483

MDH1B	-0.09487	-0.12601	0.041131	-0.18771	0.48268	0.354739	0.761296	0.162029	-0.11785	-0.32187	0.096333	-0.24724	0.217678	0.014577	0.73549	0.048805
RPL23AP37	-0.01785	0.029123	0.093454	-0.09822	0.895146	0.831277	0.489284	0.467303	0.284655	-0.09544	0.085942	-0.1448	0.972405	0.264036	0.712715	0.16849
COL17A1	0.027647	0.209328	-0.24933	0.034239	0.83824	0.12154	0.061431	0.800385	0.083912	0.674508	-0.21301	0.409075	0.71036	1	0.080031	0.99762
C2orf50	-0.18086	-0.18303	0.053389	-0.41562	0.178199	0.176939	0.693262	0.001304	-0.31585	-0.39117	0.00713	-0.37377	0.016246	0.003593	0.518537	0.005253
PQLC3	0.106567	-0.10452	0.031028	0.364466	0.430117	0.443327	0.818773	0.005315	0.022351	0.065359	-0.05902	0.30715	0.558608	0.666964	0.350072	0.981069
TMEM182	-0.08371	0.245997	-0.10759	-0.07816	0.535851	0.067617	0.425678	0.563342	-0.22474	0.242476	-0.03077	0.043055	0.066597	0.947772	0.420475	0.611837
AHSA2	-0.04919	0.029805	0.010639	-0.12552	0.716336	0.827386	0.937395	0.352188	0.079992	0.002958	-0.01129	-0.14038	0.701406	0.507782	0.470655	0.176059
FBXO36	-0.10442	-0.06642	-0.04172	-0.24069	0.439536	0.626701	0.757962	0.071311	-0.21597	-0.20833	0.073103	-0.14449	0.074715	0.082356	0.683401	0.169025
MTERFD2	0.019915	0.357397	-0.16191	0.185484	0.883102	0.006848	0.228867	0.167166	0.290507	0.212246	-0.06322	-0.00868	0.974918	0.921626	0.339966	0.477174
CCDC148	-0.11614	-0.12115	-0.01988	-0.27381	0.389603	0.37376	0.883305	0.039304	-0.21575	-0.35358	0.075229	-0.24114	0.074931	0.007964	0.688339	0.053218
C2orf65	-0.16975	-0.29834	0.075867	-0.25127	0.206825	0.025525	0.574862	0.059373	-0.35875	-0.44415	0.17068	-0.30261	0.007177	0.000994	0.868854	0.020472
ADH7	-0.03203	0.481464	-0.31969	-0.14155	0.813054	0.000172	0.015347	0.293582	-0.09684	0.483129	-0.11886	0.361434	0.263429	0.999613	0.221105	0.992645
COL19A1	0.3146	-0.37141	0.224932	-0.20631	0.017153	0.004828	0.092528	0.123627	0.275748	-0.5752	0.273861	-0.43579	0.968194	1.45E-05	0.965651	0.001234
CPNE4	-0.05352	0.003429	0.026382	-0.28296	0.695217	0.980177	0.846955	0.034588	0.003452	-0.23912	0.035159	-0.22829	0.509081	0.054749	0.590676	0.063513
LOC131055	0.052255	0.024943	0.133549	-0.14484	0.699468	0.85521	0.321989	0.282376	0.092094	-0.33136	0.13749	-0.16787	0.728645	0.01224	0.816111	0.132386
CCDC58	-0.07623	0.263086	-0.23879	-0.20401	0.57303	0.050111	0.073637	0.127956	-0.32317	0.342415	-0.29705	0.325173	0.014238	0.99008	0.023765	0.986275
KCNH8	0.127801	-0.24986	0.186064	0.006629	0.34344	0.063284	0.165818	0.960968	0.085218	-0.36426	0.120282	-0.27487	0.713316	0.00641	0.784369	0.032246
COMP	0.032789	0.022402	-0.12596	0.163752	0.808681	0.869825	0.350509	0.22355	0.514689	-0.0941	0.086428	-0.14075	0.999851	0.269338	0.711524	0.178217
DNAJC19	-0.00252	0.157287	-0.10813	0.086234	0.985133	0.246983	0.423363	0.523592	0.281366	-0.06151	-0.02068	0.193578	0.970905	0.342334	0.446376	0.901303
OTOL1	0.031785	-0.25272	0.18013	-0.07475	0.814429	0.060221	0.179979	0.580503	0.122615	-0.3038	0.18222	-0.18391	0.791546	0.020059	0.884547	0.110571
FAM3D	-0.12095	0.156774	-0.10454	0.161804	0.37455	0.253019	0.44323	0.233501	-0.15766	0.469348	-0.22013	0.140973	0.147685	0.9995	0.073107	0.824974
COMT	0.171079	0.051323	0.046194	0.046187	0.207424	0.709803	0.735313	0.735353	-0.23315	0.562668	-0.26895	0.311763	0.059454	0.999977	0.037009	0.982535
ZPLD1	0.001518	0.012649	0.15612	-0.22895	0.991141	0.926974	0.250553	0.089647	0.000985	-0.43058	0.169562	-0.26142	0.502592	0.001409	0.86726	0.039641
LYZL4	-0.00229	0.009113	0.228434	-0.22122	0.986494	0.946852	0.087431	0.098185	0.073354	-0.30459	0.191785	-0.23352	0.685975	0.019786	0.896541	0.059155
KBTBD5	0.033846	-0.10649	0.21897	-0.22851	0.802633	0.434713	0.101737	0.087323	0.010061	-0.26516	0.0478	-0.28374	0.526455	0.03746	0.622407	0.028007
COPA	0.110966	0.135398	-0.14382	0.112998	0.411214	0.319753	0.285828	0.402649	0.001163	0.304843	-0.0889	0.232284	0.503061	0.980299	0.280713	0.939837
TRIM71	0.017171	-0.0149	0.237642	-0.13224	0.899119	0.913211	0.075075	0.326808	0.083362	-0.31785	0.051644	-0.29638	0.709111	0.015675	0.631909	0.022751
FAM131A	-0.06947	-0.24291	-0.03602	-0.29905	0.607591	0.071248	0.790259	0.023836	-0.09701	-0.36659	-0.00586	-0.43265	0.260646	0.006109	0.484768	0.001337
CD200R1	-0.16854	0.029216	-0.33424	-0.16931	0.21011	0.830746	0.01105	0.208003	-0.29221	0.206512	0.118366	0.042577	0.024387	0.915741	0.780656	0.610625
CHCHD4	0.023413	0.008445	0.231864	-0.23623	0.86275	0.950741	0.082655	0.076874	0.269827	-0.14578	0.088995	-0.20754	0.965122	0.166855	0.719499	0.083177
COPB1	0.018377	0.222565	-0.25028	0.180614	0.892074	0.099207	0.060421	0.178792	0.005409	0.352602	-0.0211	0.318839	0.514229	0.991878	0.445282	0.984601
ZDHC19	-0.00738	-0.04924	0.281364	-0.18815	0.956529	0.718541	0.033987	0.161043	0.149261	-0.40178	0.17159	-0.41891	0.838922	0.002822	0.870141	0.001881
CRYBG3	0.047364	0.338596	-0.15993	0.248478	0.72644	0.010693	0.234703	0.062356	0.117888	0.51602	-0.03241	0.42233	0.782387	0.999879	0.416305	0.99827
DCBLD2	0.01169	-0.01357	-0.09031	-0.1434	0.931221	0.920927	0.504089	0.287248	0.069382	-0.08852	0.077662	-0.012	0.676586	0.279281	0.693951	0.468462
LRRC15	0.200142	-0.13162	0.236693	-0.21055	0.135512	0.333573	0.07628	0.115932	0.024548	-0.31285	0.199106	-0.14736	0.564321	0.017134	0.90511	0.16422
FAM43A	0.197987	-0.03283	0.215611	0.275936	0.139861	0.810162	0.10723	0.037742	0.193316	-0.06278	0.139497	0.015886	0.900994	0.339255	0.81962	0.541726
KLF6	0.024923	-0.13654	-0.14543	0.133334	0.853997	0.315647	0.280427	0.322775	0.15155	0.134611	0.058842	0.050804	0.842648	0.813782	0.649491	0.631301
GPR175	-0.01501	-0.06786	0.13164	0.108069	0.911742	0.619247	0.329016	0.42361	-0.15985	0.136143	-0.23471	0.054583	0.144306	0.816516	0.060341	0.640681
TMEM42	-0.07614	-0.27017	0.046242	-0.16278	0.576999	0.046058	0.735049	0.230644	-0.15799	-0.21746	0.012887	-0.11578	0.147168	0.073284	0.533479	0.221778
UROC1	-0.02165	-0.10294	0.250755	-0.26663	0.873021	0.45025	0.059918	0.044975	0.056778	-0.29472	0.268705	-0.2888	0.646093	0.023388	0.962852	0.025796
LOC131691	0.067832	0.086361	-0.01866	-0.17134	0.616121	0.526816	0.890446	0.202524	-0.25144	0.24917	-0.1351	0.08768	0.045933	0.95253	0.18812	0.718849
SLC31A1	-0.05274	0.283821	-0.10871	0.016943	0.696818	0.034021	0.420839	0.900451	-0.15844	0.372221	-0.16944	0.212881	0.146474	0.994572	0.132907	0.92226
SLC31A2	0.077856	-0.35526	0.118656	0.113181	0.564851	0.007213	0.379347	0.40188	0.108316	-0.33879	0.085902	-0.2759	0.763168	0.010637	0.712625	0.031728
C3orf44	-0.1457	-0.18702	0.171633	-0.40302	0.279496	0.167541	0.201746	0.001882	-0.22053	-0.45413	0.157279	-0.28004	0.07041	0.000762	0.848919	0.029716
NUDT16	-0.04488	-0.09158	0.17343	-0.01563	0.740282	0.50203	0.196994	0.908133	0.086844	-0.31968	0.054331	-0.41715	0.716975	0.015167	0.638507	0.001963
COL6A6	0.308404	0.066264	0.108322	0.33059	0.020749	0.630753	0.426807	0.012828	-0.18518	0.091022	0.042209	0.244787	0.108962	0.726281	0.608457	0.949455
GRK7	-0.16933	-0.12979	0.079608	-0.35032	0.21219	0.344951	0.559742	0.008123	0.019701	-0.35024	-0.1041	-0.34649	0.551699	0.008511	0.248092	0.009164
FAM172B	-0.12306	0.152966	-0.2177	-0.29561	0.36621	0.264873	0.10702	0.026972	-0.02494	0.088983	-0.03763	0.02689	0.434673	0.721758	0.403062	0.5704
TMEM207	0.128562	-0.17392	0.203589	-0.4486	0.345018	0.204121	0.132332	0.000525	0.100103	-0.31224	0.243266	-0.37619	0.745986	0.017318	0.946328	0.004989
METTL6	-0.04625	0.282999	-0.17697	0.156133	0.732618	0.034565	0.187877	0.246135	-0.01606	0.371895	-0.08259	0.326872	0.457815	0.994535	0.294817	0.986697

ADK	0.033355	0.319198	-0.33462	0.069423	0.80544	0.01649	0.010953	0.607855	-0.02568	0.52995	-0.25722	0.350172	0.432745	0.999924	0.044025	0.991477
C3orf31	-0.03105	0.174416	-0.02485	0.076257	0.818633	0.198563	0.854435	0.572893	0.034441	0.344944	-0.26378	0.185371	0.589878	0.990555	0.039987	0.891281
IL17RE	0.113535	0.120223	0.157573	-0.17805	0.400403	0.377462	0.241751	0.185134	-0.20348	0.165416	-0.04145	0.018147	0.087495	0.864033	0.393443	0.547641
RTP1	-0.04639	-0.18011	0.254056	-0.22415	0.731826	0.184078	0.05652	0.093701	0.036988	-0.34357	0.130245	-0.21871	0.596402	0.009701	0.803105	0.072103
IQCF1	-0.0954	-0.2229	0.137439	-0.05556	0.480258	0.098687	0.307964	0.681435	0.024304	-0.31467	0.253613	-0.19267	0.563687	0.016591	0.953621	0.099777
GLYCTK	0.002316	-0.16686	0.149733	-0.14604	0.986357	0.219018	0.266271	0.278384	0.144338	-0.25471	0.079214	-0.19972	0.830725	0.043792	0.697507	0.091637
PPM1M	0.073647	-0.09265	0.226481	0.244401	0.586135	0.497057	0.090246	0.066922	0.106467	-0.03495	0.047576	-0.01757	0.759355	0.408816	0.621851	0.453868
C3orf49	0.145876	-0.07892	0.12913	-0.21172	0.27892	0.563155	0.338403	0.113879	0.035429	-0.3059	-0.02429	-0.43381	0.592412	0.019346	0.437075	0.001298
S100A1L	-0.11384	-0.09838	-0.00724	-0.1285	0.40347	0.47485	0.957767	0.345237	-0.13565	-0.23169	0.119024	-0.16874	0.184366	0.060657	0.781934	0.131137
SYNPR	-0.10472	0.028434	0.073601	-0.34323	0.438219	0.835213	0.586368	0.008953	0.053971	-0.35714	0.075128	-0.35368	0.639167	0.007415	0.688106	0.007948
C3orf45	-0.01865	0.053505	0.297136	-0.33066	0.890469	0.695323	0.024795	0.011998	0.081008	-0.45469	0.082609	-0.38465	0.699422	0.000965	0.70078	0.004967
RPL32P3	-0.29907	-0.08372	-0.05262	-0.17856	0.023825	0.539597	0.69745	0.18386	-0.1907	-0.13979	-0.10137	0.033281	0.102139	0.177068	0.253802	0.586898
H1FOO	0.036737	-0.15135	0.21988	-0.20349	0.786155	0.265496	0.100287	0.128961	0.05482	-0.15909	0.133032	-0.23272	0.641266	0.14547	0.80817	0.059803
OCIAD2	-0.17128	0.380501	-0.16914	0.02109	0.206895	0.004161	0.212703	0.877387	-0.35024	0.638533	-0.40306	0.418184	0.008512	0.999999	0.003023	0.998086
SCLT1	-0.11766	0.073472	-0.12985	0.083013	0.383409	0.590479	0.335681	0.539273	0.009039	0.005151	0.011415	0.002018	0.52377	0.51355	0.529661	0.50531
C4orf33	-0.06478	0.025758	-0.25055	-0.09063	0.632137	0.850534	0.060133	0.502573	-0.21874	0.467679	-0.1661	0.243763	0.072077	0.999476	0.137746	0.948714
TMEM155	-0.05157	-0.12089	0.071826	-0.23609	0.703221	0.374802	0.595457	0.077053	0.025915	-0.34967	0.034559	-0.25683	0.56787	0.008608	0.589156	0.042446
CORT	0.13297	-0.18519	0.376688	-0.01887	0.324111	0.171812	0.003875	0.889182	0.055285	-0.23067	0.123103	-0.1931	0.642414	0.0615	0.789773	0.099264
MAP3K8	-0.15408	-0.027	-0.03928	-0.21787	0.256873	0.844861	0.77378	0.106728	0.205911	-0.096	0.080824	-0.33881	0.915106	0.262826	0.701179	0.010631
ADAD1	0.026506	-0.1389	0.072668	-0.21411	0.844833	0.307292	0.591138	0.109756	0.046189	-0.30886	0.165514	-0.24774	0.619744	0.018375	0.861387	0.048454
ZFP42	-0.09591	0.071339	0.058694	-0.2686	0.481978	0.604755	0.667423	0.045325	-0.12034	-0.20889	0.030865	-0.13256	0.212838	0.081783	0.579756	0.18991
LIN54	0.006039	0.242224	-0.17169	0.130909	0.96444	0.072074	0.201597	0.331732	-0.05585	0.35932	-0.06686	0.184229	0.35619	0.992906	0.331288	0.889832
SPATA18	-0.1281	-0.15435	0.016085	-0.2176	0.342315	0.256032	0.905471	0.103946	-0.21493	-0.25038	0.050671	-0.19566	0.075726	0.046646	0.629511	0.096266
COX4I1	0.049847	0.249937	-0.11382	0.001215	0.712701	0.0632	0.399193	0.99284	-0.2224	0.519104	-0.44941	0.306742	0.068696	0.999891	0.000978	0.980935
C4orf32	0.075749	-0.12261	0.152439	0.1694	0.57546	0.368005	0.257626	0.207765	0.17785	-0.18549	0.011513	-0.00721	0.878763	0.111248	0.529562	0.481264
TMPRSS11I	-0.06978	0.172739	-0.26007	-0.2568	0.612686	0.211635	0.055164	0.058408	-0.04215	0.247352	-0.33285	-0.03793	0.39294	0.947252	0.013633	0.40345
GNPDA2	0.004915	0.09877	-0.20932	0.219207	0.971056	0.468926	0.118121	0.101358	-0.04211	0.340605	-0.17342	0.276704	0.390568	0.989728	0.127298	0.968669
SPATA4	-0.11499	-0.11657	0.054652	-0.25097	0.39434	0.392212	0.686381	0.059688	-0.3594	-0.3016	-0.00793	-0.12742	0.007082	0.020827	0.479396	0.199371
CPEB2	0.143723	0.106247	-0.11156	0.060583	0.286155	0.435768	0.408685	0.654392	0.288859	-0.05606	-0.08464	-0.22615	0.972851	0.357278	0.292436	0.067616
EVC2	0.058988	-0.07256	0.073715	0.178361	0.662935	0.595088	0.585788	0.184364	0.123077	0.088683	0.000294	-0.03299	0.79243	0.721088	0.500764	0.41385
COX5B	-0.15769	0.052859	-0.20653	0.015522	0.241384	0.698823	0.123227	0.908761	-0.23166	0.406513	-0.3707	0.26477	0.060681	0.997472	0.006092	0.962316
ARL9	-0.01963	-0.12126	-0.03386	-0.12693	0.884747	0.373318	0.802572	0.346762	0.350075	-0.32487	0.01774	-0.30814	0.99146	0.013802	0.54604	0.018609
AASDH	0.064763	0.217763	-0.23711	0.062037	0.632211	0.106907	0.075743	0.646641	0.041283	0.378436	-0.07193	0.224238	0.607345	0.995247	0.319347	0.932953
PDCL2	0.044295	-0.06698	-0.09824	-0.27498	0.748126	0.627042	0.475493	0.042175	0.126435	-0.30076	-0.08141	-0.39291	0.798785	0.021126	0.297501	0.003455
C4orf36	-0.09482	0.318993	-0.01672	-0.24497	0.48294	0.016563	0.901729	0.066272	0.00098	-0.01337	-0.03938	-0.10428	0.502579	0.464874	0.39866	0.245191
ADM	-0.04922	0.001742	0.117173	0.27831	0.71618	0.989833	0.385375	0.03606	0.270846	0.06731	0.19266	0.066729	0.965667	0.671646	0.897592	0.670253
PACRGL	-0.0878	0.162684	-0.12573	-0.08582	0.516044	0.230934	0.35137	0.525573	-0.22224	0.192116	-0.00998	0.130418	0.06884	0.899567	0.47405	0.806176
TRAM1L1	0.141436	-0.19354	0.221614	-0.29466	0.298445	0.156832	0.100697	0.027488	-0.02537	-0.47139	0.201111	-0.23865	0.43355	0.000472	0.907367	0.05511
OTOP1	0.06297	-0.05277	0.05199	-0.15699	0.644757	0.702	0.703542	0.247885	0.072894	-0.05807	0.092986	-0.11551	0.682912	0.352382	0.725863	0.224942
ENPP6	-0.04241	0.021733	0.13615	-0.28871	0.756296	0.874858	0.317047	0.030929	-0.06347	-0.27687	0.140416	-0.22796	0.337585	0.031247	0.821214	0.06379
NHEDC2	0.213376	-0.10951	0.084006	0.179723	0.111009	0.42171	0.534416	0.180981	0.25919	-0.13462	0.163214	0.096439	0.959017	0.18621	0.857975	0.738124
C5orf35	0.084526	0.199947	-0.33047	0.065498	0.531881	0.139546	0.01205	0.628339	-0.12163	0.229241	-0.21486	-0.07563	0.210345	0.937299	0.078185	0.308688
IL31RA	0.260427	-0.03293	0.018517	-0.09055	0.054821	0.813157	0.893256	0.510887	0.28398	-0.27092	0.258471	-0.34357	0.972102	0.034293	0.956768	0.009701
EMB	-0.07002	-0.15032	-0.15893	0.226077	0.604782	0.268796	0.237668	0.090837	-0.27773	-0.0389	0.036788	0.155998	0.030826	0.398724	0.594804	0.849729
SLCO6A1	-0.01137	0.045567	0.031145	-0.22939	0.933118	0.738774	0.818103	0.086076	0.094313	-0.13508	0.096445	-0.24827	0.731133	0.188161	0.733287	0.050041
C5orf47	0.059368	-0.25643	0.165973	-0.2157	0.660898	0.056435	0.217245	0.107077	0.159062	-0.53147	0.252599	-0.43317	0.854485	7.22E-05	0.952942	0.001319
PPARGC1B	-0.07614	0.123111	-0.01905	0.023659	0.573477	0.366026	0.888168	0.861324	-0.19276	0.401401	-0.15354	0.235199	0.09967	0.997153	0.156979	0.942194
HEATR7B2	0.199125	-0.10611	0.150143	-0.19043	0.141214	0.440693	0.269376	0.159785	0.164669	-0.27948	0.130247	-0.3478	0.86014	0.031493	0.800299	0.009614
EGFLAM	0.141778	-0.25958	0.125404	0.186518	0.292795	0.053365	0.352641	0.164769	0.146446	-0.16738	0.104441	0.127005	0.834266	0.133095	0.752623	0.799854
PRRC1	0.072052	0.235434	-0.16537	0.118403	0.594297	0.080683	0.218938	0.380373	-0.01678	0.360339	-0.10376	0.302375	0.455922	0.993052	0.248794	0.979447

C5orf33	0.160605	0.128554	-0.15123	0.058243	0.232695	0.345048	0.261465	0.666943	0.349533	0.000367	0.037345	0.05151	0.991368	0.500965	0.596211	0.633061
UGT3A1	0.061452	-0.12535	0.11685	-0.30185	0.652769	0.361823	0.391089	0.023765	0.050728	-0.38767	0.098313	-0.36078	0.631114	0.003884	0.739726	0.006886
CAPSL	-0.0687	-0.15748	0.058257	-0.19566	0.611603	0.246409	0.666868	0.144664	-0.2129	-0.25861	0.113425	-0.13379	0.077718	0.041337	0.770915	0.187695
COX6A1	-0.10436	0.108155	-0.25774	0.120308	0.439769	0.427524	0.052918	0.372699	-0.37697	0.493848	-0.53233	0.379336	0.004905	0.999757	8.36E-05	0.995338
JMY	0.079463	0.098403	-0.02479	-0.10119	0.556819	0.470586	0.854767	0.45388	0.141753	-0.02914	0.13135	-0.17346	0.826318	0.423777	0.805122	0.124484
COX6A2	0.082195	-0.14934	0.278623	-0.19567	0.543291	0.271983	0.035842	0.144647	0.174579	-0.37281	0.279997	-0.33958	0.877058	0.00536	0.96876	0.010476
ZNF474	-0.13072	-0.09144	0.030186	-0.21815	0.332423	0.50268	0.823614	0.103054	-0.15646	-0.2686	0.109428	-0.16968	0.14955	0.035541	0.76287	0.129803
CCDC127	0.126844	0.208809	0.030618	-0.29022	0.347095	0.122487	0.821129	0.028529	-0.04059	-0.01833	-0.05499	0.1184	0.394404	0.451869	0.359878	0.783388
ADORA1	-0.09994	-0.18032	0.23921	-0.09903	0.459491	0.183555	0.073117	0.463632	0.094897	-0.25285	0.204915	-0.23699	0.734779	0.045003	0.911541	0.056391
COX6B1	-0.10545	0.154807	-0.19295	-0.06842	0.435008	0.254609	0.150438	0.613043	-0.28894	0.421585	-0.37318	0.231378	0.025738	0.998239	0.005787	0.939089
OR2Y1	-0.1033	-0.22445	0.140004	-0.06677	0.444448	0.09631	0.298935	0.621653	0.099226	-0.45059	0.214912	-0.25959	0.744116	0.000838	0.921865	0.040737
FAM173B	-0.01057	0.180778	-0.109	-0.09799	0.937803	0.182425	0.419589	0.468352	-0.05697	0.256913	-0.08076	0.102007	0.353433	0.957608	0.298977	0.750026
CMBL	0.078012	-0.09477	0.078388	-0.2123	0.564066	0.487222	0.562184	0.112868	-0.10739	-0.09958	-0.00301	-0.21422	0.238735	0.255123	0.492165	0.07642
POU5F2	-0.02475	-0.1965	0.252253	-0.18013	0.85501	0.146647	0.058356	0.179972	0.088993	-0.42171	0.178041	-0.32817	0.72178	0.001756	0.87902	0.012988
DNAJC21	0.051655	0.307169	-0.17393	0.172806	0.702757	0.021291	0.195686	0.198635	0.146525	0.347836	-0.08452	0.244772	0.834398	0.991075	0.290475	0.949444
AFAP1L1	0.113	-0.30744	0.101561	0.010191	0.402638	0.021169	0.452214	0.940027	0.021177	-0.30883	0.155165	-0.20231	0.555549	0.018386	0.845606	0.088771
GRPEL2	-0.12092	0.145245	-0.14229	0.242759	0.370265	0.285487	0.291024	0.068834	-0.05789	0.361938	-0.15294	0.174313	0.351176	0.993276	0.157927	0.876692
TMEM171	-0.07266	0.075746	-0.12906	-0.02798	0.591194	0.579	0.338682	0.836301	-0.17666	0.326917	-0.09736	0.33279	0.120108	0.986708	0.262313	0.988084
TMEM174	-0.0074	-0.17762	0.106157	-0.05925	0.956446	0.190323	0.431905	0.661505	-0.10465	-0.30561	-0.05921	-0.25912	0.244415	0.019441	0.349628	0.041023
LSM11	0.094645	-0.11571	0.153639	-0.13536	0.483743	0.395746	0.253853	0.315392	0.181057	-0.25464	0.116241	-0.29301	0.885739	0.043839	0.776496	0.024064
C5orf37	-0.14972	0.133411	-0.2018	0.077497	0.266308	0.326974	0.132232	0.566654	-0.07256	0.244988	0.010224	0.134938	0.315894	0.949599	0.526572	0.814367
GPR151	0.004025	-0.19481	0.227035	-0.21446	0.97651	0.154082	0.092432	0.112464	0.164024	-0.34293	0.085075	-0.38071	0.861978	0.009822	0.710775	0.004526
STARD4	0.073558	-0.08162	0.232544	0.409867	0.586591	0.549849	0.081733	0.001544	-0.01621	-0.12878	0.115968	0.152797	0.45743	0.196837	0.775957	0.844653
WDR36	0.054674	0.287272	-0.27763	0.295638	0.686258	0.031814	0.036532	0.025566	0.035324	0.565731	-0.18469	0.467708	0.592141	0.999979	0.11227	0.999476
LOC134466	0.042172	0.090162	-0.04459	-0.0098	0.755438	0.508717	0.741872	0.942296	-0.09991	-0.15115	-0.06621	-0.16162	0.254419	0.158007	0.332817	0.141615
NUDCD2	-0.12081	0.341389	-0.31197	0.010192	0.370678	0.010025	0.018155	0.940022	-0.14268	0.374727	-0.2988	0.28707	0.172099	0.994853	0.023086	0.973465
COX6C	0.071348	0.086344	-0.26839	-0.04399	0.597911	0.526899	0.043531	0.745255	-0.3901	0.387009	-0.35446	0.319875	0.00368	0.996058	0.008446	0.984886
LOC134505	0.003189	0.033192	0.129053	-0.08105	0.981215	0.808123	0.338693	0.548924	0.282124	0.029265	0.205887	0.001349	0.971256	0.576545	0.912586	0.503551
UBLCP1	-0.07396	0.21778	-0.22273	0.115188	0.584522	0.10688	0.095854	0.393533	-0.14255	0.365137	-0.11459	0.236472	0.172312	0.993705	0.226765	0.943201
ACOT12	0.091037	-0.22273	0.176837	-0.10192	0.500636	0.098958	0.188204	0.4506	0.121122	-0.44716	0.102448	-0.29976	0.788678	0.000918	0.748465	0.02149
ANKRD43	-0.04526	-0.20702	0.224519	-0.2663	0.738144	0.125804	0.093145	0.045251	0.017461	-0.40564	0.244958	-0.34903	0.545847	0.00258	0.947577	0.008718
SHROOM1	-0.00914	0.004859	0.229172	-0.23335	0.946205	0.971648	0.086385	0.080646	0.216255	-0.28393	0.20158	-0.37668	0.925559	0.027921	0.907889	0.004936
C5orf24	0.055832	0.242572	-0.20107	0.182518	0.679969	0.071654	0.133672	0.174178	0.031966	0.450861	-0.27095	0.404461	0.582564	0.999059	0.03762	0.997072
COX7A1	0.295167	-0.30251	0.327094	0.022046	0.025813	0.023447	0.013009	0.870693	0.2503	-0.48435	0.326439	-0.3239	0.953299	0.000324	0.985685	0.014048
ADAT2	0.195893	0.124522	0.064166	0.245615	0.144184	0.360513	0.635357	0.065535	0.164695	0.313796	-0.16961	0.283348	0.86297	0.983151	0.132668	0.971816
COX7A2	-0.10158	0.153681	-0.27222	0.048079	0.452116	0.258125	0.040506	0.722478	-0.38037	0.465658	-0.34934	0.343159	0.004559	0.999445	0.009332	0.990222
RIPPLY2	-0.00787	-0.0902	0.169957	-0.27616	0.953644	0.508556	0.206251	0.037582	0.144986	-0.37547	0.233633	-0.30291	0.831818	0.005066	0.938781	0.020367
IRAK1BP1	-0.14259	-0.11504	-0.12242	-0.12264	0.290012	0.398513	0.364324	0.36343	-0.33767	-0.15127	-0.04685	-0.11847	0.010867	0.157811	0.379958	0.216476
RLBP1L2	0.146412	-0.13827	0.176243	-0.36789	0.27714	0.309506	0.189716	0.004871	0.147925	-0.28903	0.086382	-0.30539	0.836723	0.025697	0.713697	0.019518
TAAR9	0.067356	-0.04522	0.18928	-0.36372	0.618604	0.74067	0.158493	0.005417	-0.02665	-0.36787	0.137921	-0.34686	0.430216	0.005948	0.816868	0.009097
TAAR1	0.101046	-0.07351	0.155171	-0.26155	0.454524	0.590268	0.249091	0.049384	0.239129	-0.33829	0.248172	-0.3767	0.94526	0.010738	0.949888	0.004934
COX7B	-0.05509	0.186044	-0.20043	0.043465	0.683982	0.169801	0.134948	0.748183	-0.14993	0.19541	-0.25861	0.201594	0.159976	0.903448	0.043143	0.910443
STXBPS	0.10415	0.199722	-0.16646	0.055854	0.440711	0.140001	0.215888	0.679848	0.188266	0.293989	-0.18439	0.185264	0.892234	0.975014	0.115424	0.888463
ADORA2A	0.085257	-0.16602	0.221324	0.310625	0.528323	0.221371	0.09802	0.018687	-0.01463	-0.18824	0.060825	-0.03913	0.461557	0.105136	0.654283	0.398135
COX7C	0.138899	0.278693	-0.19727	-0.00924	0.307282	0.039362	0.145029	0.946101	-0.06057	0.407898	-0.29205	0.268163	0.344624	0.997553	0.025786	0.964218
COX8A	-0.01005	0.003996	-0.06841	0.121502	0.940875	0.976685	0.613102	0.367941	-0.28066	0.495335	-0.38273	0.305151	0.029423	0.999767	0.004732	0.980403
NCOA7	0.175163	-0.08783	0.129506	0.467133	0.192488	0.519793	0.336987	0.000249	0.202431	0.25576	-0.00683	0.256708	0.911362	0.95688	0.482248	0.957479
HINT3	-0.01714	0.192598	-0.13008	0.156252	0.900202	0.158904	0.339297	0.250148	-0.27274	0.219925	-0.26743	0.217033	0.034944	0.926698	0.039631	0.923938
PACRG	-0.08875	-0.13712	0.030941	-0.2303	0.511516	0.313563	0.819277	0.084809	-0.17183	-0.26269	0.083733	-0.18268	0.126752	0.038887	0.70776	0.112149
B3GAT2	0.107262	-0.08167	0.274917	-0.14471	0.427099	0.549563	0.038484	0.282837	0.175752	-0.385	0.143657	-0.39607	0.875918	0.004508	0.823897	0.003537

C6orf57	-0.24182	-0.00975	-0.2543	-0.25428	0.069945	0.94314	0.056278	0.0563	-0.56274	0.177647	-0.24751	0.043869	2.34E-05	0.881223	0.050582	0.613894
COX10	-0.06404	0.222901	-0.23004	0.076234	0.636036	0.098684	0.085167	0.573012	-0.12384	0.510302	-0.11607	0.416845	0.20612	0.999854	0.223836	0.998023
CD109	0.059877	0.395793	-0.26289	-0.0835	0.661122	0.00278	0.050286	0.540666	0.037146	0.668831	-0.18216	0.469872	0.596805	1	0.115536	0.999507
RAET1E	-0.21243	0.177316	-0.24118	-0.25148	0.115999	0.195286	0.073346	0.061532	-0.41528	0.363397	-0.26313	0.199564	0.002053	0.993474	0.040375	0.908188
PM20D2	0.069233	0.316374	-0.19315	0.1959	0.608841	0.017525	0.149997	0.144169	0.118017	0.464985	-0.0971	0.376082	0.782639	0.999435	0.262859	0.995
SRrp35	-0.00175	-0.13364	0.211098	-0.27145	0.98976	0.330701	0.11835	0.042997	0.074962	-0.34452	-0.04951	-0.30497	0.689743	0.009522	0.373358	0.019657
COX11	0.06756	0.154047	-0.14275	0.169053	0.61754	0.256977	0.289475	0.208711	0.401146	-0.02072	0.112367	-0.05393	0.997136	0.44565	0.768801	0.360932
C6orf141	-0.06173	-0.16752	0.104162	-0.14979	0.648288	0.217178	0.440657	0.266096	0.050368	-0.24588	0.037796	-0.13683	0.630214	0.049762	0.597352	0.182274
HUS1B	-0.0108	-0.17534	0.145744	-0.03833	0.937009	0.200383	0.283818	0.779125	0.402224	-0.43224	0.319228	-0.33463	0.996919	0.001513	0.982664	0.012327
COX15	0.024206	0.314055	-0.19432	0.108353	0.858149	0.018416	0.147497	0.422384	-0.06644	0.506593	-0.1779	0.32778	0.330445	0.999836	0.121167	0.986918
CP	-0.20213	-0.19437	0.001097	0.165296	0.131594	0.15116	0.993537	0.219154	-0.22412	0.137279	-0.01615	0.159546	0.067155	0.818526	0.45808	0.855226
TRIM40	-0.02913	-0.03783	0.117689	-0.25763	0.829669	0.781918	0.383272	0.053019	-0.06014	-0.37348	0.150531	-0.40851	0.345669	0.005284	0.838182	0.002412
DPCR1	0.166101	-0.05199	0.173222	-0.3057	0.221153	0.706201	0.201703	0.021951	0.153675	-0.26278	0.31466	-0.28766	0.846056	0.038834	0.982363	0.026281
CPA1	0.012725	-0.07807	0.171035	-0.27955	0.925152	0.567364	0.203347	0.035206	0.152656	-0.35018	0.153584	-0.3123	0.844427	0.008521	0.843098	0.017299
CPA2	-0.10855	-0.22828	0.043425	-0.18408	0.425839	0.093686	0.750647	0.174435	0.067167	-0.33012	0.192707	-0.28471	0.671304	0.012526	0.897649	0.027571
WBSCR28	-0.22328	-0.19429	0.014548	-0.17295	0.095006	0.151337	0.914467	0.198253	-0.13109	-0.38232	-0.02085	-0.35397	0.192583	0.004369	0.445929	0.007903
TRIM50	-0.05584	-0.221	0.085964	-0.21595	0.682711	0.101666	0.528725	0.109937	0.175368	-0.36998	0.212177	-0.37632	0.878139	0.00569	0.919134	0.004974
CPA3	0.214662	-0.10711	-0.09354	0.306532	0.108821	0.432047	0.488892	0.020388	-0.37802	0.235461	-0.15874	0.530273	0.00523	0.940271	0.151689	0.99991
OR9A2	0.189515	-0.10406	0.176875	-0.27074	0.157967	0.445328	0.188109	0.041654	0.24785	-0.37204	0.12606	-0.42642	0.94966	0.005926	0.792571	0.001745
C7orf34	0.023897	-0.1925	0.143374	-0.18772	0.859944	0.155206	0.287339	0.162012	-0.01723	-0.34003	0.106975	-0.30207	0.45476	0.010386	0.757857	0.02066
TMEM139	-0.10248	-0.23347	0.203619	-0.1893	0.448129	0.083313	0.128713	0.158447	0.188491	-0.34721	0.273261	-0.23708	0.895171	0.009035	0.965334	0.056319
NOBOX	-0.0589	-0.20388	0.194574	-0.14166	0.663417	0.13176	0.146958	0.293207	-0.07593	-0.4111	0.176261	-0.2738	0.307997	0.002269	0.876613	0.032792
OR2A14	0.127903	-0.26003	0.222427	-0.17236	0.343049	0.052934	0.096314	0.19981	0.095173	-0.47675	0.212298	-0.35396	0.735378	0.000405	0.919256	0.007905
OR6B1	0.030024	-0.37706	0.151714	-0.1366	0.826136	0.004544	0.264339	0.315448	0.233319	-0.33661	0.08367	-0.24497	0.940682	0.011087	0.707619	0.050412
OR2F2	-0.06028	0.098285	0.010434	-0.16786	0.658964	0.475296	0.939166	0.216242	0.096872	-0.19697	0.062372	-0.25168	0.739058	0.094755	0.658007	0.045775
ADORA2B	-0.09177	0.334134	-0.24504	-0.05665	0.501149	0.011842	0.068731	0.678339	-0.03305	0.42769	-0.25496	0.168639	0.413685	0.998486	0.045488	0.868715
CPB1	-0.06201	-0.06472	0.167163	-0.1947	0.646764	0.635566	0.213919	0.146701	0.191978	-0.15591	0.042331	-0.27473	0.899403	0.150403	0.608762	0.032318
ZNF786	0.024451	0.2228	-0.09576	-0.01765	0.856729	0.098842	0.47859	0.896318	-0.19516	0.32897	-0.11222	0.109163	0.096839	0.987203	0.231502	0.764905
CPB2	-0.02241	0.014176	0.100931	-0.29973	0.868591	0.917413	0.45504	0.023505	-0.02796	-0.28742	-0.18661	-0.33535	0.42767	0.027782	0.112582	0.012163
CPD	0.070758	0.156885	-0.05188	0.206289	0.604313	0.252679	0.704138	0.127167	-0.02771	0.227397	-0.09718	0.106801	0.427471	0.935722	0.262701	0.760046
EMID2	-0.11835	-0.02521	0.158491	-0.23971	0.380596	0.853658	0.238982	0.072496	-0.00831	-0.32307	0.108939	-0.37376	0.478147	0.014263	0.761874	0.005254
LOC136242	0.026589	0.009285	0.139884	-0.3249	0.844351	0.94585	0.299356	0.013667	0.072799	-0.17855	0.106803	-0.21793	0.684671	0.117563	0.757504	0.072839
KLF14	-0.00081	-0.22087	0.247357	-0.15088	0.995201	0.101879	0.063585	0.262584	0.072486	-0.38531	0.249077	-0.26625	0.683932	0.004093	0.950525	0.036844
C7orf45	-0.0013	-0.12807	0.149654	-0.51663	0.992396	0.351414	0.270956	4.58E-05	-0.03152	-0.44314	0.122258	-0.36235	0.41764	0.00102	0.788162	0.006668
C7orf57	-0.20116	-0.24541	0.013361	-0.30131	0.133503	0.068295	0.921421	0.022746	-0.27319	-0.30596	0.036261	-0.23216	0.033105	0.019324	0.593469	0.060267
CPE	0.375954	-0.11055	0.095769	0.237001	0.003951	0.417282	0.478538	0.075888	0.471641	-0.19517	0.259931	0.014455	0.999531	0.096826	0.957681	0.537981
SVOPL	-0.08556	0.086814	-0.02169	-0.12294	0.526877	0.524643	0.872758	0.362272	-0.22608	-0.04511	-0.17449	-0.02835	0.065419	0.382966	0.125819	0.425829
MTPN	-0.04793	0.153424	-0.35741	0.205105	0.723276	0.258928	0.006345	0.125886	-0.13836	0.277087	-0.16786	0.185949	0.179568	0.968858	0.135185	0.892009
LRGUK	-0.12665	-0.13375	0.011697	-0.2197	0.347823	0.325746	0.931181	0.100576	-0.19995	-0.29107	0.04659	-0.20635	0.091375	0.02485	0.6194	0.084433
ASB10	-0.08687	-0.08534	0.199026	-0.20405	0.520525	0.531736	0.137752	0.127881	-0.02105	-0.37308	0.121073	-0.32282	0.44477	0.00533	0.785892	0.014328
CLDN4	-0.14577	0.282038	-0.25825	-0.11279	0.279272	0.03521	0.052426	0.403532	-0.23852	0.508013	-0.26892	0.246354	0.055208	0.999843	0.037026	0.950571
CLDN3	-0.18275	-0.10703	-0.02361	-0.17713	0.173617	0.432393	0.861621	0.187461	-0.20956	-0.06138	-0.02935	-0.12094	0.081087	0.342656	0.42412	0.211671
TRYX3	0.168356	-0.15127	0.109247	-0.28086	0.21062	0.26577	0.418545	0.034321	0.136958	-0.36718	0.217765	-0.24399	0.81796	0.006034	0.924643	0.051121
CLDN7	-0.20677	0.323554	-0.26623	-0.04603	0.122772	0.014996	0.045316	0.733842	-0.24089	0.557505	-0.31962	0.263605	0.05341	0.999971	0.016168	0.961646
C7orf11	-0.19659	0.106186	-0.34364	0.031224	0.142732	0.436036	0.008866	0.81765	-0.12112	0.177052	-0.24099	0.193237	0.211321	0.880423	0.055389	0.9009
CPM	0.087141	0.06801	-0.09716	0.222824	0.523074	0.621755	0.476248	0.098805	0.209181	0.085489	-0.05646	0.030293	0.918519	0.713926	0.356304	0.5792
SRCRB4D	-0.02198	-0.16336	0.254394	-0.27604	0.871068	0.228971	0.056181	0.037668	0.215303	-0.53402	0.173049	-0.51197	0.922251	7.90E-05	0.869351	0.000162
C7orf31	0.222222	-0.20474	0.186346	0.159122	0.096631	0.13012	0.165167	0.237095	0.152682	-0.32434	0.206239	0.027026	0.844469	0.013936	0.912962	0.57075
CPN1	-0.00904	-0.13717	0.077783	-0.20213	0.946764	0.313417	0.565218	0.131584	0.132201	-0.21215	0.11934	-0.27987	0.809432	0.078465	0.782547	0.029796
ASZ1	0.050268	-0.24315	0.184583	-0.26949	0.710384	0.070966	0.169275	0.042639	-0.12654	-0.44284	0.094393	-0.31067	0.201025	0.001028	0.731306	0.017803

CPN2	0.013244	-0.21835	0.282648	-0.18016	0.922108	0.105938	0.033146	0.179905	0.071633	-0.30025	0.24105	-0.22965	0.681921	0.02131	0.944659	0.062354
CLDN23	-0.0364	-0.14822	0.182859	-0.2728	0.788093	0.275635	0.173361	0.040068	0.039455	-0.32361	0.139521	-0.25092	0.602696	0.014123	0.819662	0.046282
CPOX	-0.16931	0.320496	-0.16798	0.029036	0.208017	0.016032	0.211645	0.83023	-0.18477	0.316097	-0.26087	0.236117	0.10948	0.983826	0.041743	0.942921
ZNF572	-0.1192	0.05291	-0.07219	-0.27024	0.377159	0.698546	0.5936	0.042045	-0.04573	-0.34409	-0.02097	-0.10847	0.381399	0.009604	0.445635	0.236508
CPS1	0.28971	-0.02982	0.046089	-0.07412	0.030328	0.828892	0.735891	0.587174	0.041292	-0.09745	0.069308	-0.06941	0.607368	0.25969	0.674508	0.323343
GOT1L1	-0.12008	0.06753	0.094362	-0.30742	0.373599	0.62094	0.485054	0.020008	-0.07999	-0.15716	0.255069	-0.15402	0.298594	0.148453	0.954582	0.153397
FAM92A1	-0.01585	0.028292	0.186277	-0.17079	0.906817	0.83602	0.165326	0.204005	0.051473	-0.21639	0.062898	-0.08287	0.632968	0.074315	0.659267	0.29202
CPT1A	-0.00058	0.27081	-0.21734	0.27436	0.996627	0.045523	0.10761	0.04073	-0.13282	0.613164	-0.3135	0.435344	0.189445	0.999997	0.017995	0.998752
VPS37A	0.027995	0.251911	-0.1819	0.148971	0.836231	0.061077	0.175677	0.268737	0.186166	0.279867	-0.21132	0.061919	0.889606	0.968697	0.084259	0.656917
CPT1B	-0.22323	0.06861	0.0086	0.019735	0.095083	0.615357	0.949375	0.88415	-0.13451	0.183892	-0.10507	0.035838	0.186394	0.889402	0.246071	0.59346
CPT2	-0.08908	0.353056	-0.15245	0.075495	0.513839	0.008195	0.262013	0.580262	-0.20887	0.654773	-0.2593	0.373614	0.081803	1	0.042711	0.99473
C8orf38	-0.10387	0.22214	-0.2226	0.053093	0.441947	0.099871	0.096044	0.69488	-0.05976	0.319141	-0.05743	0.073793	0.346613	0.984685	0.353934	0.687006
TMEM68	-0.12331	0.023324	-0.16839	-0.14073	0.360791	0.864519	0.210534	0.296396	-0.26444	0.06425	-0.07119	0.04179	0.037872	0.664294	0.321066	0.608631
ABRA	0.025016	-0.1775	0.055449	-0.27599	0.853458	0.190618	0.682047	0.037701	0.186283	-0.38752	0.165067	-0.41997	0.892428	0.003898	0.860728	0.001833
LYPD2	-0.11828	-0.18272	0.006912	-0.04974	0.380881	0.177698	0.959305	0.713304	-0.20678	0.119515	-0.03371	0.05618	0.083977	0.785565	0.41299	0.64462
CR1	0.02846	-0.45884	0.136059	-0.03097	0.83355	0.000375	0.312895	0.819125	0.014887	-0.59446	0.119849	-0.35859	0.538661	8.32E-06	0.780801	0.007785
NKX2-6	-0.08956	-0.1239	0.209537	-0.13887	0.507619	0.36292	0.117738	0.302903	0.065052	-0.35426	0.074709	-0.34602	0.666227	0.007857	0.687134	0.009248
TMEM71	-0.17905	0.288336	-0.29296	0.002121	0.18264	0.031159	0.026996	0.987507	-0.10984	0.030394	0.10672	-0.0445	0.233719	0.579462	0.757333	0.384511
SGCZ	0.067456	-0.12175	0.167697	-0.15003	0.621323	0.375903	0.216683	0.269741	0.055508	-0.34265	0.231346	-0.37289	0.641383	0.010607	0.934604	0.005822
ADHFE1	0.140877	-0.0013	0.151901	-0.18406	0.295903	0.99244	0.259327	0.170516	0.315279	-0.46388	0.211794	-0.49327	0.983589	0.000583	0.918745	0.000248
UBXN2B	-0.08713	0.138146	-0.10588	0.139953	0.519254	0.309939	0.433128	0.299113	-0.02634	0.169549	-0.11553	0.221203	0.431017	0.870017	0.224902	0.93021
CR1L	-0.19701	-0.11718	0.061256	-0.17246	0.141873	0.389758	0.650802	0.19956	-0.04889	-0.31212	-0.04366	-0.44031	0.374894	0.01843	0.389199	0.001235
PXDNL	0.041256	-0.07606	0.174006	-0.25993	0.76059	0.577415	0.195487	0.050864	0.098322	-0.29758	0.103655	-0.29943	0.742179	0.022295	0.750987	0.021611
AGPAT6	-0.00123	0.149518	-0.04405	0.370971	0.992748	0.271399	0.744886	0.004499	0.079588	0.4936	-0.17832	0.312747	0.700477	0.999755	0.120602	0.982835
UNC5D	0.010105	-0.16061	0.143917	-0.27639	0.941077	0.24145	0.289961	0.039204	0.11663	-0.43693	0.178539	-0.32389	0.779911	0.001198	0.879689	0.014051
LETM2	-0.01287	-0.26277	-0.14708	-0.36757	0.924969	0.052596	0.279368	0.005322	-0.09158	-0.13707	0.138801	-0.03717	0.272483	0.181837	0.818409	0.403137
CR2	-0.01842	-0.08895	0.062798	0.111501	0.893802	0.522404	0.648766	0.417682	0.258175	-0.1091	-0.02256	-0.07702	0.956581	0.237804	0.442203	0.307521
WDR21C	0.125206	-0.24416	0.322387	-0.24807	0.353407	0.069754	0.014456	0.0628	0.11006	-0.38457	0.304407	-0.32851	0.766736	0.004159	0.978979	0.012906
RALYL	-0.146	-0.08865	0.025117	-0.32314	0.282955	0.515873	0.854213	0.015131	-0.02224	-0.40199	0.050261	-0.33362	0.44168	0.002809	0.628498	0.011731
HGSNAT	0.223416	0.348064	-0.03327	0.179674	0.094806	0.008572	0.805939	0.181102	0.37739	0.263273	-0.00864	0.200774	0.995139	0.961453	0.477532	0.909538
RNF183	-0.20392	-0.0452	0.074521	-0.04236	0.128145	0.74083	0.581685	0.754377	-0.35982	-0.03351	0.058961	-0.10871	0.007023	0.412518	0.649779	0.236024
CRABP1	0.054192	0.175535	0.004861	0.157967	0.688884	0.195654	0.971374	0.240561	-0.06388	-0.02028	-0.02333	0.11721	0.338389	0.447397	0.440254	0.778397
NACC2	0.077633	-0.19147	0.30818	-0.08041	0.569556	0.161398	0.020847	0.555771	0.092928	-0.28108	0.243837	-0.2353	0.730476	0.02923	0.946753	0.057725
C9orf116	-0.15538	-0.20543	0.039159	-0.18958	0.248446	0.12879	0.772427	0.157822	-0.27188	-0.29866	0.029931	-0.1874	0.033787	0.021893	0.577374	0.106174
C9orf41	-0.0251	0.380878	-0.27234	0.109745	0.852961	0.00378	0.040413	0.416412	-0.03359	0.540783	-0.20538	0.258921	0.412318	0.999948	0.087954	0.958853
CRABP2	-0.03632	-0.00315	-0.02389	-0.06015	0.790454	0.981805	0.861252	0.659692	-0.1752	0.383769	-0.05374	0.345116	0.124834	0.995372	0.364497	0.989878
C9orf57	-0.15866	-0.03052	0.081435	-0.07491	0.238485	0.823328	0.547041	0.579701	0.013815	-0.24158	-0.07485	-0.32959	0.536303	0.052895	0.312529	0.01265
C9orf85	-0.0293	0.289723	-0.22127	0.253218	0.828736	0.030321	0.098106	0.057368	-0.06643	0.490438	-0.26654	0.286316	0.330454	0.99973	0.038375	0.973137
C9orf135	-0.16041	-0.03614	-0.01265	-0.17115	0.233266	0.791448	0.925602	0.203048	-0.24226	-0.17615	0.028396	-0.10446	0.052391	0.1208	0.573449	0.244813
LCN8	-0.18218	-0.02692	0.181679	-0.20071	0.175003	0.843851	0.1762	0.134385	0.070433	-0.39821	0.072985	-0.46277	0.679082	0.003064	0.683126	0.000601
FAM69B	0.017232	-0.13376	0.235909	-0.10719	0.898762	0.325702	0.077288	0.427401	0.156034	-0.27679	0.147592	-0.25407	0.849785	0.031288	0.83336	0.044207
CRAT	0.130168	0.064986	0.167932	0.110495	0.338975	0.637372	0.21603	0.417534	0.068689	0.448971	-0.07692	0.218691	0.674938	0.999125	0.307765	0.927876
PTRH1	-0.20148	-0.2658	0.018535	-0.47229	0.132873	0.047706	0.89115	0.000208	-0.2547	-0.22218	0.070654	-0.26089	0.0438	0.068896	0.677672	0.039956
PIP5KL1	0.053638	-0.23058	0.203678	-0.25767	0.691905	0.087316	0.128601	0.052984	0.040022	-0.47037	0.236998	-0.37964	0.60414	0.000486	0.941503	0.004631
TAF1L	-0.07805	-0.01187	0.028735	-0.23694	0.563893	0.930801	0.831967	0.075969	0.0459	-0.27349	0.244833	-0.21111	0.619018	0.032952	0.947486	0.079517
CREB1	-0.03246	0.285764	-0.23201	0.277302	0.810536	0.032763	0.08245	0.036766	0.141705	0.425162	0.010886	0.387415	0.826235	0.998387	0.528289	0.996093
ATF2	0.095669	0.071142	-0.05539	0.247967	0.479003	0.602344	0.682347	0.062915	0.218914	0.155101	0.056302	0.240762	0.928086	0.848317	0.643321	0.946497
PTPDC1	-0.10566	-0.30785	0.187823	-0.20712	0.434079	0.020991	0.161783	0.122131	0.195564	-0.56931	0.159135	-0.29035	0.903626	1.82E-05	0.85179	0.025148
ANKRD19	0.041628	-0.11338	0.133607	-0.42759	0.758498	0.405413	0.321775	0.000908	-0.05115	-0.16647	0.024914	-0.08896	0.367832	0.134425	0.564524	0.278284
CREBBP	0.142109	0.123431	-0.10025	0.099895	0.291656	0.364771	0.458104	0.459704	0.021929	0.400441	-0.04434	0.215468	0.556847	0.996792	0.387527	0.922412

ARID3C	-0.04677	-0.20955	0.174719	-0.15244	0.729714	0.121137	0.193635	0.257613	0.131246	-0.49458	0.145783	-0.39799	0.807693	0.000238	0.830348	0.00308
C9orf23	-0.27144	0.129262	-0.20595	-0.01753	0.041111	0.342376	0.124309	0.897016	-0.17723	0.48564	-0.48434	0.215122	0.119338	0.999688	0.000374	0.924463
C9orf131	-0.06224	-0.2231	0.199447	-0.11725	0.645575	0.098383	0.136904	0.385067	0.09621	-0.48466	0.213154	-0.35441	0.737628	0.000321	0.920117	0.007833
OR13C5	0.13776	-0.05733	-0.0037	-0.35158	0.306827	0.674703	0.978211	0.007323	-0.11443	-0.22796	0.020819	-0.23784	0.224458	0.063792	0.553988	0.055728
ATF6B	-0.10787	0.058717	0.036775	0.036939	0.428753	0.670235	0.787863	0.786939	-0.17595	0.290651	-0.10204	0.137299	0.121067	0.974977	0.252392	0.818562
OR13C8	0.0839	0.017373	0.121464	-0.21931	0.54252	0.899816	0.377026	0.107677	0.113139	-0.21416	0.037876	-0.11881	0.770344	0.078877	0.596422	0.218474
OR13C3	-0.03647	-0.08191	0.121292	-0.32245	0.787649	0.548411	0.368774	0.014436	0.076036	-0.36432	0.065146	-0.34356	0.690204	0.00694	0.662807	0.010426
OR13C4	0.272925	-0.06234	0.116074	-0.20727	0.03997	0.648104	0.38988	0.121862	0.17722	-0.1017	0.086491	-0.11716	0.877914	0.253109	0.711664	0.2217
OR13F1	0.017845	-0.01313	0.152906	-0.2164	0.895179	0.923479	0.256153	0.105925	-0.00978	-0.3022	0.246295	-0.24568	0.474285	0.020615	0.948549	0.049909
OR1L8	-0.01081	-0.06308	0.174021	-0.1978	0.936951	0.647275	0.1996	0.143931	0.01267	-0.23142	0.02266	-0.42964	0.5333	0.060872	0.558731	0.001442
OR1N2	0.085556	-0.11643	0.121005	-0.25638	0.526873	0.39279	0.369916	0.054227	0.119194	-0.30559	0.222482	-0.35199	0.784938	0.019449	0.929075	0.008221
OR1N1	0.047168	-0.10151	0.188862	-0.3539	0.729942	0.460837	0.163312	0.007454	0.06202	-0.2873	0.07711	-0.24606	0.658899	0.026438	0.692681	0.049639
CREBL2	0.016655	0.031714	-0.05742	0.011648	0.902137	0.816514	0.671361	0.931471	0.038725	-0.30775	0.237671	-0.06003	0.600837	0.018735	0.942036	0.345942
CREM	0.050434	0.054966	-0.13791	0.024227	0.70947	0.687421	0.306307	0.858026	-0.02926	0.01151	-0.07911	0.075877	0.424354	0.52991	0.304858	0.689839
SLITRK4	-0.08952	-0.151	-0.01535	-0.3555	0.507814	0.266612	0.909743	0.006651	0.334642	-0.33323	0.306819	-0.45423	0.988492	0.011818	0.979819	0.00076
SPANXN3	-0.21981	-0.2089	0.032107	-0.0756	0.100396	0.122327	0.812587	0.576225	-0.02026	-0.33239	0.067267	-0.27037	0.446854	0.012007	0.669684	0.034586
MAGEC3	-0.10656	-0.20689	0.130431	-0.16822	0.430131	0.126045	0.333515	0.211009	0.239832	-0.4166	0.223392	-0.47177	0.945796	0.001989	0.929908	0.000467
BEND2	-0.00281	-0.36509	0.064862	-0.27013	0.983452	0.005663	0.631688	0.042137	-0.20493	-0.45878	0.06402	-0.39477	0.088438	0.000763	0.660145	0.003641
PASD1	-0.00988	0.033415	0.192749	-0.20898	0.941845	0.806857	0.150861	0.11873	0.108262	-0.31679	0.068048	-0.3228	0.763057	0.015974	0.671533	0.014334
WDR40B	-0.04633	-0.22775	0.130141	-0.20525	0.732213	0.091389	0.3346	0.12562	0.117621	-0.25298	0.219239	-0.22195	0.781862	0.044916	0.926049	0.069108
DGKK	0.009166	0.010878	0.175719	-0.1864	0.946046	0.93658	0.191058	0.165052	0.014666	-0.13026	-0.0232	-0.2588	0.538532	0.19411	0.439877	0.04122
CRH	-0.03015	-0.17346	0.185967	-0.11702	0.823798	0.201076	0.166043	0.386002	-0.0498	-0.4361	0.000377	-0.40315	0.371215	0.001224	0.500981	0.002735
CXorf41	-0.12494	-0.15774	-0.12104	-0.23103	0.354426	0.245621	0.369789	0.083798	-0.32289	-0.1953	-0.09086	-0.08667	0.014309	0.096679	0.276395	0.28342
MUM1L1	-0.07889	0.023655	0.025084	-0.50382	0.559654	0.862615	0.853059	6.46E-05	-0.08375	-0.35016	0.20387	-0.5036	0.290011	0.008525	0.910408	0.00018
CXorf39	-0.15883	0.31686	-0.30939	0.054336	0.237966	0.017343	0.019186	0.688097	0.079843	0.462105	-0.2586	0.20614	0.701064	0.999388	0.043154	0.915349
FAM123B	0.045426	0.038782	-0.07387	-0.01368	0.73722	0.776579	0.585004	0.919564	0.304229	-0.16747	0.104006	-0.02398	0.98009	0.132965	0.751719	0.437162
CRHBP	-0.01508	-0.10221	0.175202	-0.16255	0.911353	0.453525	0.192388	0.227017	0.007474	-0.34334	0.13008	-0.18948	0.519658	0.009744	0.802803	0.103618
APOOL	0.127633	0.218612	-0.24955	-0.01806	0.34408	0.105514	0.061195	0.893925	-0.07148	0.285793	-0.06783	0.176817	0.318433	0.972908	0.328977	0.880106
HDX	0.299718	-0.00803	0.169669	0.206966	0.02351	0.953133	0.207034	0.122413	0.305596	0.02039	0.107934	0.138928	0.980553	0.553497	0.759823	0.821422
FUNDC1	-0.0182	0.173694	-0.17484	0.103716	0.893096	0.200457	0.193322	0.442626	-0.25759	0.261606	-0.32585	0.360666	0.041966	0.960472	0.014469	0.993098
MAGEA13F	0.120779	-0.10037	0.245837	-0.19995	0.370817	0.461721	0.065284	0.135889	0.135641	-0.42456	0.021358	-0.32981	0.815623	0.001637	0.555376	0.012599
GPR112	0.152736	-0.17178	0.189562	-0.08536	0.256688	0.205551	0.157862	0.527815	0.258004	-0.32662	0.24775	-0.27221	0.958288	0.013366	0.949589	0.033614
CRHR1	-0.07591	-0.15267	0.161759	-0.18282	0.574648	0.261316	0.229311	0.173459	0.102496	-0.4618	0.230773	-0.27599	0.751057	0.000618	0.936393	0.031683
PTCHD1	0.216669	-0.14763	0.300131	0.02034	0.105475	0.277551	0.02331	0.880623	0.322863	-0.45197	0.241732	-0.31872	0.985683	0.000808	0.945176	0.015432
SMEK3P	0.040769	-0.1626	0.150258	-0.30822	0.763335	0.231171	0.264578	0.01967	0.066445	-0.4412	0.186287	-0.32112	0.669574	0.001073	0.889759	0.014777
MAGEB10	-0.03529	0.089696	0.063382	-0.23659	0.794405	0.510918	0.639505	0.07641	0.154031	-0.28579	0.045799	-0.32162	0.846622	0.027094	0.617432	0.014643
WDR42B	-0.01717	-0.11831	0.150783	-0.10554	0.89911	0.385138	0.262891	0.434601	0.109038	-0.33529	0.163394	-0.2851	0.764649	0.011369	0.858244	0.027397
LOC139431	0.090228	-0.13907	0.167478	-0.3465	0.504467	0.306692	0.213045	0.00828	0.236231	-0.30347	0.079751	-0.27439	0.943011	0.020171	0.698733	0.032492
CRHR2	0.05437	-0.1477	0.15364	-0.20282	0.687913	0.277328	0.253851	0.130255	0.085731	-0.4011	0.242134	-0.36465	0.714473	0.002867	0.945481	0.006359
OTUD6A	-0.12566	-0.11582	0.1722	-0.16489	0.351648	0.395286	0.200239	0.220314	0.026586	-0.21579	0.207429	-0.31056	0.56961	0.074885	0.914226	0.017837
UPRT	-0.08668	0.228819	-0.23952	0.120402	0.521425	0.08983	0.072731	0.372323	-0.02736	0.470215	-0.08688	0.237247	0.428391	0.999512	0.285202	0.943808
MAGEE2	0.091418	-0.03995	0.126163	-0.24284	0.498839	0.770036	0.349712	0.068737	0.02491	-0.28999	0.080119	-0.18497	0.565261	0.025298	0.699573	0.109229
CRIP1	-0.19683	-0.13201	-0.04825	-0.11477	0.142228	0.332107	0.721514	0.395244	-0.2699	0.029258	-0.12096	0.011948	0.034838	0.576526	0.214325	0.531408
MAGEB16	0.01596	-0.19841	0.172078	-0.32984	0.906203	0.142669	0.200564	0.012224	-0.08909	-0.18907	0.172779	-0.25688	0.278004	0.104118	0.871809	0.042415
FOXR2	0.198238	-0.26109	0.152365	-0.3066	0.143031	0.054184	0.262271	0.021546	0.134664	-0.26683	0.212919	-0.33143	0.813877	0.036521	0.919881	0.012225
RP11-167P	-0.05728	-0.16964	0.205207	-0.08733	0.672114	0.21132	0.125695	0.518325	0.038616	-0.19602	0.209759	-0.12733	0.600559	0.095844	0.91666	0.199533
CRIP2	0.114392	-0.29219	0.11349	-0.06241	0.396833	0.028877	0.400589	0.64466	0.150625	-0.11571	0.20065	0.001086	0.841149	0.221917	0.906851	0.502857
GAB3	-0.04599	-0.24271	0.07291	0.587732	0.734077	0.071483	0.589898	1.53E-06	0.046911	-0.26025	0.133257	0.073103	0.621561	0.04034	0.808577	0.685386
PNCK	0.125847	-0.17976	0.391014	-0.12456	0.350928	0.184939	0.002635	0.355901	0.222609	-0.58674	0.321996	-0.48522	0.931491	9.12E-06	0.984499	0.000316
ZFP92	-0.04488	-0.25637	0.197244	-0.17228	0.740268	0.056491	0.141383	0.200017	0.155212	-0.34063	0.143287	-0.3046	0.848492	0.010267	0.826136	0.019782

ACTRT1	-0.00398	-0.20653	0.225009	-0.20026	0.976788	0.130318	0.095456	0.138922	-0.0177	-0.29608	0.090745	-0.25128	0.453529	0.022866	0.723353	0.046044
GPR119	0.079185	-0.17131	0.307746	-0.19539	0.561838	0.211085	0.021037	0.148974	0.022227	-0.21043	0.118112	-0.28272	0.558284	0.080205	0.78016	0.028469
PAGE3	0.049804	-0.3449	0.12347	-0.18779	0.712942	0.009237	0.360174	0.161849	0.060274	-0.27359	0.173667	-0.3017	0.654653	0.032899	0.873046	0.020791
CRK	-0.099	0.246501	-0.17482	0.408912	0.467878	0.069644	0.197502	0.001754	-0.06267	0.571622	-0.28483	0.473931	0.339529	0.999983	0.028953	0.999561
CXorf55	0.036262	-0.16381	0.140776	-0.10585	0.788856	0.227669	0.296252	0.433224	-0.00228	-0.41687	0.120543	-0.31903	0.493998	0.001976	0.784873	0.015346
DOCK11	0.219007	-0.26425	0.042291	0.335871	0.101678	0.049064	0.754772	0.010641	0.346648	-0.43033	0.295885	-0.14548	0.990864	0.001418	0.975777	0.167358
SPIN4	0.106805	0.117067	0.034751	-0.01299	0.43335	0.394668	0.799292	0.924299	0.196984	-0.0516	0.222985	-0.16929	0.905264	0.366725	0.929536	0.130356
CRKL	-0.12009	0.405409	-0.29805	0.349556	0.377976	0.002137	0.025679	0.008273	0.121327	0.569019	-0.19515	0.399221	0.789073	0.999982	0.099451	0.997006
AAMP	-0.04412	0.063743	-0.12505	-0.04993	0.744515	0.640699	0.354001	0.712259	-0.04692	0.388852	-0.17609	0.190067	0.378415	0.996216	0.123618	0.897099
ADORA3	0.122902	-0.08617	0.315271	-0.01002	0.362406	0.527752	0.016905	0.941011	0.177185	-0.39929	0.290231	-0.3353	0.880603	0.00299	0.973443	0.011366
CRMP1	0.002196	0.210889	-0.10359	-0.18005	0.987183	0.122223	0.447394	0.184223	0.110687	0.180133	0.100099	0.09091	0.76542	0.88181	0.741019	0.723715
RPS4Y2	-0.10953	-0.01494	-0.02965	-0.22914	0.417349	0.912995	0.826714	0.086434	0.135625	-0.23453	0.032165	-0.41649	0.815595	0.058341	0.58307	0.001994
CRP	0.05225	-0.20924	0.109593	-0.25971	0.699496	0.1217	0.417063	0.051062	-0.03275	-0.40437	0.140843	-0.36199	0.414479	0.002658	0.821952	0.006717
KRTAP13-1	-0.00472	0.101965	0.213813	-0.24481	0.972175	0.454592	0.110262	0.066448	-0.03735	-0.3478	0.301313	-0.32102	0.402662	0.008932	0.977859	0.014804
TCP10L	0.041907	-0.33924	0.233078	-0.29429	0.756927	0.010536	0.081014	0.026277	-0.03504	-0.54247	0.069629	-0.40989	0.408578	4.92E-05	0.675262	0.002335
HAPLN1	0.398742	-0.24706	0.307513	0.063385	0.002567	0.071696	0.022381	0.645704	0.409869	-0.12678	0.403992	-0.08354	0.997414	0.203305	0.996732	0.29268
RNF113B	-0.10397	-0.16856	0.187423	-0.27186	0.441508	0.214289	0.162695	0.040786	-0.01056	-0.41563	0.084414	-0.35676	0.472239	0.002036	0.709291	0.007472
MUC17	-0.00856	-0.02501	0.19098	-0.32654	0.949591	0.854847	0.154719	0.013174	0.04613	-0.28095	0.115599	-0.3409	0.619597	0.029291	0.77523	0.010214
ASB11	0.059069	-0.21197	0.266373	-0.068	0.662499	0.1168	0.045192	0.615231	0.090035	-0.22988	0.209164	-0.17314	0.724096	0.062162	0.916043	0.124923
ASB5	0.30041	-0.17167	0.242459	-0.05511	0.023176	0.205847	0.069188	0.683876	0.227535	-0.25638	0.178547	-0.08386	0.933606	0.044568	0.876894	0.291953
ASB6	-0.09345	0.026216	-0.06164	0.106701	0.489301	0.847905	0.64877	0.429534	-0.01258	0.256786	-0.27359	0.201927	0.466938	0.957528	0.034492	0.910809
ASB7	-0.22217	0.362707	-0.26443	0.065772	0.096706	0.006009	0.046845	0.6269	-0.09695	0.284697	-0.24901	0.167308	0.260766	0.972423	0.04952	0.866794
ASB8	0.089465	0.18731	-0.19558	0.186361	0.508091	0.166863	0.144836	0.165131	0.042044	0.272786	0.021674	0.189152	0.609275	0.966685	0.55619	0.895983
ASB9	0.007448	-0.10395	0.167217	-0.14367	0.956555	0.450075	0.218022	0.290803	-0.24721	0.005677	-0.11329	-0.06534	0.048824	0.514936	0.229351	0.333073
MYL6B	-0.01561	-0.17293	-0.05106	0.022154	0.90826	0.202487	0.706003	0.870064	0.03495	0.060936	0.050102	0.077711	0.590147	0.654553	0.626644	0.694064
ZNF358	0.016999	-0.12631	0.249403	-0.13848	0.900124	0.353601	0.061356	0.304283	0.234661	-0.38697	0.238141	-0.23939	0.941764	0.003946	0.942407	0.054545
COX11P	0.265529	0.019474	0.130771	0.05387	0.045903	0.88672	0.332248	0.690637	0.164033	-0.00607	0.019027	0.158317	0.86199	0.484035	0.549364	0.853337
MYO3B	0.035768	-0.24163	-0.00597	-0.16139	0.793544	0.075521	0.965159	0.234708	-0.09042	-0.15392	0.088538	-0.1481	0.275054	0.153549	0.718487	0.162993
RNF32	-0.13136	-0.0401	-0.01916	-0.26766	0.330047	0.769172	0.887498	0.044127	-0.27441	-0.29614	0.106699	-0.10002	0.032481	0.022839	0.757291	0.254185
APOBEC3D	-0.16974	0.07154	-0.08163	0.212611	0.206835	0.600311	0.546059	0.112324	-0.36585	0.290845	-0.00558	0.325301	0.006203	0.975057	0.485485	0.986307
S100A16	-0.19796	0.437509	-0.22838	0.193594	0.147407	0.000939	0.093529	0.156719	-0.06806	0.732736	-0.32457	0.479712	0.326554	1	0.014805	0.999629
CHODL	-0.01167	-0.07754	0.108176	-0.09064	0.931348	0.570002	0.423149	0.502527	-0.16672	-0.12695	-0.03784	-0.0785	0.134067	0.200256	0.40255	0.302038
TCEAL2	0.530271	-0.31344	0.236857	-0.19825	2.21E-05	0.01866	0.076071	0.139323	0.544969	-0.57303	0.371793	-0.41195	0.999955	1.58E-05	0.994044	0.002223
CRX	-0.0126	-0.04408	0.229947	-0.27359	0.926571	0.749294	0.088216	0.041325	0.155659	-0.40842	0.104162	-0.32191	0.849196	0.002418	0.752044	0.014567
SELM	0.242631	-0.31835	0.318309	0.182386	0.068985	0.016794	0.015819	0.174496	0.427912	-0.52751	0.246636	-0.28388	0.998494	8.26E-05	0.948794	0.027942
NEK7	0.029479	0.129126	-0.21961	0.05416	0.82768	0.342887	0.100713	0.689056	0.080981	0.181646	-0.01073	0.181181	0.703676	0.886508	0.47212	0.885902
ZFP28	0.148614	0.133792	0.122563	-0.05384	0.269898	0.325581	0.36374	0.69081	0.178706	-0.08022	0.190995	-0.00351	0.882638	0.298078	0.895585	0.490759
ACTRT2	0.080521	-0.1085	0.241306	-0.17506	0.551564	0.426047	0.070563	0.192754	0.016429	-0.26675	0.163749	-0.17784	0.542651	0.038253	0.855907	0.121245
GATA5	0.189652	-0.21159	0.353887	-0.24316	0.157662	0.117469	0.006922	0.068368	0.332739	-0.61833	0.302519	-0.44191	0.988072	2.33E-06	0.978301	0.001054
SLC32A1	0.05139	-0.1239	0.19897	-0.20318	0.704212	0.362947	0.137864	0.129565	-0.04713	-0.3382	0.117721	-0.31467	0.377888	0.010756	0.779398	0.016589
C20orf96	-0.11923	-0.31047	0.024272	-0.33408	0.377015	0.019871	0.85777	0.011092	-0.24591	-0.3537	0.052447	-0.25478	0.049745	0.007946	0.633885	0.043746
C20orf70	-0.13655	0.178388	0.008725	-0.13551	0.311118	0.188374	0.948638	0.314853	-0.20269	-0.03776	-0.07537	-0.02514	0.088354	0.401615	0.311329	0.434149
ZBTB46	0.09851	-0.35527	0.305953	-0.17534	0.465982	0.007211	0.020639	0.192021	-0.08076	-0.23921	0.107347	-0.15629	0.298964	0.056755	0.756024	0.152631
WFDC3	-0.32161	-0.14803	0.056999	-0.35371	0.014707	0.27626	0.673654	0.006952	-0.16245	-0.42639	0.082215	-0.31661	0.140367	0.001564	0.704333	0.016027
GCNT7	0.088963	0.005127	0.139483	-0.42279	0.510486	0.970083	0.300758	0.001051	0.101144	-0.42119	0.23437	-0.47169	0.748198	0.001779	0.939385	0.000468
C20orf112	-0.09208	-0.19162	0.191834	-0.01357	0.495708	0.157133	0.152847	0.920202	-0.01707	-0.11076	0.164754	-0.00987	0.455186	0.231843	0.860266	0.474045
CBLN4	0.064042	0.03533	0.112249	-0.35125	0.639129	0.797892	0.410133	0.007945	0.088703	-0.50057	0.119085	-0.32343	0.721134	0.000198	0.782053	0.014169
CTCFL	-0.09031	-0.12628	0.11936	-0.27921	0.508008	0.35825	0.380921	0.037166	0.090325	-0.16292	0.166075	-0.22828	0.72243	0.14246	0.859351	0.065742
TRIM69	-0.08844	-0.26228	0.043367	0.02727	0.512981	0.050849	0.748734	0.840417	0.107573	-0.35463	0.263909	-0.33916	0.761639	0.007799	0.960091	0.010562
C20orf132	-0.14351	-0.03052	0.008753	-0.49266	0.286879	0.823314	0.948473	9.90E-05	-0.13054	-0.40324	0.170975	-0.42093	0.193607	0.002729	0.869271	0.00179

CRY1	-0.08825	-0.03215	-0.16981	-0.03831	0.513872	0.814047	0.206646	0.777231	-0.11487	-0.00132	-0.13437	0.034259	0.223586	0.496537	0.189417	0.589409
SAMD10	-0.05848	0.088308	0.217626	-0.22633	0.665645	0.517505	0.103909	0.090463	0.055974	-0.26508	0.101143	-0.22544	0.644115	0.037506	0.745724	0.065979
C20orf135	0.052886	-0.21931	0.205436	-0.14427	0.696011	0.104373	0.125264	0.284294	0.123693	-0.37714	0.143364	-0.34891	0.793604	0.004887	0.826268	0.008738
C20orf160	0.11785	-0.31542	0.333217	0.040787	0.382615	0.017887	0.011314	0.763235	0.20688	-0.33627	0.23087	-0.1159	0.916128	0.011159	0.936475	0.221523
BRI3BP	-0.21397	0.204267	-0.09166	-0.06357	0.113303	0.134676	0.501673	0.641592	-0.34004	0.624767	-0.21313	0.367761	0.010384	0.999998	0.07991	0.994039
C20orf117	0.132326	-0.18906	0.036808	-0.06241	0.32648	0.162871	0.785755	0.644653	-0.04449	0.170948	-0.02562	0.113866	0.384525	0.872001	0.433654	0.774418
C20orf118	0.040759	-0.32057	0.233037	-0.05594	0.76339	0.016006	0.081068	0.679371	-0.00914	-0.38046	0.163505	-0.17227	0.475951	0.00455	0.85841	0.126135
RIMS4	0.050228	-0.2648	0.241309	-0.17338	0.710604	0.048579	0.070559	0.197127	0.210285	-0.40249	0.243021	-0.35316	0.919648	0.002777	0.946146	0.008032
ANKRD60	0.003195	-0.1465	0.149419	-0.22491	0.981179	0.281309	0.267284	0.092561	0.186341	-0.52716	0.222719	-0.4856	0.892501	8.36E-05	0.929292	0.000312
SPAG4L	0.004546	-0.19108	0.224951	-0.18006	0.973225	0.158331	0.092501	0.180154	0.080677	-0.46029	0.197985	-0.32184	0.702981	0.000644	0.903832	0.014586
MACROD2	0.091016	-0.168	0.049979	-0.52791	0.500734	0.215834	0.711976	2.44E-05	0.085001	-0.54588	0.208137	-0.52798	0.712826	4.36E-05	0.914971	8.13E-05
DYNLL2	0.116219	-0.00464	-0.06917	0.188037	0.389285	0.972915	0.609155	0.161295	-0.03845	0.34212	-0.23057	0.328476	0.399864	0.990023	0.06378	0.987085
TMEM37	-0.01303	0.123201	-0.05418	-0.29884	0.923384	0.365671	0.688938	0.023942	-0.30944	0.143893	-0.16902	-0.0038	0.01819	0.82997	0.133509	0.49
UBE2F	0.065999	0.196575	-0.08495	0.133931	0.625708	0.146484	0.529798	0.320594	-0.09936	0.064364	-0.17289	0.035959	0.255604	0.664569	0.128029	0.59377
ADAMTS14	-0.13075	-0.07293	0.096487	-0.37825	0.332321	0.593238	0.475234	0.003719	-0.12704	-0.09926	-0.08074	-0.09784	0.200084	0.255808	0.299013	0.258857
NRSN1	0.105618	-0.17369	0.120377	-0.38827	0.434258	0.20047	0.372424	0.00284	0.158869	-0.41789	0.240576	-0.29285	0.854187	0.001927	0.944296	0.024128
SMCR5	0.063531	-0.00591	0.003309	-0.06982	0.641812	0.96585	0.980687	0.6091	0.078802	-0.17833	-0.09279	0.034055	0.698665	0.117863	0.27217	0.588887
SMCR8	0.118893	-0.06593	0.093177	0.0181	0.378389	0.629253	0.49058	0.89369	0.207513	0.14582	-0.0096	-0.04386	0.916791	0.833219	0.475044	0.386126
CRY2	-0.02713	-0.28305	0.071292	-0.12708	0.842649	0.03626	0.601576	0.350635	-0.00516	-0.38429	0.053679	-0.35794	0.486416	0.004185	0.636908	0.007295
RPL10L	-0.02004	-0.07721	0.098263	-0.11135	0.882359	0.571643	0.467107	0.409574	0.079468	-0.26758	0.069925	-0.26014	0.7002	0.036104	0.67596	0.040408
TRPM6	0.016683	0.077015	-0.08479	0.315666	0.902872	0.576248	0.534373	0.017793	-0.15643	0.44342	-0.06203	0.459612	0.1524	0.998859	0.344587	0.999254
KRT72	0.00193	-0.02738	0.163741	-0.18403	0.988631	0.841251	0.22358	0.170579	0.160214	-0.41942	0.26607	-0.40808	0.856248	0.001857	0.961354	0.002437
SRXN1	-0.13506	0.389333	-0.20639	-0.00989	0.320973	0.003304	0.126977	0.942324	-0.18533	0.523683	-0.35201	0.400085	0.108771	0.999906	0.008861	0.997065
ROMO1	-0.12328	-0.05167	0.0505	-0.03192	0.360913	0.705293	0.709106	0.813652	-0.36443	0.292455	-0.28377	0.229041	0.006925	0.974382	0.030971	0.934913
NEURL2	-0.11926	-0.12384	0.122398	-0.14137	0.376898	0.363189	0.364392	0.294184	0.175184	-0.31225	0.098936	-0.21952	0.877887	0.017315	0.741053	0.071348
ZSWIM3	-0.09748	-0.25993	0.006053	0.014246	0.470665	0.053028	0.964358	0.916234	0.036172	-0.0443	0.014132	0.103199	0.594313	0.385015	0.536707	0.752536
WFDC10A	-0.06673	-0.03391	0.081957	-0.11081	0.6219	0.804077	0.544468	0.411887	0.033135	-0.25896	0.125623	-0.15968	0.586521	0.041125	0.794535	0.144574
BANF2	0.198492	-0.08518	0.316357	-0.17747	0.138831	0.532499	0.016509	0.186597	0.170491	-0.24516	0.232797	-0.30784	0.871355	0.050281	0.93809	0.018705
NANP	0.113473	0.249001	-0.01107	0.029663	0.40066	0.064228	0.934838	0.826619	0.006099	0.2344	0.016647	0.194729	0.516045	0.941554	0.543214	0.902654
DEFB127	0.070647	-0.16182	0.050393	-0.19831	0.601525	0.233455	0.709693	0.139203	0.037827	-0.22589	0.093362	-0.17368	0.598546	0.065588	0.72907	0.124179
C20orf79	0.061872	-0.14521	0.207983	-0.43145	0.650547	0.290161	0.124006	0.0009	-0.04364	-0.32663	0.057788	-0.27599	0.38668	0.013363	0.646935	0.031687
ISM1	0.424305	-0.23998	0.146089	0.264328	0.001004	0.074833	0.278214	0.046932	0.405387	-0.05295	0.234369	-0.01188	0.997404	0.363364	0.939384	0.46876
WFDC6	-0.23803	-0.24218	-0.0119	-0.16986	0.074583	0.07213	0.930017	0.206523	-0.1396	-0.37119	0.086144	-0.28994	0.177411	0.005548	0.713165	0.025316
C20orf173	0.024441	-0.1312	0.159064	-0.26905	0.85679	0.335117	0.237267	0.042993	0.003808	-0.32497	0.161354	-0.29683	0.51002	0.013776	0.855176	0.022578
FAM65C	0.037025	-0.18297	0.280686	-0.00509	0.784522	0.177097	0.034438	0.97001	0.030353	-0.13521	0.109888	-0.13552	0.579354	0.185143	0.763802	0.184585
CST11	0.175246	-0.2439	0.223482	-0.24681	0.192273	0.070069	0.094705	0.064195	0.166653	-0.27266	0.219788	-0.29794	0.865842	0.033378	0.926569	0.022161
DEFB129	-0.02973	-0.13133	0.0205	-0.28311	0.826257	0.334656	0.879695	0.032844	0.117562	-0.35441	0.114088	-0.20812	0.779087	0.008454	0.76956	0.085045
ZNF280B	0.030877	-0.23517	0.199112	-0.2777	0.819644	0.081027	0.137578	0.036483	0.064586	-0.36455	0.177955	-0.26604	0.665103	0.006373	0.878905	0.036962
SIRPA	0.291454	-0.14148	0.098572	0.270184	0.029301	0.302849	0.469821	0.04402	0.305692	0.075359	0.147819	0.175502	0.980585	0.69067	0.833735	0.878321
PABPC5	0.273788	-0.18777	0.21562	-0.13574	0.039321	0.165794	0.107215	0.314053	0.365526	-0.59291	0.242259	-0.48849	0.993755	7.07E-06	0.945575	0.000286
SFRS12	-0.12305	0.236617	-0.06895	0.01027	0.361827	0.079128	0.610287	0.939559	0.069547	0.04017	-0.00293	-0.02777	0.67698	0.604518	0.492385	0.427314
C20orf151	-0.11256	-0.18311	0.163029	-0.16206	0.404474	0.176759	0.225626	0.228435	0.041945	-0.31691	0.136392	-0.17423	0.609024	0.01594	0.814174	0.123419
C20orf152	0.153821	-0.1862	0.234801	-0.05958	0.257684	0.173465	0.081525	0.662694	0.104872	-0.36035	0.11755	-0.17433	0.756038	0.006947	0.779063	0.123291
CRYAA	-0.01737	0.021268	0.185491	-0.19796	0.897947	0.876362	0.16715	0.139913	0.082644	-0.29038	0.152982	-0.34823	0.707477	0.025134	0.842136	0.008856
STK35	-0.26571	0.228691	-0.38111	-0.06071	0.045749	0.090015	0.003447	0.653714	-0.3441	0.539479	-0.45731	0.284966	0.0096	0.999945	0.000794	0.972543
R3HDML	-0.00812	-0.20942	0.226929	-0.24566	0.952203	0.121364	0.089594	0.065482	0.117245	-0.45896	0.245271	-0.36147	0.781122	0.000668	0.947806	0.00679
C5orf20	0.172593	0.005621	0.205249	-0.01381	0.199199	0.967203	0.125615	0.91879	0.074219	-0.12178	0.11862	-0.07767	0.688005	0.210061	0.781149	0.303959
ADPRH	0.10158	-0.2005	0.202065	0.357259	0.452129	0.138434	0.13172	0.006369	0.144087	-0.3432	0.175704	-0.12525	0.830299	0.00977	0.875852	0.203443
CRYAB	0.328616	-0.18338	0.134224	0.076689	0.013407	0.180192	0.324005	0.57427	0.488756	-0.41954	0.352458	-0.30901	0.999716	0.001852	0.991216	0.018328
CRYBA1	0.005834	-0.16883	0.279771	-0.21629	0.965645	0.213553	0.035055	0.106101	0.031254	-0.3488	0.149327	-0.25865	0.581679	0.008757	0.836218	0.041311

CRYBA2	-0.05951	-0.24677	0.23092	-0.14187	0.660118	0.06673	0.083947	0.292481	0.126956	-0.49525	0.173451	-0.34674	0.799761	0.000233	0.872746	0.009119
CRYBA4	-0.17775	-0.1375	0.156728	-0.17696	0.189978	0.316805	0.248691	0.192004	0.158661	-0.38528	0.2731	-0.3684	0.853868	0.004095	0.965248	0.005882
CRYBB1	0.073913	-0.14757	0.271286	-0.23108	0.584782	0.277774	0.041227	0.08373	0.092014	-0.31649	0.181254	-0.30216	0.728469	0.016061	0.883285	0.020628
CRYBB2	-0.05252	-0.17731	0.144358	-0.08239	0.698021	0.191103	0.284008	0.542352	0.057946	-0.33877	0.16168	-0.15848	0.648961	0.01064	0.855669	0.146407
CRYBB3	-0.12715	-0.0548	0.231487	-0.21729	0.345929	0.688317	0.083169	0.104461	0.017779	-0.28661	0.120703	-0.28417	0.546679	0.026734	0.78518	0.027813
CRYGA	0.094322	-0.16294	0.178693	0.033898	0.48524	0.230203	0.183537	0.802334	-0.11624	-0.31896	0.095289	-0.0974	0.22085	0.015364	0.733244	0.259809
CRYGB	0.030178	-0.00993	0.237963	-0.19736	0.823661	0.942102	0.074671	0.141155	0.050849	-0.16565	0.310224	-0.19972	0.631413	0.13562	0.980959	0.091635
PARP1	-0.07995	0.242798	-0.33812	0.364654	0.554418	0.071383	0.010097	0.00529	-0.24937	0.651675	-0.26773	0.496528	0.047334	1	0.037699	0.999776
CRYGC	0.090342	-0.09237	0.291645	-0.2997	0.507865	0.502397	0.029191	0.024833	0.107216	-0.34905	0.251263	-0.24631	0.760902	0.008714	0.952036	0.04946
CRYGD	0.059712	-0.2062	0.130923	-0.14525	0.661998	0.130953	0.336156	0.285479	0.173817	-0.27553	0.110853	-0.21984	0.876008	0.031914	0.765755	0.07105
MIB2	-0.02847	-0.14818	0.234416	-0.1203	0.833465	0.275746	0.079235	0.372728	-0.01801	-0.33524	0.063642	-0.24643	0.452711	0.011378	0.661051	0.049373
DUSP19	-0.03464	-0.03521	0.01172	-0.0837	0.798081	0.796687	0.931049	0.535888	-0.21848	-0.13712	0.040065	0.015375	0.072319	0.181749	0.603071	0.540389
SLC34A3	-0.14871	-0.0201	0.145285	-0.34441	0.269589	0.883082	0.280896	0.008704	-0.10508	-0.18615	-0.05037	-0.3462	0.246054	0.110419	0.372705	0.009914
ITLN2	0.019267	-0.03402	0.186722	-0.22604	0.886879	0.803426	0.1643	0.090896	0.040297	-0.22302	0.224991	-0.21784	0.60484	0.068136	0.931352	0.072929
RAB40A	-0.131	0.101257	0.081763	-0.28336	0.335877	0.461981	0.54913	0.034322	0.159835	-0.49522	0.076547	-0.46681	0.855669	0.000233	0.691384	0.000537
ASB15	-0.11772	-0.08916	-0.05771	-0.31689	0.383141	0.513479	0.669797	0.016317	0.113062	-0.32905	0.183565	-0.16346	0.770191	0.013655	0.883516	0.141657
ASB14	-0.11665	-0.01517	0.024528	-0.16657	0.387518	0.911616	0.856283	0.215559	-0.12424	-0.2369	0.066014	-0.15195	0.205356	0.056463	0.666709	0.156705
ASB12	0.113244	-0.10206	0.128976	-0.26109	0.405972	0.458433	0.343452	0.051947	-0.07782	-0.33757	0.215426	-0.25162	0.303599	0.010887	0.922371	0.045817
CRYGS	0.167535	0.184541	0.06473	0.177343	0.217133	0.17741	0.635521	0.191018	0.114259	0.143867	-0.17952	0.188315	0.772575	0.827121	0.121803	0.892295
CRYM	-0.13347	-0.10923	0.00507	0.072909	0.322286	0.422903	0.97014	0.589906	-0.44634	-0.02791	-0.19512	-0.16287	0.000938	0.426949	0.099494	0.13974
C10orf129	0.161766	-0.29583	0.192913	-0.34151	0.229292	0.026854	0.150508	0.009324	0.182481	-0.3526	0.240572	-0.35478	0.887589	0.008122	0.944293	0.007776
SAMD8	0.007121	0.407687	-0.33459	0.101109	0.958073	0.001816	0.010962	0.454241	-0.02374	0.458579	-0.19863	0.274408	0.43778	0.999325	0.095436	0.967518
CRYZ	0.2839	-0.05452	0.002054	0.254692	0.032342	0.689847	0.987899	0.055884	0.181104	-0.02893	0.05091	0.184109	0.885801	0.424319	0.630102	0.88968
LIPJ	0.042723	-0.04347	0.067702	-0.39677	0.752345	0.750424	0.616799	0.002246	-0.04131	-0.2214	0.075992	-0.28528	0.39259	0.06961	0.690102	0.027317
TRUB1	-0.00962	0.338088	-0.243	0.125955	0.943405	0.010819	0.068547	0.350511	-0.15557	0.515459	-0.22508	0.412071	0.150949	0.999877	0.068566	0.997783
PARP4	-0.16235	0.435671	-0.29165	0.212906	0.227581	0.000791	0.027717	0.111816	-0.14991	0.600597	-0.1955	0.46251	0.160012	0.999995	0.099043	0.999394
MPP7	-0.02739	0.267196	-0.28453	-0.13173	0.839723	0.046506	0.031942	0.328667	-0.22161	0.305728	-0.13609	0.014817	0.069421	0.980597	0.186353	0.538929
CS	-0.07642	0.230114	-0.1359	0.276071	0.575629	0.091002	0.317962	0.039442	-0.19673	0.667239	-0.40911	0.463349	0.095031	1	0.002632	0.999408
FRMPD2	-0.11158	-0.26095	0.036396	-0.23644	0.40861	0.052072	0.788096	0.076599	-0.11939	-0.30349	0.099095	-0.19965	0.217351	0.02135	0.738905	0.094274
VTI1A	0.052698	-0.01696	0.039263	0.263068	0.697042	0.901285	0.771837	0.048031	0.061932	0.117438	-0.2507	-0.03918	0.658684	0.781503	0.048353	0.398008
LOC143188	0.09182	-0.04519	0.211189	0.239191	0.496946	0.740881	0.114804	0.07314	0.248737	-0.21443	0.180953	-0.03776	0.952233	0.076217	0.882891	0.401625
MAPK14	0.014677	0.040476	-0.31521	0.153575	0.913711	0.767088	0.016928	0.254052	-0.07071	0.34777	-0.19776	0.171926	0.320255	0.991063	0.096425	0.873377
DYDC1	-0.17713	-0.03381	-0.05767	-0.20936	0.187455	0.804644	0.670032	0.118049	-0.25042	-0.24911	-0.0512	-0.18566	0.046622	0.047511	0.369181	0.108359
HECTD2	0.171195	-0.08988	0.09319	0.09065	0.207112	0.514033	0.494524	0.506414	0.509245	-0.3353	0.240382	-0.26089	0.999849	0.011366	0.944147	0.039957
FGFBP3	-0.10385	-0.01341	0.151433	-0.15296	0.442039	0.921868	0.260815	0.255993	0.280267	-0.33912	0.188576	-0.36335	0.97039	0.010569	0.892619	0.006533
C10orf82	0.154084	-0.148	0.233163	-0.20501	0.256861	0.280867	0.083737	0.129588	0.16873	-0.47594	0.256058	-0.2791	0.868845	0.000414	0.955226	0.030164
C10orf46	-0.08712	0.157541	-0.2308	0.066596	0.519311	0.246214	0.08412	0.622579	0.186846	0.244621	0.062797	0.090763	0.893133	0.949335	0.659027	0.725708
CSE1L	0.045542	0.295703	-0.32493	0.161379	0.736575	0.02692	0.013658	0.230422	-0.11318	0.538963	-0.26642	0.501756	0.226949	0.999944	0.038443	0.999809
SYT9	-0.04445	-0.09717	0.054043	-0.12961	0.742663	0.476185	0.689694	0.336608	0.006251	-0.24973	0.08716	-0.32231	0.516444	0.047089	0.715429	0.014463
LDLRAD3	0.21979	-0.34749	0.184026	0.173778	0.103603	0.008688	0.174562	0.200237	0.414434	-0.18504	0.273307	-0.18589	0.997675	0.11182	0.963679	0.11074
PSMA8	-0.00976	-0.09553	0.020185	-0.27328	0.942561	0.483681	0.881525	0.039702	-0.0475	-0.31987	0.018813	-0.28214	0.376959	0.015115	0.548811	0.028738
OR52B4	0.159749	0.00546	0.187127	-0.19625	0.235227	0.968141	0.16337	0.143439	0.235902	-0.12809	0.138891	-0.02767	0.940627	0.200871	0.815713	0.428417
CSF1	0.100748	-0.30032	0.123284	0.332912	0.460025	0.025893	0.365344	0.012174	0.207216	-0.1465	0.238738	0.141616	0.91648	0.165644	0.942874	0.826083
C11orf40	-0.0713	-0.11994	0.070708	-0.1465	0.601534	0.378579	0.604564	0.281301	0.153588	-0.50006	0.221581	-0.3604	0.843104	0.000235	0.925846	0.007509
OR52I2	-0.04706	-0.12547	0.051195	-0.17797	0.728151	0.356859	0.705282	0.185352	-0.0994	-0.26651	0.058773	-0.17986	0.255512	0.036698	0.649324	0.115836
OR51E1	0.000761	0.201533	0.066944	-0.41019	0.995516	0.136369	0.620759	0.00153	0.20865	-0.05233	0.05626	0.008285	0.915507	0.366408	0.641597	0.521538
XRRA1	-0.18314	-0.22346	0.010487	-0.14324	0.172701	0.097815	0.938286	0.287779	-0.13873	-0.11949	-0.03889	-0.05516	0.178923	0.214485	0.399886	0.357884
CSF1R	-0.17633	-0.1442	0.010669	0.509399	0.189497	0.289014	0.937221	5.19E-05	-0.11101	-0.01575	-0.05429	0.151919	0.231341	0.458629	0.361582	0.843242
UBQLNL	-0.1845	-0.05567	0.181726	-0.23901	0.169475	0.68362	0.176087	0.073365	-0.07249	-0.30323	0.087775	-0.3402	0.316066	0.020256	0.716797	0.010352
MUC15	-0.08051	0.067827	-0.15023	-0.27433	0.551614	0.619404	0.264662	0.038919	-0.19278	-0.11186	-0.01188	-0.1304	0.099648	0.229609	0.46913	0.193864

FAM76B	-0.02495	0.138583	-0.19846	0.090816	0.853835	0.308397	0.138889	0.501682	0.014039	0.268065	-0.2177	0.120615	0.536464	0.962493	0.077862	0.785011
SESN3	0.240321	0.033754	-0.21378	0.210767	0.071754	0.804935	0.11032	0.115548	0.316598	0.200737	0.047684	0.208807	0.98397	0.909496	0.622118	0.918134
PIWIL4	0.283453	-0.21252	0.293472	-0.00555	0.032627	0.115836	0.026718	0.967341	0.441512	-0.35309	0.241691	-0.22347	0.998935	0.008044	0.945145	0.067735
CSF2	0.029521	-0.16412	0.175495	-0.30504	0.827439	0.22678	0.191632	0.021042	0.016209	-0.33212	0.174498	-0.36661	0.542572	0.012066	0.874196	0.006106
FLJ32810	-0.09499	0.121883	-0.17083	-0.15625	0.482155	0.37086	0.203906	0.245776	-0.20365	0.113825	0.016994	0.155085	0.087317	0.774337	0.544112	0.848291
KBTBD3	0.158364	0.065541	-0.07183	0.046885	0.239364	0.631286	0.595453	0.729098	0.026031	0.062449	0.048667	0.126752	0.568172	0.659939	0.624557	0.79938
CWF19L2	0.105315	0.055356	-0.10615	0.226782	0.435589	0.685319	0.431928	0.089807	0.23359	-0.00898	-0.02671	-0.03415	0.940901	0.476377	0.430865	0.410871
KDEL2	0.224558	0.071423	-0.10598	0.233153	0.093086	0.600909	0.432689	0.080913	0.097343	0.470379	0.002688	0.5176	0.740073	0.999514	0.50699	0.999885
CSF2RB	-0.02574	-0.37875	0.14574	0.353559	0.849234	0.003996	0.279375	0.006977	-0.11939	-0.19687	0.074059	-0.12454	0.214675	0.094866	0.685626	0.204785
LAYN	0.045556	0.346505	-0.17548	-0.07099	0.736497	0.008894	0.191676	0.59974	-0.03841	0.27392	0.118492	0.271532	0.399978	0.967269	0.7809	0.96603
TTC36	0.015114	-0.04014	0.247469	-0.07284	0.911153	0.768993	0.063462	0.590242	0.068707	-0.24289	0.343849	-0.32284	0.673091	0.053954	0.988854	0.015271
CSF3	-0.11987	-0.24792	0.241955	0.121741	0.374447	0.065429	0.069787	0.36699	-0.18803	-0.13678	0.022612	-0.0984	0.105401	0.182363	0.558606	0.257656
C11orf84	0.004912	-0.089	0.221294	-0.13018	0.971073	0.514207	0.098067	0.33445	0.086153	-0.18183	0.098511	-0.21869	0.715422	0.113253	0.740149	0.072128
CSF3R	-0.10407	-0.53642	0.122337	-0.07951	0.449566	2.90E-05	0.373583	0.563915	-0.22723	-0.55949	-0.02314	-0.4366	0.066664	3.23E-05	0.44075	0.001357
PLEKHA7	-0.16848	0.206922	-0.09865	-0.23751	0.214518	0.129573	0.469472	0.077974	-0.23533	0.354323	-0.18938	0.093293	0.057702	0.992153	0.106389	0.731277
SPTY2D1	-0.03534	0.227634	-0.23713	-0.00987	0.79408	0.091553	0.075719	0.941927	-0.09039	0.31803	0.006272	0.160981	0.275109	0.984376	0.516307	0.857413
TMEM86A	-0.04705	-0.11085	0.100785	0.069029	0.728201	0.416024	0.455696	0.609896	0.127612	-0.25208	0.305798	-0.17509	0.800987	0.045506	0.979466	0.122244
OR10A5	0.204721	-0.17026	0.321794	-0.28866	0.126613	0.209637	0.014647	0.029433	0.257391	-0.21502	0.138195	-0.20906	0.956083	0.07803	0.814498	0.084061
OR2AG1	0.074571	0.091243	0.223682	-0.28865	0.581431	0.503626	0.094403	0.029439	0.057303	-0.27658	0.246646	-0.23029	0.647382	0.031392	0.948801	0.06182
DNHD1	-0.12971	-0.11096	0.101491	-0.29086	0.336224	0.415555	0.452528	0.028162	-0.26459	-0.37614	0.101369	-0.33984	0.037786	0.004994	0.7462	0.010425
PRICKLE1	0.38162	-0.11724	0.068334	0.343843	0.0034	0.389478	0.613507	0.008823	0.158001	0.291757	0.116962	0.368155	0.852848	0.97543	0.77791	0.994088
AMDHD1	0.223853	-0.06431	0.269598	-0.17979	0.094145	0.637745	0.042555	0.180828	0.16539	-0.27427	0.231176	-0.20847	0.863996	0.032552	0.936733	0.082217
SLC2A14	0.052456	-0.24823	0.072156	0.241663	0.698366	0.065087	0.59376	0.070135	0.007983	-0.37517	0.185245	-0.18503	0.520995	0.005098	0.888439	0.109149
CSH1	-0.07924	-0.12426	0.091016	-0.29555	0.557918	0.36154	0.500734	0.025615	0.079473	-0.12358	0.281425	-0.15819	0.700211	0.206605	0.969451	0.146852
OVOS2	0.036055	0.103188	0.059942	-0.2684	0.791923	0.453441	0.660775	0.045487	0.249931	-0.12559	0.185927	-0.14912	0.951119	0.205536	0.886547	0.164115
BCDIN3D	-0.34178	0.002884	-0.04172	-0.26504	0.009267	0.98317	0.757956	0.046321	-0.41528	0.17968	-0.36889	0.010286	0.002053	0.88393	0.006323	0.527047
ALG10B	-0.1666	-0.14418	-0.12185	0.157143	0.215492	0.289087	0.366543	0.243054	-0.1783	0.065278	-0.1797	0.147379	0.117901	0.66677	0.118771	0.835818
CSH2	0.07734	0.048076	0.217534	-0.17722	0.56744	0.724944	0.104058	0.187238	0.251732	-0.15338	-0.01226	-0.33383	0.952356	0.157233	0.468522	0.01251
GLIPR1L2	0.094099	-0.05849	0.055209	-0.16888	0.486281	0.668508	0.683351	0.209194	-0.12329	-0.16418	0.00545	-0.22971	0.207167	0.137793	0.514173	0.062301
FAM101A	-0.045	-0.10796	0.308404	-0.12721	0.741934	0.432692	0.02075	0.350146	0.153172	-0.28416	0.27632	-0.27204	0.842441	0.029259	0.965289	0.035318
ZNF664	-0.16951	-0.1835	0.115585	-0.21512	0.20747	0.175824	0.391893	0.108045	-0.18768	-0.0928	-0.13894	-0.1267	0.105827	0.269794	0.181348	0.200722
C12orf67	-0.01972	-0.05113	0.118639	-0.19256	0.884252	0.708214	0.379416	0.151269	0.174102	-0.34724	0.146435	-0.36963	0.876401	0.00903	0.831438	0.005733
LYRM5	0.086946	0.163817	-0.06504	0.182308	0.520154	0.227659	0.630742	0.174684	0.21334	0.170618	0.047744	0.198342	0.922715	0.871535	0.622268	0.906811
CSHL1	-0.01306	-0.12365	0.216917	-0.23687	0.923205	0.363898	0.105067	0.076055	0.027276	-0.48187	0.136291	-0.40152	0.571399	0.000348	0.813994	0.00284
CPNE8	-0.06954	0.108884	-0.21923	0.260961	0.607271	0.424399	0.101318	0.049916	-0.11122	0.506042	-0.21306	0.52393	0.230903	0.999833	0.079978	0.999907
TMEM120E	-0.11342	-0.22913	0.218995	-0.15645	0.40087	0.089389	0.101698	0.245169	-0.12069	-0.3158	0.024394	-0.31008	0.212162	0.01626	0.563188	0.01799
WDR66	-0.12065	-0.12198	0.011374	-0.1956	0.371318	0.370479	0.933078	0.144806	-0.15839	-0.28146	0.075396	-0.23954	0.146546	0.029052	0.688725	0.054426
GLT1D1	-0.19192	-0.39345	0.025478	-0.18564	0.152662	0.002701	0.850777	0.166793	-0.21623	-0.4557	-0.0134	-0.38394	0.076847	0.000828	0.465601	0.004611
BEST3	0.059683	-0.26088	0.175793	-0.41516	0.65921	0.052139	0.190869	0.001322	-0.00182	-0.49731	0.132169	-0.44449	0.495222	0.000219	0.806611	0.000985
E2F7	-0.2455	0.233917	-0.23118	-0.20299	0.06819	0.085639	0.086477	0.133504	-0.41752	0.497414	-0.24901	0.327252	0.001945	0.999782	0.049521	0.98679
CSK	-0.16264	0.217975	-0.10945	0.223009	0.226742	0.106558	0.417682	0.095425	-0.23403	0.552811	-0.17961	0.305843	0.058741	0.999966	0.118885	0.980636
KRT80	-0.27788	0.166214	-0.16857	-0.41288	0.038114	0.225199	0.214253	0.001565	-0.25534	0.283868	-0.3584	0.038011	0.045238	0.970603	0.007814	0.597893
C12orf55	-0.05228	-0.19602	0.093712	-0.17104	0.699348	0.147648	0.48808	0.203322	-0.05631	-0.32102	0.124195	-0.25332	0.355051	0.014805	0.791844	0.044692
A2ML1	-0.16344	0.130594	-0.19506	-0.30801	0.233157	0.346575	0.153533	0.022153	-0.08012	0.491399	-0.22354	0.148835	0.30043	0.999696	0.072332	0.835411
C12orf66	-0.05627	0.320619	-0.132	0.199362	0.67761	0.015989	0.327683	0.137074	-0.08555	0.412563	0.005663	0.224374	0.285942	0.997809	0.514725	0.933075
RPL14P1	0.104409	0.10441	-0.01676	-0.05468	0.439566	0.443793	0.901506	0.686212	0.248945	0.206395	-0.10001	-0.09309	0.952376	0.915618	0.256659	0.269166
CSN1S1	0.169612	-0.0936	0.088723	-0.33071	0.20719	0.492633	0.511629	0.011984	-0.01393	-0.28724	0.116807	-0.29601	0.463406	0.026463	0.777606	0.022891
C12orf60	-0.07384	0.03387	-0.07558	-0.27461	0.58516	0.80428	0.576314	0.038709	-0.34652	-0.16362	-0.00517	-0.15836	0.009159	0.138616	0.486545	0.146595
FBXL14	-0.13339	-0.24672	-0.0404	-0.24703	0.32257	0.06679	0.765397	0.063945	-0.00492	-0.33579	0.169735	-0.35212	0.487065	0.011261	0.867508	0.0082
CSN2	0.050349	0.070057	0.077805	-0.21409	0.709936	0.607905	0.565108	0.109798	0.272606	-0.23477	0.193209	-0.38758	0.964986	0.06029	0.895548	0.004263

RAD9B	-0.04396	-0.151	-0.12678	-0.1955	0.745431	0.266614	0.347332	0.145003	0.032164	-0.35237	0.160321	-0.19964	0.583068	0.0088	0.850732	0.094288
FAM109A	-0.00109	-0.10265	0.249939	-0.12186	0.993573	0.451561	0.060782	0.366529	0.184139	-0.26944	0.199952	-0.27809	0.889718	0.035088	0.906067	0.030652
CSN3	0.164757	0.035491	0.220698	-0.28784	0.224965	0.796988	0.102148	0.031462	-0.0224	-0.41295	0.248971	-0.39779	0.441267	0.002171	0.95045	0.003094
C13orf30	-0.11673	-0.08182	0.026199	-0.18013	0.391576	0.552616	0.848005	0.184037	-0.06487	-0.28593	0.142087	-0.20141	0.334221	0.027032	0.824089	0.08976
C13orf31	-0.07683	0.168058	-0.18242	0.331187	0.570007	0.215681	0.174426	0.011854	-0.2326	0.413411	-0.28981	0.320737	0.059907	0.997853	0.026737	0.985119
HNRNPA1L	-0.00049	0.368522	-0.21731	0.028423	0.99714	0.005195	0.104428	0.833766	-0.06344	0.514243	-0.18413	0.241084	0.339438	0.999849	0.115752	0.944685
FAM10A4	-0.00654	0.010916	-0.06907	-0.34228	0.961465	0.936359	0.609668	0.009157	0.072014	-0.30816	-0.01236	-0.37151	0.682821	0.018601	0.467876	0.00551
B3GALTL	0.112917	0.123269	-0.16513	0.087093	0.407336	0.369925	0.22391	0.523303	0.20779	0.212464	0.051148	0.222309	0.91708	0.921845	0.630687	0.931219
CSNK1A1	-0.10539	0.403326	-0.28963	0.108445	0.435256	0.002055	0.028869	0.421988	-0.08258	0.581648	-0.22011	0.407983	0.292672	0.999989	0.073129	0.997558
RDH12	-0.08762	0.079894	-0.01065	-0.03523	0.516894	0.55833	0.937305	0.794749	0.017388	-0.09525	0.091871	-0.13378	0.545657	0.264445	0.725819	0.187704
GSC	0.0616	-0.06065	0.251193	-0.16981	0.648964	0.657038	0.059458	0.206637	0.065027	-0.38049	0.069998	-0.26375	0.666165	0.004546	0.676131	0.038271
SERPINA12	0.049192	-0.07621	0.328291	-0.20973	0.716316	0.57668	0.012661	0.117396	0.131895	-0.50859	0.27327	-0.38596	0.808877	0.000154	0.965339	0.004034
PRIMA1	0.126854	-0.03915	0.288832	0.160407	0.347058	0.774506	0.029332	0.23328	0.335863	-0.42707	0.241883	-0.35429	0.988755	0.001538	0.94529	0.007852
MIPOL1	-0.02926	0.196553	-0.19265	0.033164	0.828941	0.146529	0.151071	0.806534	0.013037	0.123676	-0.05238	0.06446	0.534265	0.793572	0.36627	0.664801
CSNK1D	-0.09895	-0.04182	-0.10391	0.009695	0.472289	0.763976	0.450278	0.943992	-0.01444	0.216528	-0.07878	0.07167	0.462054	0.925821	0.303492	0.682009
C14orf50	-0.12326	-0.242	0.020845	-0.20157	0.360998	0.072347	0.877686	0.132692	-0.24637	-0.33276	-0.00621	-0.20873	0.049416	0.011924	0.483851	0.081948
SLC38A6	-0.04035	0.0912	-0.06948	-0.08659	0.765721	0.503828	0.607532	0.521881	0.041071	-0.10844	0.084884	-0.07328	0.606806	0.23657	0.710348	0.3142
CSNK1E	-0.04863	-0.0628	0.189037	-0.15307	0.719402	0.645645	0.159038	0.255636	0.002244	0.046255	0.048245	-0.03966	0.505904	0.619912	0.623509	0.396787
C14orf37	0.084359	-0.27528	0.15314	-0.21115	0.532691	0.040036	0.255418	0.114873	0.189082	-0.72039	0.299289	-0.38619	0.895897	8.29E-09	0.9771	0.004014
ABHD12B	-0.12361	-0.12146	-0.02674	-0.287	0.364086	0.37706	0.844929	0.031986	-0.1559	-0.27128	0.107911	-0.19804	0.150431	0.034102	0.759775	0.093527
PTGR2	-0.09583	0.108259	-0.22355	-0.12363	0.478245	0.427079	0.094602	0.359534	-0.22393	0.087747	-0.01598	-0.00062	0.067318	0.719	0.45851	0.498379
FAM161B	-0.1534	-0.36102	0.130829	-0.39144	0.254596	0.006266	0.33203	0.002604	-0.2306	-0.51438	0.161718	-0.28668	0.06156	0.000128	0.855726	0.026705
C14orf166f	-0.06755	-0.10824	0.06156	-0.21269	0.617611	0.42716	0.649177	0.112192	0.010697	-0.37535	0.044779	-0.29495	0.528124	0.005078	0.614888	0.023299
CSNK1G2	-0.24069	-0.07113	-0.02166	-0.05125	0.071305	0.602403	0.872962	0.70496	-0.24656	0.085787	-0.10363	-0.06604	0.049281	0.714599	0.249057	0.331393
ISM2	-0.06666	-0.10631	0.185647	-0.16135	0.622238	0.435484	0.166786	0.23051	0.064113	-0.34094	0.118048	-0.27797	0.663963	0.010205	0.780036	0.03071
C14orf145	-0.0506	-0.12619	-0.04399	-0.1502	0.708579	0.354049	0.74522	0.264777	-0.25746	-0.11171	0.032072	-0.09405	0.042049	0.229914	0.582833	0.267074
MDP-1	-0.3686	-0.17459	-0.28513	-0.1023	0.004783	0.198098	0.03157	0.448896	-0.22343	-0.18341	-0.1205	-0.20376	0.067767	0.111209	0.215203	0.087193
TTC7B	0.231694	-0.32216	0.329165	0.167067	0.085761	0.015461	0.013244	0.21844	0.379119	-0.45623	0.291418	-0.23121	0.995316	0.00072	0.973948	0.061047
LRFN5	0.168387	-0.14364	0.192283	-0.11701	0.210535	0.290911	0.151871	0.386062	0.068493	-0.26072	0.281213	-0.19391	0.674469	0.040059	0.969349	0.098312
CSNK1G3	-0.06454	0.2722	-0.25189	0.101724	0.633393	0.042406	0.05873	0.451484	0.050127	0.441045	-0.06749	0.354364	0.629614	0.998922	0.32979	0.992159
C15orf43	0.008342	-0.08432	0.162836	-0.08683	0.950891	0.536646	0.226185	0.520723	-0.11815	-0.34699	0.000576	-0.12626	0.217096	0.009074	0.501497	0.201551
CSNK2A1	-0.14751	0.347279	-0.28065	0.111099	0.273528	0.008733	0.034463	0.410652	0.183636	0.135398	-0.19206	0.103409	0.886381	0.81241	0.105843	0.750475
FAM148A	-0.1488	0.024645	0.119666	-0.11952	0.273725	0.856922	0.379693	0.380259	0.065972	-0.14234	0.145926	-0.25137	0.668438	0.172683	0.830588	0.045979
LYSMD4	0.024097	0.246936	-0.05174	-0.03651	0.858785	0.066543	0.70228	0.787438	-0.0839	0.103492	-0.12188	-0.00795	0.289657	0.753152	0.21257	0.479095
LOC145757	-0.07958	-0.01219	0.163273	-0.23285	0.556222	0.928961	0.224924	0.08132	0.129373	-0.28537	0.198265	-0.32775	0.804254	0.027276	0.904153	0.013089
FAM81A	-0.19078	-0.21184	0.003468	-0.42872	0.155162	0.117024	0.979574	0.000877	-0.27969	-0.43778	0.013422	-0.23994	0.029881	0.001173	0.534865	0.054121
GCOM1	0.130855	-0.10132	0.070668	-0.25232	0.336408	0.461721	0.604774	0.06064	0.134088	-0.24026	0.057856	-0.32649	0.812842	0.053882	0.647102	0.013398
LOC145814	0.051454	-0.14188	0.347943	-0.21897	0.703861	0.296925	0.007998	0.10174	0.231746	-0.48036	0.247831	-0.50373	0.939394	0.000364	0.949647	0.000179
C15orf61	-0.16616	0.298504	-0.1443	0.226201	0.216713	0.025441	0.284198	0.090655	-0.07577	0.259102	-0.0856	0.101997	0.308377	0.958964	0.28806	0.750004
C15orf32	0.083873	-0.19401	0.310797	-0.39308	0.538834	0.155809	0.019733	0.002728	0.107621	-0.41655	0.256913	-0.41363	0.761738	0.001991	0.955777	0.002136
HAPLN3	0.048722	-0.13117	0.122515	0.346408	0.718919	0.335255	0.363931	0.008299	0.193542	-0.0174	0.208589	-0.00628	0.898646	0.454839	0.912893	0.483668
MESP2	0.034742	-0.28508	0.251561	-0.14848	0.797519	0.033203	0.059074	0.270351	0.057074	-0.48216	0.086425	-0.34045	0.646821	0.000346	0.713793	0.010302
CSNK2A2	0.041753	0.248902	-0.33341	0.195222	0.757795	0.064337	0.011264	0.14559	0.073221	0.435137	-0.231	0.239317	0.685662	0.998745	0.063419	0.945404
TMCO5A	-0.14286	-0.0059	-0.06754	-0.31405	0.289085	0.965591	0.617629	0.017358	-0.35913	-0.19146	0.121208	-0.05546	0.007121	0.10122	0.786152	0.357165
SPATA8	-0.11222	-0.08761	0.076707	-0.32332	0.405925	0.520819	0.570624	0.014157	-0.01959	-0.34445	0.263792	-0.27199	0.448598	0.009535	0.960021	0.033727
NRG4	-0.14758	-0.01767	-0.00739	-0.39779	0.273277	0.897142	0.956506	0.002182	-0.22369	-0.29468	0.085732	-0.22105	0.067536	0.023404	0.712246	0.06993
ADRA1D	-0.02618	-0.04353	0.237828	-0.124	0.846742	0.750054	0.074841	0.358087	0.063302	-0.20307	0.047668	-0.27569	0.660236	0.090461	0.62068	0.033397
CSNK2B	0.073496	0.131747	-0.25449	0.050042	0.586903	0.333095	0.056086	0.711629	-0.09613	0.488887	-0.16023	0.293047	0.262554	0.999717	0.146528	0.975949
ZSCAN29	0.060415	0.295326	-0.16681	0.110822	0.658264	0.028599	0.219167	0.41615	0.061548	0.41804	-0.02709	0.226793	0.657752	0.998079	0.429897	0.9352
TTBK2	-0.09514	-0.23529	-0.0729	-0.23054	0.48145	0.080873	0.58996	0.084475	-0.11342	-0.45797	0.109495	-0.28563	0.226466	0.000686	0.763005	0.027165

CDAN1	0.068667	-0.10006	0.231178	-0.14288	0.611775	0.463118	0.083593	0.289013	-0.10931	-0.15418	0.035905	-0.14042	0.237374	0.155946	0.591492	0.178784
SLC38A8	-0.15857	-0.10671	0.026715	-0.26148	0.243117	0.433776	0.845048	0.051582	0.09763	-0.31112	0.156814	-0.24069	0.740692	0.017663	0.848195	0.053557
VWA3A	-0.1259	-0.20414	0.067217	-0.25525	0.350739	0.131272	0.619335	0.055332	-0.10479	-0.34554	0.115758	-0.29386	0.244133	0.009336	0.775543	0.023726
OTOA	0.040523	-0.20507	0.239488	-0.25003	0.764723	0.129476	0.072774	0.060682	0.250192	-0.44491	0.240053	-0.39809	0.953226	0.000974	0.943894	0.003073
ZFP90	-0.14666	0.084182	-0.0273	-0.1284	0.27633	0.537337	0.840263	0.341152	-0.1701	-0.0988	0.132626	0.041729	0.129193	0.256805	0.807437	0.608477
VCAN	0.193591	-0.21567	0.011228	0.350372	0.149051	0.110409	0.933938	0.007542	0.1283	-0.2213	0.19321	0.003776	0.802267	0.069701	0.89825	0.509934
RLTPR	-0.06783	-0.22873	0.199063	0.152952	0.616111	0.089964	0.137678	0.256009	0.050353	-0.26761	0.137999	-0.09704	0.630178	0.036084	0.817006	0.260573
KCTD19	0.042929	-0.09224	0.229234	-0.28338	0.751187	0.498947	0.086298	0.03267	-0.09341	-0.42327	0.107504	-0.2886	0.268471	0.00169	0.758942	0.02588
CMTM4	-0.1719	0.15533	-0.08235	-0.31166	0.201049	0.252988	0.542553	0.018278	-0.12663	-0.01064	-0.10296	-0.162	0.203579	0.472354	0.253001	0.143848
CMTM2	-0.04282	-0.32345	0.222776	-0.29275	0.751789	0.015031	0.09578	0.02711	0.094761	-0.6256	0.179978	-0.58028	0.734481	1.67E-06	0.881604	1.18E-05
BEAN	0.009977	-0.23004	0.194149	-0.22477	0.941281	0.088082	0.147861	0.092776	0.124618	-0.40159	0.170137	-0.32274	0.795361	0.002835	0.868081	0.01435
TEKT5	-0.09883	0.051903	0.203769	-0.27255	0.464505	0.704016	0.128426	0.040251	-0.00876	-0.47534	0.075568	-0.3586	0.476949	0.000421	0.689123	0.007199
NCAN	0.044839	-0.14139	0.207832	-0.18034	0.740501	0.298606	0.120823	0.179458	0.059461	-0.28511	0.092	-0.2558	0.652667	0.027392	0.726102	0.043093
RNF151	0.073653	-0.01525	0.303828	-0.07191	0.586104	0.911205	0.021582	0.595033	0.313314	-0.35139	0.252942	-0.29647	0.981947	0.008969	0.951199	0.023992
C16orf11	-0.00432	-0.16679	0.24496	-0.19941	0.974541	0.21922	0.06628	0.136974	0.070507	-0.41104	0.16474	-0.31342	0.679257	0.002272	0.860245	0.016962
FBXL16	0.038098	-0.10218	0.286257	-0.21041	0.778431	0.453616	0.030873	0.116183	0.134608	-0.33726	0.197136	-0.3072	0.813776	0.010952	0.902856	0.018914
LOC146336	0.128306	-0.19404	0.32912	-0.26163	0.341518	0.151866	0.012425	0.049311	0.331969	-0.63099	0.310125	-0.56389	0.987899	1.29E-06	0.980926	2.24E-05
FLJ25404	0.003088	-0.1459	0.265781	-0.20339	0.981809	0.283291	0.04569	0.129151	0.204462	-0.34175	0.234964	-0.30941	0.913561	0.010049	0.939868	0.018199
GSG1L	0.035652	-0.15369	0.223082	-0.2667	0.792328	0.258106	0.095314	0.044919	-0.02844	-0.24022	0.066744	-0.27789	0.425591	0.053909	0.668443	0.030747
CSPG4	0.315123	-0.13238	0.190079	0.074187	0.018001	0.335329	0.160566	0.586858	0.509781	-0.12424	0.30518	-0.07337	0.999826	0.208065	0.978016	0.31598
LOC146425	-0.01311	-0.07812	0.08694	-0.18218	0.922906	0.567131	0.520185	0.175	0.194906	-0.39539	0.208192	-0.37622	0.900258	0.003591	0.912473	0.005431
IL34	0.154105	-0.23902	0.232507	0.153367	0.252399	0.076036	0.081781	0.254703	0.039866	-0.13998	0.09563	-0.01825	0.603743	0.176743	0.733978	0.452101
ZNF597	-0.1763	0.187945	-0.17384	0.12655	0.189577	0.165404	0.195915	0.348224	-0.04934	0.155368	-0.09927	0.064985	0.372351	0.848738	0.258247	0.666066
CCDC64B	-0.21204	-0.06959	0.002706	-0.26045	0.113312	0.610326	0.984064	0.050384	-0.13673	-0.16813	-0.0685	-0.28785	0.182444	0.132017	0.3274	0.026199
TMED6	-0.05948	0.022349	0.13087	-0.01641	0.660277	0.870132	0.331878	0.903564	-0.07486	0.006449	0.022728	0.019803	0.312524	0.516769	0.558213	0.551367
CSRP1	0.452714	-0.22408	0.216877	0.11518	0.000406	0.096865	0.105134	0.393565	0.442059	-0.27577	0.334031	-0.16037	0.99895	0.031796	0.987537	0.143517
FLJ30679	0.007265	-0.04444	0.068795	-0.11516	0.957226	0.745029	0.611112	0.393658	0.011295	-0.10656	0.108921	-0.21521	0.529695	0.240455	0.761838	0.075448
ZNF785	-0.03479	-0.08872	0.212907	-0.0913	0.797255	0.515536	0.111814	0.499372	0.074468	-0.11619	0.096041	-0.06433	0.688589	0.220958	0.734862	0.335506
ZNF688	-0.26937	-0.0618	0.124562	-0.24501	0.042741	0.650924	0.355908	0.066222	-0.15935	-0.31756	0.111775	-0.21825	0.145077	0.015756	0.767612	0.072535
PRSS36	0.035839	-0.14233	0.253002	-0.19611	0.791264	0.295369	0.057587	0.143732	0.112615	-0.37871	0.261818	-0.28603	0.771908	0.004725	0.958838	0.026987
C16orf89	-0.06604	-0.20908	0.164483	-0.35736	0.625505	0.121986	0.221459	0.006353	-0.14176	-0.40382	0.056705	-0.34989	0.173672	0.002692	0.644302	0.008571
C16orf71	-0.202	-0.3371	0.06872	-0.28706	0.131841	0.011067	0.6115	0.030388	-0.23106	-0.40868	0.077552	-0.28027	0.061172	0.002403	0.693698	0.029609
CSRP2	0.033478	-0.07112	0.056972	0.020524	0.804735	0.602438	0.673799	0.879554	0.03128	-0.04202	0.143097	-0.13257	0.581747	0.390797	0.825813	0.189892
MGAT5B	0.146297	-0.15696	0.377828	-0.26642	0.277521	0.247988	0.00376	0.045153	0.091193	-0.3405	0.283172	-0.35888	0.726659	0.010294	0.970279	0.007157
TOM1L2	0.039963	0.200352	0.00483	-0.20842	0.769959	0.142474	0.971816	0.123201	0.012417	0.469522	-0.27633	0.155095	0.532637	0.999502	0.033069	0.848308
C17orf56	-0.02194	-0.1726	0.166403	-0.06778	0.871325	0.203345	0.216038	0.616376	0.13825	-0.24085	0.121499	-0.15471	0.820235	0.05344	0.786709	0.152301
B3GNTL1	-0.29168	-0.28238	0.119284	-0.16577	0.027704	0.034976	0.376812	0.217815	-0.3529	-0.17669	-0.2189	-0.25217	0.008073	0.120068	0.074268	0.04545
hCG_1776c	-0.15139	0.062474	0.179171	-0.3332	0.260951	0.647375	0.182347	0.011319	0.122412	-0.52037	0.297247	-0.34472	0.791158	0.000105	0.976314	0.009485
CD300LF	0.048861	-0.3693	0.383217	-0.05277	0.718148	0.005094	0.003257	0.69667	0.072123	-0.34224	0.147946	-0.13251	0.681113	0.010691	0.831069	0.192775
C17orf77	0.033516	-0.0914	0.117434	-0.02055	0.806284	0.506903	0.388707	0.880493	0.094647	-0.46471	0.345021	-0.44054	0.734234	0.00057	0.98986	0.001092
DNAH2	-0.13533	-0.2387	0.064864	-0.2671	0.315515	0.076447	0.631676	0.044585	-0.16336	-0.33409	0.064912	-0.29623	0.139017	0.011628	0.664086	0.022807
RTN4RL1	-0.09397	-0.16679	0.09159	-0.14786	0.486864	0.219205	0.498027	0.272373	0.041787	-0.32008	-0.01716	-0.26035	0.608623	0.015059	0.455464	0.04028
EFCAB3	0.058771	-0.13537	0.23526	-0.32662	0.664103	0.319853	0.07813	0.013149	0.097379	-0.31631	0.125041	-0.32978	0.737733	0.017137	0.790665	0.013474
SLC25A10	-0.15834	0.149239	-0.06197	-0.18469	0.239427	0.272301	0.647011	0.169016	-0.19499	0.326828	-0.19709	0.063825	0.097043	0.986686	0.0972	0.663269
SLC47A2	-0.14882	-0.03667	0.154563	-0.37848	0.269217	0.788432	0.250973	0.003696	0.117414	-0.2097	0.149775	-0.26747	0.781456	0.080947	0.83695	0.036162
CDRT15	0.031642	0.125035	0.154964	-0.40995	0.815253	0.358525	0.249731	0.001541	0.006695	-0.04303	0.246393	-0.17054	0.517611	0.388239	0.948619	0.128575
WDR16	-0.09804	-0.19519	0.039748	-0.23227	0.468134	0.149416	0.769094	0.082108	-0.1639	-0.3078	0.076197	-0.22258	0.138203	0.018718	0.690577	0.068539
CCDC42	0.046018	-0.1418	0.198975	-0.22374	0.733923	0.297176	0.137855	0.094318	0.062295	-0.22874	0.242969	-0.34236	0.659564	0.063128	0.946107	0.009931
PIK3R6	-0.15571	-0.08673	0.213734	0.005849	0.247423	0.525044	0.110396	0.965557	0.000856	-0.15767	0.058716	-0.25524	0.502252	0.147671	0.649188	0.043452
ODF4	0.071691	-0.00216	0.229523	-0.26189	0.59615	0.987393	0.085892	0.049082	0.010702	-0.35025	-0.01492	-0.26972	0.528139	0.008511	0.46126	0.034933

C17orf50	0.023892	-0.21217	0.30575	-0.1216	0.859973	0.116444	0.020728	0.367543	0.123584	-0.34251	0.104894	-0.3199	0.793397	0.009901	0.753564	0.015108
SLFN13	-0.16004	-0.08962	-0.02899	-0.1834	0.234379	0.511286	0.830517	0.172075	-0.29804	-0.11899	-0.11286	-0.11009	0.022122	0.215449	0.230218	0.233198
AMAC1	0.097815	-0.22155	0.329205	-0.1941	0.469148	0.100799	0.012401	0.147973	0.26421	-0.3327	0.253824	-0.21841	0.961995	0.011936	0.953761	0.072392
UNC45B	0.329852	-0.42389	0.337664	-0.23622	0.01222	0.001132	0.010206	0.076891	0.233729	-0.61925	0.230233	-0.3517	0.93886	2.88E-06	0.933646	0.008914
CD300LG	0.13225	-0.15323	0.209765	-0.2066	0.32676	0.259536	0.117329	0.123097	0.173387	-0.32629	0.286433	-0.31657	0.875413	0.013446	0.971776	0.016038
CST1	-0.08753	-0.15922	0.218975	-0.04193	0.521224	0.24559	0.104923	0.758953	0.048154	-0.42748	0.102917	-0.45881	0.623284	0.001701	0.746907	0.000762
KIF18B	0.014921	-0.07314	0.126999	-0.08071	0.91228	0.592174	0.346499	0.550626	0.008987	0.020003	0.048968	-0.02519	0.523633	0.552485	0.625303	0.434023
RUNDC1	-0.15131	0.014652	-0.06479	-0.14599	0.261206	0.914649	0.632074	0.278551	-0.27725	0.120142	-0.09488	-0.00518	0.031064	0.786782	0.267638	0.486382
EME1	-0.13533	-0.10938	0.128916	-0.2009	0.315535	0.422282	0.339209	0.134001	0.018709	0.160115	0.024565	0.080897	0.549108	0.856096	0.563629	0.703485
ADRA1B	-0.08082	-0.21006	0.264566	-0.09343	0.550092	0.120215	0.046727	0.489393	0.025181	-0.49209	0.181977	-0.34036	0.565966	0.000257	0.884231	0.010321
CST2	-0.084	-0.38749	0.1115	0.023505	0.53444	0.003173	0.408955	0.862221	-0.00153	-0.4289	0.21901	-0.20709	0.495981	0.001469	0.925832	0.083657
TMEM199	-0.12354	0.205402	-0.33189	0.289038	0.364341	0.132478	0.012459	0.030732	-0.16322	0.479165	-0.42711	0.275123	0.139222	0.999623	0.001716	0.96788
PROCA1	-0.17442	-0.31493	0.12783	-0.30412	0.194413	0.018074	0.343329	0.021449	0.04996	-0.52035	0.220539	-0.38722	0.629195	0.000105	0.927274	0.003923
DHRS13	-0.06899	-0.05832	0.072079	0.212547	0.610116	0.669435	0.594154	0.112436	0.139938	0.138576	-0.12229	0.102859	0.823183	0.820806	0.211771	0.751822
KCTD11	-0.25072	-0.04016	-0.20428	-0.2573	0.059951	0.768845	0.127457	0.053336	-0.33697	0.159089	-0.11889	0.05188	0.011012	0.854526	0.218329	0.633981
C17orf69	-0.00664	-2.64E-05	-0.11042	-0.23201	0.960915	0.999846	0.413534	0.082462	0.187204	0.035852	0.083406	-0.1541	0.893578	0.593496	0.707025	0.153271
CST3	0.245473	-0.2118	0.255604	0.168605	0.065696	0.117101	0.054981	0.209937	0.395549	-0.23183	0.241803	-0.18162	0.996744	0.06054	0.945231	0.113521
NOTUM	0.095205	-0.27192	0.331153	-0.08826	0.481146	0.042624	0.011863	0.513842	0.005693	-0.38253	0.190815	-0.21987	0.514803	0.004752	0.892646	0.073356
TMC8	-0.04457	-0.309	0.18998	0.362146	0.742025	0.02049	0.156931	0.005637	-0.01574	-0.28533	0.142337	-0.0922	0.458646	0.027295	0.824518	0.271131
LRRC37B2	-0.03578	0.15096	-0.14497	-0.17309	0.791582	0.266748	0.281959	0.197882	-0.16448	-0.01127	0.096278	-0.1194	0.137353	0.470369	0.735373	0.214668
WIPF2	0.042934	0.09717	0.126127	-0.22023	0.753376	0.480343	0.354307	0.102889	-0.1047	0.460149	-0.1553	0.21263	0.244321	0.999354	0.154186	0.92201
KRT25	0.155916	-0.04717	0.169421	-0.28339	0.246798	0.729938	0.207707	0.03267	0.00508	-0.21553	0.133945	-0.26713	0.513364	0.075143	0.809813	0.036353
TMEM99	0.099344	0.328893	-0.14178	-0.21743	0.462194	0.013324	0.292772	0.104232	-0.06134	0.342759	-0.21834	0.18795	0.342752	0.990146	0.074804	0.894503
SCGB1C1	-0.0621	-0.0161	0.157716	-0.21412	0.646283	0.906263	0.241318	0.109736	0.108288	-0.45519	0.164665	-0.39587	0.763111	0.00074	0.860134	0.003232
CST4	-0.17469	-0.26813	0.189134	0.015509	0.193702	0.045718	0.15882	0.90884	-0.06714	-0.27583	-0.05817	-0.11458	0.328769	0.031767	0.352141	0.224164
CST5	0.018649	-0.15639	0.174996	-0.14671	0.890485	0.249733	0.192917	0.276142	0.060795	-0.34404	0.173339	-0.26055	0.655921	0.009612	0.872589	0.040156
STARD6	0.057513	-0.06853	0.028771	-0.26809	0.670874	0.615753	0.831758	0.043773	0.001341	-0.25129	0.143807	-0.18563	0.503529	0.046035	0.827019	0.108387
C18orf25	-0.09881	0.237163	-0.28458	0.178994	0.464636	0.078417	0.031914	0.182786	-0.07216	0.338665	-0.11671	0.253196	0.316836	0.989339	0.222589	0.955226
C18orf23	0.034322	-0.14945	0.020478	0.001927	0.799913	0.271615	0.879822	0.988648	0.027484	-0.08252	-0.04555	-0.02431	0.571939	0.292809	0.383198	0.436292
CCBE1	0.312459	-0.22117	0.136897	0.055683	0.017965	0.101397	0.309896	0.680778	0.16592	-0.27002	0.076411	-0.09715	0.864772	0.034775	0.691071	0.260342
CBLN2	0.007726	-0.08948	0.199056	-0.13121	0.954934	0.515907	0.141355	0.335088	-0.1463	-0.25478	-0.08128	-0.2586	0.165972	0.043746	0.297781	0.041344
CST6	-0.11703	-0.16883	-0.03298	-0.36728	0.385975	0.213546	0.807609	0.004948	-0.07381	-0.24874	-0.02471	-0.3535	0.31295	0.047763	0.436009	0.007977
MCART2	0.112056	-0.04237	0.178383	-0.16487	0.410945	0.758745	0.188387	0.224637	0.03311	-0.12788	0.10119	-0.1691	0.586457	0.198517	0.745823	0.13062
DSG4	-0.00895	-0.19921	0.1637	-0.15692	0.947323	0.141042	0.223698	0.243726	-0.01967	-0.40875	0.235648	-0.34881	0.448394	0.002399	0.940422	0.008757
C18orf16	-0.02885	-0.15196	0.075343	-0.27731	0.831294	0.263541	0.577514	0.036762	-0.04622	-0.11935	-0.00014	-0.40475	0.380185	0.214763	0.499638	0.002634
ANKRD29	0.264942	-0.26804	0.177651	0.234726	0.046404	0.04579	0.186145	0.078828	0.189609	-0.18877	0.208001	-0.04738	0.896541	0.104491	0.914828	0.377256
APCDD1	0.237028	0.050619	0.000886	0.099416	0.075853	0.711013	0.99478	0.461869	0.090419	0.356358	-0.02059	0.341742	0.724947	0.992468	0.44661	0.98995
CSTA	0.014067	0.406082	-0.21926	-0.19816	0.918042	0.002097	0.104455	0.143182	-0.13359	0.6169	-0.34008	0.271101	0.18806	0.999998	0.011135	0.965802
C18orf18	-0.1529	-0.16591	-0.13758	0.017145	0.256166	0.221701	0.307449	0.89927	-0.0261	-0.29005	-0.1942	-0.16968	0.431648	0.025272	0.10057	0.129799
CSTB	-0.12653	0.418031	-0.24348	-0.0958	0.352755	0.001494	0.070567	0.482468	-0.31168	0.565292	-0.29233	0.277629	0.017491	0.999979	0.025672	0.969123
LOC147645	0.179734	-0.08843	0.294481	-0.26605	0.185008	0.520881	0.027588	0.047493	0.160485	-0.10694	0.107735	-0.16462	0.853857	0.24221	0.759417	0.139938
NCRNA000	0.049809	-0.20744	0.30297	0.025786	0.712911	0.125004	0.021973	0.848997	0.308976	-0.37214	0.22938	-0.3165	0.981661	0.005437	0.935205	0.01606
ZNF480	-0.11429	0.356984	-0.19796	0.060188	0.397249	0.006918	0.139919	0.656504	-0.07444	0.479898	-0.1223	0.375016	0.311487	0.999631	0.211762	0.994885
ZNF534	0.076042	-0.05989	-0.00706	-0.19076	0.573982	0.661038	0.958446	0.155213	0.056015	-0.37459	0.219661	-0.17108	0.644214	0.005162	0.926448	0.127814
ZNF578	0.044527	-0.1811	0.199358	0.097434	0.744536	0.185769	0.140739	0.474987	-0.01204	-0.13833	0.2085	-0.08231	0.468362	0.17962	0.915351	0.293277
C19orf18	-0.1507	-0.13446	-0.04966	-0.2583	0.267584	0.327721	0.716249	0.054594	-0.07843	-0.24196	-0.0896	-0.1747	0.302186	0.052612	0.279163	0.122773
ZNF418	0.042882	0.047283	0.016528	-0.07476	0.751451	0.72931	0.902877	0.580495	0.153266	-0.30392	0.028406	-0.2934	0.845404	0.020017	0.573476	0.023912
ZNF417	0.174399	-0.02929	0.079786	0.088619	0.198609	0.831898	0.558866	0.516022	0.236462	-0.01255	-0.05944	-0.08105	0.943193	0.46702	0.349054	0.296156
ZNF548	0.126145	-0.02131	-0.02576	0.053875	0.34978	0.87612	0.849165	0.690611	0.011749	-0.10717	0.002847	-0.00042	0.530886	0.239186	0.507403	0.4989
FLJ40125	-0.09426	0.020014	0.199421	-0.17474	0.485548	0.8836	0.136957	0.193574	-0.02588	-0.38003	0.210968	-0.26226	0.433006	0.005012	0.91538	0.040893

CSTF1	0.033946	0.217894	-0.27556	0.322829	0.802061	0.106692	0.038013	0.014314	-0.01025	0.391048	-0.35159	0.159539	0.473051	0.996397	0.008935	0.855216
KLC3	-0.06797	-0.15931	0.127256	-0.17309	0.61538	0.240891	0.345517	0.197896	0.019917	-0.26828	0.064798	-0.23371	0.552262	0.035717	0.663813	0.059003
ZNF285B	0.072369	-0.01854	0.360608	-0.26734	0.596084	0.89314	0.00633	0.046384	-0.11938	-0.06957	-0.14015	-0.08171	0.217384	0.324866	0.182104	0.296818
LYPD4	0.081915	-0.25944	0.200479	-0.20906	0.548386	0.055782	0.138473	0.12203	0.147063	-0.48574	0.267136	-0.37135	0.835294	0.000311	0.961966	0.005529
LOC147727	0.111339	0.126369	-0.02683	0.114127	0.409635	0.353379	0.842976	0.397936	-0.08928	0.150656	-0.10569	0.136435	0.277587	0.841199	0.244794	0.817034
ZNF560	0.061404	-0.14583	0.139776	-0.26862	0.65001	0.283521	0.299732	0.043343	0.07454	-0.44534	0.049274	-0.40631	0.688755	0.000963	0.626058	0.00254
TMEM190	-0.20733	-0.31357	0.039246	-0.22215	0.121747	0.018609	0.771933	0.096739	-0.32848	-0.29085	-0.06928	-0.22488	0.012914	0.024943	0.325568	0.066479
HIPK4	-0.0129	-0.01945	0.190778	-0.17295	0.924119	0.886835	0.155165	0.198256	0.150708	-0.30493	0.187675	-0.32292	0.841283	0.019671	0.891499	0.014303
TMC4	-0.29148	-0.01814	-0.10053	-0.16011	0.030839	0.896438	0.465242	0.242939	-0.2948	0.004714	-0.13382	-0.10284	0.024657	0.512258	0.193243	0.250713
CSTF2	-0.22594	0.440536	-0.181	0.065431	0.094064	0.000763	0.181888	0.631858	-0.26998	0.748833	-0.29482	0.438501	0.034797	1	0.024649	0.998849
LOC147804	0.026378	0.140385	0.102228	0.002069	0.845574	0.302085	0.449236	0.987814	-0.01974	0.054929	-0.15431	0.013038	0.448195	0.641537	0.155753	0.534267
ZNF524	-0.00394	-0.12446	0.242585	-0.17141	0.976812	0.360754	0.069039	0.202342	0.127604	-0.38403	0.176004	-0.35289	0.800973	0.004209	0.876263	0.008075
ZNF784	-0.01842	-0.21865	0.181265	-0.19382	0.891805	0.10545	0.177205	0.148555	-0.06121	-0.2052	-0.01119	-0.23626	0.343067	0.085652	0.47093	0.056966
ZNF563	0.054486	-0.01394	-0.05122	-0.29735	0.687282	0.918758	0.705154	0.024686	0.15693	-0.32086	0.163275	-0.29429	0.851186	0.014848	0.858066	0.023558
SPC24	-0.09748	0.021186	0.005506	-0.06982	0.470696	0.876835	0.967574	0.605784	-0.07011	0.166821	0.02457	0.147809	0.321694	0.866088	0.563642	0.836531
CCDC155	0.038194	-0.28314	0.22757	-0.1395	0.777886	0.03447	0.088667	0.300686	0.140205	-0.40236	0.122925	-0.28505	0.823645	0.002785	0.789434	0.027422
CSTF3	-0.11379	0.271487	-0.19395	0.027458	0.399354	0.042972	0.148289	0.839329	-0.13471	0.378719	-0.10454	0.348458	0.186049	0.995276	0.247175	0.991183
DACT3	0.137154	-0.10035	0.274101	-0.14626	0.30898	0.461826	0.039087	0.277641	0.2643	-0.48412	0.194679	-0.32307	0.962047	0.000326	0.899991	0.014263
SIX5	0.027878	-0.21226	0.309917	-0.20906	0.836906	0.116281	0.018973	0.118594	0.089302	-0.30977	0.107547	-0.29849	0.722468	0.018086	0.759031	0.021957
IGFL2	-0.01739	-0.13318	0.182083	-0.29304	0.897821	0.327816	0.175226	0.026952	0.209803	-0.25901	0.19687	-0.28999	0.919157	0.041095	0.902549	0.025296
ZNF420	0.005043	0.232965	-0.23478	0.03888	0.970302	0.084007	0.078754	0.774002	0.054226	0.129122	0.023176	0.153475	0.639799	0.803789	0.560057	0.845738
ZNF565	0.148378	0.323946	-0.04505	0.001641	0.27067	0.014868	0.739326	0.990333	-0.03998	0.104622	-0.20819	0.172159	0.395967	0.755518	0.084971	0.873703
NLRP4	0.030861	-0.18885	0.138421	-0.27337	0.819734	0.163348	0.304488	0.039631	0.025561	-0.27835	0.242081	-0.28442	0.566952	0.030525	0.94544	0.027702
ZNF582	-0.04736	-0.01208	-0.02265	-0.04649	0.726472	0.929595	0.867171	0.731276	-0.10245	-0.12911	-0.05897	-0.098	0.24905	0.19623	0.350206	0.258502
ZNF583	0.077132	0.079839	-0.05524	0.185081	0.568487	0.558603	0.683188	0.168106	0.313346	-0.16625	0.222015	0.001745	0.983016	0.134746	0.928645	0.504592
FAM98C	-0.19093	-0.08737	0.041759	-0.22671	0.154831	0.52196	0.757762	0.089908	-0.17371	-0.05886	-0.13645	-0.10365	0.124134	0.348797	0.185721	0.246517
CAPN12	0.043971	0.010145	0.188351	-0.22485	0.745348	0.940845	0.160584	0.092651	0.063479	-0.12348	0.215363	-0.02028	0.662433	0.206797	0.922309	0.4468
DPY19L3	0.162762	-0.03834	0.08888	0.113049	0.226398	0.779048	0.51088	0.402434	0.368671	-0.23983	0.048105	-0.20202	0.994151	0.054207	0.623164	0.089086
ADRA1A	0.078742	-0.24176	-0.00498	-0.12686	0.564035	0.072633	0.970968	0.351513	0.255492	-0.30086	0.08969	-0.30303	0.956709	0.021089	0.721033	0.020324
LOC148003	0.165087	-0.11456	0.108417	-0.32538	0.224025	0.404951	0.4264	0.014405	0.100227	-0.23933	0.046693	-0.14153	0.743791	0.056666	0.618283	0.176873
TTC9B	-0.20223	-0.16482	0.05695	-0.25142	0.134998	0.224798	0.676753	0.061603	0.072954	-0.28123	0.204669	-0.31344	0.685034	0.029157	0.911275	0.016955
TICAM1	0.006156	-0.0764	0.173053	-0.03189	0.964082	0.579301	0.20215	0.815505	-0.03139	-0.11697	0.055157	-0.08909	0.417981	0.21942	0.640528	0.27801
C19orf23	-0.14197	-0.1847	0.016966	-0.25954	0.292129	0.172961	0.900316	0.05122	-0.01579	-0.15379	0.11543	-0.17316	0.458524	0.153761	0.774895	0.124906
ZNRF4	0.017686	-0.16221	0.25767	-0.10493	0.896108	0.232325	0.05298	0.437259	0.065428	-0.29151	0.149943	-0.19896	0.667131	0.02467	0.837225	0.092495
ZNF599	-0.16085	-0.10824	-0.00443	-0.42377	0.23196	0.42717	0.973924	0.00102	-0.19433	-0.18982	-0.14506	-0.21557	0.097807	0.103205	0.17087	0.075103
FAM187B	0.01245	-0.18523	0.114449	-0.12042	0.926765	0.171708	0.396594	0.37227	0.265651	-0.37445	0.186413	-0.30755	0.962818	0.005176	0.889917	0.0188
CILP2	0.197607	-0.15064	0.362017	-0.1446	0.140637	0.267787	0.005655	0.283202	0.34746	-0.40519	0.304068	-0.37745	0.991009	0.002608	0.978858	0.004855
C19orf55	-0.19217	-0.15466	0.025224	-0.37324	0.152114	0.25507	0.852251	0.004242	-0.39461	-0.32074	0.057075	-0.26415	0.003326	0.014881	0.645202	0.038038
ZNF558	0.002706	0.175524	-0.12053	0.11023	0.984059	0.195682	0.371815	0.414343	-0.03545	0.240555	0.014303	0.154988	0.407529	0.946341	0.537149	0.848139
CDC42EP5	0.013833	-0.02904	0.308647	-0.06688	0.918656	0.831756	0.019493	0.621116	0.158394	-0.18919	0.192734	-0.13668	0.853455	0.103966	0.897681	0.182536
NKX2-5	0.072347	-0.093	0.297819	-0.21594	0.592781	0.49541	0.024449	0.106682	0.187951	-0.4575	0.098162	-0.49171	0.891843	0.00079	0.736935	0.000301
ZNF738	-0.10235	0.242692	-0.136	0.048186	0.448687	0.07151	0.313106	0.721883	-0.26194	0.38712	-0.3094	0.272934	0.039327	0.996068	0.019312	0.966762
ZNF714	0.047367	0.110974	0.072441	-0.23991	0.726426	0.415506	0.592301	0.072257	-0.06571	0.018648	-0.21021	0.197108	0.332186	0.54895	0.082874	0.905406
ZNF681	-0.15322	0.310178	-0.33198	-0.13861	0.25516	0.019991	0.011642	0.30383	-0.28073	0.30063	-0.04807	0.336219	0.030886	0.977605	0.378335	0.988032
C19orf25	0.02767	-0.16502	0.218499	-0.14451	0.83811	0.224212	0.102494	0.283503	0.149376	-0.30564	0.079692	-0.33304	0.839111	0.019432	0.698598	0.01186
ATP8B3	0.003926	0.0247	0.149829	-0.21102	0.976875	0.856608	0.265959	0.115099	0.165674	-0.28657	0.179006	-0.25126	0.864412	0.02675	0.880312	0.046052
DIRAS1	0.031677	-0.27048	0.31181	-0.29465	0.815052	0.043778	0.018218	0.026086	0.194221	-0.30233	0.256026	-0.2257	0.90206	0.020568	0.955205	0.065751
ZNF555	0.100922	-0.06361	0.100145	-0.00312	0.455079	0.64142	0.458575	0.981639	0.079358	-0.0802	-0.0813	-0.03333	0.699947	0.298108	0.29773	0.412965
ZNF569	0.053158	0.098672	0.03527	-0.32892	0.694526	0.46937	0.794505	0.012483	-0.01079	-0.39934	0.239566	-0.22661	0.471642	0.002986	0.943518	0.064962
ZNF570	-0.04784	-0.06407	-0.22999	-0.08836	0.726229	0.642106	0.08815	0.517266	-0.20285	0.049984	-0.26875	0.084546	0.088179	0.629256	0.037123	0.711797

SYT6	-0.05087	-0.22731	0.091413	-0.1043	0.707088	0.092024	0.498861	0.440035	0.158026	-0.27741	0.198538	-0.19886	0.852887	0.030985	0.904464	0.092599
C1orf74	-0.04312	0.060038	-0.13371	-0.1506	0.75235	0.663257	0.325884	0.267905	-0.18645	0.383445	-0.19726	0.252404	0.110032	0.99534	0.099666	0.952811
CREB3L4	0.061344	-0.09285	0.218281	-0.10415	0.65033	0.496106	0.102846	0.440692	-0.23905	0.18826	-0.20283	0.022308	0.0548	0.894886	0.090733	0.558495
C1orf127	0.006237	-0.13031	0.307094	-0.1679	0.963275	0.338425	0.020147	0.211876	0.020751	-0.38462	0.1905	-0.26521	0.554438	0.004155	0.894982	0.037434
C1orf58	-0.064	0.264759	-0.30503	0.025149	0.636222	0.048617	0.021043	0.852687	-0.16363	0.403613	-0.06818	0.290317	0.138607	0.997295	0.328165	0.974839
SAMD11	-0.04071	-0.13644	0.227118	-0.10092	0.763684	0.316022	0.089321	0.455104	0.105783	-0.34777	0.130904	-0.25011	0.757935	0.008937	0.80431	0.046826
SAMD13	0.121884	0.000723	0.090421	-0.29495	0.366425	0.995779	0.503554	0.025926	0.062067	-0.26289	0.1735	-0.23354	0.657273	0.040515	0.869981	0.061299
C1orf52	-0.06449	-0.02972	-0.21087	0.12234	0.633661	0.827882	0.115371	0.36462	0.05827	0.185676	-0.14836	-0.02561	0.649755	0.891666	0.165378	0.432909
PHF13	0.128456	-0.12048	0.11142	-0.08973	0.340951	0.376432	0.409294	0.506852	0.052833	-0.19479	0.084014	-0.21584	0.636348	0.097272	0.708393	0.074841
C1orf51	0.029974	0.00805	-0.08338	-0.01658	0.824832	0.953045	0.537459	0.902583	0.072389	-0.19604	-0.01321	-0.23444	0.683704	0.095825	0.465676	0.058413
TMEM56	0.017173	0.083041	-0.30234	0.035817	0.899106	0.542886	0.022265	0.791389	0.131622	-0.13557	-0.11029	-0.17566	0.805617	0.187276	0.238007	0.124211
NBPF4	-0.06141	-0.05433	0.094733	-0.23668	0.65298	0.693588	0.487375	0.079051	-0.01341	-0.13459	0.180627	-0.00431	0.464762	0.186253	0.882461	0.488663
UBE2U	0.145299	-0.20153	0.153668	-0.21886	0.280849	0.136377	0.253761	0.10191	0.040474	-0.28707	0.100528	-0.07287	0.605289	0.026536	0.744426	0.315157
CTBS	-0.1056	0.254814	-0.22475	0.103471	0.43434	0.058058	0.092792	0.443711	0.064012	0.085711	0.028197	0.099429	0.66372	0.714426	0.572941	0.744549
SLC35F3	0.081464	-0.19647	0.251834	-0.28439	0.546899	0.146702	0.05879	0.032034	0.198457	-0.33908	0.113544	-0.41342	0.906942	0.010577	0.771154	0.002147
C1orf211	0.172124	-0.24452	0.1932	-0.11242	0.20044	0.069336	0.14989	0.405073	0.234392	-0.18575	0.126008	-0.11857	0.941548	0.108237	0.795257	0.216273
LOC148696	0.086205	-0.07101	0.102776	0.11957	0.527563	0.606453	0.450993	0.380076	0.332748	-0.24345	0.160618	-0.11064	0.988074	0.051517	0.854058	0.23208
CTBP1	-0.1859	0.069583	-0.04847	0.054589	0.166203	0.61034	0.720337	0.686719	-0.09794	0.338494	-0.08077	0.105374	0.258636	0.989304	0.298942	0.757085
HFE2	0.057583	-0.13785	0.267314	-0.17473	0.670496	0.310991	0.044409	0.193616	-0.01906	-0.25231	0.150286	-0.31719	0.449985	0.045354	0.837783	0.015862
ANKRD35	-0.19093	0.150648	-0.07466	-0.5332	0.154828	0.26775	0.580997	1.95E-05	-0.42337	0.134236	-0.20956	-0.10323	0.001686	0.813109	0.083545	0.247395
FAM163A	0.178914	-0.17365	0.257877	-0.34513	0.182986	0.20057	0.052783	0.008557	0.180659	-0.32274	0.234529	-0.48047	0.885219	0.014349	0.939515	0.000363
B3GALNT2	0.188214	0.387732	-0.08452	0.007355	0.160895	0.003152	0.531927	0.956697	0.098534	0.312086	-0.19583	0.181201	0.742633	0.982634	0.098661	0.885928
CTBP2	-0.15296	0.003197	-0.05932	-0.08097	0.255981	0.981343	0.661174	0.549352	-0.00133	0.042274	-0.09523	-0.07059	0.496493	0.609858	0.26689	0.320545
MFSD4	-0.06696	0.319157	-0.0218	0.038736	0.620665	0.016505	0.872147	0.774818	-0.20847	0.438767	-0.23219	0.184505	0.082219	0.998857	0.062415	0.890183
PM20D1	0.01821	-0.24309	0.183645	-0.20658	0.893048	0.071034	0.17149	0.12312	0.094991	-0.42823	0.101073	-0.26685	0.734982	0.001494	0.745576	0.036508
C1orf150	0.124988	-0.11626	0.126374	-0.15758	0.354254	0.393518	0.348899	0.241738	-0.13066	-0.29642	0.209861	-0.12491	0.193383	0.022735	0.916766	0.20408
SLC30A7	-0.06707	0.342356	-0.15845	0.314392	0.620098	0.009802	0.239116	0.01723	0.062289	0.404226	-0.17469	0.34883	0.65955	0.997333	0.125538	0.991248
CCDC27	-0.02059	-0.07979	0.279592	-0.14321	0.879151	0.558827	0.035177	0.287894	0.188025	-0.41718	0.189303	-0.29419	0.894596	0.001961	0.893516	0.023596
C1orf213	0.021389	-0.12928	0.122753	-0.15774	0.874514	0.342322	0.362993	0.24124	0.018655	-0.10755	0.147506	0.054195	0.548403	0.240967	0.830343	0.638173
CTF1	-0.1283	-0.20356	0.127766	-0.17679	0.341555	0.132382	0.343572	0.188318	0.164512	-0.42893	0.156389	-0.27527	0.862701	0.001468	0.84753	0.032043
KNCN	-0.03887	-0.24096	0.164862	-0.1813	0.774061	0.073622	0.220382	0.177116	0.131464	-0.44084	0.156436	-0.37324	0.80809	0.001083	0.847603	0.005312
MOBKLC2C	0.058362	0.11229	0.216894	0.164119	0.666303	0.409965	0.105105	0.222497	0.018925	0.308136	-0.08979	0.180927	0.549672	0.981391	0.278743	0.885569
GLIS1	-0.03932	-0.09744	0.154391	-0.23383	0.771491	0.47498	0.251508	0.080007	0.209451	-0.36119	0.177978	-0.34066	0.918797	0.006828	0.878935	0.010261
CTGF	0.160038	-0.35093	0.216651	-0.02263	0.234371	0.008007	0.105504	0.867316	0.297038	-0.33411	0.372376	-0.32703	0.977501	0.011625	0.994116	0.013264
LELP1	0.139025	-0.23261	0.2489	-0.24483	0.306838	0.087459	0.06434	0.06897	0.120207	-0.3424	0.224169	-0.269	0.786907	0.009922	0.930613	0.035324
RC3H1	-0.1539	0.307752	-0.29057	0.051369	0.253038	0.021034	0.028331	0.704328	-0.07911	0.442586	-0.15816	0.150126	0.30062	0.998965	0.149717	0.840337
ZNF362	0.211505	0.058502	0.072266	-0.01513	0.117625	0.671377	0.596607	0.911858	0.052166	0.121861	0.046899	0.256567	0.634691	0.790101	0.620169	0.957391
DCST1	-0.03796	-0.09027	0.203016	-0.10446	0.779192	0.508218	0.129873	0.439355	0.077959	-0.40984	0.078751	-0.31852	0.696715	0.002338	0.696448	0.015488
CTH	0.405996	0.049506	0.123775	-0.10066	0.002102	0.722214	0.367947	0.464632	0.428501	-0.10696	0.134369	-0.24643	0.998146	0.244768	0.804846	0.053424
CNIH3	0.151809	-0.02435	0.187721	-0.12155	0.25962	0.858642	0.162013	0.367742	0.050665	-0.29078	0.192052	-0.18738	0.630955	0.024969	0.896863	0.106205
LOC149134	-0.19056	-0.12516	0.20171	-0.20431	0.155634	0.358052	0.132414	0.127398	-0.08889	-0.55564	0.071049	-0.30564	0.278444	3.05E-05	0.678599	0.019432
MANEAL	-0.02242	-0.23327	0.107371	-0.12821	0.86851	0.083598	0.426629	0.341874	0.041772	-0.26932	0.147851	-0.18437	0.608586	0.035154	0.833788	0.109993
RPS7P4	-0.05405	-0.07175	0.110694	-0.27926	0.689649	0.599251	0.41237	0.035401	-0.00313	-0.45646	-0.07987	-0.43522	0.491754	0.000715	0.300999	0.001252
IL23R	-0.08165	0.01783	-0.02412	-0.17738	0.549662	0.897194	0.859921	0.190915	0.097431	-0.18463	-0.04385	-0.11418	0.737843	0.112343	0.388733	0.227585
FAM78B	0.050516	-0.06504	0.21922	-0.10711	0.709015	0.633916	0.101338	0.427741	0.244653	-0.30398	0.037435	-0.31198	0.949358	0.019995	0.59644	0.017398
CTLA4	-0.07342	-0.11003	-0.04674	0.251597	0.587298	0.419517	0.729883	0.059036	-0.20641	0.105809	-0.02556	0.16972	0.08685	0.755456	0.434591	0.867487
SHISA4	0.27874	-0.22298	0.309113	-0.20108	0.035761	0.098566	0.019301	0.133647	0.23636	-0.36267	0.191468	-0.3709	0.940995	0.007175	0.893444	0.006066
EXOC8	0.024264	0.253131	-0.11643	0.282268	0.857813	0.059793	0.388415	0.033393	-0.12731	0.463195	-0.13303	0.235791	0.199575	0.999406	0.191832	0.942664
FLJ30430	-0.01893	-0.13004	0.153955	-0.18411	0.889864	0.343992	0.257264	0.174366	0.014937	-0.25652	0.147894	-0.22093	0.539241	0.042641	0.833859	0.070045
PDIK1L	-0.13746	0.430222	-0.25739	0.214698	0.307896	0.000935	0.053245	0.108761	-0.15452	0.496864	-0.07675	0.346176	0.152599	0.999778	0.308139	0.99078

LOC100133	0.001419	-0.26813	0.247826	-0.19892	0.991641	0.045714	0.06307	0.137963	0.039385	-0.22122	0.112029	-0.21991	0.602517	0.069779	0.768122	0.070988
BNIP1	-0.17198	0.363461	-0.23284	-0.43084	0.205004	0.006381	0.084183	0.000917	-0.31714	0.449974	-0.36142	0.000133	0.015874	0.999148	0.007357	0.500351
CLDN19	0.093528	0.007001	0.305196	-0.15603	0.48894	0.959156	0.020971	0.246435	0.246849	-0.33965	0.312277	-0.24861	0.95092	0.010463	0.98162	0.047851
WDR65	-0.08473	-0.24687	0.08186	-0.25333	0.530899	0.066617	0.544944	0.057252	-0.17403	-0.34602	0.106812	-0.28084	0.123704	0.009248	0.757523	0.029339
C1orf210	-0.07046	-0.01287	0.045506	-0.17447	0.602507	0.925004	0.736773	0.194268	0.047766	-0.0588	0.161031	-0.13345	0.623707	0.348952	0.854686	0.18831
C1orf84	0.206339	0.008315	0.28653	-0.0943	0.123576	0.9515	0.030706	0.485339	0.224803	-0.11528	-0.08917	-0.17162	0.933455	0.222752	0.280109	0.127047
CCDC24	-0.24714	-0.22668	0.01001	-0.40266	0.063822	0.092962	0.941088	0.001901	-0.25241	-0.40342	0.031191	-0.33532	0.045291	0.002718	0.580588	0.011363
CCDC17	-0.13823	-0.19291	0.045839	-0.19291	0.305157	0.154315	0.734919	0.150516	-0.13753	-0.29214	0.078138	-0.25519	0.181033	0.024416	0.695044	0.043486
C1orf92	-0.17254	-0.22952	0.07895	-0.32698	0.199342	0.08883	0.559377	0.013042	-0.24605	-0.40181	0.01039	-0.30325	0.049644	0.002821	0.527003	0.020249
CTNNA1	-0.086	0.300279	-0.2496	0.031294	0.528555	0.025917	0.063573	0.818904	-0.19217	0.534626	-0.26045	0.404327	0.100371	0.999935	0.042001	0.997339
C1orf64	-0.20557	-0.20613	0.118518	-0.1366	0.125004	0.127472	0.379907	0.310947	0.115402	-0.39891	0.16593	-0.22527	0.77748	0.003016	0.861998	0.066129
CTNNA2	0.020488	-0.08304	0.168992	-0.18805	0.879762	0.54289	0.208877	0.161265	0.061248	-0.38285	0.175895	-0.32194	0.657023	0.004319	0.876114	0.014559
RNF187	0.010428	-0.15095	0.186187	-0.11632	0.938632	0.266789	0.165535	0.388873	0.149768	-0.37247	0.081545	-0.27239	0.839752	0.0054	0.702816	0.033523
RP11-165H	-0.08067	0.001404	0.053977	-0.29538	0.554504	0.991884	0.692765	0.027097	0.167745	-0.31422	-0.07528	-0.2579	0.864645	0.017771	0.313601	0.04359
PYHIN1	-0.11458	-0.07821	0.004847	0.483238	0.400402	0.570347	0.971715	0.000162	0.002597	-0.275	0.212711	-0.09145	0.506834	0.032181	0.919672	0.27278
LOC149643	-0.22201	-0.03915	-0.19057	-0.36448	0.096952	0.77449	0.155618	0.005314	-0.18713	-0.24606	0.092082	-0.26922	0.106512	0.04964	0.726282	0.035206
FAM71A	0.020365	-0.12607	0.310305	-0.21488	0.880481	0.354518	0.018816	0.108461	0.120082	-0.42002	0.196708	-0.27778	0.786665	0.00183	0.902361	0.030804
RP11-93B1	0.008785	-0.07823	0.243352	-0.17796	0.94829	0.566573	0.068138	0.185381	0.176985	-0.36037	0.303878	-0.3884	0.880333	0.006943	0.97879	0.003822
ADIG	-0.00592	-0.10329	0.226746	-0.04229	0.965438	0.452983	0.092859	0.756943	0.172659	-0.23384	0.15671	-0.25131	0.874401	0.058896	0.848033	0.046021
GTSF1L	-0.09409	-0.09298	0.055284	-0.21448	0.486305	0.495517	0.682942	0.109133	0.061815	-0.29152	0.166909	-0.1677	0.6584	0.024665	0.86343	0.132641
CTNS	-0.27753	0.17633	-0.02741	-0.05164	0.036608	0.193605	0.839626	0.702816	-0.26744	0.32264	-0.09018	0.114338	0.036182	0.985624	0.277892	0.775361
WFDC5	-0.09225	0.078265	0.004648	-0.17048	0.498912	0.570054	0.972879	0.209056	-0.03722	0.023916	0.018072	-0.10414	0.402996	0.562678	0.546898	0.245483
PRNT	0.06225	-0.08539	0.136165	-0.25295	0.648551	0.535375	0.316994	0.059982	-0.06571	-0.32269	0.035504	-0.2484	0.332195	0.014362	0.591551	0.047998
C20orf196	-0.28424	0.039745	-0.14183	-0.04824	0.033743	0.773268	0.297102	0.724022	-0.286	0.127905	-0.11161	0.143276	0.027002	0.801532	0.232713	0.828922
CTNNA1	0.114857	0.128603	-0.23946	0.30224	0.394901	0.344862	0.072808	0.022311	0.023521	0.513488	-0.12435	0.409722	0.561652	0.999869	0.207857	0.997656
C20orf191	0.088881	0.065578	0.146146	-0.07414	0.510878	0.631094	0.278025	0.583642	-0.17866	-0.24645	-0.0131	-0.04494	0.117426	0.049361	0.465981	0.38341
RP11-410N	0.091432	-0.13455	0.201886	-0.18425	0.498771	0.322827	0.13207	0.170065	0.163217	-0.3009	0.113147	-0.22668	0.860777	0.021077	0.77036	0.064899
COMMD7	-0.08452	-0.01556	-0.02231	0.149276	0.531887	0.909352	0.869156	0.267749	-0.16924	0.218818	-0.22336	0.25922	0.130426	0.927996	0.070123	0.959036
C20orf186	-0.16183	-0.02471	0.142478	-0.29037	0.229097	0.856536	0.290394	0.028443	0.077258	-0.25786	0.070688	-0.29675	0.695092	0.041799	0.677753	0.022609
LSM14B	0.139228	-0.08397	0.089437	-0.2862	0.301648	0.538349	0.508224	0.030906	0.260269	-0.25102	0.062821	-0.30888	0.959673	0.046214	0.659083	0.018371
C21orf99	0.076567	-0.12227	0.151527	-0.19725	0.57488	0.37386	0.264934	0.145075	0.051351	-0.4353	0.232428	-0.31507	0.631189	0.001402	0.935524	0.01751
LIP1	0.115934	-0.2228	0.197791	-0.34573	0.390455	0.098849	0.140262	0.008435	0.073352	-0.27245	0.161698	-0.29127	0.685971	0.03349	0.855697	0.024767
AANAT	0.01543	-0.14128	0.149369	-0.1639	0.909304	0.298985	0.267446	0.223112	0.145344	-0.33877	0.176373	-0.38685	0.832419	0.01064	0.876764	0.003956
ADRA2A	0.1007	0.11682	0.319691	-0.10313	0.456078	0.391211	0.015345	0.445235	-0.00223	-0.21128	0.14554	0.042182	0.494125	0.079344	0.82994	0.609625
CTNND1	-0.07928	0.477921	-0.15354	-0.01217	0.561374	0.000224	0.258581	0.929082	0.066286	0.657074	-0.27516	0.316453	0.667355	1	0.035322	0.982907
ABCC13	-0.03795	-0.09262	0.139308	-0.05321	0.779296	0.497165	0.301369	0.694245	0.049369	-0.51162	0.157851	-0.35047	0.627721	0.00014	0.849808	0.008473
LCA5L	-0.12487	-0.01095	-0.06213	-0.25561	0.354713	0.93616	0.646162	0.05498	-0.14208	-0.28845	0.057444	-0.17946	0.173115	0.025944	0.6461	0.116365
IGSF5	0.013236	-0.14965	0.060642	-0.16775	0.922868	0.270964	0.657057	0.216548	0.211476	-0.36013	0.244337	-0.38774	0.920854	0.006978	0.947122	0.003879
SIK1	0.229658	-0.13667	-0.02818	-0.02495	0.085701	0.315194	0.835146	0.85386	0.082793	0.192325	0.013007	-0.18072	0.707817	0.899817	0.533791	0.114703
CTNND2	0.043052	-0.1195	0.223113	-0.12928	0.750497	0.380344	0.095266	0.337819	0.202724	-0.40843	0.240123	-0.45749	0.911681	0.002417	0.943948	0.000695
C21orf129	-0.06001	-0.19992	0.218574	-0.28677	0.657453	0.139595	0.102373	0.03056	0.095987	-0.20549	0.241071	-0.29008	0.737145	0.085342	0.944674	0.025259
C21orf121	-0.02151	-0.16796	0.155379	-0.07035	0.874939	0.220283	0.252838	0.606399	-0.17177	-0.33717	0.029831	-0.28596	0.126838	0.010969	0.577116	0.027019
C21orf128	-0.24148	-0.06435	-0.06782	-0.34033	0.070358	0.637533	0.61621	0.009589	-0.1701	-0.40586	0.060476	-0.20153	0.129204	0.002567	0.653442	0.089631
NHEDC1	0.096949	-0.26083	0.056356	-0.29005	0.477201	0.054431	0.679941	0.030126	-0.056	-0.33886	0.189313	-0.22434	0.355819	0.010622	0.893529	0.066959
CCT8L2	0.013506	-0.06662	0.206069	-0.2862	0.921301	0.628909	0.127582	0.032486	0.257006	-0.31822	0.101624	-0.34109	0.957666	0.01557	0.746736	0.010176
XKR3	0.034765	-0.14584	0.124788	-0.24742	0.797386	0.283484	0.35503	0.063514	0.019211	-0.47108	0.052124	-0.37369	0.55042	0.000476	0.633091	0.005261
LOC150197	-0.02922	-0.1626	0.164469	-0.09876	0.829185	0.231192	0.221499	0.464829	0.155785	-0.34139	0.062507	-0.24111	0.849393	0.010118	0.658329	0.053243
AIFM3	-0.0862	-0.17651	0.172894	-0.10947	0.523769	0.193145	0.198403	0.417603	0.036814	-0.39658	0.245242	-0.28534	0.595958	0.00318	0.947784	0.02729
RIMBP3C	-0.22363	0.072097	0.165806	0.17041	0.094482	0.597468	0.217716	0.205027	-0.06472	0.016006	-0.1797	0.009219	0.334575	0.542041	0.118769	0.524244
YDJC	-0.09533	-0.11289	0.099421	-0.04356	0.480571	0.407468	0.461849	0.747663	-0.10367	0.020848	0.016327	-0.00321	0.246476	0.554691	0.542388	0.491567

ZDHHC8P	0.074404	-0.13415	0.28097	-0.16485	0.582281	0.324262	0.034249	0.220413	0.144004	-0.34937	0.209157	-0.31649	0.830158	0.008659	0.916036	0.016062
C22orf15	-0.25981	-0.27247	-0.08018	-0.32603	0.053141	0.044161	0.556917	0.0142	-0.36518	-0.28553	-0.07756	-0.19849	0.00629	0.027209	0.306289	0.093018
HSCB	-0.04881	0.029282	-0.2326	0.244103	0.718448	0.830365	0.081653	0.067265	-0.08466	0.505473	-0.36209	0.427287	0.287946	0.99983	0.007259	0.99847
CCDC117	-0.03991	0.03627	-0.19847	0.137724	0.768207	0.790713	0.138878	0.306952	0.039404	0.226884	-0.15909	0.121299	0.602568	0.935279	0.148278	0.789018
HORMAD2	0.002322	-0.10273	0.037911	-0.22337	0.986325	0.451195	0.77949	0.094878	-0.07298	-0.37262	0.12801	-0.37501	0.314905	0.005382	0.798987	0.005116
DUSP18	-0.1959	-0.04555	-0.02918	-0.16275	0.144162	0.738878	0.829393	0.226442	-0.32502	-0.12038	-0.04999	-0.02799	0.013763	0.212754	0.372158	0.426762
C22orf27	-0.14009	-0.2046	0.11293	-0.05158	0.298623	0.130381	0.402931	0.703196	0.206425	-0.29855	0.258301	-0.2697	0.91565	0.021934	0.95666	0.034946
C22orf42	-0.00127	-0.09413	-0.13805	-0.21876	0.992529	0.490174	0.305782	0.102074	0.167845	-0.18462	0.106664	-0.07503	0.86479	0.112353	0.754629	0.312111
CTPS	0.081987	0.207478	-0.0038	0.233275	0.548034	0.128524	0.977802	0.083584	0.185005	0.317899	-0.27456	0.103426	0.890818	0.984339	0.033984	0.753014
ENTHD1	0.02458	-0.12392	0.145188	-0.18442	0.858623	0.371972	0.290225	0.177697	0.116945	-0.37789	0.124336	-0.33071	0.777878	0.005244	0.789341	0.013248
DNAJB7	-0.13622	-0.0119	0.012763	-0.12624	0.312309	0.930652	0.92493	0.349406	0.002763	-0.24422	-0.00067	-0.22723	0.507271	0.050954	0.498254	0.064425
May-01	0.060056	-0.11437	0.186358	0.226975	0.657211	0.401296	0.16514	0.089527	-0.04739	-0.33214	0.177704	-0.25202	0.378607	0.012904	0.875757	0.047449
FAM109B	-0.01659	-0.09192	0.227127	-0.03053	0.902488	0.500435	0.089306	0.821637	0.229364	-0.14628	0.04699	-0.06643	0.937403	0.166015	0.620395	0.330457
NFAM1	0.050274	-0.32337	0.360768	-0.05593	0.71035	0.015057	0.005835	0.679462	0.114765	-0.4308	0.212785	-0.41216	0.77358	0.001567	0.917243	0.002452
PNPLA5	0.030636	-0.24491	0.240767	-0.30117	0.821025	0.06888	0.071212	0.022813	0.078252	-0.43397	0.313405	-0.41216	0.697394	0.001293	0.981975	0.002212
C22orf40	0.075963	-0.29234	0.222489	-0.21093	0.57438	0.028791	0.096219	0.115265	0.026198	-0.19244	0.128471	-0.15595	0.568605	0.100052	0.799841	0.15035
CTRB1	0.075153	-0.0846	0.274284	-0.16434	0.578479	0.535297	0.038951	0.221871	0.108966	-0.39062	0.187869	-0.29205	0.7645	0.003638	0.891741	0.02445
TTL	0.002299	0.437199	-0.3075	0.111808	0.986458	0.000754	0.019976	0.407653	0.093825	0.592818	-0.18078	0.285378	0.73244	0.999993	0.117335	0.972725
CKAP2L	-0.01127	0.016071	0.00102	-0.2446	0.934318	0.907292	0.994046	0.069236	0.02465	0.203583	0.181317	0.093725	0.563847	0.910096	0.88058	0.729858
TEKT4	-0.28654	-0.18259	0.04658	-0.45984	0.0307	0.177999	0.730798	0.00032	-0.35318	-0.34311	-0.05622	-0.33267	0.008029	0.009787	0.356877	0.011943
FLJ32063	0.007772	-0.12128	0.112089	-0.1839	0.954243	0.373233	0.406467	0.170888	0.054726	-0.1959	0.157549	-0.21995	0.641035	0.09599	0.849339	0.070947
SMYD1	0.212594	0.068875	0.327996	-0.14469	0.112355	0.613987	0.012746	0.282899	0.039744	-0.2828	0.124594	-0.27794	0.603432	0.028433	0.792597	0.030723
C2orf15	-0.1572	0.053883	-0.25091	-0.35386	0.24726	0.696011	0.062148	0.007461	-0.3988	-0.03397	-0.3192	-0.03753	0.003023	0.411331	0.016288	0.402217
CTRL	0.052396	-0.22084	0.28541	0.190051	0.698692	0.101926	0.031394	0.156774	0.0268	-0.1337	0.213987	0.000801	0.570166	0.187861	0.920949	0.502108
LOC150622	-0.03162	0.04781	0.221129	-0.2117	0.815386	0.72641	0.098325	0.113908	0.137127	-0.0929	0.075003	-0.04071	0.818259	0.269589	0.687815	0.394098
OTOS	0.051876	-0.18479	0.323291	-0.16744	0.701543	0.172753	0.014168	0.213142	0.090665	-0.33186	0.149918	-0.3077	0.725492	0.012126	0.837185	0.018751
MYEOV2	-0.01851	-0.00171	0.11979	-0.2016	0.891312	0.990011	0.374777	0.132626	0.033692	-0.13853	-0.01866	-0.1826	0.587955	0.179272	0.451593	0.112257
OR6B3	0.032928	-0.25681	0.205723	-0.24025	0.807883	0.056049	0.124726	0.071842	0.142884	-0.32099	0.268474	-0.27057	0.828254	0.014814	0.962723	0.03448
COMMD1	0.016313	0.171082	-0.12411	0.153561	0.904135	0.207415	0.357686	0.254098	-0.05747	0.330328	-0.22251	0.241804	0.352213	0.987522	0.070903	0.947275
PROM2	-0.07395	0.367633	-0.22314	-0.09326	0.584609	0.005313	0.09523	0.490204	-0.12368	0.695843	-0.34519	0.357019	0.206423	1	0.010107	0.992567
ANKAR	-0.00639	0.128923	-0.09133	0.066011	0.962385	0.343653	0.499248	0.625648	0.261154	0.054572	0.089244	-0.07005	0.958433	0.639096	0.717721	0.323746
FBXO41	-0.09572	-0.06703	0.136024	-0.14337	0.478758	0.623517	0.313019	0.287352	-0.00751	-0.32862	-0.0044	-0.30428	0.480467	0.01376	0.48869	0.021068
TTC30B	-0.09273	0.007469	-0.03577	-0.11929	0.492663	0.956432	0.791673	0.376786	-0.32297	-0.11523	0.033264	-0.04685	0.014289	0.222855	0.585866	0.378592
LOC150763	0.154935	-0.24556	0.310585	-0.05277	0.249821	0.068128	0.018703	0.696634	0.377355	-0.32339	0.135777	-0.26537	0.995135	0.01418	0.813084	0.037344
ITPRIPL1	0.062361	-0.40552	0.230624	0.048493	0.644916	0.001931	0.084357	0.720181	0.005972	-0.11628	0.104391	0.018987	0.51571	0.220777	0.75252	0.549835
LOC150776	-0.05187	-0.14448	0.094578	0.08365	0.701566	0.28806	0.484055	0.536155	0.195344	-0.10467	0.023732	-0.24304	0.903371	0.244373	0.561487	0.05181
CTSB	-0.13985	0.451012	-0.32242	0.384748	0.299483	0.000486	0.014444	0.003126	-0.01875	0.698131	-0.23691	0.463397	0.450789	1	0.05857	0.999409
FAM117B	-0.03232	0.366386	-0.19992	-0.14971	0.813086	0.005938	0.139607	0.270774	-0.16932	0.516806	-0.04677	0.295476	0.130315	0.999882	0.380153	0.976904
CTSD	-0.10203	0.250754	-0.18013	-0.0179	0.450097	0.062314	0.179973	0.894855	-0.19729	0.55541	-0.19125	0.288805	0.09439	0.999969	0.104112	0.974206
TCF23	-0.00505	-0.08561	0.134094	-0.28224	0.970237	0.530419	0.32	0.033409	0.174346	-0.30638	0.281646	-0.32746	0.873985	0.020334	0.967997	0.014055
FAM59B	0.115331	-0.04536	0.261056	-0.10719	0.392943	0.739931	0.04983	0.427424	0.247372	-0.34662	0.231987	-0.24486	0.951286	0.00914	0.937415	0.050494
PUS10	-0.0449	0.192866	-0.09511	-0.04096	0.740162	0.154408	0.481564	0.762239	-0.05707	0.199197	-0.05267	0.124725	0.353194	0.907777	0.365563	0.795563
ADRA2B	0.141171	-0.2013	0.34638	-0.35376	0.294888	0.136829	0.008305	0.006944	0.095615	-0.27164	0.217342	-0.32403	0.733946	0.035531	0.921786	0.014949
CTSE	-0.07955	-0.29264	0.142697	-0.20781	0.556388	0.028619	0.289645	0.120859	0.048534	-0.41105	0.220592	-0.31444	0.62563	0.002271	0.927323	0.016657
Sep-10	0.054757	0.126832	-0.18199	-0.00062	0.685805	0.351603	0.175456	0.996344	0.104826	0.157955	0.047892	0.045124	0.755943	0.852777	0.622634	0.617062
C2orf67	-0.0048	-0.11738	0.00503	-0.22297	0.971722	0.388947	0.970378	0.095479	0.105446	-0.34162	0.143269	-0.25036	0.757235	0.010074	0.826106	0.046663
PLB1	-0.20335	-0.09335	0.06572	-0.35328	0.129223	0.493762	0.627173	0.007025	-0.25535	-0.36983	0.027931	-0.2993	0.04338	0.005709	0.572259	0.021656
CTSG	0.083279	-0.06327	0.156739	-0.01061	0.537972	0.643198	0.244281	0.937559	-0.01265	-0.21731	0.026969	-0.06105	0.466763	0.07343	0.569796	0.343448
ZSWIM2	-0.14884	-0.09271	0.02263	-0.17778	0.273615	0.500788	0.868511	0.189905	-0.16119	-0.31815	0.06884	-0.26528	0.142265	0.015592	0.673405	0.037393
LOC151121	0.015971	0.13353	-0.0203	-0.36101	0.906997	0.331101	0.881943	0.006267	0.407927	-0.30713	0.20491	-0.378	0.997554	0.018936	0.911536	0.004798

ZNF385B	0.126256	-0.19831	0.183357	-0.0943	0.353811	0.146668	0.17616	0.489383	0.177803	-0.24067	0.134143	-0.2485	0.878701	0.055631	0.807335	0.049883
LOC151174	0.03494	-0.23844	0.26228	-0.13937	0.796384	0.076781	0.048729	0.301165	0.202304	-0.37073	0.182137	-0.42818	0.911222	0.005601	0.884439	0.001496
FAM132B	-0.02165	-0.22159	0.216598	-0.1567	0.873013	0.100742	0.105592	0.244388	0.084594	-0.38452	0.180351	-0.25995	0.711905	0.004165	0.882097	0.040519
ARL6IP6	0.012144	0.312142	-0.30027	0.239912	0.92856	0.019179	0.023244	0.072253	-0.01968	0.621701	-0.22417	0.425882	0.448349	0.999998	0.069389	0.998416
FAM119A	-0.14739	0.079827	-0.228	0.11526	0.273923	0.558661	0.088056	0.393237	-0.24925	0.256524	-0.31665	0.358093	0.047416	0.957364	0.017036	0.992727
CCNYL1	0.043098	0.363533	-0.05172	0.051644	0.750241	0.005887	0.702376	0.702817	0.226514	0.315155	-0.02553	0.194752	0.934958	0.983552	0.4339	0.902681
CTSH	-0.10146	-0.05477	-0.09514	-0.03657	0.452668	0.688455	0.481451	0.787123	-0.36401	0.208487	-0.11243	0.243448	0.006444	0.917803	0.231077	0.948485
KLHL23	0.209734	-0.13821	0.030881	0.010796	0.117385	0.309722	0.819617	0.936471	0.101167	-0.15453	-0.01749	-0.07574	0.748247	0.152593	0.454595	0.308448
PPP1R1C	-0.04789	-0.05812	0.06984	-0.19188	0.723533	0.67046	0.605695	0.152751	0.051109	-0.33278	0.048051	-0.23628	0.632062	0.011919	0.623028	0.056948
SGOL2	-0.0199	0.011383	-0.18588	-0.17485	0.88424	0.934265	0.170176	0.197426	-0.25914	0.353294	-0.21115	0.239048	0.041013	0.99199	0.081911	0.945198
ALS2CR11	0.149191	-0.31847	0.077504	-0.16366	0.268023	0.016751	0.566615	0.223813	-0.03695	-0.4147	0.102158	-0.2621	0.403683	0.002082	0.747857	0.039234
SLC38A11	0.212139	-0.06296	0.254339	0.10528	0.113144	0.644797	0.056236	0.435742	0.343376	-0.29096	0.309101	-0.17417	0.990263	0.024897	0.980589	0.12351
CCDC140	0.053833	-0.03851	0.217393	-0.22381	0.690838	0.778096	0.104289	0.094217	0.152083	-0.35992	0.141207	-0.40293	0.843506	0.007008	0.822579	0.002749
SLC23A3	-0.08049	-0.04342	0.094291	-0.04101	0.551692	0.750694	0.485386	0.76198	0.10285	0.057795	-0.11876	-0.05226	0.749307	0.646951	0.221292	0.366563
CTSK	0.170971	-0.11853	-0.08741	0.479449	0.203518	0.384246	0.517923	0.000161	0.113763	0.1991	0.113558	0.45909	0.774213	0.907667	0.771182	0.999334
GPBAR1	0.165993	-0.13656	0.271326	-0.21155	0.21719	0.315567	0.041196	0.114176	0.1453	-0.42574	0.202117	-0.35005	0.832346	0.00159	0.908485	0.008544
FAHD2B	0.001998	0.022596	0.285979	-0.32805	0.988234	0.868706	0.031043	0.012731	0.196217	-0.11779	0.204048	-0.16231	0.904382	0.217815	0.910602	0.140586
MYADML	-0.00113	-0.16401	0.286688	-0.14732	0.993315	0.227096	0.03061	0.274125	0.155993	-0.30854	0.211841	-0.26534	0.849719	0.01848	0.918793	0.037359
FAM84A	-0.03423	0.260693	-0.06946	-0.16932	0.800431	0.052314	0.607683	0.20798	-0.09433	0.389059	-0.16715	0.17468	0.266449	0.996233	0.136219	0.877196
FAM82A1	-0.01856	0.19193	-0.19304	0.05455	0.891031	0.156456	0.150235	0.686935	-0.08353	0.395851	-0.16612	0.329763	0.290518	0.996767	0.137718	0.98739
CTSL1	0.075542	-0.44272	0.014743	0.141165	0.576506	0.000634	0.913322	0.294909	-0.0113	-0.37845	0.056535	-0.10892	0.470293	0.004751	0.643889	0.235601
GDF7	-0.04503	-0.15778	0.246941	-0.17917	0.739439	0.245499	0.064047	0.182342	0.020092	-0.35356	0.195521	-0.23745	0.55272	0.007967	0.900979	0.056038
SLC16A14	0.309296	-0.19172	0.237108	0.040595	0.019226	0.15691	0.075751	0.764314	0.469053	-0.25161	0.277515	-0.33266	0.999496	0.045823	0.967531	0.011946
C2orf52	-0.22968	-0.12862	-0.00184	-0.21728	0.085668	0.344788	0.98918	0.104477	-0.10409	-0.25873	-0.08383	-0.3468	0.245596	0.041264	0.292017	0.009108
CTSL2	-0.02649	0.386427	-0.25051	-0.19021	0.846362	0.003567	0.062583	0.160274	-0.11533	0.527288	-0.23513	0.232144	0.222657	0.999917	0.059996	0.939721
MSL3L2	-0.07017	0.178993	-0.13501	-0.18811	0.603978	0.186855	0.316693	0.161122	-0.04406	0.049534	0.024515	0.097689	0.385619	0.628134	0.563499	0.740818
ASPRV1	-0.06715	-0.18025	0.183759	-0.19516	0.619708	0.183728	0.17122	0.145731	0.165945	-0.5147	0.123956	-0.46607	0.864809	0.000126	0.791391	0.000548
WDSUB1	-0.07682	0.117571	-0.19213	0.049048	0.570061	0.388153	0.152207	0.717112	-0.17624	0.166043	-0.07478	0.14612	0.120679	0.864952	0.31269	0.833722
UPP2	0.019026	-0.17716	0.220308	-0.16584	0.88931	0.191477	0.102771	0.221882	0.108414	-0.45376	0.150711	-0.39747	0.763368	0.000769	0.838476	0.003117
GPR155	0.270951	0.01649	-0.00524	0.346646	0.041488	0.903985	0.969145	0.008252	0.281136	-0.07594	0.166764	0.01664	0.970798	0.307965	0.863219	0.543701
TTC14	-0.02064	0.167165	-0.13275	0.174024	0.878896	0.218167	0.324914	0.195442	0.279345	0.145805	-0.00105	0.123558	0.969952	0.833194	0.497282	0.793347
DTX3L	-0.1144	0.213082	-0.08478	0.626744	0.396778	0.114851	0.530644	1.83E-07	0.002291	0.464328	-0.04594	0.409153	0.505958	0.999343	0.383573	0.997371
FAM19A4	0.06454	-0.11748	0.313338	-0.15243	0.633384	0.388504	0.017628	0.257656	0.138891	-0.43486	0.266433	-0.2325	0.821359	0.001264	0.961563	0.059988
SGOL1	-0.02282	0.01103	-0.07998	-0.1997	0.867395	0.9363	0.557886	0.140041	-0.12456	0.339595	0.064785	0.26153	0.207473	0.988763	0.661954	0.958663
C3orf48	0.160505	-0.09719	0.279441	-0.08697	0.23299	0.476121	0.03528	0.520052	0.042758	-0.15249	0.13769	-0.104	0.611084	0.155837	0.816464	0.245777
EFHB	-0.0803	-0.15015	0.003368	-0.14755	0.552656	0.269354	0.980165	0.27338	-0.18798	-0.23747	0.096016	-0.10389	0.105465	0.056017	0.734809	0.246023
PPM1L	-0.01965	0.312912	-0.20303	-0.04378	0.884656	0.018869	0.129855	0.746413	-0.10992	0.374304	-0.09547	0.168941	0.233551	0.994807	0.26636	0.869147
LOC15176C	0.04139	0.250505	0.025311	-0.04054	0.761983	0.065088	0.853097	0.766745	0.113041	-0.06766	0.018207	-0.16249	0.770149	0.329389	0.546691	0.143107
WDR49	-0.16569	-0.11356	0.005998	-0.08328	0.21803	0.404639	0.964679	0.537961	-0.18357	-0.10082	-0.09979	-0.08657	0.113698	0.254955	0.259637	0.285887
LRRC34	-0.12176	-0.02608	-0.06302	-0.23908	0.366929	0.848712	0.641427	0.073277	-0.26375	-0.16078	-0.16614	-0.1179	0.040005	0.145692	0.140547	0.220248
CPNE9	0.097847	-0.10042	0.195318	-0.21319	0.473107	0.465692	0.149134	0.114655	0.148393	-0.42017	0.095153	-0.30828	0.837494	0.001823	0.73295	0.018563
DPPA2	0.137308	-0.11648	0.239549	-0.18926	0.308431	0.39261	0.072698	0.158534	0.188911	-0.29454	0.157656	-0.26496	0.895687	0.023462	0.849505	0.037575
CCDC80	-0.07807	0.263634	-0.25173	-0.22614	0.563759	0.049618	0.058898	0.090742	-0.18981	0.16856	0.125171	0.140705	0.105861	0.865823	0.79091	0.821714
BTLA	-0.06043	-0.14144	-0.04742	0.183746	0.6552	0.298423	0.726119	0.17125	-0.01533	-0.44463	0.155003	-0.36608	0.459735	0.000981	0.84535	0.006173
CTSO	0.020346	0.024575	-0.06368	0.287146	0.880593	0.857325	0.63793	0.030333	-0.03611	0.227133	0.023562	0.366924	0.405841	0.935495	0.56105	0.993934
CCDC12	-0.22852	0.099952	-0.10093	-0.13273	0.09027	0.467804	0.4592	0.329481	-0.22303	0.371204	-0.10769	0.163278	0.068126	0.994454	0.240679	0.860868
C3orf59	0.107967	0.279976	-0.05696	0.08838	0.424048	0.036628	0.673879	0.513271	0.064253	0.204092	-0.00037	0.111225	0.6643	0.913163	0.499033	0.769101
PPP4R2	-0.07161	0.245422	-0.35671	0.119285	0.596543	0.068282	0.006455	0.376808	-0.17011	0.238639	-0.11074	0.160179	0.129183	0.944885	0.234472	0.856193
ADRA2C	0.015899	-0.22175	0.315871	-0.10802	0.906557	0.100478	0.016685	0.423818	0.213353	-0.51991	0.183724	-0.40992	0.922727	0.000106	0.886495	0.002333
CTSS	-0.19364	0.003972	-0.15115	0.208859	0.148938	0.976824	0.261732	0.118957	-0.28662	0.100027	0.02266	0.158961	0.026732	0.745825	0.558729	0.854328

C3orf21	-0.13879	-0.00481	0.051457	-0.09287	0.303201	0.971918	0.703846	0.492033	-0.03209	-0.0113	-0.0075	-0.01637	0.416163	0.470289	0.480495	0.457019
RNF38	0.126496	0.054708	-0.09144	0.215313	0.348429	0.688816	0.498726	0.107727	0.19419	0.197659	0.127602	0.269769	0.902023	0.906035	0.798229	0.965091
GLIPR2	-0.30627	0.15952	-0.31002	-0.00742	0.0205	0.240253	0.01893	0.956287	-0.2674	0.258132	-0.01295	0.258765	0.036203	0.958367	0.466353	0.958757
ROPN1B	-0.01647	-0.16985	-0.17149	-0.22624	0.904084	0.21506	0.206309	0.093604	-0.17542	-0.23039	-0.26607	-0.08365	0.121785	0.061729	0.038645	0.290228
C3orf22	0.00763	0.056092	0.167761	-0.28877	0.955082	0.681361	0.212262	0.029371	0.089969	-0.26167	0.163922	-0.22858	0.723948	0.039491	0.859031	0.063264
C3orf55	0.278296	-0.39621	0.19943	-0.13422	0.036069	0.002504	0.136938	0.319543	0.17894	-0.39213	0.023999	-0.34767	0.88295	0.003517	0.562173	0.008954
LOC100133	-0.10558	0.085108	0.007076	-0.15363	0.434441	0.532852	0.958336	0.253896	-0.1903	-0.2759	0.047835	-0.29079	0.102616	0.031732	0.622493	0.024967
ZCWPW2	0.182657	0.023103	0.010544	-0.17968	0.173846	0.865788	0.937954	0.181094	-0.06638	-0.08774	0.15551	-0.03692	0.332425	0.28328	0.84327	0.404871
CTSW	-0.07207	-0.31611	0.259266	0.4487	0.594194	0.017625	0.051476	0.000464	-0.14393	-0.26701	0.066744	-0.06163	0.169961	0.036417	0.668445	0.342048
CMC1	-0.0427	0.147568	-0.13453	0.041391	0.752496	0.27777	0.31842	0.759832	-0.13485	0.129333	-0.14253	-0.00552	0.185789	0.80418	0.175147	0.485478
NEK10	-0.0868	-0.07699	0.046168	-0.19305	0.520863	0.572784	0.733087	0.150211	-0.14162	-0.25509	0.107909	-0.16565	0.173915	0.043548	0.759772	0.135626
LOC152118	0.088409	-0.30307	0.257288	-0.10174	0.51313	0.023177	0.053346	0.451415	-0.02999	-0.35889	0.242163	-0.17734	0.422467	0.007738	0.943376	0.121925
CCDC50	-0.06081	-0.11951	0.088704	0.274636	0.656178	0.384787	0.515618	0.04052	0.198115	-0.22777	0.013299	-0.09531	0.906554	0.063952	0.534548	0.264322
PYDC2	0.085059	-0.31851	0.23186	-0.11779	0.529287	0.016738	0.082659	0.382852	-0.12955	-0.40705	0.172597	-0.28817	0.195413	0.002497	0.871554	0.026062
CCDC52	-0.03338	0.026911	-0.03837	-0.0524	0.805321	0.843923	0.776906	0.698655	0.010664	-0.08839	-0.01961	-0.17555	0.528039	0.279556	0.449142	0.12162
CMTM8	0.255264	-0.00632	0.100713	-0.08886	0.0576	0.963489	0.46018	0.514891	0.005286	-0.04108	-0.09791	-0.19375	0.513905	0.393179	0.261128	0.098493
NUDT16P	-0.08747	-0.05874	0.25073	-0.39741	0.517656	0.667168	0.059944	0.002206	0.142813	-0.39622	0.151025	-0.58971	0.828133	0.003206	0.838984	8.07E-06
CTSZ	-0.00055	-0.25325	0.164265	0.222964	0.996749	0.059667	0.22208	0.095494	0.175119	-0.10935	0.398116	-0.02907	0.875051	0.237286	0.996279	0.42482
CCDC13	-0.23439	-0.19054	0.025803	-0.38516	0.079276	0.159531	0.848899	0.003091	-0.26695	-0.41288	0.011772	-0.3249	0.036453	0.002175	0.530588	0.013793
LOC152217	-0.07706	0.028845	-0.08347	-0.02978	0.568846	0.832861	0.537013	0.825962	0.064325	-0.08929	0.019231	-0.05375	0.662683	0.279852	0.549303	0.362913
FGD5	0.227824	-0.20401	0.187567	0.198512	0.088302	0.131524	0.162365	0.138792	0.263629	-0.20378	0.15539	-0.02413	0.96166	0.087173	0.845961	0.436755
CUX1	0.007616	0.162027	-0.03185	-0.26467	0.955577	0.237263	0.815759	0.048693	0.016596	0.237453	0.068017	-0.07459	0.543584	0.943968	0.671459	0.31113
CIDCP	0.074792	-0.18377	0.190473	-0.13713	0.580307	0.17518	0.155838	0.309067	0.241069	-0.30209	0.248405	-0.43457	0.946727	0.020653	0.950052	0.001273
CNTN4	0.16382	-0.23183	0.193778	0.291533	0.232045	0.091643	0.156319	0.030807	0.269277	-0.43657	0.322035	-0.26531	0.964825	0.00121	0.98451	0.037376
CX3CR1	0.001674	-0.504	0.105124	0.071016	0.990229	8.75E-05	0.440665	0.60299	-0.10307	-0.45482	-0.1064	-0.36044	0.250238	0.000848	0.24592	0.007503
IGSF11	-0.01045	0.377266	-0.16284	-0.38473	0.938483	0.004153	0.226172	0.003127	-0.12353	0.13987	-0.15174	-0.15662	0.206699	0.823063	0.15986	0.149305
C3orf30	-0.02021	0.062287	0.157484	-0.25236	0.881382	0.64836	0.242018	0.058245	0.106419	-0.33234	0.277347	-0.34427	0.759256	0.012016	0.967446	0.009569
ZNF827	-0.00293	0.056551	-0.00887	-0.26318	0.982734	0.678891	0.947792	0.047933	0.015025	0.069304	0.134701	-0.08856	0.539474	0.6764	0.811167	0.279192
CXADR	-0.10649	0.175879	-0.23408	0.040935	0.43046	0.194766	0.079676	0.762398	-0.08913	0.315782	-0.03579	0.166414	0.280212	0.982705	0.408808	0.862708
SH3D19	0.028937	0.243409	-0.22213	-0.21567	0.830802	0.07065	0.096772	0.107128	0.087078	0.160276	0.063042	0.048678	0.7175	0.856342	0.659613	0.625991
NFXL1	-0.01529	0.162708	-0.20149	0.137655	0.910131	0.230863	0.132842	0.307199	0.159631	0.124822	-0.09816	0.056205	0.855357	0.795747	0.260605	0.644682
NPAL1	0.052274	0.264615	-0.03491	-0.02384	0.702002	0.050901	0.798377	0.861532	0.008819	0.393036	-0.17679	0.221033	0.523194	0.996554	0.122663	0.930054
PAQR3	-0.0212	0.164655	-0.19365	0.046514	0.875593	0.225256	0.148931	0.731163	0.094397	0.083573	-0.05017	-0.07705	0.733688	0.709589	0.371728	0.305382
SHISA3	-0.13724	-0.01117	0.096567	-0.28752	0.313154	0.935478	0.478947	0.031663	0.122144	-0.4093	0.199121	-0.33363	0.790644	0.002368	0.905127	0.01173
SCFD2	0.045109	0.359776	-0.04927	0.293677	0.741312	0.006978	0.718414	0.028035	-0.07624	0.501961	-0.12974	0.374647	0.307276	0.99981	0.197812	0.994845
LOC152586	-0.1402	-0.07788	-0.03849	-0.42801	0.302714	0.571955	0.778206	0.001	-0.0436	-0.3829	-0.07479	-0.35052	0.388052	0.004715	0.314724	0.009122
LOC152667	-0.08427	-0.01706	0.16168	-0.264	0.533122	0.900657	0.229543	0.047216	-0.14879	-0.1687	0.242668	-0.09882	0.161846	0.131199	0.945881	0.25676
ZNF595	0.103372	0.207149	0.019204	0.079503	0.444151	0.125555	0.887249	0.556622	0.30616	-0.09889	0.19309	-0.02207	0.980742	0.256602	0.898107	0.442128
TEX28	0.134206	0.012757	0.305943	0.004559	0.31959	0.925654	0.020643	0.973152	0.204314	-0.22033	0.092713	-0.13953	0.913402	0.070596	0.727658	0.17752
C4orf39	-0.03563	-0.23626	0.212261	-0.18076	0.792481	0.079591	0.112932	0.178445	0.14659	-0.41146	0.162934	-0.28434	0.834505	0.00225	0.857555	0.027735
JAKMIP1	-0.10782	-0.09384	0.241384	0.075448	0.424698	0.491495	0.070469	0.576982	-0.03939	-0.2374	0.144719	-0.12993	0.397465	0.056073	0.828561	0.194715
CYB5A	0.098009	0.127549	-0.1367	-0.07701	0.472374	0.348864	0.315063	0.572641	-0.22154	0.158555	-0.13378	0.099367	0.069484	0.853704	0.190489	0.744416
THAP6	0.109269	0.081823	-0.10447	0.049898	0.41845	0.548835	0.439292	0.712423	0.10232	0.165526	-0.00352	0.158666	0.750685	0.864194	0.490846	0.853876
C4orf26	-0.06728	-0.2701	-0.00946	-0.17898	0.619025	0.044093	0.944302	0.182818	-0.12358	-0.29421	0.01778	-0.13365	0.206609	0.023592	0.546144	0.18794
KLB	0.055489	-0.13647	0.140618	-0.18778	0.684603	0.320483	0.301275	0.165788	-0.02068	-0.35068	0.172601	-0.27184	0.445759	0.008438	0.871559	0.033809
FAM53A	-0.0407	-0.0904	0.297753	-0.17629	0.763714	0.507584	0.024482	0.189584	0.202038	-0.39124	0.2213	-0.29945	0.910931	0.003588	0.927983	0.021604
PPM1K	0.2281	-0.32775	0.230843	0.17591	0.087908	0.013668	0.084054	0.190567	0.43714	-0.48084	0.115032	-0.32165	0.998808	0.000359	0.774109	0.014636
C4orf45	0.013174	-0.32986	0.084628	-0.17299	0.923231	0.013916	0.535171	0.20233	-0.22527	-0.249	-0.01028	-0.05323	0.066129	0.047588	0.473293	0.362674
C4orf23	-0.25798	0.06671	-0.17552	-0.17176	0.054901	0.62845	0.195681	0.205585	-0.35619	0.205359	-0.12722	0.108942	0.007558	0.91452	0.202489	0.764452
ADRB1	-0.08181	-0.04433	0.123507	-0.36874	0.545197	0.745615	0.360027	0.004766	-0.08877	-0.24908	0.058889	-0.33538	0.278719	0.047532	0.649605	0.011349

RASGEF1B	-0.21312	-0.14284	-0.10562	-0.02396	0.111451	0.29363	0.43423	0.859601	-0.22858	-0.06062	0.070206	-0.051	0.063265	0.344496	0.676621	0.368201
DAB2IP	0.122998	-0.10381	0.171235	0.012608	0.362026	0.446424	0.20281	0.925839	0.164901	0.205139	0.037692	0.090749	0.863275	0.914285	0.597089	0.725678
SLC38A9	0.029825	0.313506	-0.24686	0.153874	0.825691	0.018632	0.064141	0.253119	0.089783	0.388934	-0.05046	0.184179	0.723537	0.996223	0.371	0.889769
SLC36A2	0.090482	-0.21558	0.23908	-0.29615	0.503265	0.110554	0.073277	0.025301	0.20185	-0.4254	0.353733	-0.41053	0.910725	0.001603	0.991432	0.0023
C5orf41	0.216149	-0.19398	0.05501	0.126147	0.106335	0.151989	0.684429	0.349774	0.260184	-0.39238	0.34699	-0.23453	0.959621	0.003497	0.990235	0.058339
CEP120	-0.00662	-0.01549	-0.11152	0.029134	0.961036	0.909803	0.408871	0.829665	0.009288	0.022544	0.062971	0.020466	0.524425	0.559109	0.659442	0.553695
LOC153328	0.004155	0.005854	0.277707	-0.21774	0.975529	0.965844	0.036481	0.103716	0.050021	-0.46703	0.172701	-0.34125	0.629348	0.000534	0.8717	0.010146
TMEM167	-0.02935	0.264713	-0.18946	0.251604	0.828403	0.048658	0.158096	0.059028	0.138738	0.317997	-0.23035	0.289042	0.818298	0.983363	0.066253	0.97293
LOC153364	0.106841	0.075966	-0.12402	0.198631	0.428925	0.577893	0.35801	0.138551	-0.00885	0.25099	0.034791	-0.00429	0.476723	0.953764	0.589743	0.488717
TMEM161	0.029723	0.264658	-0.21788	0.18361	0.826277	0.048707	0.103495	0.171573	0.056609	0.281009	-0.08828	0.13718	0.645676	0.970738	0.282074	0.818353
CYB561	-0.17721	-0.11724	0.078445	-0.05097	0.191358	0.393962	0.56551	0.709108	-0.3729	-0.03058	-0.31075	-0.05666	0.005351	0.420071	0.01887	0.354187
SRFBP1	-0.03368	0.18543	-0.25337	0.202078	0.803603	0.171239	0.057214	0.131695	-0.11015	0.417091	-0.21045	0.374533	0.233088	0.998035	0.082627	0.994832
PLEKHG4B	0.038824	-0.35455	0.217898	-0.40233	0.774322	0.007338	0.103465	0.001919	0.170158	-0.63453	0.171152	-0.45762	0.868111	1.43E-06	0.866679	0.000787
CYBA	-0.15938	-0.1804	-0.03387	0.24184	0.236332	0.183356	0.802492	0.069923	-0.32177	0.322152	-0.19225	0.258012	0.014603	0.985496	0.102895	0.958293
ZMAT2	-0.13827	0.145656	-0.26865	-0.22023	0.305032	0.284112	0.043315	0.099738	-0.18618	-0.04996	-0.06874	-0.10536	0.107705	0.370816	0.326832	0.242941
MARVELD2	-0.13168	0.40565	-0.23175	-0.12051	0.328877	0.001924	0.082813	0.371901	-0.04258	0.249889	0.0083	0.134158	0.390621	0.95109	0.521321	0.810196
C5orf38	-0.03681	-0.16585	0.195461	-0.19227	0.785743	0.22186	0.145089	0.151898	0.118482	-0.37002	0.206258	-0.25447	0.78355	0.005686	0.912983	0.043944
IRX2	0.027216	-0.15636	0.299953	-0.12889	0.840726	0.249814	0.023397	0.339322	0.323598	-0.3955	0.105735	-0.45534	0.984936	0.003583	0.752727	0.000836
BTNL9	-0.00353	-0.14708	0.235321	-0.05963	0.979224	0.279394	0.078051	0.659494	0.25497	-0.41479	0.18563	-0.34558	0.956375	0.002077	0.888928	0.009328
CYBB	-0.03792	-0.34805	-0.0059	0.492141	0.779447	0.008574	0.965256	0.000101	-0.12717	-0.19366	0.027377	0.038328	0.199834	0.098599	0.570842	0.599823
ARSK	0.060843	-0.11361	-0.16412	-0.11652	0.653004	0.404461	0.222503	0.388045	-0.12233	-0.179	0.043486	-0.08974	0.208999	0.116975	0.611657	0.276553
FAM81B	-0.07903	-0.19338	0.025812	-0.20617	0.558968	0.153286	0.848844	0.123882	-0.14594	-0.30641	0.112647	-0.21409	0.166584	0.019174	0.769362	0.076551
TTC23L	-0.1009	-0.13676	0.02693	-0.27517	0.455173	0.314867	0.842381	0.0383	-0.17449	-0.23907	0.050293	-0.18696	0.12307	0.054783	0.628577	0.106729
LOC153684	-0.04601	-0.06945	-0.01386	-0.27497	0.736313	0.614393	0.919261	0.04027	-0.22164	-0.28891	-0.01176	-0.20286	0.06939	0.02575	0.469455	0.088172
CYC1	-0.00946	-0.01112	-0.01763	0.201053	0.944805	0.935779	0.897369	0.137324	-0.19027	0.605767	-0.38505	0.3765	0.102656	0.999996	0.004502	0.995045
CCDC112	-0.04754	-0.07136	-0.08835	-0.19119	0.725455	0.601212	0.513428	0.154251	-0.04264	-0.22332	0.063991	-0.14564	0.39046	0.070154	0.660076	0.169898
PPP1R2P3	0.133101	-0.46518	-0.0524	0.038878	0.32363	0.000303	0.698653	0.774017	-0.11161	-0.38642	0.07231	-0.26922	0.230129	0.003994	0.68155	0.035208
FAM71B	0.030373	-0.22725	0.208429	-0.17864	0.822539	0.092118	0.119736	0.183676	0.063319	-0.36327	0.142954	-0.25524	0.662045	0.006542	0.82557	0.04345
PRELID2	0.093149	-0.04307	0.032889	0.025524	0.49071	0.752633	0.808103	0.850513	0.168459	0.10036	-0.0629	0.098705	0.868456	0.746534	0.340722	0.743001
SH3RF2	-0.0225	0.460301	-0.11136	-0.06115	0.869289	0.000406	0.413882	0.654386	0.05588	0.66346	-0.17971	0.381725	0.643881	1	0.118755	0.995574
PLAC8L1	0.136393	-0.18333	0.387382	-0.13043	0.316177	0.180324	0.003182	0.337978	0.100633	-0.22799	0.093604	-0.26336	0.747113	0.063763	0.729596	0.038499
CYLC1	-0.00312	-0.1945	0.166159	-0.20219	0.981598	0.150872	0.216724	0.131467	-0.00695	-0.30535	0.104272	-0.23847	0.481928	0.020691	0.749714	0.057334
RNF145	-0.08686	0.261681	-0.20168	0.284813	0.524422	0.053621	0.136081	0.033374	-0.01314	0.357894	-0.05513	0.175672	0.465874	0.992107	0.361127	0.875808
CYLC2	0.103374	-0.16624	0.059169	-0.31973	0.444143	0.220758	0.661964	0.015333	0.024789	-0.2464	0.083291	-0.29711	0.564947	0.049399	0.706763	0.022474
FAM164B	-0.11357	-0.03889	-0.20342	-0.29954	0.400258	0.775954	0.129104	0.023598	-0.04021	-0.30769	0.016596	-0.32832	0.396566	0.019884	0.542575	0.013836
ADRB2	-0.01625	-0.05704	0.033211	0.357773	0.904486	0.676252	0.806261	0.006288	0.099198	-0.01804	-0.00047	-0.14912	0.74161	0.453194	0.498793	0.164129
CYLD	0.020384	0.183625	-0.16671	0.385587	0.880367	0.175518	0.215194	0.003056	0.093307	0.248379	-0.00039	0.277172	0.731307	0.951986	0.498979	0.968899
SNRNP48	0.05159	0.21934	-0.13262	0.120332	0.703116	0.10433	0.325396	0.372603	0.119088	0.149303	-0.13956	0.226676	0.782059	0.836178	0.183133	0.932852
CNKSR3	0.044194	0.387388	-0.14301	0.155865	0.744102	0.003181	0.288566	0.246956	-0.0967	0.655856	-0.16166	0.4598	0.261315	1	0.144361	0.999347
RAET1L	-0.10793	0.401657	-0.17051	-0.20538	0.428474	0.00237	0.208959	0.128887	-0.05916	0.469472	-0.26365	0.18706	0.348068	0.999502	0.04006	0.8934
SAMD3	-0.08753	-0.20091	0.074434	0.175915	0.517327	0.137601	0.582128	0.190555	-0.00805	-0.30879	0.104525	-0.10632	0.479072	0.019516	0.750237	0.24349
SLC2A12	-0.081	0.226145	-0.13937	-0.36973	0.549182	0.093751	0.301145	0.004646	-0.2633	0.005403	-0.0638	-0.0855	0.040273	0.514051	0.34038	0.28828
MBOAT1	-0.18428	0.166996	-0.23556	-0.0913	0.17396	0.222992	0.080517	0.503377	-0.09846	0.297553	-0.10001	0.18449	0.257517	0.977695	0.256661	0.890165
HDGFL1	-0.11067	-0.09692	0.119181	-0.16189	0.41248	0.477331	0.377227	0.228929	-0.01171	-0.44751	0.187803	-0.30249	0.469209	0.000909	0.891659	0.020512
PNLDC1	-0.11022	-0.21808	-0.03812	-0.34687	0.414377	0.10638	0.778316	0.008207	-0.11604	-0.47515	0.077234	-0.41584	0.221249	0.000424	0.692967	0.002026
RNF217	0.095373	0.274059	-0.19379	0.096112	0.48037	0.040961	0.148622	0.47696	0.419643	0.138705	0.069398	0.107577	0.998153	0.821032	0.674719	0.761648
NKAIN2	0.000686	-0.06845	0.173927	-0.23834	0.995962	0.616167	0.195695	0.074194	0.242399	-0.33385	0.18992	-0.30224	0.947716	0.011682	0.894274	0.020602
C6orf221	0.00822	-0.06774	0.234518	-0.19856	0.951607	0.619868	0.079101	0.138689	0.090063	-0.32264	0.105645	-0.427	0.721854	0.015325	0.752542	0.001721
CYP1A1	-0.00816	0.133657	0.037757	0.090602	0.951991	0.326073	0.780367	0.502696	-0.05239	0.149919	-0.18903	0.119175	0.367783	0.834307	0.11237	0.779502
C6orf165	-0.06041	-0.13511	0.046632	-0.18491	0.6553	0.320779	0.730506	0.168514	-0.19544	-0.25159	0.088302	-0.15063	0.096522	0.045832	0.717965	0.158836

C6orf195	-0.13833	-0.02653	0.163523	-0.1424	0.304824	0.846133	0.224205	0.290644	-0.00916	-0.32303	0.172796	-0.26012	0.475915	0.014273	0.871832	0.04042
CYP1A2	-0.14018	-0.04285	0.115767	-0.20805	0.298339	0.753862	0.391145	0.120419	-0.08098	-0.28955	0.156878	-0.25448	0.296336	0.025479	0.848294	0.04394
C6orf129	-0.12953	-0.16326	0.064406	-0.00731	0.336909	0.229277	0.634091	0.956944	-0.09999	-0.16769	0.084711	-0.07081	0.254259	0.132647	0.709959	0.320015
CYP1B1	0.011091	0.268075	-0.0147	0.152907	0.934743	0.045763	0.91357	0.25615	-0.02147	0.283189	-0.01031	0.301157	0.444335	0.970287	0.473529	0.977801
RUNDC3B	0.110629	-0.17121	0.069954	0.144559	0.416964	0.211358	0.608433	0.287791	0.155973	-0.2826	0.202829	-0.17894	0.849689	0.028523	0.909269	0.117046
ABCA13	-0.09686	-0.00716	0.024094	0.062083	0.477591	0.958232	0.860086	0.649435	-0.30302	0.141214	-0.05281	0.114654	0.020329	0.825391	0.365231	0.775992
C7orf60	-0.00717	0.09006	-0.18549	0.139003	0.957778	0.509197	0.167148	0.302439	-0.00231	0.018026	0.039176	0.064643	0.493911	0.547323	0.600834	0.665241
TRY6	0.03914	-0.23605	-0.04827	-0.15525	0.772534	0.079869	0.7214	0.248853	0.010673	0.092083	-0.1456	-0.00051	0.528061	0.72862	0.169956	0.498653
C7orf55	-0.07668	-0.07224	0.158544	-0.03352	0.570781	0.596762	0.238825	0.804506	0.016395	-0.08108	0.020267	-0.20399	0.543058	0.296102	0.552565	0.086952
AMOT	0.11741	-0.16864	-0.04921	-0.36093	0.384409	0.214078	0.716246	0.005811	0.025628	-0.23572	0.209493	-0.17718	0.566358	0.059522	0.913844	0.122142
CYP2A6	0.117247	-0.03293	0.004215	-0.02216	0.38947	0.811352	0.975403	0.871231	0.024355	-0.029	0.066923	-0.08224	0.563819	0.42415	0.668869	0.293439
VKORC1L1	0.019602	0.376869	-0.09863	0.173158	0.884925	0.004196	0.465435	0.197709	0.006311	0.530051	-0.16677	0.352533	0.516602	0.999924	0.136777	0.991867
AMOTL1	0.490387	-0.09769	0.203931	-0.00715	0.000144	0.482228	0.135332	0.95867	0.413684	-0.10839	0.201249	0.085128	0.997867	0.236684	0.907521	0.713111
IQUB	-0.08007	-0.10202	-0.0059	-0.18064	0.553826	0.454348	0.965271	0.178722	-0.12451	-0.24849	0.098843	-0.13637	0.204853	0.047937	0.740857	0.183088
LOC154872	0.040359	-0.01791	0.086342	-0.1683	0.765647	0.895759	0.523072	0.210764	-0.05056	-0.2917	0.088162	-0.32627	0.369317	0.024594	0.717654	0.013451
KCTD7	0.212746	-0.2145	0.174905	0.171835	0.112092	0.112395	0.193153	0.201208	0.294561	-0.21025	0.143391	-0.1162	0.975246	0.082836	0.823445	0.22359
CYP2A7	-0.16484	-0.25516	-0.00486	-0.20042	0.22044	0.057704	0.971372	0.134964	-0.33102	-0.29557	0.213172	-0.16616	0.013172	0.024348	0.917636	0.137666
C7orf66	0.150746	-0.13381	0.105313	-0.23602	0.263011	0.325512	0.435595	0.077146	0.174452	-0.32028	0.040261	-0.317	0.874133	0.01598	0.602368	0.016931
ADRB3	0.193369	-0.10833	0.419636	-0.14674	0.157211	0.43553	0.001426	0.285058	0.09783	-0.30846	0.244276	-0.21751	0.738696	0.019623	0.94498	0.075598
GIMAP8	0.121623	-0.24423	0.157718	0.438485	0.36746	0.069678	0.24131	0.000646	0.360553	-0.34687	0.240737	-0.09833	0.993082	0.009095	0.944419	0.257795
CRYGN	-0.06791	-0.22633	0.151895	-0.13755	0.615722	0.093469	0.259347	0.307561	0.029343	-0.42149	0.221688	-0.31215	0.576746	0.001766	0.928343	0.017348
ZNF425	-0.10919	0.030773	-0.05919	-0.34805	0.418783	0.821868	0.661877	0.007977	0.197458	-0.34275	0.201892	-0.30992	0.905805	0.009855	0.908235	0.018039
ZNF783	-0.00755	-0.26642	0.156778	-0.16088	0.955561	0.047169	0.244163	0.231879	0.120585	-0.25051	0.091388	-0.10395	0.78764	0.046561	0.724764	0.24588
ZNF746	0.144455	-0.29314	0.281407	-0.0879	0.283682	0.028338	0.033958	0.515568	0.206757	-0.37509	0.195694	-0.24532	0.915998	0.005107	0.901182	0.050166
ATP6V0E2	0.148248	-0.27376	0.177239	-0.01121	0.275537	0.041193	0.191282	0.934671	0.220986	-0.38707	0.276666	-0.33774	0.930011	0.003936	0.967101	0.010852
CYP3A7	0.118255	-0.05758	-0.05804	-0.42055	0.385376	0.676267	0.670891	0.00125	0.058643	-0.05546	0.046437	-0.36605	0.649009	0.358729	0.617652	0.006701
CCT8L1	-0.04732	-0.17677	0.147835	-0.36832	0.726692	0.192487	0.272445	0.004818	0.095726	-0.21378	0.2438	-0.27324	0.736579	0.076848	0.946725	0.033079
SLC2A7	0.079865	-0.10862	0.193613	-0.18595	0.55482	0.425547	0.149004	0.16609	0.10661	-0.34796	0.188545	-0.30787	0.75965	0.008903	0.892581	0.018697
AMZ1	0.02967	-0.23413	0.245426	-0.20247	0.826581	0.08243	0.06575	0.13094	0.114735	-0.33442	0.195926	-0.24922	0.776153	0.011557	0.901452	0.047437
CYP2A13	-0.04521	-0.22876	0.102279	-0.05405	0.738424	0.08991	0.449008	0.689662	-0.25492	-0.25111	-0.0354	-0.09445	0.043659	0.046155	0.408724	0.266191
WBSCR27	-0.13926	-0.11415	0.038093	-0.30113	0.301535	0.402184	0.778459	0.022833	-0.18895	-0.32798	-0.05685	-0.29009	0.104265	0.013034	0.355344	0.025253
VPS37D	0.039916	-0.23044	0.299938	-0.18392	0.768146	0.087513	0.023404	0.170847	0.155201	-0.32044	0.103518	-0.26166	0.848475	0.014962	0.750703	0.039495
RBM33	-0.0118	0.120473	0.023171	0.237257	0.930592	0.376464	0.864156	0.075563	0.30435	-0.11002	0.158987	-0.24552	0.980131	0.233346	0.851562	0.050021
AGR3	-0.05247	-0.20327	-0.00058	-0.1586	0.698302	0.132953	0.996577	0.238651	-0.30672	-0.07822	0.016273	-0.02092	0.019073	0.302688	0.542248	0.445133
CYP2B6	-0.22751	0.054423	0.017043	0.135075	0.09173	0.693111	0.900783	0.320919	-0.13594	0.057192	0.145897	0.04892	0.183854	0.64711	0.830539	0.626598
CYP2B7P1	-0.17178	0.151907	-0.08606	-0.20047	0.201367	0.263725	0.524437	0.134869	-0.16349	0.112761	-0.03676	-0.09294	0.138824	0.772202	0.405258	0.269488
CYP2C19	-0.1896	0.525927	-0.17845	-0.18201	0.157774	3.15E-05	0.184144	0.175398	-0.1729	0.314495	-0.23984	0.160698	0.12526	0.983358	0.056269	0.856983
CYP2C8	-0.06127	-0.19825	-0.07286	-0.30604	0.653724	0.146807	0.593575	0.021798	-0.08782	-0.37311	0.041841	-0.28201	0.280832	0.005327	0.607534	0.028794
CYP2C9	-0.14446	0.444347	-0.0987	-0.20761	0.283652	0.000602	0.465107	0.12123	-0.15391	0.271936	-0.03376	0.190093	0.153577	0.966242	0.412878	0.89713
ADRBK1	-0.02555	-0.04871	-0.02603	0.204133	0.850343	0.721472	0.847558	0.127731	-0.11273	0.323533	-0.10956	0.204956	0.227863	0.985856	0.236864	0.91409
CYP2C18	-0.22346	0.577421	-0.33633	-0.07313	0.094737	3.18E-06	0.010529	0.588773	-0.13867	0.54097	-0.21832	0.286405	0.179029	0.999948	0.074822	0.973176
CYP2D7P1	-0.03473	0.089462	0.066742	-0.10048	0.799392	0.515995	0.62503	0.461218	0.088674	0.0976	-0.07379	-0.02195	0.72107	0.740629	0.315003	0.442442
CYP2D6	-0.03455	-0.12375	0.105266	-0.13903	0.798634	0.363515	0.4358	0.302334	0.059838	-0.20402	0.121081	-0.14362	0.653588	0.086915	0.785907	0.170488
ADRBK2	-0.10169	-0.16897	-0.03314	0.069558	0.451637	0.213159	0.806646	0.607153	-0.05849	-0.34029	0.177643	-0.03364	0.349699	0.010334	0.878484	0.41218
CYP2E1	-0.0146	0.242807	-0.0807	-0.08235	0.914133	0.071371	0.550699	0.542554	0.2041	0.0299	0.119925	-0.21587	0.913172	0.578186	0.783681	0.074814
CYP2F1	-0.13413	0.088781	-0.14061	-0.21955	0.319877	0.515256	0.296814	0.100817	-0.26299	0.135367	-0.02701	0.179748	0.038714	0.815133	0.430094	0.88402
PRAGMIN	-0.04372	0.02891	0.139303	-0.08926	0.746728	0.832493	0.301388	0.509051	0.096762	0.055674	0.114802	1.60E-06	0.738822	0.643375	0.773654	0.500004
CYP2J2	-0.07864	0.105393	-0.01107	-0.18256	0.564528	0.443797	0.935482	0.17809	-0.25524	0.061202	-0.11174	-0.06353	0.043453	0.656911	0.232463	0.337456
PEBP4	-0.02343	-0.12219	0.201986	-0.12327	0.8639	0.369643	0.135471	0.365386	0.288659	-0.5296	0.253587	-0.42335	0.974145	7.69E-05	0.953603	0.001687
CDCA2	-0.18838	0.249736	-0.17805	0.002461	0.168408	0.068575	0.193408	0.985775	-0.15388	0.539748	-0.18997	0.322344	0.153619	0.999946	0.105669	0.985547

TMEM65	-0.15128	0.11287	-0.35303	0.236735	0.261301	0.407532	0.007069	0.076227	-0.03345	0.397984	-0.08904	0.127292	0.412668	0.99692	0.280392	0.80039
RDH10	-0.16451	0.488121	-0.24407	0.01138	0.221379	0.000135	0.067298	0.933044	-0.16999	0.543491	-0.18991	0.330961	0.129358	0.999953	0.105743	0.987669
ANKRD46	0.078216	0.132266	-0.24702	0.089824	0.563048	0.331178	0.063958	0.506385	0.172055	0.23956	0.030289	0.131411	0.873557	0.945589	0.578286	0.807994
ESCO2	0.018464	0.300023	-0.10525	-0.08697	0.892558	0.02605	0.440124	0.523892	-0.10274	0.610118	-0.2244	0.336056	0.248436	0.999997	0.06918	0.988796
FBXO16	-0.12405	0.035494	0.038009	-0.2242	0.357887	0.795091	0.778934	0.093624	-0.20688	-0.01243	-0.11876	-0.08545	0.083867	0.467338	0.21857	0.286163
CYP3A4	-0.00966	0.022423	0.060845	-0.07806	0.943126	0.869703	0.65299	0.56383	-0.05518	-0.18812	-0.13954	-0.10036	0.357848	0.105292	0.18031	0.253476
FAM84B	0.032724	0.178728	-0.1509	0.141141	0.809048	0.18752	0.262518	0.294992	-0.0967	0.523052	-0.27839	0.313625	0.261319	0.999904	0.032031	0.9831
C8orf37	-0.11128	0.077473	-0.16749	-0.23559	0.409889	0.570355	0.213006	0.077706	-0.13036	-0.09818	-0.08532	-0.10471	0.193923	0.258122	0.288674	0.24429
VPS13B	0.094936	0.104221	-0.12679	0.030731	0.482394	0.444622	0.347285	0.820481	0.096477	0.043269	0.002599	0.092073	0.738206	0.612379	0.506759	0.728598
C8orf42	0.17972	-0.35945	0.181182	-0.27553	0.180989	0.006513	0.177407	0.038034	-0.05831	-0.41048	0.148651	-0.26644	0.351798	0.00255	0.83223	0.038433
ERICH1	0.231012	0.017032	-0.01683	0.074032	0.086713	0.901777	0.902025	0.587641	0.207858	-0.37086	0.260715	-0.28775	0.917151	0.005586	0.958164	0.02624
CYP3A5	-0.17666	0.54128	-0.37347	-0.17492	0.188659	1.65E-05	0.004217	0.193125	0.037635	0.467689	-0.15592	0.104739	0.598054	0.999476	0.153202	0.755762
SEC11B	-0.11926	0.150912	-0.24061	-0.112	0.376908	0.266902	0.071408	0.406856	0.015095	-0.07913	-0.05276	-0.0233	0.539199	0.30269	0.366866	0.439632
SLC7A13	-0.01941	-0.18457	0.057297	-0.20171	0.887081	0.17733	0.67489	0.13602	-0.09806	-0.26764	0.013835	-0.29239	0.260818	0.03775	0.535512	0.025644
TDH	-0.05379	-0.2917	0.111179	-0.2484	0.693796	0.030709	0.414639	0.064899	0.045792	-0.51348	0.051152	-0.34657	0.618746	0.000131	0.630696	0.009149
LOC15774C	-0.14186	-0.18416	0.014849	0.037886	0.292499	0.17425	0.912701	0.779635	-0.043	-0.29313	0.199138	-0.03267	0.388302	0.024019	0.905147	0.414663
TMEM74	0.050218	-0.30118	0.224418	-0.08987	0.710659	0.024094	0.093295	0.506171	0.226295	-0.42064	0.306338	-0.28717	0.934767	0.001803	0.979654	0.026492
FAM91A1	0.007253	0.206455	-0.253	0.275313	0.957298	0.126855	0.057588	0.038195	0.063686	0.474217	-0.12287	0.373583	0.662932	0.999565	0.210676	0.994727
C8orf48	-0.10843	-0.03195	0.078324	-0.26329	0.422038	0.815185	0.562507	0.047839	-0.02554	-0.42397	0.021732	-0.42259	0.433856	0.001852	0.555679	0.001915
C8orf45	-0.16336	-0.00181	-0.06804	-0.29454	0.224666	0.989411	0.615041	0.026144	-0.24143	-0.13009	0.020448	-0.10155	0.053005	0.194429	0.553031	0.250934
RLBP1L1	0.025008	-0.19499	0.194334	-0.34391	0.854836	0.153686	0.151235	0.009453	0.023175	-0.36839	0.0551	-0.27293	0.560753	0.005884	0.640387	0.03324
NKX6-3	-0.11913	-0.20053	0.129194	-0.03999	0.377415	0.138366	0.33816	0.767755	0.125826	-0.29061	0.063428	-0.20759	0.797641	0.02504	0.660539	0.083124
C8orf84	0.325933	-0.17356	0.204696	0.246486	0.013354	0.200804	0.12666	0.064555	0.305037	-0.27554	0.255972	-0.09116	0.980365	0.03191	0.95517	0.273407
CYP4A11	0.106494	-0.02166	0.190732	-0.15184	0.430436	0.874126	0.155266	0.25952	-0.04149	-0.27083	-0.06164	-0.37163	0.392142	0.034341	0.343765	0.005496
CAMSAP1	-0.29666	0.302167	-0.26276	-0.18708	0.025038	0.023611	0.048301	0.163474	-0.45047	0.302782	-0.16905	0.208522	0.00084	0.979589	0.133472	0.91784
C9orf62	-0.02168	-0.20539	0.185369	-0.26604	0.872836	0.128879	0.167433	0.045469	-0.05053	-0.24929	-0.04201	-0.22156	0.369372	0.047388	0.39205	0.069466
C9orf66	-0.1631	-0.12677	0.092682	-0.18881	0.225409	0.351855	0.492896	0.159553	-0.02682	-0.31928	0.031205	-0.34861	0.429779	0.015277	0.580624	0.00879
ADSL	-0.09858	0.090297	-0.33594	0.168939	0.465668	0.508077	0.010625	0.209022	-0.34482	0.490434	-0.38137	0.395721	0.010179	0.999687	0.005321	0.996435
CYP4B1	-0.06706	-0.05949	-0.14227	-0.20448	0.620155	0.6632	0.291111	0.127061	-0.19766	0.024727	-0.05198	0.018747	0.093959	0.564785	0.367253	0.549209
LINGO2	-0.13389	-0.04874	0.0148	-0.34518	0.32523	0.723798	0.913791	0.009176	0.123114	-0.39988	0.226531	-0.32864	0.789793	0.003249	0.930387	0.013757
NXNL2	-0.05994	-0.16673	0.210331	-0.10227	0.657852	0.219376	0.11632	0.449026	-0.04707	-0.26258	0.122571	-0.25101	0.378036	0.038951	0.788759	0.046224
C9orf163	-0.02724	-0.06168	0.154472	-0.14443	0.840605	0.651572	0.251256	0.283757	0.058369	-0.39698	0.180533	-0.42146	0.649997	0.003152	0.882338	0.001767
MAMDC4	0.012883	-0.09612	0.247469	-0.1546	0.924226	0.480979	0.063463	0.250866	0.207621	-0.30378	0.189852	-0.23426	0.916903	0.020063	0.894191	0.058554
LCN6	0.085669	-0.26228	0.267826	-0.05432	0.526325	0.050845	0.043988	0.688166	0.166949	-0.30668	0.19343	-0.17681	0.866274	0.019086	0.898512	0.119905
C9orf98	-0.1815	-0.24505	0.017289	-0.25005	0.176642	0.068719	0.898429	0.060662	-0.22949	-0.3192	0.026151	-0.22656	0.062494	0.0153	0.567699	0.065004
CYP7A1	0.058792	-0.10285	0.169149	-0.22472	0.663989	0.450668	0.208449	0.09285	0.025182	-0.32893	0.070555	-0.18818	0.565969	0.012806	0.677441	0.105209
OR1Q1	0.04945	0.017348	0.051373	-0.27549	0.714894	0.899017	0.704303	0.038068	-0.08245	-0.17701	0.045147	-0.03442	0.292972	0.119627	0.615805	0.410189
TTLL11	-0.07289	-0.11649	0.051964	-0.23968	0.593412	0.397033	0.703688	0.075208	0.162155	-0.37262	0.111318	-0.41038	0.859185	0.005382	0.766692	0.002308
RASEF	-0.1045	0.292678	-0.06795	-0.22339	0.43917	0.028598	0.615514	0.094844	-0.06402	0.275571	-0.09753	-0.01058	0.336257	0.968105	0.261949	0.472187
HSD17B7P2	0.195982	0.129038	0.123155	-0.02562	0.143998	0.343218	0.361411	0.849956	0.354158	-0.12335	0.171469	-0.2755	0.992127	0.207059	0.86997	0.031932
CYP8B1	0.145808	-0.10928	0.314981	-0.31416	0.279148	0.422701	0.017011	0.017318	0.157578	-0.38544	0.203953	-0.30387	0.852194	0.004081	0.910499	0.020035
TTC39B	-0.09131	0.440954	-0.26698	0.107057	0.503314	0.00067	0.046692	0.432258	-0.18676	0.499203	-0.17863	0.284859	0.106981	0.999793	0.120185	0.972495
RG9MTD3	-0.06502	0.176337	-0.16893	-0.01457	0.630854	0.193589	0.209056	0.914356	-0.10247	0.185715	-0.04242	0.109334	0.249004	0.891714	0.391025	0.765254
TTC16	-0.20164	-0.2816	0.089863	-0.36384	0.132547	0.03551	0.506197	0.0054	-0.22801	-0.42101	0.016871	-0.43084	0.06375	0.001786	0.543793	0.001399
FLJ31713	0.077224	-0.27819	0.167967	-0.17961	0.568023	0.037896	0.211693	0.181251	0.188875	-0.22296	0.103034	-0.17501	0.895643	0.068188	0.749691	0.122347
FAM120AC	-0.05498	0.260842	0.07662	-0.14078	0.684612	0.052174	0.571063	0.296234	0.333265	0.03874	0.095086	-0.21745	0.98819	0.600876	0.732805	0.073297
MGC24103	0.289844	0.071062	0.0581	0.16904	0.030248	0.606164	0.670594	0.212973	0.154518	0.08141	-0.03622	-0.02702	0.847395	0.704659	0.406632	0.42926
FAM154A	-0.23872	-0.11947	-0.00532	-0.33118	0.073719	0.380469	0.968657	0.011855	-0.2566	-0.37507	-0.04446	-0.41088	0.042588	0.005109	0.385899	0.002281
CYP11A1	0.015527	-0.09298	0.246782	-0.35081	0.909573	0.499543	0.066718	0.00803	0.075785	-0.50401	0.261814	-0.34947	0.691666	0.000178	0.958835	0.008642
FREM1	0.313829	-0.05862	0.153217	0.288325	0.017442	0.667812	0.255176	0.02963	0.101924	-0.03222	0.216786	0.220823	0.74985	0.415844	0.923698	0.929861

KIAA2026	-0.03078	0.296095	-0.1837	0.173545	0.820192	0.026709	0.17136	0.196693	0.216229	0.211401	-0.06302	0.179216	0.925534	0.920779	0.340434	0.883317
LOC158381	-0.11463	0.028358	0.047042	-0.31496	0.395854	0.835643	0.728227	0.017019	0.037209	-0.12874	-0.02495	-0.25862	0.595867	0.199664	0.436149	0.043141
ZNF483	0.335796	-0.30004	0.193156	0.043351	0.01066	0.024662	0.149984	0.748825	0.26395	-0.47788	0.203016	-0.2065	0.961845	0.000392	0.909474	0.084275
CYP11B1	0.056457	-0.21843	0.129427	-0.2299	0.676582	0.105804	0.337282	0.085369	0.037826	-0.17114	0.275576	-0.10381	0.598544	0.127727	0.966543	0.246172
C9orf84	-0.17595	0.265184	-0.08915	-0.15445	0.190477	0.048244	0.509608	0.251335	-0.25437	0.20891	-0.0263	0.116938	0.044008	0.918241	0.431912	0.780518
KIAA1958	-0.07121	0.071681	0.117239	-0.54517	0.598638	0.599591	0.385108	1.16E-05	-0.18073	-0.15917	-0.03057	-0.32024	0.114687	0.145355	0.420992	0.015014
C9orf97	-0.01647	0.237725	-0.16537	0.165956	0.903234	0.077693	0.218955	0.217293	0.081219	0.348203	0.013878	0.172175	0.704223	0.991139	0.536047	0.873725
ZNF782	-0.01265	0.261739	-0.14959	0.039263	0.925585	0.051342	0.266731	0.771838	-0.16166	0.134619	-0.30081	0.050178	0.147233	0.808185	0.024991	0.626828
PRUNE2	0.350848	-0.09713	0.234065	0.029536	0.007455	0.47638	0.079699	0.82735	0.328102	-0.43057	0.265834	-0.2547	0.986996	0.001409	0.961218	0.043796
CYP11B2	-0.05533	-0.26377	0.205452	-0.21421	0.682696	0.0495	0.125233	0.109594	-0.06104	-0.32258	0.043194	-0.36024	0.343492	0.01439	0.610926	0.006961
ZNF645	-0.00316	0.048072	0.146281	-0.11302	0.981403	0.724966	0.277574	0.402564	-0.00162	-0.05672	0.199302	-0.117	0.495785	0.355668	0.902687	0.222005
CSAG1	-0.04694	-0.07529	0.037017	-0.28392	0.728773	0.581288	0.784565	0.032327	0.092471	-0.26887	0.181383	-0.44658	0.729473	0.035398	0.883455	0.000932
FMR1NB	-0.04652	-0.20233	0.202047	-0.21362	0.731125	0.134787	0.131755	0.110583	0.049127	-0.27839	0.185265	-0.24859	0.627116	0.030506	0.888464	0.047866
LOC158572	0.063391	-0.05585	0.166917	-0.07139	0.642545	0.685456	0.21886	0.601069	0.211435	-0.25286	-0.01651	-0.26749	0.920813	0.044994	0.457127	0.036152
FAAH2	-0.194	0.168181	-0.06996	0.18085	0.148187	0.215341	0.605098	0.178217	-0.37607	0.456595	-0.29851	0.320437	0.005002	0.999288	0.023198	0.985039
ZXDB	0.044877	0.02327	0.168836	-0.06259	0.740287	0.864827	0.209304	0.643711	0.308431	-0.23894	0.245822	-0.14185	0.981486	0.054888	0.948206	0.173509
CYP17A1	-0.04006	-0.14084	0.206203	-0.11305	0.767316	0.300517	0.123829	0.402441	0.129442	-0.32056	0.225659	-0.19346	0.80438	0.014929	0.931949	0.098833
ADAM3A	0.002695	-0.14671	0.179487	-0.36581	0.984126	0.280597	0.181564	0.005136	0.1798	-0.35368	0.120536	-0.26279	0.881368	0.008577	0.78212	0.040578
FAM47A	0.009451	-0.21025	0.149319	-0.22441	0.944372	0.119861	0.26761	0.093309	0.039707	-0.30004	0.136132	-0.28334	0.603339	0.021386	0.813714	0.028187
MOSPD2	-0.00753	0.106544	-0.217	0.160253	0.955684	0.434481	0.104936	0.233735	-0.02996	0.180993	0.001739	0.21653	0.421649	0.885656	0.504523	0.925823
RP13-102H	-0.01081	-0.10831	0.082149	-0.25828	0.93641	0.426851	0.543522	0.052406	0.141138	-0.38004	0.216288	-0.4593	0.825259	0.004591	0.923215	0.000662
RIBC1	-0.15202	-0.12118	0.06295	-0.34404	0.258942	0.373646	0.641792	0.008782	-0.30189	-0.27714	-0.02194	-0.21394	0.020724	0.031116	0.443126	0.076698
AKAP14	-0.16735	-0.1631	-0.02344	-0.26896	0.213406	0.229733	0.862608	0.043069	-0.21763	-0.28664	0.065988	-0.18042	0.073125	0.026723	0.666646	0.115096
CYP19A1	-0.01035	0.074942	0.073644	-0.20811	0.939098	0.583049	0.586153	0.120324	0.069108	-0.39792	0.117684	-0.40154	0.675934	0.003085	0.779325	0.002839
RHOXF1	-0.07334	0.008373	0.155787	-0.27168	0.587677	0.951165	0.247193	0.040923	-0.21395	-0.06859	0.01366	-0.0855	0.076686	0.325298	0.535483	0.286057
CXorf42	-0.11945	-0.15374	0.019414	-0.30802	0.376154	0.257931	0.886021	0.019757	-0.26788	-0.27171	0.028066	-0.29131	0.035939	0.033879	0.572604	0.024751
MAGEB6	0.063656	-0.15405	0.251245	-0.24261	0.638052	0.256977	0.059403	0.069005	0.056701	-0.34154	0.143823	-0.20985	0.645903	0.010089	0.827046	0.080791
CXorf65	-0.05147	-0.08161	0.15375	0.431216	0.703763	0.549879	0.253507	0.000812	0.005973	-0.22555	0.332961	-0.16099	0.515713	0.06589	0.987289	0.14258
AWAT1	0.082144	-0.34834	0.252016	-0.18145	0.543546	0.008516	0.058601	0.176752	0.005347	-0.36435	0.299816	-0.36709	0.514066	0.006399	0.9773	0.006046
AWAT2	0.053715	-0.01642	0.176715	-0.25587	0.691484	0.904422	0.188515	0.054716	0.10089	-0.29042	0.208228	-0.31621	0.74766	0.025118	0.915066	0.016142
ZDHC15	0.282944	0.059258	-0.05065	0.119539	0.032954	0.664415	0.708273	0.375784	0.201441	0.230292	-0.04527	0.179719	0.910275	0.938184	0.383896	0.883982
USP51	0.023234	-0.25578	0.058485	-0.41059	0.863793	0.057079	0.665642	0.001512	-0.17481	-0.48258	0.128958	-0.3083	0.122627	0.000341	0.80074	0.018556
CYP21A2	-0.0355	-0.15362	0.009222	-0.19178	0.7932	0.258313	0.945719	0.152964	0.078026	-0.21041	0.134608	-0.22202	0.696872	0.080228	0.811	0.069046
TCEAL6	0.188632	-0.35275	0.118152	-0.24434	0.15995	0.007665	0.381391	0.066997	0.25236	-0.44533	0.326259	-0.34044	0.954677	0.000963	0.985638	0.010305
H2BFWT	-0.06302	-0.00289	0.166364	-0.15431	0.641444	0.983147	0.216149	0.251774	-0.01656	-0.12121	0.094766	-0.20554	0.456503	0.211156	0.732113	0.085286
ADSS	-0.00818	0.320146	-0.28911	-0.00822	0.951833	0.016155	0.029172	0.95163	-0.03633	0.389224	-0.12799	0.21348	0.405275	0.996247	0.201049	0.922853
CXorf38	-0.29532	0.11333	-0.20052	0.131524	0.025732	0.405611	0.134758	0.329445	-0.22106	0.191996	-0.19495	0.135711	0.072237	0.896795	0.102375	0.812967
FAM122B	-0.0915	0.387338	-0.23134	0.268915	0.498461	0.003185	0.083375	0.043103	0.059178	0.489229	-0.26141	0.224338	0.651977	0.99972	0.041411	0.933042
FAM122C	0.015107	0.009182	0.070057	0.092495	0.911194	0.946454	0.604571	0.493774	-0.12842	0.154765	-0.01974	0.085781	0.197505	0.847786	0.448802	0.714585
CYP24A1	0.007913	0.129126	-0.09911	0.443943	0.953417	0.342886	0.463266	0.000542	0.150787	0.120199	-0.00437	0.121505	0.838599	0.784209	0.488764	0.78672
RBMV2FP	0.04615	-0.22675	0.114775	0.000167	0.73319	0.092848	0.395243	0.999017	0.025838	-0.08727	0.073544	-0.03751	0.567671	0.282073	0.684428	0.402273
USP54	-0.06954	0.16363	-0.08663	-0.27993	0.607265	0.228196	0.521696	0.034947	-0.03359	-0.00274	0.014395	-0.09064	0.412304	0.492795	0.537387	0.274574
CYP26A1	0.157289	0.389189	-0.10476	-0.12681	0.242609	0.003031	0.438035	0.347229	-0.07076	0.107461	-0.1101	-0.00156	0.322076	0.758855	0.2384	0.495946
NKX2-3	-0.0351	-0.06713	0.303527	-0.11024	0.79546	0.62303	0.021719	0.41429	0.075513	-0.48202	0.270757	-0.23933	0.691031	0.000347	0.963987	0.054583
CYP27A1	0.077319	-0.51334	0.131442	-0.06216	0.567548	5.21E-05	0.329751	0.645978	0.138501	-0.62866	0.21019	-0.45659	0.820676	1.45E-06	0.917104	0.000713
TMEM20	0.13532	0.140751	-0.07786	0.072136	0.315554	0.300815	0.564811	0.593866	0.194253	0.178011	-0.0014	0.114536	0.902097	0.881711	0.496349	0.775758
CYP27B1	-0.02781	-0.01908	0.205588	-0.1254	0.837319	0.889021	0.124978	0.352656	0.097716	-0.20948	0.116432	-0.23829	0.740876	0.081177	0.77687	0.055386
LOC100133	-0.05471	-0.27925	0.115373	0.428239	0.688815	0.038951	0.397146	0.000993	-0.0726	-0.10337	-0.08397	-0.01752	0.317779	0.249609	0.293939	0.454536
CYP51A1	0.095858	0.116415	0.12069	0.016604	0.478131	0.392866	0.371174	0.902435	-0.17235	0.001174	-0.07348	0.11807	0.126032	0.50309	0.315717	0.782743
CCDC147	-0.16155	-0.16633	-0.00028	-0.32052	0.229929	0.220509	0.998322	0.015067	-0.1812	-0.40633	0.057274	-0.33456	0.114075	0.002539	0.645686	0.011527

SLC5A12	-0.01259	0.02835	-0.01398	-0.32358	0.925972	0.835689	0.917769	0.014076	0.103076	-0.25329	0.144621	-0.22391	0.752278	0.044709	0.828394	0.067338
CCDC67	-0.18891	-0.10549	-0.08902	-0.2699	0.159332	0.439083	0.510202	0.042313	-0.29321	-0.2025	-0.02519	-0.0714	0.023985	0.088558	0.43478	0.318623
AARS	0.120386	-0.14526	0.050367	0.304051	0.372387	0.285435	0.709839	0.021481	-0.0403	0.343645	-0.16168	0.326651	0.395146	0.990314	0.144337	0.986642
AP2A1	-0.07267	0.014807	-0.09289	-0.15173	0.591144	0.913749	0.491909	0.259874	-0.16475	0.245089	-0.21455	0.050015	0.136942	0.949671	0.07849	0.629335
DAB1	0.193391	-0.06393	0.220388	-0.09194	0.153267	0.642867	0.102643	0.500364	0.079103	-0.3828	0.195639	-0.27927	0.69936	0.004324	0.901117	0.030082
PATE1	0.01561	-0.2669	0.23316	-0.15653	0.90825	0.046762	0.080904	0.244916	-0.14494	-0.2267	0.157891	-0.19711	0.168256	0.064878	0.84987	0.094588
DAB2	0.242993	-0.21721	0.107484	0.364169	0.068559	0.107831	0.426138	0.005356	0.399369	-0.05873	0.278707	0.165925	0.997016	0.349118	0.968126	0.864779
C11orf65	-0.12998	-0.157	0.001434	-0.33452	0.335186	0.247872	0.991554	0.010978	-0.21884	-0.34259	0.068799	-0.21404	0.071979	0.009887	0.673306	0.076594
DACH1	0.189783	-0.41955	0.154241	-0.12251	0.157369	0.001288	0.251976	0.363934	0.143115	-0.52935	0.309094	-0.30584	0.828648	7.76E-05	0.980586	0.019367
LDHAL6A	0.02505	-0.09113	0.160011	-0.19463	0.855948	0.512251	0.24323	0.154466	-0.02717	-0.33128	0.196058	-0.28184	0.428871	0.012258	0.901606	0.028873
C11orf42	0.065758	-0.22767	0.189091	-0.24973	0.626973	0.091497	0.158918	0.061002	0.14024	-0.49	0.307978	-0.43953	0.823706	0.000274	0.980213	0.001121
DAD1	0.049464	0.168493	-0.21153	0.172161	0.714818	0.214478	0.114201	0.200343	-0.11998	0.404991	-0.21815	0.350879	0.213527	0.99738	0.074986	0.991595
TMTC2	-0.12072	0.218891	-0.07178	0.125082	0.371062	0.105059	0.595685	0.353887	-0.34768	0.499403	-0.17401	0.353629	0.008953	0.999795	0.126473	0.992043
CLEC12A	0.076284	-0.13333	0.20621	0.011705	0.576298	0.331843	0.127317	0.931769	-0.15276	-0.48006	0.158074	-0.33609	0.158218	0.000423	0.847276	0.011996
CLECL1	0.008796	0.023863	0.089252	-0.05447	0.948697	0.862705	0.513018	0.690119	0.114672	-0.35556	0.173685	-0.1487	0.776029	0.007654	0.873071	0.162007
CD55	-0.01278	0.115684	-0.08918	0.175274	0.924845	0.395865	0.50947	0.192202	0.012826	0.214139	-0.04925	0.07525	0.533711	0.923502	0.374005	0.690415
TMTC3	-0.02961	0.409605	-0.30184	-0.02054	0.826946	0.001719	0.022499	0.879456	-0.14178	0.555332	-0.22948	0.420534	0.173631	0.999969	0.064711	0.998193
C12orf50	-0.09603	-0.08026	0.016848	-0.31499	0.477332	0.556503	0.901006	0.017009	0.058577	-0.34436	0.02218	-0.28918	0.650506	0.009554	0.557494	0.025635
ALDH1L2	0.193015	-0.23383	0.259898	0.17436	0.150289	0.082824	0.05089	0.194566	0.326074	-0.31216	0.224018	-0.12335	0.9865	0.017343	0.930476	0.207045
IFLTD1	-0.09228	-0.09557	0.044417	-0.24954	0.494802	0.483506	0.742856	0.061215	-0.13741	-0.27834	0.085284	-0.24388	0.181246	0.03053	0.711243	0.051201
DAG1	0.02857	0.264618	-0.1755	-0.06067	0.834433	0.050898	0.195745	0.656896	-0.14977	0.621578	-0.10301	0.461444	0.163051	0.999997	0.252893	0.99929
DENND5B	0.18753	-0.21001	0.105161	0.390633	0.16245	0.120295	0.436263	0.002663	0.243106	-0.29033	0.312451	-0.02798	0.948235	0.025157	0.981675	0.426765
DGKA	-0.02658	0.380177	-0.12373	0.126889	0.845831	0.004196	0.363585	0.351384	-0.00126	0.638043	-0.232	0.366081	0.496694	0.999999	0.062575	0.993827
GRASP	0.280149	-0.24696	0.250446	0.049333	0.034799	0.066515	0.060244	0.715538	0.219713	-0.3091	0.210302	-0.20744	0.928833	0.0183	0.91722	0.083289
DGKB	0.186288	-0.19302	0.154841	0.048507	0.169231	0.157975	0.254503	0.722577	0.170446	-0.2929	0.148598	-0.20294	0.871292	0.024108	0.83502	0.088082
SLC5A8	-0.00812	-0.06877	-0.03325	0.507377	0.952611	0.617837	0.807776	6.58E-05	-0.09311	-0.05558	0.099648	0.119595	0.271484	0.358441	0.742564	0.783042
PPTC7	-0.14155	0.434441	-0.34517	0.221856	0.298047	0.000919	0.009177	0.100316	-0.00863	0.603456	-0.24755	0.275798	0.477314	0.999995	0.050555	0.968219
CCDC63	0.132794	-0.23708	0.259843	-0.31786	0.324755	0.07852	0.050941	0.015976	0.257976	-0.42096	0.187661	-0.4462	0.958271	0.001789	0.891482	0.000941
CCDC60	-0.1895	-0.12453	-0.01177	-0.31452	0.157992	0.360471	0.93076	0.017182	-0.27936	-0.23226	0.018738	-0.20458	0.030043	0.060186	0.548618	0.086316
DGKG	0.221959	-0.37515	0.311147	-0.1814	0.097035	0.004387	0.018479	0.17688	0.337704	-0.54887	0.326287	-0.42511	0.989141	3.91E-05	0.985645	0.001615
DGKH	-0.01086	0.2724	-0.09241	-0.10351	0.936686	0.042248	0.49818	0.447729	-0.1217	0.247189	-0.16666	0.106833	0.210202	0.951158	0.136927	0.760112
CCDC122	-0.07488	-0.05371	-0.03899	-0.0264	0.579886	0.694224	0.773361	0.845472	-0.10087	-0.13424	-0.04533	0.056995	0.254856	0.189663	0.385078	0.645009
GPR180	-0.02462	0.162754	-0.14064	0.087976	0.855766	0.23073	0.296739	0.515205	0.011586	0.281207	-0.09181	0.229342	0.530458	0.970831	0.274308	0.937384
DGKQ	0.012028	0.081207	0.155431	-0.22403	0.929243	0.55186	0.24829	0.093872	-0.05279	0.087375	-0.06577	-0.05654	0.363758	0.718166	0.333868	0.354485
AP2A2	0.06409	0.041459	0.070705	-0.01831	0.635757	0.761599	0.601224	0.892455	-0.01891	0.380609	-0.14473	0.274384	0.450366	0.995465	0.171417	0.967506
DAO	0.035334	0.047774	0.189661	-0.14797	0.794141	0.726603	0.157642	0.272014	0.118815	-0.42192	0.210868	-0.34017	0.784199	0.001747	0.917801	0.010358
STOML3	-0.09155	-0.16255	0.00909	-0.204	0.498236	0.23133	0.946493	0.127976	-0.18708	-0.24384	0.071165	-0.14772	0.106581	0.051227	0.678872	0.16361
DAP	0.182334	-0.11193	0.283601	0.130909	0.174622	0.411459	0.032532	0.331734	0.158613	0.043322	-0.04471	0.195242	0.850986	0.611245	0.386603	0.900652
FAM71D	0.128127	-0.07261	0.235601	-0.2216	0.351211	0.601827	0.083345	0.103959	0.092529	-0.23458	0.008749	-0.26964	0.7296	0.058302	0.522743	0.034981
C14orf83	-0.25955	0.151262	-0.06151	0.134702	0.05121	0.265784	0.649436	0.31779	-0.36176	0.260669	-0.10714	0.362842	0.006749	0.959913	0.241811	0.993399
C14orf49	0.150288	-0.38229	0.172609	0.08276	0.264479	0.003642	0.199155	0.540517	0.068001	-0.34067	0.134357	-0.22442	0.673297	0.010259	0.810551	0.066886
CLEC14A	0.314836	-0.22956	0.246754	0.385093	0.017065	0.088766	0.064255	0.003097	0.283403	-0.16518	0.194972	0.14902	0.971841	0.136312	0.900336	0.838526
DAPK1	0.187661	-0.18651	0.173792	0.120826	0.162151	0.168725	0.196047	0.370633	0.287722	0.024067	0.04422	-0.05717	0.973746	0.563071	0.613492	0.352941
FIT1	-0.06343	0.047216	0.058864	-0.14286	0.639254	0.729676	0.663603	0.289072	-0.01239	-0.01704	0.044426	-0.22216	0.467426	0.455259	0.614006	0.068916
REM2	-0.12733	-0.24115	0.133845	-0.27022	0.345236	0.073387	0.320906	0.042061	-0.02894	-0.49374	0.125032	-0.46764	0.424284	0.000244	0.793423	0.000525
TMEM30B	0.052566	0.223329	-0.13063	0.029951	0.697763	0.098023	0.332775	0.824965	-0.22188	0.575556	-0.27256	0.272556	0.06917	0.999986	0.035038	0.966566
DAPK3	0.054613	-0.16578	0.177858	0.076207	0.686591	0.222061	0.185626	0.573146	0.076237	-0.03216	0.051116	-0.05569	0.692717	0.415976	0.630607	0.356593
MDGA2	-0.00379	-0.22907	0.102307	-0.27199	0.977681	0.089467	0.448885	0.040681	0.219873	-0.49089	0.071776	-0.40982	0.926648	0.000309	0.678319	0.002589
C14orf174	-0.16171	-0.10454	-0.01848	-0.2366	0.229451	0.443234	0.891477	0.076401	-0.19248	-0.31015	0.09742	-0.15199	0.099999	0.017966	0.737821	0.156638
C14orf21	-0.07512	0.233779	-0.2301	0.208969	0.578662	0.082899	0.085081	0.118759	-0.13869	0.505771	-0.29572	0.198766	0.178987	0.999832	0.024288	0.907291

EML5	-0.02769	-0.17596	0.104805	-0.20323	0.837968	0.19456	0.437825	0.129464	-0.12514	-0.29208	-0.15887	-0.21536	0.203647	0.024438	0.148622	0.075306
DARS	0.079245	0.233731	-0.24131	0.179603	0.557904	0.082964	0.070552	0.181279	0.038428	0.472489	-0.05056	0.420011	0.60008	0.999543	0.370761	0.998169
C15orf26	-0.12456	-0.1831	0.022559	-0.23893	0.355921	0.176785	0.867715	0.073461	-0.30336	-0.2983	0.00506	-0.17991	0.020209	0.022028	0.513159	0.115773
TBC1D21	0.120864	-0.2891	0.276263	-0.25907	0.374904	0.032295	0.0393	0.053848	0.13451	-0.36423	0.315977	-0.34908	0.813601	0.006415	0.982764	0.008709
DYX1C1	-0.13979	-0.11828	-0.01426	-0.27479	0.299691	0.385294	0.916127	0.038575	-0.24468	-0.29742	0.066651	-0.18138	0.050623	0.022355	0.668223	0.113839
DAXX	-0.08537	0.052214	-0.06478	0.038378	0.527776	0.702324	0.632127	0.776846	-0.01657	0.350252	-0.01536	0.144289	0.456481	0.99149	0.460105	0.830641
OTUD7A	-0.00599	-0.08811	0.276246	-0.07623	0.96474	0.518433	0.037519	0.573015	0.029756	-0.41274	0.12876	-0.45407	0.576927	0.002419	0.797574	0.000865
SPRED1	0.156889	0.043171	-0.11668	0.265569	0.243825	0.75206	0.387409	0.04587	0.08928	0.480555	-0.07624	0.448159	0.722418	0.999638	0.309319	0.999106
ODF3L1	0.003953	-0.16591	-0.00184	-0.11769	0.97693	0.226052	0.989269	0.38768	0.011784	-0.1973	0.026799	-0.20138	0.530976	0.09437	0.569359	0.08979
PGBD4	-0.16439	-0.00265	-0.02125	-0.11594	0.221736	0.984519	0.875305	0.390426	-0.28166	-0.13492	-0.063	-0.12961	0.028956	0.185669	0.340499	0.195308
DAZL	0.085008	-0.16894	0.105051	-0.13333	0.529536	0.213255	0.436746	0.322803	0.314894	-0.45081	0.237153	-0.28338	0.982435	0.000942	0.939431	0.029622
ADAL	-0.06547	-0.06262	-0.22333	-0.15698	0.62848	0.646613	0.094936	0.243554	0.013644	-0.16807	-0.11654	-0.11518	0.535855	0.132105	0.222926	0.222967
EXD1	0.022605	-0.19772	0.106367	-0.24255	0.867446	0.144105	0.43099	0.069075	0.111925	-0.45514	0.227328	-0.20813	0.770518	0.000741	0.933424	0.082565
FSIP1	-0.05191	-0.00437	-0.05013	-0.34945	0.701367	0.974489	0.711137	0.007712	-0.19503	-0.23546	0.012541	-0.21182	0.096998	0.0576	0.532582	0.078801
ZFPM1	0.085113	-0.1499	0.318335	-0.1967	0.529023	0.27016	0.01581	0.142516	0.130986	-0.33885	0.200788	-0.31276	0.807218	0.010624	0.907006	0.017162
ADAD2	0.014587	-0.11035	0.283077	-0.13398	0.91424	0.418132	0.032868	0.320431	0.039992	-0.37827	0.147707	-0.25911	0.604064	0.00477	0.83355	0.041033
AP1B1	-0.08099	0.006586	0.000421	0.1371	0.556642	0.962299	0.997566	0.318217	-0.4509	0.569125	-0.31179	0.412187	0.000831	0.999982	0.018536	0.997789
DBC1	0.044395	-0.13917	0.129075	-0.15548	0.742981	0.306315	0.338609	0.248124	0.036138	-0.23104	0.223494	-0.31878	0.594228	0.061187	0.93	0.015416
ITPRIPL2	0.009461	0.110119	-0.00454	0.312283	0.944317	0.419131	0.973267	0.018033	0.042171	0.493873	-0.10432	0.316236	0.609597	0.999757	0.24763	0.983866
C16orf82	0.152873	-0.16974	0.317094	-0.10773	0.256257	0.211054	0.016246	0.425053	0.035822	-0.19921	0.225472	-0.11058	0.593418	0.092207	0.931783	0.232217
DBH	-0.11562	-0.1171	0.168588	-0.23509	0.391768	0.390074	0.209983	0.078358	0.090634	-0.37318	0.098618	-0.32859	0.725423	0.005318	0.740377	0.012888
MGC34800	-0.02989	-0.18142	0.254997	-0.16853	0.825298	0.180855	0.055581	0.210136	0.181606	-0.40247	0.175066	-0.3212	0.886455	0.002778	0.874978	0.014757
DBI	-0.02039	-0.02305	-0.1903	-0.10013	0.880316	0.866109	0.15622	0.458639	-0.32857	0.081171	-0.27779	-0.03743	0.012892	0.704112	0.032332	0.402465
ZFP1	0.099329	0.281375	-0.05243	0.090491	0.462263	0.03566	0.69852	0.503221	0.050264	0.230406	0.054392	0.310392	0.629955	0.93828	0.638655	0.98211
ANKFN1	-0.08821	-0.15141	0.050521	-0.29298	0.514091	0.265294	0.708987	0.026986	-0.19827	-0.29384	0.059588	-0.27396	0.093269	0.023737	0.651298	0.032708
MARCH10	-0.18241	-0.26529	0.058337	-0.30327	0.174436	0.048151	0.666437	0.021837	-0.19229	-0.43023	0.056473	-0.33352	0.100226	0.001421	0.643737	0.011753
MFSD6L	-0.15545	-0.18038	0.205433	-0.11193	0.248224	0.183396	0.125269	0.407143	-0.01295	-0.29312	-0.08226	-0.33325	0.465957	0.02402	0.295556	0.011815
SLFN5	-0.1742	0.242511	-0.16825	0.414888	0.194988	0.071727	0.210901	0.001332	-0.22254	0.466859	-0.17618	0.500336	0.068571	0.999464	0.123491	0.999801
NAGS	-0.0968	-0.07697	0.21014	-0.11635	0.473782	0.572873	0.11666	0.388735	0.084761	-0.22249	0.129167	-0.22034	0.712284	0.068615	0.801125	0.07059
FAM134C	0.066035	0.28774	-0.02951	0.205623	0.625523	0.031525	0.827494	0.124912	-0.05814	0.533032	-0.18162	0.371676	0.350554	0.999932	0.116234	0.994509
TMEM92	0.008245	0.194834	0.204619	-0.04757	0.951463	0.150164	0.126805	0.725278	0.128312	0.041918	-0.01762	-0.1257	0.802289	0.608955	0.454259	0.202599
PHOSPHO1	-0.1017	-0.28842	0.146158	-0.24443	0.451599	0.031105	0.277982	0.066893	-0.12333	-0.48624	0.020969	-0.44645	0.209801	0.000354	0.553734	0.001056
RHBDL3	0.041139	-0.05681	0.222853	-0.23025	0.76125	0.677502	0.095663	0.084869	0.121843	-0.18003	0.172274	-0.17101	0.790066	0.115611	0.871102	0.127905
TRPV3	-0.08713	0.110835	0.044215	-0.05248	0.519285	0.416096	0.743986	0.69823	-0.01191	-0.0544	0.004234	-0.16652	0.468688	0.359759	0.51101	0.134349
SLC16A11	-0.12471	0.051938	0.143791	-0.39622	0.355324	0.703829	0.285925	0.00228	-0.02478	-0.47375	0.162498	-0.39935	0.435065	0.000441	0.856902	0.002985
FBXO39	-0.20605	-0.09813	0.047515	-0.05897	0.12412	0.471834	0.725602	0.663015	0.053022	-0.15003	0.098693	-0.04421	0.635298	0.162639	0.738057	0.386542
IMP5	0.043095	-0.14005	0.249138	-0.23337	0.750259	0.303266	0.061642	0.080618	0.080092	-0.3066	0.265543	-0.20426	0.701636	0.019112	0.961049	0.086661
KRT28	0.155603	-0.10928	0.148521	-0.18152	0.252145	0.427061	0.274641	0.180599	0.186044	-0.28556	0.1897	-0.21479	0.892129	0.027193	0.894005	0.075865
ZNF519	0.122116	-0.03045	0.200373	0.02426	0.365507	0.823717	0.135052	0.85784	0.234627	-0.13092	0.169494	-0.05038	0.941737	0.192904	0.867164	0.369758
C18orf54	0.206162	0.067255	-0.05428	0.047641	0.123906	0.622367	0.688403	0.724902	-0.0412	0.24582	-0.0924	0.054787	0.392857	0.950193	0.273024	0.641185
DBN1	0.16156	-0.06691	0.127164	0.089198	0.229893	0.624172	0.345871	0.509366	0.306332	-0.06524	0.238226	0.020779	0.980799	0.333329	0.942474	0.554511
DBP	0.02609	-0.14228	0.169986	-0.0532	0.84724	0.295554	0.206174	0.694315	0.12449	-0.22251	0.173878	-0.23156	0.795118	0.0686	0.873339	0.060758
DBT	0.014177	0.19385	-0.25357	-0.01488	0.916642	0.152276	0.057007	0.912509	-0.07465	0.330556	-0.10986	0.190988	0.310993	0.987575	0.236252	0.898214
ZNF836	0.153228	0.03317	-0.12359	0.123424	0.25514	0.808245	0.359702	0.360353	-0.06186	0.307116	-0.04817	0.296433	0.34148	0.981058	0.37667	0.977271
ZNF610	-0.0751	-0.06898	0.130076	-0.31034	0.582249	0.61347	0.339319	0.019923	-0.15818	-0.48622	0.033065	-0.25385	0.146882	0.000306	0.58536	0.04435
ZNF600	0.013421	0.138149	-0.16347	0.263704	0.921072	0.309929	0.224369	0.047474	-0.06875	0.393578	-0.34076	0.201228	0.324914	0.996596	0.010993	0.91004
ZNF320	0.067114	0.00317	-0.08141	0.197	0.619869	0.981503	0.547163	0.141887	0.056025	0.337576	-0.19913	0.407765	0.644239	0.989115	0.09486	0.997545
ZNF497	-0.05571	-0.19999	0.207332	-0.3462	0.680605	0.139457	0.12174	0.008341	0.006628	-0.39539	0.159592	-0.34516	0.517435	0.003267	0.852492	0.009406
ZNF550	-0.09084	-0.06446	0.102034	0.045245	0.501549	0.636927	0.450101	0.738233	-0.11958	-0.17679	0.00352	-0.02679	0.216985	0.122669	0.509047	0.430655
ZNF296	-0.04664	-0.12731	0.219301	-0.17687	0.730455	0.34979	0.101208	0.18812	-0.07845	-0.14837	-0.02498	-0.24614	0.304239	0.165362	0.436077	0.051563

DEDD2	-0.12805	-0.16428	-0.01633	-0.05712	0.342492	0.226315	0.904056	0.673023	-0.10142	0.102801	-0.08273	-0.11541	0.251223	0.751698	0.294491	0.222504
ZNF846	-0.00686	0.167921	-0.07522	-0.2132	0.959635	0.21606	0.578133	0.111319	-0.0689	0.247876	-0.12283	0.12274	0.326456	0.949679	0.213503	0.789082
OR7D2	0.166989	-0.17969	0.155021	-0.25713	0.214404	0.185126	0.249556	0.053496	0.159506	-0.13994	0.24883	-0.01244	0.852359	0.179618	0.948319	0.467683
AP2B1	-0.03079	0.180587	-0.20432	0.224629	0.82012	0.182896	0.127374	0.09298	-0.14689	0.401015	-0.10778	0.410838	0.165	0.997127	0.240492	0.997717
DCC	0.043334	-0.13277	0.247496	-0.04916	0.748917	0.32933	0.063432	0.716472	-0.01128	-0.36556	0.203659	-0.21499	0.470356	0.00624	0.910178	0.075661
ZNF579	-0.01328	-0.15242	0.19313	-0.15698	0.921909	0.262097	0.150041	0.243543	0.135007	-0.32136	0.176025	-0.25642	0.814491	0.014713	0.87629	0.042701
ZNF791	-0.12065	0.053902	-0.17528	0.271356	0.371319	0.69317	0.192186	0.041172	0.099446	0.369876	-0.18955	0.22334	0.742137	0.993804	0.108911	0.92986
ZNF564	-0.11409	0.05794	-0.11924	-0.12059	0.398099	0.671448	0.37701	0.371588	-0.03528	-0.05174	-0.10908	-0.11685	0.407961	0.366364	0.237846	0.219651
ZNF709	-0.08926	-0.07242	0.024325	-0.42973	0.50905	0.595822	0.857463	0.00085	-0.09393	-0.33406	0.147638	-0.24496	0.267326	0.011635	0.833436	0.050419
ZNF433	0.033903	-0.09691	-0.07925	-0.31152	0.804091	0.481531	0.561521	0.019432	-0.25127	-0.0984	-0.16067	0.033642	0.046051	0.257652	0.145863	0.587825
ZNF114	0.023259	-0.17328	0.157231	-0.17314	0.86489	0.205823	0.247156	0.201911	0.057227	-0.27005	0.059375	-0.40968	0.645572	0.036402	0.649085	0.002597
ZNF567	-0.07574	0.153964	-0.17868	0.273271	0.579036	0.261733	0.187644	0.041568	-0.09151	0.184187	-0.19919	0.296167	0.274961	0.887089	0.097435	0.975889
ZNF383	0.055872	0.183849	-0.09709	0.160463	0.679754	0.174983	0.472484	0.233115	0.042413	0.256854	-0.01863	0.259719	0.610211	0.957571	0.451653	0.95934
ZNF781	0.072412	-0.15916	0.043529	-0.14031	0.592449	0.241336	0.747828	0.297869	0.150399	-0.29879	0.057785	-0.09306	0.840781	0.021845	0.646929	0.269225
EID2	-0.01509	-0.16478	0.271227	-0.10607	0.911292	0.2249	0.041273	0.432287	0.02775	-0.37885	0.030308	-0.28659	0.572627	0.004711	0.578335	0.026741
ZNF780B	0.043772	0.098594	-0.03524	0.14527	0.746466	0.469722	0.794661	0.280944	0.217927	0.125211	0.084566	0.138012	0.927155	0.796481	0.709633	0.819818
MGC24975	0.041526	-0.16476	0.325853	-0.15916	0.759072	0.224955	0.013378	0.236972	0.108256	-0.38193	0.266157	-0.29159	0.763044	0.004407	0.961404	0.024636
LGI4	0.331841	-0.20791	0.198066	0.021985	0.011677	0.124142	0.139699	0.871052	0.524123	-0.42527	0.307968	-0.40443	0.999907	0.001609	0.98021	0.002654
C19orf46	-0.04863	-0.02952	0.179623	-0.14248	0.719445	0.828992	0.181227	0.290398	0.002153	-0.30619	0.089293	-0.35624	0.505666	0.019247	0.720156	0.007551
DCI	-0.14961	0.076173	-0.04649	-0.05774	0.266675	0.576858	0.731311	0.669641	-0.21748	0.43159	-0.13313	0.184647	0.073268	0.998627	0.191655	0.890365
ZNF676	0.123965	-0.14902	0.200686	0.13682	0.358236	0.273014	0.134432	0.310168	0.278373	-0.5521	0.218237	-0.20118	0.969485	3.48E-05	0.925096	0.09001
ZNF100	-0.37389	0.275251	-0.25047	0.07956	0.00417	0.040055	0.060215	0.556336	0.0514	0.089119	0.059539	0.076879	0.632787	0.722061	0.651179	0.69421
ZNF540	0.218572	-0.11093	-0.04113	0.132867	0.102376	0.415696	0.761323	0.324489	0.246064	-0.14585	0.102758	-0.11993	0.950366	0.166736	0.749115	0.213629
DENND2C	-0.21136	0.462924	-0.31535	-0.23276	0.117874	0.000373	0.017912	0.084289	-0.2696	0.579199	-0.23521	0.267191	0.034998	0.999988	0.059932	0.963681
DCK	0.153197	0.05322	-0.22112	0.283271	0.255237	0.696867	0.098334	0.032744	-0.06417	0.355082	-0.21539	0.243446	0.335898	0.992272	0.07766	0.948483
GBP6	-0.15992	0.321962	-0.28271	-0.218	0.239067	0.016525	0.034757	0.106522	-0.26982	0.561203	-0.25648	0.342548	0.034881	0.999975	0.044498	0.990106
DCN	0.305037	-0.17926	0.163081	0.415788	0.022255	0.190367	0.229781	0.001438	0.416846	-0.1298	0.394709	0.194414	0.998023	0.194962	0.996354	0.902286
PAP2D	0.06665	-0.21245	0.212328	-0.23161	0.622298	0.115958	0.112815	0.082997	-0.01119	-0.48293	0.187387	-0.35596	0.470583	0.000338	0.89114	0.007593
FNDC7	0.007433	0.003222	0.172781	-0.21838	0.956239	0.981197	0.198702	0.102685	0.19033	-0.35713	0.100121	-0.37712	0.897418	0.007417	0.743567	0.00489
DENND1B	-0.14744	0.323268	-0.27011	0.160965	0.273728	0.015091	0.042152	0.231636	-0.11774	0.466789	-0.11444	0.241127	0.217901	0.999463	0.227068	0.946771
DCTD	0.016085	0.563972	-0.33217	0.180469	0.905471	6.00E-06	0.011589	0.179146	0.012699	0.715721	-0.1977	0.487836	0.533376	1	0.096494	0.999708
TDRD5	0.05677	-0.26372	0.279157	-0.06908	0.677716	0.05172	0.037204	0.61292	0.124496	-0.55256	0.248481	-0.41681	0.792412	4.15E-05	0.948069	0.002198
TOR1AIP2	-0.0849	0.313801	-0.3559	0.106053	0.530066	0.018516	0.006587	0.432359	0.009206	0.351594	-0.15587	0.188823	0.524209	0.991714	0.153288	0.89558
ACE	0.194536	-0.18358	0.348422	0.175696	0.14704	0.175617	0.007906	0.191117	-0.08423	0.04361	0.112371	0.222264	0.288914	0.613241	0.768809	0.931178
CALML6	0.143605	-0.11413	0.133765	-0.04477	0.286554	0.402268	0.321199	0.740895	0.09263	-0.1806	0.194891	-0.04383	0.729823	0.114859	0.90024	0.386204
IL28RA	0.029497	-0.14548	0.085393	-0.2199	0.827574	0.284703	0.527667	0.100253	0.02188	-0.19048	0.119713	-0.16742	0.55738	0.102402	0.78327	0.133041
CYP4Z2P	0.060515	-0.11341	0.120252	-0.01842	0.654754	0.405271	0.372925	0.89185	-0.08878	-0.03244	0.018546	-0.06071	0.278687	0.415273	0.548122	0.34429
CITED4	-0.055	-0.09083	0.300416	-0.27866	0.684462	0.505569	0.023173	0.035818	-0.05953	-0.28619	0.135823	-0.31089	0.347152	0.026918	0.813165	0.017734
C1orf177	-0.03541	-0.19182	0.125276	-0.28001	0.795558	0.16063	0.357591	0.036602	-0.0571	-0.43966	0.075862	-0.43599	0.353112	0.001117	0.689803	0.001228
SPRR4	0.016101	-0.20197	0.195349	-0.25572	0.905377	0.135512	0.145324	0.054871	0.156768	-0.46558	0.235214	-0.3004	0.850933	0.000556	0.940072	0.021258
KANK4	0.040277	-0.11196	0.305	-0.07511	0.766107	0.411352	0.021057	0.578702	0.237886	-0.3545	0.192348	-0.37192	0.944304	0.007819	0.897219	0.005462
SASS6	-0.08617	0.112134	-0.34524	0.014932	0.523913	0.410619	0.008534	0.912216	-0.18562	0.384065	-0.21206	0.194019	0.108403	0.995794	0.080985	0.901822
DCT	0.012063	-0.14444	0.199119	-0.4876	0.929034	0.288182	0.137565	0.00012	0.015705	-0.50347	0.163291	-0.46215	0.541253	0.000181	0.85809	0.000612
C1orf55	0.076429	-0.03324	-0.20927	0.19794	0.575574	0.809622	0.121643	0.143645	-0.2155	0.460061	-0.22407	0.284954	0.075172	0.999352	0.069479	0.972537
C1orf71	-0.11041	0.200337	-0.27181	0.119848	0.413571	0.13876	0.040819	0.374546	0.037854	0.139243	-0.02363	0.010708	0.598615	0.821973	0.438772	0.528154
DCTN1	-0.03348	0.082178	0.02707	0.001507	0.806511	0.550868	0.843013	0.991205	-0.15889	0.102068	-0.05748	-0.00775	0.145781	0.750153	0.353823	0.479603
FAM43B	0.07126	-0.12945	0.305568	-0.18699	0.598367	0.341686	0.020807	0.16369	0.093861	-0.30952	0.188165	-0.31438	0.730153	0.019273	0.889369	0.017724
AP1G1	-0.03656	0.337679	-0.24347	0.089849	0.787163	0.010921	0.068	0.506266	-0.031	0.429786	-0.13568	0.28437	0.418971	0.998563	0.187084	0.972277
PPIAL4A	0.11802	-0.08669	-0.00791	-0.15821	0.386327	0.529121	0.953887	0.244197	0.033443	-0.29658	0.068207	-0.0847	0.587314	0.022673	0.67191	0.287847
HFM1	0.184544	-0.24963	0.126289	-0.25642	0.169366	0.063531	0.349226	0.054186	0.143706	-0.58555	0.40356	-0.38488	0.829653	9.57E-06	0.997011	0.004131

PAQR7	0.087036	0.113036	-0.17759	-0.12905	0.519724	0.406839	0.186296	0.338702	-0.36046	0.414009	-0.26632	0.329058	0.006931	0.997883	0.038504	0.987224
DCX	0.187462	-0.09592	0.143228	-0.44294	0.166512	0.486052	0.292302	0.000629	0.140929	-0.44252	0.153916	-0.32072	0.824899	0.001037	0.843627	0.014884
TTC24	-0.01208	-0.20356	0.192774	-0.07124	0.928923	0.132383	0.150809	0.598472	0.171532	-0.38623	0.144407	-0.16914	0.872823	0.00401	0.828034	0.130567
C1orf65	0.061459	-0.27993	0.360864	-0.18531	0.649717	0.03666	0.005821	0.167571	0.070068	-0.40406	0.328968	-0.38989	0.678216	0.002678	0.986326	0.003697
UBL4B	-0.03012	-0.05407	0.128319	-0.29152	0.823966	0.692268	0.341469	0.027795	0.172512	-0.34081	0.252541	-0.18547	0.874197	0.010233	0.952903	0.108596
DDB1	0.052831	0.18439	-0.2318	0.05836	0.696316	0.173696	0.082736	0.66631	-0.19682	0.402718	-0.24483	0.310132	0.094927	0.997238	0.052517	0.982028
WFDC13	0.122861	-0.1584	0.178962	-0.14916	0.362566	0.243629	0.182867	0.268123	0.229291	-0.44423	0.176736	-0.38513	0.937342	0.000992	0.877258	0.004109
APCDD1L	0.089665	-0.18534	0.306153	-0.14214	0.507143	0.171456	0.020552	0.291547	0.224423	-0.42222	0.217033	-0.32169	0.933118	0.001734	0.923937	0.014625
DDB2	-0.07897	0.152808	-0.18961	0.061682	0.559255	0.26087	0.157745	0.64853	-0.16957	0.531838	-0.22865	0.367567	0.129949	0.999929	0.065427	0.994015
LRRN4	-0.00727	-0.03695	0.218805	-0.28847	0.957169	0.786886	0.102001	0.029542	0.130477	-0.3212	0.176684	-0.41297	0.806284	0.014756	0.877187	0.00217
RP11-218C	0.091971	-0.17037	0.288192	-0.26681	0.496235	0.209345	0.029709	0.044831	-0.09122	-0.36842	0.133426	-0.22816	0.273293	0.00588	0.80888	0.063617
TTLL9	-0.10268	-0.26958	0.087688	-0.24386	0.4472	0.044518	0.516588	0.067541	-0.11201	-0.44268	0.104856	-0.32544	0.229318	0.001033	0.753483	0.013659
DDC	-0.06646	0.165829	0.010208	-0.29972	0.623312	0.22192	0.939927	0.02351	-0.26058	0.157484	-0.13239	0.100289	0.041918	0.849239	0.195816	0.743922
AKR1C1	-0.03981	0.32493	-0.19582	-0.07783	0.768724	0.014549	0.144345	0.565004	-0.21236	0.197741	-0.04583	0.084576	0.078259	0.906129	0.382482	0.711864
CCDC116	-0.03584	0.015179	0.185047	-0.26806	0.791262	0.911591	0.168185	0.043793	-0.09503	-0.24668	0.149548	-0.31272	0.264941	0.049195	0.83658	0.017174
AKR1C2	-0.05721	0.500165	-0.26795	-0.13124	0.672487	8.67E-05	0.043888	0.330518	0.043829	0.398697	-0.15597	0.138289	0.612515	0.996664	0.156013	0.817514
CABP7	0.000982	-0.04528	0.096069	-0.10581	0.994213	0.740357	0.477155	0.433405	0.076576	-0.3501	0.110241	-0.40123	0.69145	0.009197	0.761885	0.003151
TMPRSS6	0.006408	-0.07764	0.188304	-0.28518	0.962265	0.569501	0.16069	0.031536	0.290391	-0.39919	0.268601	-0.33609	0.97487	0.002996	0.962794	0.011196
APOBEC3H	-0.25303	-0.21742	0.123707	0.17652	0.057554	0.107482	0.359245	0.18901	0.038643	-0.32374	0.202233	-0.16696	0.600629	0.01409	0.908612	0.133714
WBP2NL	0.013734	0.077206	0.003313	-0.35427	0.919237	0.571685	0.980486	0.006857	0.0347	-0.38735	0.13688	-0.30665	0.590542	0.003912	0.815037	0.019096
GADD45A	0.197699	0.185628	0.022154	0.158596	0.144144	0.170774	0.871252	0.243023	0.167521	0.367607	0.134639	0.100043	0.867103	0.99402	0.811057	0.745858
TTLL8	0.046828	-0.08249	0.223243	-0.19604	0.729415	0.545592	0.095069	0.143883	0.173063	-0.41759	0.355268	-0.36048	0.874963	0.001942	0.991686	0.006928
WDR69	-0.08689	-0.19555	0.014302	-0.20877	0.52041	0.148637	0.915909	0.119115	-0.2046	-0.3062	0.075641	-0.18557	0.086295	0.019245	0.689292	0.108462
LONRF2	0.150269	-0.23854	0.25945	-0.13483	0.264542	0.076656	0.051305	0.317325	0.233698	-0.41971	0.257376	-0.31954	0.938835	0.002052	0.954163	0.016192
DDIT3	0.039824	-0.05683	0.108532	0.169795	0.768665	0.677368	0.421613	0.206692	0.24561	-0.10192	0.138484	0.047471	0.948052	0.252635	0.815003	0.621591
AEBP1	0.358196	-0.24822	0.387814	0.260642	0.006716	0.067661	0.003145	0.052361	0.340994	-0.22028	0.358894	0.031721	0.989804	0.070638	0.992262	0.582882
DDOST	-0.03861	0.133946	-0.07138	0.199917	0.775537	0.325019	0.597745	0.135963	-0.20609	0.528734	-0.3679	0.413249	0.084707	0.999921	0.006453	0.997845
CCDC138	-0.09256	0.097199	-0.1505	-0.15873	0.493485	0.476058	0.263793	0.238275	-0.22766	0.057529	-0.08583	0.02505	0.06405	0.647936	0.287527	0.565625
FLJ39061	-0.1427	-0.1509	0.053055	-0.28683	0.289631	0.266929	0.695087	0.030526	-0.1731	-0.34445	0.116168	-0.28065	0.124985	0.009535	0.776351	0.029431
GPR113	-0.06636	-0.01419	0.264292	-0.18207	0.623808	0.917338	0.046963	0.175257	0.022483	-0.34598	0.235621	-0.25995	0.558951	0.009256	0.940401	0.040517
C2orf57	0.012299	-0.17493	0.241008	-0.19088	0.927652	0.197234	0.070921	0.154934	-0.02364	-0.23699	0.279564	-0.27022	0.438036	0.056395	0.968549	0.034668
OXER1	-0.03566	-0.24929	0.226027	-0.0393	0.79228	0.063914	0.09091	0.771628	0.013642	-0.27616	0.119704	-0.20273	0.535848	0.031599	0.783251	0.088308
FAM179A	-0.15335	-0.23661	0.072157	-0.33869	0.254766	0.079133	0.593758	0.009964	-0.17628	-0.45025	0.075183	-0.38966	0.120618	0.000846	0.688231	0.003716
DDT	0.114679	0.080387	-0.13704	0.140747	0.395639	0.555897	0.309367	0.296353	0.015465	0.46589	-0.31598	0.167359	0.540624	0.999449	0.017236	0.866868
FAM171B	0.363863	-0.26777	0.289667	0.198228	0.005839	0.048102	0.030354	0.143052	0.456454	-0.29567	0.159671	-0.12727	0.999285	0.023021	0.852612	0.19966
C1QL2	-0.11008	-0.1465	0.150878	-0.24679	0.414974	0.281315	0.262589	0.06422	-0.04235	-0.53117	0.092172	-0.25226	0.389954	7.29E-05	0.726478	0.045388
DDX1	0.054663	0.236442	-0.23361	0.128487	0.686317	0.079356	0.080307	0.340835	-0.01578	0.420104	-0.06475	0.340631	0.458551	0.998174	0.336306	0.989733
UBXN2A	0.069724	0.24714	-0.29389	0.077593	0.606292	0.066312	0.02649	0.566167	0.112639	0.222262	0.084217	0.182797	0.771957	0.931176	0.708849	0.887997
DDX3X	0.047815	0.268853	-0.28342	0.198848	0.723939	0.045114	0.032647	0.13811	0.074301	0.395083	-0.16709	0.266245	0.688196	0.99671	0.136303	0.963153
DDX5	-0.03726	0.108353	-0.11972	0.286755	0.783163	0.426675	0.375073	0.03057	0.01119	0.291373	-0.24977	0.223426	0.529418	0.975274	0.048996	0.932228
CLEC4F	0.010184	-0.15835	0.219167	-0.19165	0.940069	0.243778	0.101422	0.153257	0.064014	-0.37564	0.134925	-0.20071	0.663724	0.005047	0.811566	0.090532
DQX1	-0.26277	0.428821	-0.23431	-0.22024	0.048293	0.000975	0.079379	0.099726	-0.29801	0.534561	-0.1915	0.166093	0.022134	0.999935	0.103808	0.865026
DDX6	0.010444	0.174699	-0.24481	0.190031	0.938541	0.197825	0.066456	0.156817	0.155619	0.226747	-0.00017	0.217892	0.849132	0.93516	0.499547	0.927122
PARP15	-0.17945	-0.13214	-0.15415	0.517981	0.185725	0.336202	0.256665	4.34E-05	-0.01092	-0.25986	-0.09058	-0.19262	0.471633	0.042365	0.279356	0.102454
C3orf57	0.048889	0.488697	-0.26374	-0.186	0.717995	0.000133	0.047438	0.165976	-0.04122	0.603026	-0.07735	0.314619	0.392816	0.999995	0.306775	0.983395
DMXL1	0.049717	0.198166	-0.17344	0.114408	0.713419	0.143179	0.19696	0.396767	0.049214	0.2682	-0.0254	0.172586	0.627332	0.964238	0.434228	0.874299
DNAJB8	-0.02845	-0.10203	0.195555	-0.10031	0.833631	0.454315	0.144891	0.457834	0.117677	-0.3855	0.20111	-0.30176	0.781973	0.004076	0.907365	0.020772
GPR156	-0.06485	-0.25067	0.027837	-0.53326	0.631763	0.062408	0.837143	1.95E-05	0.025071	-0.56336	0.009335	-0.48906	0.564926	2.80E-05	0.523979	0.000326
DHX8	-0.03675	0.119457	-0.29901	0.205481	0.787986	0.385019	0.025179	0.128696	-0.14521	0.599528	-0.24023	0.303107	0.167799	0.999995	0.055971	0.979703
XIRP1	0.096003	-0.20034	0.38208	-0.20053	0.48153	0.142507	0.003662	0.138381	0.143787	-0.44228	0.259539	-0.3192	0.829791	0.001043	0.957437	0.0153

RNF168	0.179937	0.2132	-0.20754	0.202108	0.180454	0.114645	0.12136	0.131635	0.404628	0.409072	-0.10768	0.15777	0.997358	0.997619	0.2407	0.852491
AES	-0.04005	-0.0142	0.021024	-0.18176	0.767366	0.917256	0.876639	0.175999	-0.03488	0.21844	-0.03883	-0.08078	0.410035	0.92529	0.401189	0.298928
DHX9	0.003122	0.218652	-0.31855	0.080318	0.981611	0.105449	0.015735	0.552569	-0.19475	0.457174	-0.19085	0.33773	0.097325	0.999299	0.104588	0.989147
CHST13	-0.16588	-0.11245	0.097918	-0.1176	0.221789	0.409271	0.472785	0.388042	0.108021	-0.35326	0.199691	-0.2858	0.762561	0.008015	0.905773	0.027087
DDX10	-0.08206	0.293446	-0.30442	0.268664	0.543939	0.028164	0.021315	0.043305	-0.15138	0.397913	-0.18549	0.438655	0.157626	0.996915	0.111249	0.998854
DDX11	-0.08212	0.202017	0.112737	-0.24167	0.543653	0.13541	0.403743	0.07013	-0.36492	0.163068	-0.0062	-0.04899	0.006323	0.860554	0.48388	0.373228
PRICKLE2	-0.04468	-0.16528	0.121647	-0.32264	0.741406	0.223487	0.367366	0.014375	-0.03598	-0.48154	0.051646	-0.28934	0.406167	0.000352	0.631914	0.025568
KLHDC6	0.276086	-0.11428	0.287002	-0.31424	0.039431	0.406109	0.031983	0.018342	0.362572	-0.28904	0.154923	-0.34404	0.992811	0.02707	0.842343	0.010332
SPATA5	0.112487	0.159232	-0.12791	0.291883	0.404792	0.241115	0.343019	0.02759	-0.00398	0.412145	-0.22242	0.35839	0.489523	0.997787	0.070979	0.992771
BBS12	-0.17751	-0.0641	-0.09604	-0.17195	0.186491	0.638799	0.477269	0.200909	-0.32657	-0.18402	0.003234	-0.0126	0.013377	0.11044	0.508411	0.466885
DHX15	0.079873	0.343529	-0.27807	0.264136	0.55478	0.009537	0.03623	0.047098	0.06114	0.489528	-0.20313	0.398117	0.65676	0.999723	0.090399	0.996929
DECR1	-0.07133	0.259995	-0.21566	0.31877	0.601405	0.055238	0.11043	0.016644	-0.15737	0.523409	-0.2109	0.371655	0.148131	0.999905	0.082171	0.994507
DCLK2	0.291689	-0.24025	0.337932	0.054588	0.027698	0.074502	0.010143	0.686727	0.294712	-0.47719	0.230383	-0.294	0.976607	0.000399	0.936062	0.023673
GPR125	0.227194	0.098256	-0.12978	-0.04852	0.092197	0.475424	0.340418	0.722494	0.256811	0.12366	0.078868	-0.02204	0.955712	0.790831	0.694584	0.442863
TRIM60	-0.02753	-0.19717	0.189498	-0.28645	0.840359	0.149066	0.161872	0.032329	0.135413	-0.38793	0.182758	-0.28657	0.815215	0.003863	0.885246	0.02675
FREM3	-0.01263	-0.20267	0.093839	-0.26389	0.925693	0.134128	0.487489	0.047312	0.069391	-0.43289	0.257646	-0.34635	0.676608	0.001329	0.956245	0.009189
MMAA	-0.15457	0.307432	-0.22797	0.322424	0.250947	0.021175	0.088099	0.014444	-0.18267	0.565074	-0.1765	0.469326	0.112163	0.999979	0.123057	0.9995
ZNF509	-0.00589	0.212741	-0.01538	0.207635	0.965654	0.118902	0.910428	0.124651	0.027393	0.131118	-0.03596	0.127776	0.570883	0.8047	0.408378	0.798552
TIGD2	-0.08688	0.216764	-0.34963	0.121151	0.520465	0.108566	0.007678	0.369334	0.088289	0.531071	-0.20992	0.30496	0.72021	0.999927	0.083177	0.980339
RASSF6	0.062554	0.199166	-0.13166	0.020244	0.643892	0.14113	0.328955	0.881185	-0.03698	0.434025	-0.06507	0.365297	0.403609	0.998709	0.335531	0.993725
RBM46	-0.05471	-0.10873	0.10486	-0.28771	0.686057	0.425073	0.437585	0.029996	0.075274	-0.43088	0.183151	-0.35881	0.690473	0.001398	0.885756	0.007168
DEFA4	0.047764	-0.03093	0.094472	-0.31718	0.724219	0.820962	0.484546	0.016214	0.129132	-0.2438	0.212197	-0.31377	0.803807	0.051262	0.919153	0.016857
SGMS2	-0.07234	0.264848	-0.15191	-0.12024	0.592823	0.048539	0.259308	0.372968	-0.17727	0.267076	-0.11038	0.10915	0.119287	0.963617	0.235203	0.764878
MIER3	0.03283	0.391306	-0.33589	0.166681	0.808444	0.002863	0.010637	0.215263	0.10168	0.415211	-0.3017	0.233999	0.749334	0.997944	0.021997	0.941232
CDC20B	-0.10854	-0.06492	-0.10188	-0.23273	0.421596	0.634505	0.450805	0.081484	-0.10214	0.112602	-0.09192	0.059511	0.249695	0.771883	0.274069	0.652791
CRISP1	0.128585	-0.16797	0.111364	-0.31587	0.34046	0.215935	0.409528	0.016686	0.016048	-0.35882	0.242658	-0.25406	0.542152	0.007167	0.945874	0.044214
DEFA5	0.07051	-0.18682	0.254684	-0.26438	0.602231	0.16799	0.055891	0.046885	0.152201	-0.33749	0.22284	-0.25878	0.843696	0.010902	0.929404	0.041232
DEFA6	0.115181	-0.03474	0.07658	-0.21509	0.393563	0.799338	0.571265	0.108096	0.004909	-0.41733	0.103205	-0.34158	0.512914	0.001954	0.750048	0.010081
UGT3A2	0.118323	-0.18129	0.223609	-0.23317	0.380698	0.181179	0.094513	0.080894	0.153028	-0.36248	0.090487	-0.27472	0.845023	0.006649	0.722786	0.032326
PAPD4	0.012485	0.209467	-0.16971	0.19682	0.926561	0.121286	0.206924	0.142257	0.141125	0.270211	-0.05029	0.23427	0.825236	0.965328	0.371437	0.941451
DEFB1	0.054081	0.088061	0.043311	-0.04438	0.689488	0.518681	0.749048	0.743046	0.218515	0.109389	-0.10115	-0.0804	0.927711	0.765367	0.254256	0.297659
DCP2	0.057969	0.015925	-0.04287	0.22146	0.671293	0.907261	0.753732	0.10094	0.126191	0.048396	-0.09688	0.04948	0.798328	0.625285	0.263329	0.627997
MGC42105	-0.06869	0.063671	0.051534	-0.15087	0.614954	0.64421	0.706026	0.267037	0.146833	-0.28488	0.201889	-0.29715	0.832101	0.028929	0.905612	0.023724
DES	0.361844	-0.25514	0.227586	0.154104	0.005679	0.057722	0.088644	0.252402	0.314653	-0.39638	0.315968	-0.18942	0.983405	0.003195	0.982761	0.103692
LIX1	0.11709	-0.177	0.171615	-0.31102	0.394574	0.200415	0.210272	0.02082	0.193591	-0.33696	0.304354	-0.2863	0.898703	0.011804	0.977714	0.028283
ZNF366	0.047132	-0.17682	0.216754	0.078996	0.727728	0.192352	0.105336	0.559146	0.19041	-0.24365	0.067066	-0.0642	0.897515	0.051369	0.669207	0.335833
CFD	-0.01516	-0.11112	0.059266	0.295416	0.910858	0.414869	0.661445	0.025682	0.083818	-0.16169	0.153938	0.069946	0.710146	0.141521	0.843661	0.677927
FAM151B	6.56E-05	-0.05383	0.035532	-0.30552	0.999614	0.693572	0.793014	0.020827	-0.07869	-0.20001	0.077966	-0.23531	0.3016	0.091316	0.694648	0.057716
DFFA	-0.08186	0.34059	-0.1546	0.146547	0.544927	0.010212	0.25085	0.276692	-0.15663	0.631082	-0.18592	0.397767	0.149276	0.999999	0.110707	0.996905
PRSS35	0.042395	-0.1446	0.15654	-0.17436	0.756378	0.292193	0.249264	0.198722	0.132983	-0.3756	0.073887	-0.32532	0.810851	0.005052	0.685225	0.013688
LCA5	-0.11378	-0.07357	-0.08085	-0.21982	0.399394	0.589987	0.549952	0.100375	-0.20771	-0.18868	0.02771	-0.17872	0.083007	0.104597	0.571693	0.117346
DFFB	0.07798	0.006518	0.150484	0.258539	0.567822	0.96233	0.268277	0.054362	0.204484	-0.07456	0.040625	-0.04912	0.911075	0.313207	0.603272	0.37431
TIMM8A	0.048633	0.253391	-0.30369	0.381443	0.719407	0.059522	0.021644	0.003416	-0.05622	0.671979	-0.30753	0.492822	0.355276	1	0.019938	0.999749
OLIG3	0.02576	-0.1909	0.243323	-0.27945	0.849145	0.158741	0.068172	0.035274	0.106964	-0.4139	0.189556	-0.36663	0.760382	0.002122	0.893827	0.006103
TXLNB	-0.11201	-0.23891	0.051274	-0.24685	0.406792	0.076176	0.70485	0.064143	-0.2534	-0.3081	0.053538	-0.20979	0.044639	0.018619	0.636563	0.080856
DACT2	-0.02419	0.060533	0.03333	0.012955	0.858246	0.657638	0.80558	0.923803	0.030065	-0.09808	-0.039	-0.14753	0.578611	0.25834	0.399607	0.163929
C6orf118	-0.10999	-0.15675	0.040651	-0.17256	0.415379	0.248622	0.764001	0.199276	-0.16781	-0.26339	0.07443	-0.22461	0.132482	0.038479	0.686487	0.066717
ZNF92	-0.08718	0.208802	-0.16859	0.06057	0.519026	0.122499	0.209983	0.654459	-0.00526	0.214022	-0.11746	0.168106	0.48617	0.923387	0.221105	0.867949
GALNTL5	0.08456	-0.18964	0.160879	-0.13269	0.531716	0.161559	0.231888	0.325133	-0.27916	-0.12872	-0.09328	-0.09501	0.031648	0.199701	0.273509	0.26736
DDX53	-0.10277	-0.16812	0.119875	-0.2001	0.451028	0.219838	0.378855	0.139236	-0.00084	-0.31605	-0.02492	-0.32792	0.497804	0.017215	0.436214	0.013936

ZNF679	-0.06729	-0.23007	0.007599	-0.22439	0.622175	0.088043	0.955675	0.096402	0.090265	-0.28121	0.091815	-0.29119	0.722298	0.030652	0.723326	0.026148
RNF133	0.060896	-0.20554	0.116164	0.28406	0.652722	0.128581	0.389511	0.03224	0.25956	-0.13566	-0.07886	-0.14974	0.959243	0.184338	0.303296	0.160299
CDC14C	-0.22517	-0.01632	-0.18435	-0.05034	0.095212	0.905889	0.173785	0.712554	0.011783	0.004964	0.042827	0.112793	0.530974	0.51306	0.610008	0.772267
THAP5	-0.24997	0.225813	-0.08186	0.223108	0.060745	0.094248	0.544942	0.095273	-0.01928	-0.04742	0.021247	-0.12946	0.449994	0.378546	0.554444	0.198339
FLJ36031	-0.11771	-0.21037	0.188381	-0.01004	0.38758	0.119659	0.164406	0.941442	0.284085	-0.41135	0.219762	-0.29298	0.972149	0.002256	0.926544	0.024078
LOC168474	-0.19257	-0.0788	0.066463	-0.16686	0.15124	0.563723	0.623274	0.214773	0.059789	-0.4634	0.180224	-0.34636	0.653469	0.000591	0.881929	0.009187
PKD1L1	0.135484	-0.23372	0.209842	-0.12803	0.314962	0.082979	0.117192	0.342576	0.216421	-0.39205	0.331748	-0.35087	0.923344	0.003867	0.986094	0.00906
GIMAP7	0.060669	-0.1442	0.006377	0.50113	0.653934	0.289018	0.96245	7.17E-05	0.277948	-0.39905	0.147437	-0.09458	0.969279	0.003006	0.833103	0.265919
ZNF467	-0.04142	0.152313	0.050758	-0.32115	0.759641	0.262435	0.707684	0.014859	-0.02645	-0.01617	0.086499	0.021533	0.430729	0.457528	0.713959	0.556475
BHLHA15	0.209583	-0.30345	0.29418	0.038302	0.117654	0.022996	0.026337	0.777277	0.262393	-0.33925	0.257656	-0.20669	0.960938	0.010544	0.956252	0.084071
BMPER	0.142596	-0.0281	0.276504	-0.22924	0.294459	0.838641	0.039122	0.089218	0.260848	-0.30888	0.273127	-0.31594	0.958246	0.019484	0.963581	0.017247
DFNA5	0.145269	0.1923	-0.2816	0.202464	0.280948	0.155644	0.033833	0.130943	0.01833	0.662046	-0.14442	0.492798	0.548118	1	0.171952	0.999749
ZNF800	-0.03889	0.335025	-0.08315	0.148311	0.773955	0.011604	0.538597	0.270889	0.084985	0.137818	0.104259	0.073098	0.712788	0.819476	0.752244	0.685373
CNBD1	0.074043	-0.10936	0.224833	-0.36391	0.587588	0.426717	0.095722	0.005833	0.00239	-0.47209	0.218949	-0.39265	0.506215	0.00053	0.923344	0.003815
COCH	0.181748	-0.32109	0.294941	-0.11676	0.176033	0.015826	0.025933	0.387049	0.160177	-0.3028	0.194206	-0.18111	0.856191	0.020403	0.899433	0.114187
SLC30A8	0.114089	-0.04568	0.193259	-0.13816	0.402456	0.740501	0.153553	0.309897	0.090867	-0.11339	0.169304	-0.0986	0.723621	0.229162	0.864042	0.259662
COL22A1	0.024886	-0.23433	0.257613	-0.20329	0.854208	0.08216	0.053035	0.129343	0.14863	-0.40301	0.248124	-0.29866	0.837885	0.002744	0.949854	0.021891
SNX31	0.084736	0.376736	-0.2636	-0.0585	0.530856	0.004211	0.047562	0.66557	-0.04721	0.55464	-0.16309	0.18432	0.377695	0.999968	0.142213	0.889948
TMEM64	0.100191	0.276553	-0.07148	0.299522	0.462523	0.040962	0.600617	0.024921	0.09902	0.584921	-0.06346	0.44113	0.743674	0.99999	0.339381	0.998925
ZNF596	-0.02078	0.119473	-0.18265	-4.27E-05	0.87807	0.380467	0.173859	0.999748	-0.11165	0.345741	-0.01344	0.26602	0.230032	0.990701	0.465096	0.963026
IDO2	-0.18295	0.022179	0.046467	0.081468	0.177144	0.872311	0.733803	0.550578	-0.25471	-0.05107	-0.26894	-0.13894	0.04379	0.368033	0.037017	0.178555
C9orf96	0.083941	-0.08195	0.199525	-0.113	0.534731	0.548223	0.136747	0.402649	0.24239	-0.42723	0.067557	-0.34419	0.947709	0.001532	0.67037	0.009585
KCNV2	0.010684	-0.23025	0.241659	-0.14392	0.937128	0.087786	0.070139	0.285477	0.117549	-0.46846	0.15989	-0.35315	0.78172	0.000513	0.852949	0.008034
OLFML2A	0.148407	-0.05183	0.034471	-0.06731	0.270574	0.704406	0.799061	0.618859	0.03862	0.058741	-0.0224	0.015691	0.600568	0.650907	0.44194	0.541216
C9orf71	-0.25686	-0.12353	-0.01974	-0.274	0.053758	0.364386	0.884103	0.039163	0.050508	-0.44076	0.068941	-0.42634	0.630564	0.001085	0.673642	0.001566
QSOX2	-0.14675	-0.11081	0.104252	-0.00402	0.276007	0.416189	0.44026	0.976295	-0.41492	-0.05768	-0.08111	-0.09918	0.002071	0.351698	0.298168	0.255989
GLIS3	-0.06645	-0.19058	0.097329	-0.30784	0.623363	0.159451	0.471371	0.019831	-0.14236	-0.22052	-0.07996	-0.23426	0.175449	0.072749	0.302934	0.060709
ZNF169	0.001543	0.072772	0.092933	-0.30405	0.990995	0.5975	0.49572	0.022714	0.158257	-0.1288	0.068817	-0.26814	0.853244	0.196808	0.673349	0.035795
FAM46D	0.141793	-0.06691	0.141694	-0.4309	0.292743	0.624154	0.293084	0.00082	-0.05895	-0.21309	0.128815	-0.27604	0.348591	0.077532	0.800477	0.031661
SPIN3	-0.06607	-0.26464	0.193293	-0.12405	0.628548	0.048718	0.15348	0.362342	0.14829	-0.35988	0.234656	-0.19716	0.837325	0.007013	0.939619	0.094538
FAM47B	0.0246	0.113738	0.183589	-0.10364	0.855865	0.403911	0.171622	0.442956	0.062537	0.006702	0.028443	-0.11233	0.660152	0.51763	0.573571	0.228671
CXorf22	-0.09494	-0.11458	0.029486	-0.16083	0.482376	0.400433	0.827639	0.232041	-0.12521	-0.25662	0.083429	-0.17644	0.203522	0.042578	0.707075	0.1204
TCEANC	-0.04758	0.145916	-0.10636	0.040996	0.725253	0.283243	0.431034	0.762056	-0.0614	0.096173	-0.2323	0.236798	0.342599	0.737547	0.06232	0.943457
ZCCHC12	0.045456	0.01071	0.036271	-0.2721	0.737054	0.937559	0.788803	0.040598	0.122808	-0.18063	0.062801	-0.14454	0.791916	0.114825	0.659035	0.168937
ARX	0.015859	-0.16197	0.301253	-0.22895	0.90679	0.233025	0.022774	0.086695	0.174347	-0.39079	0.218221	-0.31941	0.876738	0.003624	0.92508	0.015241
FAM170B	-0.05414	-0.11421	0.219834	-0.24326	0.689141	0.401958	0.100361	0.068246	0.111613	-0.2669	0.114665	-0.26185	0.769888	0.036484	0.773381	0.039381
FUT11	0.299373	0.18366	0.173803	0.304809	0.023679	0.175435	0.196019	0.021142	0.422154	0.103464	0.305284	0.051507	0.998263	0.753093	0.979287	0.633052
OIT3	-0.06894	0.0095	0.146187	-0.18377	0.610383	0.944601	0.277887	0.171197	-0.03499	-0.11112	-0.00567	-0.14195	0.408721	0.231101	0.485251	0.173337
C10orf91	-0.06011	-0.11753	0.301255	0.006859	0.65987	0.392788	0.024056	0.959988	0.095296	-0.35012	0.208694	-0.25479	0.735645	0.008532	0.915554	0.043742
PWWP2B	-0.13752	-0.17912	0.145603	-0.24018	0.307687	0.186527	0.279833	0.071929	-0.07854	-0.22254	0.080342	-0.26425	0.30194	0.068569	0.70008	0.037984
SSBP4	-0.01063	-0.27952	0.273385	-0.36053	0.938006	0.038756	0.04148	0.006341	-0.16749	-0.46601	0.035958	-0.34295	0.132938	0.000549	0.592702	0.009818
CLEC4C	-0.098	-0.09242	0.195073	-0.0232	0.472415	0.502156	0.149654	0.86521	-0.02306	-0.33571	0.150791	-0.27441	0.43956	0.011278	0.838604	0.032481
C20orf134	-0.08677	-0.08248	0.184193	-0.11391	0.521007	0.545615	0.170192	0.398838	0.069776	-0.32247	0.061307	-0.29301	0.677524	0.014421	0.655446	0.024066
DHX36	0.085888	0.212829	-0.19458	0.282293	0.525265	0.115292	0.146937	0.033376	0.068127	0.436445	-0.08864	0.376872	0.673598	0.998787	0.281289	0.995084
HTR3C	-0.07783	-0.04862	0.21257	-0.23434	0.56496	0.721963	0.112396	0.079332	0.044735	-0.32288	0.13655	-0.24488	0.616081	0.014312	0.814453	0.050476
GIMAP1	0.0151	-0.35532	0.173044	0.317107	0.911232	0.007202	0.198009	0.016241	0.144349	-0.44548	0.115674	-0.24491	0.830743	0.00096	0.775377	0.050458
GPHA2	0.081904	-0.16418	0.243667	-0.14801	0.544725	0.226623	0.067771	0.271884	0.164358	-0.31031	0.185523	-0.29851	0.862473	0.017917	0.888793	0.021947
S100Z	0.021532	-0.18109	0.253044	-0.0911	0.873685	0.181658	0.057545	0.50036	0.048069	-0.24511	0.171693	-0.04895	0.623074	0.052314	0.867445	0.374748
COMMD6	0.039947	-0.0319	-0.15708	0.213537	0.767973	0.815447	0.243231	0.110733	0.072637	0.020368	-0.18682	0.277645	0.684288	0.553438	0.10957	0.969131
XAGE3	0.011003	-0.10919	0.162146	-0.28473	0.935258	0.423111	0.228184	0.031816	0.026002	-0.32413	0.074192	-0.32828	0.568096	0.013991	0.685934	0.012962

XAGE5	-0.06792	0.029284	-0.07717	-0.08166	0.61569	0.830355	0.568281	0.545936	-0.19378	-0.10745	-0.22895	-0.09595	0.098456	0.238604	0.065162	0.262929
PSORS1C1	0.001593	-0.17777	0.174193	-0.09073	0.990615	0.189927	0.195	0.502105	-0.07416	-0.22529	0.098864	-0.19247	0.312141	0.066119	0.740901	0.100008
PSORS1C2	0.040205	-0.21688	0.176066	-0.26875	0.766514	0.108379	0.190167	0.043237	-0.00296	-0.41178	0.162577	-0.30427	0.492207	0.002232	0.857021	0.019896
NUDT10	0.152983	-0.06358	0.217524	-0.16224	0.260318	0.6447	0.107302	0.232226	0.091049	-0.26563	0.194594	-0.21239	0.72634	0.037193	0.899891	0.078226
ADAMTS15	0.099986	-0.12757	0.288807	-0.09682	0.459293	0.348801	0.029347	0.473722	0.087066	-0.27875	0.133498	-0.10752	0.717475	0.030333	0.809009	0.238478
ADAMTS16	0.026165	-0.15932	0.251259	-0.10479	0.846802	0.240848	0.059388	0.437886	0.102394	-0.46314	0.097626	-0.41005	0.750842	0.000595	0.73826	0.002326
ADAMTS17	-0.05991	0.039643	0.289322	-0.09883	0.657967	0.771752	0.029046	0.464545	0.021098	-0.16403	0.006595	-0.02661	0.555343	0.138016	0.517148	0.430325
ADAMTS18	0.252562	-0.02667	0.25955	-0.09737	0.058038	0.845309	0.051211	0.471164	0.149107	-0.29213	0.237531	-0.04313	0.83867	0.024418	0.941926	0.387975
COX7B2	0.077142	-0.09444	0.190552	-0.3937	0.572004	0.492828	0.159509	0.002682	0.031371	-0.29224	-0.02119	-0.39535	0.58198	0.024375	0.445061	0.00327
GSX2	0.064601	-0.04222	0.243039	-0.19765	0.63306	0.757344	0.068505	0.14054	0.267808	-0.34347	0.215618	-0.28956	0.964022	0.009719	0.92256	0.025475
KCNG3	-0.00982	0.008628	0.164149	-0.11812	0.942182	0.949679	0.222413	0.381515	0.00519	-0.33543	0.028373	-0.32136	0.513655	0.011338	0.573391	0.014714
KIAA1949	0.091098	-0.29423	0.161507	0.322852	0.500351	0.027724	0.230046	0.014307	0.180338	-0.37478	0.086203	-0.1408	0.884797	0.005141	0.713298	0.175319
ZNF431	-0.0032	0.385934	-0.06908	0.106008	0.981316	0.003613	0.612953	0.43681	-0.0603	0.422597	-0.22387	0.317177	0.345284	0.998282	0.069656	0.984135
ZNF721	-0.03807	0.155284	-0.10174	0.055022	0.778611	0.253132	0.451427	0.684366	0.118247	-0.00585	0.029364	0.046278	0.783089	0.48461	0.575925	0.619968
ANKRD24	0.010657	-0.32298	0.225619	-0.18861	0.937291	0.015186	0.091511	0.15999	0.021944	-0.41827	0.273813	-0.28672	0.557546	0.00191	0.965625	0.026688
ZNF384	0.180397	0.272462	0.220519	0.086045	0.179324	0.0422	0.099279	0.524506	0.199145	0.187434	0.239919	0.152167	0.907718	0.893864	0.943791	0.843641
ADAMTS19	-0.00943	-0.20177	0.052743	-0.3264	0.944491	0.135893	0.696797	0.013214	0.033019	-0.39801	0.232441	-0.27058	0.586225	0.003078	0.937794	0.034473
ASXL1	-0.11176	-0.153	0.084852	0.174077	0.407852	0.260259	0.530295	0.195303	0.225729	-0.19798	0.101834	-0.06565	0.934271	0.093595	0.747177	0.332343
SYNPO2	0.370255	-0.19227	0.310407	0.150295	0.004972	0.159636	0.019895	0.268887	0.326124	-0.34043	0.303267	-0.11084	0.986512	0.010306	0.978572	0.231684
SPACA4	-0.07957	-0.0568	0.071178	-0.24934	0.55629	0.677554	0.598786	0.061426	0.08388	-0.25163	0.094767	-0.313	0.708092	0.047712	0.729696	0.018152
RHOV	-0.11324	0.160173	-0.12904	0.017452	0.401635	0.238308	0.338743	0.897476	-0.08813	0.360045	-0.31912	0.077104	0.280148	0.99301	0.016312	0.694734
NLRP6	0.119796	-0.28602	0.266232	-0.15567	0.374755	0.0326	0.04531	0.247551	0.052306	-0.42408	0.114075	-0.41595	0.635039	0.001656	0.772211	0.00202
NS3BP	-0.02954	-0.09903	0.112618	-0.06633	0.827328	0.467769	0.404244	0.623954	0.052267	-0.08997	0.146195	-0.19957	0.634943	0.27604	0.831036	0.091809
ZNF675	-0.01121	0.400174	-0.25099	-0.12639	0.934061	0.002244	0.059668	0.34882	-0.1178	0.461415	-0.11275	0.258182	0.217784	0.999376	0.230433	0.958398
PDIA3P	-0.07678	0.080502	0.086566	0.069048	0.570238	0.555328	0.52199	0.609796	-0.02333	0.191039	0.010902	0.214101	0.438857	0.898275	0.528331	0.923465
CLYBL	-0.09568	0.173143	-0.25605	0.134336	0.478963	0.201912	0.05454	0.31912	-0.08819	0.306847	-0.12021	0.265416	0.280011	0.98097	0.215765	0.962684
FAM9A	0.070759	-0.2228	0.238549	-0.27355	0.600945	0.09884	0.073938	0.039499	-0.00924	-0.39567	0.218001	-0.24507	0.475694	0.003247	0.92487	0.050343
FAM9B	-0.11099	-0.11178	0.145442	-0.25773	0.411133	0.412086	0.28037	0.052921	0.056414	-0.36454	0.155373	-0.23048	0.645196	0.006374	0.845934	0.061658
FAM9C	0.159369	-0.26768	0.126652	-0.22697	0.240705	0.04818	0.352291	0.092532	-0.06206	-0.16036	0.101402	-0.07192	0.341016	0.143527	0.746269	0.317394
C14orf147	-0.00131	0.218527	-0.0969	0.159821	0.992345	0.108967	0.477434	0.239356	0.211491	0.132974	-0.09264	0.060759	0.920869	0.810835	0.272503	0.655833
PTCRA	-0.0197	-0.0377	0.211462	-0.27703	0.88436	0.782633	0.114325	0.03696	0.210531	-0.40045	0.237835	-0.44579	0.917456	0.003207	0.93998	0.001074
POLR3H	-0.10608	-0.11308	0.00702	0.034558	0.432261	0.406674	0.958665	0.798564	0.004859	0.016833	0.014258	0.128565	0.512784	0.544206	0.537033	0.802758
ABHD3	0.009386	0.102921	-0.25324	0.056984	0.944756	0.450353	0.057347	0.673735	-0.12776	0.345312	-0.07755	0.271489	0.198731	0.990623	0.306314	0.966007
DGUOK	-0.04365	0.096639	-0.1649	-0.07321	0.747145	0.478615	0.220274	0.588391	-0.02468	0.361489	-0.07913	0.173335	0.435347	0.993213	0.30269	0.87534
DHCR7	-0.02853	0.104517	0.00866	-0.11429	0.833145	0.443321	0.949024	0.397262	-0.14234	0.19516	-0.0161	0.104139	0.17268	0.903157	0.458187	0.754508
DHCR24	-0.23929	0.116431	-0.20595	-0.01017	0.075704	0.39726	0.127817	0.940723	-0.25505	0.23438	-0.27537	0.137361	0.045429	0.939393	0.035214	0.815884
AFG3L1	-0.21933	-0.0335	0.071369	-0.04973	0.101161	0.806352	0.597802	0.713332	0.051472	-0.25345	-0.00633	-0.25188	0.632965	0.044606	0.483541	0.045644
DHODH	-0.00809	0.045224	-0.05524	-0.10536	0.952353	0.740671	0.68318	0.4354	-0.25103	0.242845	-0.16025	-0.05645	0.046212	0.948044	0.146508	0.354725
DHPS	-0.0721	-0.03678	-0.0529	0.030494	0.594036	0.787834	0.695962	0.821842	-0.15573	0.354929	-0.30453	0.213118	0.150697	0.992248	0.020979	0.922495
CYB5R3	0.107151	-0.05257	0.010418	0.1019	0.42758	0.700388	0.938694	0.450699	0.040475	0.315235	-0.01643	0.302509	0.605292	0.983576	0.457347	0.979494
NQO1	-0.11253	0.370866	-0.22147	-0.17514	0.404608	0.004896	0.097791	0.192537	-0.17234	0.204141	-0.11669	0.078894	0.128803	0.910703	0.225321	0.696776
DIAPH1	-0.09461	0.206542	-0.12643	0.321578	0.487927	0.130296	0.353135	0.015659	-0.05167	0.5378	-0.19771	0.311645	0.366547	0.999942	0.096481	0.982499
AFM	0.057245	0.128185	0.19954	-0.2985	0.675168	0.350993	0.14037	0.025442	-0.02473	-0.21462	0.117301	-0.10973	0.435195	0.076024	0.778575	0.233942
DIAPH2	0.069186	-0.05511	-0.0469	0.113754	0.609083	0.686636	0.729044	0.399488	0.11459	-0.13112	0.040852	-0.08419	0.775864	0.192529	0.605052	0.289016
Sep-01	-0.06981	-0.21024	0.163224	0.54966	0.605828	0.119879	0.225065	9.49E-06	0.028948	0.075195	0.146598	0.085256	0.575726	0.690288	0.831709	0.713402
DIO1	-0.24644	0.129065	-0.17722	-0.37399	0.067107	0.347668	0.191331	0.00452	-0.40031	-0.10247	-0.04579	-0.06917	0.00292	0.248989	0.382588	0.323921
DIO2	0.190062	-0.0985	0.061386	0.415886	0.160604	0.474346	0.653121	0.001434	-0.25302	0.322721	0.039487	0.574711	0.046776	0.984698	0.60044	0.999982
DIO3	0.008156	-0.05167	0.154682	-0.14708	0.951987	0.705292	0.250605	0.274928	0.245056	-0.34491	0.111967	-0.36151	0.949648	0.009452	0.767998	0.006783
DKC1	-0.01313	0.321147	-0.2396	0.23633	0.923473	0.016817	0.075314	0.079502	-0.14955	0.663802	-0.29366	0.493349	0.160603	1	0.025121	0.999753
DLAT	-0.1118	0.237264	-0.35612	-0.02477	0.40767	0.078287	0.006551	0.854896	-0.25733	0.528414	-0.19872	0.304723	0.042132	0.99992	0.095326	0.980258

DLD	-0.03734	0.395972	-0.36746	0.142327	0.782721	0.00252	0.004925	0.290909	-0.17689	0.590279	-0.29026	0.419109	0.119802	0.999992	0.026545	0.998129
DLG1	-0.01048	0.388233	-0.22235	0.088328	0.938308	0.00311	0.096431	0.51352	-0.07556	0.475641	-0.18212	0.359264	0.30887	0.999582	0.115579	0.992898
AFP	0.036185	-0.13405	0.044557	-0.24868	0.791192	0.329209	0.744368	0.06458	0.019324	-0.34994	0.180924	-0.31786	0.550715	0.008562	0.882853	0.015672
DLG2	0.124807	0.002033	0.080877	-0.30474	0.354954	0.988133	0.549798	0.021173	0.179441	-0.22852	0.332032	-0.18819	0.880891	0.065538	0.986165	0.107855
DLG3	-0.1912	0.199839	-0.18318	-0.2443	0.158071	0.14352	0.176597	0.0696	-0.15727	0.343886	-0.41959	0.013933	0.151094	0.989638	0.002289	0.536191
DLG4	-0.05471	-0.1509	0.181339	-0.29257	0.686068	0.266949	0.177026	0.027212	-0.26272	-0.18349	-0.00231	-0.04332	0.038871	0.111116	0.493993	0.387486
DLST	0.199626	0.242857	-0.09697	0.253703	0.140195	0.074009	0.477086	0.059198	0.095407	0.588991	-0.19059	0.300258	0.735886	0.999992	0.104902	0.978692
DLX1	-0.07236	-0.03258	0.183344	-0.17318	0.59269	0.811573	0.172205	0.197641	0.094549	-0.3005	0.107196	-0.33493	0.734019	0.021221	0.758312	0.011446
DLX2	0.219109	-0.28537	0.229025	-0.20416	0.101514	0.033015	0.086592	0.127674	0.192902	-0.38706	0.391022	-0.40656	0.900503	0.003937	0.996045	0.002526
DLX3	0.057936	-0.07387	0.216058	-0.3248	0.67147	0.591953	0.109751	0.014591	-0.01451	-0.1546	0.141766	-0.20752	0.461868	0.152469	0.823539	0.083206
DLX4	0.025205	0.155543	0.179631	-0.19769	0.852359	0.252329	0.181209	0.140478	0.183978	-0.23792	0.21104	-0.30492	0.88682	0.05777	0.915454	0.020841
DLX5	0.029035	-0.15422	0.061656	-0.20095	0.830236	0.256425	0.648668	0.133903	0.039872	-0.23851	0.212435	-0.36474	0.60376	0.055213	0.919394	0.006348
AGA	-0.1412	0.302943	-0.35893	0.201442	0.294797	0.023238	0.00611	0.132939	-0.16779	0.503667	-0.25945	0.360351	0.132511	0.99982	0.042616	0.993054
DLX6	-0.03608	-0.0516	0.1783	-0.20436	0.789885	0.70566	0.184518	0.127294	0.153513	-0.36894	0.207662	-0.35592	0.845797	0.005816	0.914471	0.007599
DMBT1	0.223288	-0.41665	0.287559	0.172855	0.095	0.001402	0.030085	0.198508	0.214878	-0.26265	0.351544	-0.14855	0.924225	0.038913	0.991058	0.162241
DMD	0.174837	-0.31708	0.158715	-0.16508	0.19333	0.017261	0.238313	0.21977	0.041885	-0.47185	0.212226	-0.32154	0.608873	0.000466	0.919183	0.014666
SARDH	0.077819	-0.29483	0.212588	-0.12529	0.565036	0.027396	0.112365	0.353069	0.16437	-0.45495	0.17142	-0.35957	0.862491	0.000745	0.8699	0.007058
DMP1	-0.06824	-0.19875	0.070502	-0.42893	0.613998	0.141979	0.602273	0.000871	0.125222	-0.49685	0.169919	-0.46841	0.796503	0.000222	0.867771	0.000514
DNM1	0.157352	-0.16516	0.133576	0.227	0.242418	0.223809	0.32189	0.089491	0.213442	0.002523	0.119638	0.020973	0.922815	0.506639	0.783125	0.555017
ACAN	0.347263	-0.12825	0.393327	-0.03686	0.009388	0.355374	0.002971	0.789356	0.52193	-0.20051	0.345832	-0.27698	0.999882	0.093306	0.989259	0.03274
DMPK	0.159453	-0.25978	0.356513	-0.09285	0.240454	0.055444	0.006997	0.496109	0.199505	-0.4183	0.181104	-0.28509	0.908122	0.001908	0.883089	0.027403
DMRT1	-0.04086	-0.05818	0.185249	-0.29495	0.764917	0.673064	0.171665	0.027331	-0.03812	-0.36506	0.183283	-0.27575	0.400699	0.006305	0.885925	0.031805
DMWD	0.057725	-0.18207	0.281147	-0.24605	0.669731	0.17927	0.03413	0.065039	0.052317	-0.36709	0.192932	-0.30018	0.635067	0.006045	0.897918	0.021337
DNA2	-0.14619	0.414992	-0.22081	0.173924	0.282343	0.001631	0.101966	0.199854	-0.02642	0.504768	-0.20985	0.269455	0.430809	0.999826	0.083247	0.964922
DNAH5	-0.08006	-0.19848	0.060444	-0.14743	0.553866	0.142525	0.655135	0.273772	-0.14554	-0.21112	-0.08431	-0.23546	0.170056	0.081936	0.293178	0.059728
DNAH8	0.053924	-0.04483	0.123253	-0.26507	0.693051	0.745179	0.365469	0.048345	0.12924	-0.32677	0.072391	-0.31183	0.801259	0.014229	0.679743	0.018523
AGER	0.0214	-0.30706	0.216997	-0.15018	0.87445	0.021338	0.104936	0.264823	0.151698	-0.36967	0.162819	-0.31479	0.842886	0.005727	0.857384	0.016554
DNAH9	-0.06429	-0.21357	0.092501	-0.24115	0.634711	0.113999	0.493746	0.070756	-0.11798	-0.33248	0.120356	-0.2667	0.217434	0.011985	0.784512	0.036593
DNASE1	-0.07964	0.063851	0.075324	-0.09575	0.555928	0.640128	0.577611	0.478627	-0.18224	0.022187	0.124643	0.00069	0.112725	0.55818	0.79269	0.501815
DNASE1L1	-0.02052	-0.07493	0.02031	-0.10484	0.879591	0.583114	0.880801	0.437673	-0.06603	0.198348	-0.00257	0.128511	0.331425	0.906819	0.493305	0.802657
DNASE1L2	-0.14376	-0.06294	0.128043	-0.21954	0.286016	0.644933	0.342519	0.100824	-0.08484	-0.15026	0.165305	-0.11874	0.287536	0.15945	0.861079	0.215948
DNASE1L3	0.151126	0.416059	-0.14416	0.142413	0.261794	0.001427	0.284676	0.290615	-0.13661	0.438978	-0.29405	0.311664	0.182648	0.998863	0.024962	0.982505
DNASE2	-0.0561	-0.15372	-0.03839	0.011317	0.678526	0.258005	0.776789	0.933413	-0.16364	0.078605	-0.10341	-0.01967	0.138592	0.698209	0.249527	0.448395
DYNC1H1	0.061049	0.208357	-0.23052	0.321237	0.654902	0.126878	0.087411	0.015776	-0.15974	0.572758	-0.18373	0.41537	0.14447	0.999984	0.113493	0.997951
AGL	0.070728	0.306199	-0.22971	0.07432	0.601107	0.021726	0.085635	0.582706	-0.09053	0.501987	-0.10169	0.385259	0.274817	0.999811	0.253119	0.995903
DYNC1I1	0.307402	-0.21438	0.335659	-0.18959	0.021188	0.116017	0.011438	0.161673	0.426016	-0.44906	0.310612	-0.4842	0.998238	0.000987	0.979921	0.000376
DYNC1I2	-0.04186	0.195281	-0.17688	0.013116	0.757186	0.149214	0.188087	0.92286	0.011839	0.15375	-0.06725	0.102794	0.531122	0.846176	0.330346	0.751685
DYNC1LI2	-0.07976	0.278651	-0.23159	0.141599	0.555354	0.037563	0.08303	0.29341	-0.08438	0.404718	-0.19978	0.263088	0.28858	0.997363	0.09413	0.961345
DNM2	-0.02509	-0.09037	0.08353	0.174882	0.853008	0.50773	0.536742	0.193213	-0.16908	0.246908	-0.05948	0.102047	0.130658	0.950961	0.348963	0.750109
DNMT1	-0.19873	0.106468	-0.13817	-0.11649	0.138349	0.434811	0.305388	0.388161	-0.36748	0.456035	-0.18608	0.288006	0.005996	0.999277	0.110504	0.973867
TRDMT1	-0.07598	-0.02515	-0.01716	-0.07751	0.574294	0.854001	0.899168	0.566577	-0.07977	-0.21627	0.145745	-0.20094	0.299101	0.07443	0.830284	0.090278
DNMT3A	0.045785	-0.20982	0.196621	-0.02023	0.735219	0.120652	0.142669	0.881276	0.135177	-0.14812	0.111449	0.004524	0.814794	0.162961	0.766955	0.511902
DNMT3B	0.164427	-0.03562	0.194244	-0.24253	0.221618	0.7944	0.147658	0.069107	0.21289	-0.2736	0.192829	-0.26464	0.922268	0.032896	0.897795	0.037758
DNTT	-0.00544	-0.01374	0.118402	-0.30543	0.967956	0.919952	0.380377	0.020867	0.044223	-0.29038	0.083257	-0.32287	0.614789	0.025134	0.706688	0.014316
DOCK1	0.126298	0.242133	-0.10356	0.200888	0.349191	0.072185	0.443327	0.134031	0.01671	0.375763	-0.19028	0.310927	0.543884	0.994966	0.105291	0.982277
DOCK2	0.014948	-0.29449	0.076818	0.634494	0.912122	0.027582	0.570068	1.16E-07	-0.193	-0.09901	0.089754	0.165094	0.099383	0.256355	0.721173	0.863559
DOCK3	0.340775	-0.24478	0.302533	-0.03295	0.009488	0.069036	0.022175	0.80775	0.413009	-0.52276	0.300343	-0.41403	0.997832	9.69E-05	0.977498	0.002116
DOK1	0.254457	-0.40121	0.310913	0.131898	0.056118	0.00218	0.018572	0.328062	0.066983	0.013572	0.285807	-0.01694	0.66901	0.535256	0.969993	0.456035
DOM3Z	0.199365	-0.04773	0.346931	-0.04691	0.137068	0.726844	0.008195	0.728985	0.310787	-0.07191	0.114745	-0.02505	0.982233	0.317429	0.77354	0.434369
DPAGT1	-0.10928	0.152026	-0.00542	-0.02504	0.418408	0.263347	0.968075	0.853343	-0.34343	0.414931	-0.30688	0.303897	0.009727	0.99793	0.020162	0.979976

ABAT	-0.06014	-0.01748	-0.24249	-0.27181	0.659747	0.899199	0.071757	0.042718	-0.10407	0.064914	-0.1914	-0.08388	0.24564	0.665895	0.10393	0.28972
DPEP1	0.021121	-0.17007	0.22002	-0.17917	0.876079	0.210143	0.100066	0.182341	0.132578	-0.31802	0.13121	-0.25506	0.810117	0.015627	0.804867	0.043567
DPH2	-0.09708	0.147415	-0.089	0.188115	0.47253	0.278272	0.510289	0.161118	-0.21523	0.41123	-0.3232	0.324075	0.075432	0.997738	0.015173	0.985996
DPP4	0.202494	-0.1015	-0.04711	-0.06867	0.130884	0.456656	0.727829	0.611758	0.079494	-0.27166	0.188366	-0.15229	0.698148	0.035525	0.889619	0.158981
DPP6	-0.03032	-0.03886	0.059135	-0.37415	0.822848	0.776141	0.662148	0.004143	0.203819	-0.23245	0.151102	-0.43111	0.910353	0.062199	0.83623	0.001556
DPT	0.290388	-0.20317	0.080946	0.383656	0.028432	0.133149	0.549457	0.003219	-0.20047	0.176568	0.020568	0.47367	0.090805	0.87977	0.55334	0.999558
DPYD	-0.01928	0.046681	-0.10495	0.545118	0.886793	0.732627	0.437187	1.16E-05	0.043094	0.207799	0.071157	0.283697	0.611935	0.917089	0.678853	0.971974
DPYS	0.116291	-0.06163	0.23635	-0.28806	0.388986	0.651845	0.07672	0.029789	0.142283	-0.42196	0.227735	-0.35786	0.827227	0.001745	0.93378	0.007307
DPYSL2	0.237442	-0.30287	0.033264	0.40234	0.078057	0.024602	0.807711	0.002112	0.461432	-0.18286	0.23431	0.129567	0.999376	0.111924	0.939336	0.804611
DPYSL3	-0.0199	0.025722	-0.09022	0.380594	0.884237	0.852126	0.508428	0.003808	0.119374	0.397169	0.12237	0.365674	0.785291	0.996862	0.788376	0.993774
AGRP	0.033454	-0.10597	0.219319	-0.20398	0.804875	0.436987	0.10118	0.128019	0.225174	-0.29465	0.099797	-0.27852	0.933783	0.023418	0.74288	0.030447
DR1	0.032003	0.385379	-0.3281	0.221491	0.81318	0.003356	0.012715	0.097761	-0.06036	0.67803	-0.22916	0.554424	0.345137	1	0.064987	0.999968
SLC26A3	0.046851	-0.07646	0.184372	-0.24475	0.729288	0.575419	0.169769	0.066525	-0.0518	-0.22772	-0.09445	-0.19554	0.366215	0.063997	0.268563	0.096402
DRD1	-0.08799	-0.25038	0.141219	-0.28304	0.515135	0.062714	0.294722	0.032893	-0.08024	-0.40107	0.094135	-0.31095	0.298032	0.002869	0.730748	0.017715
DRD2	0.12078	-0.31723	0.2515	-0.29495	0.370814	0.017205	0.059137	0.025927	-0.01073	-0.47452	0.121316	-0.49078	0.471793	0.000432	0.786359	0.000267
DRD3	0.073202	-0.23446	0.104632	-0.17418	0.588407	0.081976	0.438587	0.19503	0.064092	-0.43545	0.167391	-0.36284	0.663913	0.001245	0.864132	0.0066
DRD4	-0.03797	-0.13841	0.307484	-0.10103	0.779185	0.308995	0.019981	0.454579	0.15083	-0.45546	0.169045	-0.36252	0.841481	0.000735	0.866519	0.006644
DRD5	-0.0015	-0.15124	0.115989	-0.17171	0.991149	0.265849	0.390228	0.201554	0.058867	-0.43252	0.11285	-0.30391	0.651216	0.001341	0.769767	0.02002
DRG2	-0.07445	0.108452	-0.15871	-0.14004	0.582072	0.426248	0.238334	0.298805	-0.21103	0.40187	-0.17845	0.2697	0.079596	0.997183	0.120432	0.965054
JAG1	0.266726	0.212224	-0.17382	0.24834	0.044897	0.116354	0.195986	0.062507	0.03473	0.661513	-0.25625	0.46321	0.590619	1	0.04465	0.999406
ARID3A	0.140323	-0.19962	0.276974	-0.08332	0.297825	0.140215	0.036999	0.537773	0.172419	-0.26719	0.396444	-0.18437	0.874067	0.036319	0.996492	0.109984
DRP2	0.060524	-0.16886	0.136522	-0.30944	0.654708	0.213469	0.311234	0.019167	0.187765	-0.43857	0.212607	-0.47474	0.894275	0.001149	0.919567	0.000429
ATN1	0.18525	-0.19532	0.27482	-0.10448	0.167711	0.149128	0.038555	0.439273	0.166201	-0.17549	0.197613	-0.18717	0.865183	0.121696	0.903405	0.106465
DSC1	0.065876	-0.07653	0.084623	-0.34262	0.626357	0.57506	0.531406	0.009083	0.161803	-0.50842	0.230873	-0.41055	0.858655	0.000155	0.936477	0.002298
DSC2	0.04456	0.252424	-0.07865	-0.08618	0.744349	0.06299	0.56447	0.527684	-0.01274	0.432963	-0.31992	0.114802	0.466902	0.998514	0.017129	0.773653
DSC3	0.017751	0.440642	-0.30267	-0.04317	0.896683	0.00076	0.02337	0.752066	-0.0672	0.754917	-0.33174	0.420493	0.32861	1	0.012999	0.998191
DSCAM	0.00474	-0.17719	0.124116	-0.14892	0.972082	0.191406	0.357645	0.268919	0.065205	-0.39737	0.05722	-0.40354	0.666595	0.003124	0.645555	0.00271
RCAN1	0.211724	-0.15437	0.131764	0.129842	0.113867	0.255977	0.328556	0.335723	0.439106	-0.27885	0.026627	-0.26297	0.998867	0.030284	0.568919	0.038724
DSG1	-0.0041	-0.13009	0.042857	-0.27867	0.976101	0.343828	0.753808	0.037551	-0.27129	-0.33443	0.011251	-0.22106	0.035723	0.012372	0.528893	0.07224
DSG2	0.008479	0.40983	-0.31673	0.080903	0.950088	0.001708	0.016375	0.549673	-0.14966	0.734322	-0.19031	0.489485	0.16042	1	0.10525	0.999722
AGT	-0.05628	-0.08522	0.22035	-0.09985	0.677566	0.532308	0.099545	0.459899	0.186616	-0.4494	0.161957	-0.35067	0.892846	0.000865	0.856087	0.00844
DSG3	-0.04059	0.405351	-0.26579	-0.05729	0.766452	0.00214	0.047713	0.674944	-0.09549	0.705859	-0.27705	0.429833	0.26394	1	0.032702	0.998565
TSC22D3	0.151336	-0.39186	0.058607	0.171041	0.261125	0.00282	0.664985	0.203331	0.426505	-0.44849	0.213618	-0.41267	0.99844	0.000886	0.920581	0.002186
DSP	-0.06885	0.363098	-0.277	-0.14471	0.614139	0.006437	0.038753	0.287273	-0.18848	0.704136	-0.31817	0.340936	0.104848	1	0.016588	0.989793
EPYC	0.093628	-0.18416	0.275738	-0.2185	0.492489	0.178311	0.03969	0.105698	0.148307	-0.31087	0.314919	-0.33344	0.834542	0.018832	0.981333	0.0126
DSPP	-0.19598	-0.12799	0.084606	-0.30248	0.144011	0.347193	0.53149	0.022199	-0.04126	-0.38684	0.199447	-0.38062	0.392704	0.003957	0.905496	0.004534
SLC26A2	0.053233	0.221815	-0.11711	0.056877	0.694117	0.10038	0.385622	0.674314	0.24742	-0.05642	0.021853	-0.18519	0.95132	0.354785	0.556653	0.108954
DTNA	0.146412	-0.10616	0.177451	-0.19543	0.281593	0.440471	0.190744	0.148893	0.133286	-0.46449	0.207984	-0.38761	0.811398	0.000573	0.91481	0.00389
DTNB	-0.04878	0.112907	0.052535	0.097294	0.718613	0.40738	0.697935	0.471529	0.212712	0.067877	-0.05426	-0.09417	0.922092	0.673	0.361658	0.266806
HBEGF	0.154112	0.097196	-0.07237	0.040667	0.252376	0.476073	0.592689	0.763911	0.112157	0.36886	-0.09122	0.192149	0.770987	0.994174	0.2756	0.899607
DTX1	0.050451	-0.15101	0.148282	-0.19179	0.709375	0.266573	0.270983	0.152941	0.205753	-0.46936	0.155691	-0.42723	0.914938	0.0005	0.846435	0.001532
DTYMK	-0.00478	0.143025	0.092181	-0.05904	0.971837	0.292992	0.495249	0.662641	-0.06459	0.355731	0.02051	0.252251	0.336674	0.991762	0.552565	0.952707
ECM2	0.227421	-0.09888	0.022915	0.318073	0.091864	0.472601	0.866873	0.016896	0.279034	-0.01104	0.321881	0.167059	0.968288	0.471312	0.983444	0.863649
DUSP1	0.082317	-0.21715	-0.20557	-0.01903	0.542693	0.107928	0.125009	0.888291	0.21403	-0.17619	0.04513	-0.26794	0.923395	0.120742	0.615763	0.035903
DUSP2	0.073023	-0.31938	0.108698	0.005009	0.589322	0.016424	0.420901	0.970499	0.106504	-0.14549	0.008797	-0.1566	0.759432	0.167331	0.522867	0.149332
DUSP3	0.273262	0.069	0.17416	0.16962	0.039715	0.613343	0.195087	0.207166	0.180455	-0.13679	0.015449	0.05016	0.884951	0.182344	0.540116	0.629695
DUSP4	-0.08584	-0.3144	0.110539	-0.14471	0.529302	0.019402	0.417349	0.287288	0.074195	-0.07705	-0.13238	-0.23289	0.687949	0.305387	0.193002	0.059671
DUSP5	0.175515	0.054039	-0.04833	0.07642	0.191582	0.692429	0.7211	0.572073	0.077002	0.46398	-0.06574	0.15162	0.694497	0.999419	0.333948	0.842761
DUSP6	0.111991	-0.18317	-0.04073	0.313578	0.406882	0.176618	0.763576	0.017536	0.176003	0.1395	-0.04231	0.028314	0.879003	0.82242	0.391288	0.574088
DUSP7	0.041578	0.240609	-0.13492	0.157821	0.758778	0.074053	0.316993	0.241	0.094576	0.487983	-0.19014	0.313594	0.734079	0.999709	0.105455	0.98309

AGTR1	0.123875	-0.20796	0.186289	-0.26471	0.358586	0.12405	0.165299	0.046605	0.28236	-0.40991	0.277096	-0.28327	0.971365	0.002334	0.96732	0.028219
DUSP8	0.088969	-0.153	0.2028	-0.25932	0.510457	0.260251	0.130291	0.051426	0.320864	-0.50876	0.306252	-0.38722	0.985153	0.000153	0.979624	0.003924
DUSP9	-0.06182	-0.11427	0.182352	-0.10993	0.64778	0.401686	0.174577	0.415617	0.036989	-0.29586	0.0714	-0.31622	0.595312	0.024233	0.677445	0.017164
DUT	0.134957	0.086934	-0.1635	0.175132	0.316868	0.524067	0.224277	0.192567	0.184663	0.381626	-0.0929	0.327901	0.890385	0.995564	0.271929	0.986947
DVL1	0.011922	-0.09193	0.126443	-0.09045	0.929863	0.500421	0.348633	0.5034	0.010939	-0.06226	-0.03126	-0.11778	0.528758	0.340517	0.419228	0.217818
DVL2	-0.04639	-0.17764	0.042266	-0.05361	0.731867	0.190266	0.754912	0.692043	0.001244	0.076369	-0.02622	0.001409	0.503274	0.693024	0.432128	0.503707
DVL3	0.037086	0.106319	0.054276	0.044718	0.784174	0.435458	0.688426	0.741174	0.206877	0.195985	-0.05326	0.065729	0.916125	0.904114	0.364121	0.667855
DYRK1A	-0.09991	0.195898	-0.19435	0.154539	0.459657	0.147907	0.147443	0.25105	-0.07169	0.277692	-0.10514	0.194003	0.317949	0.969154	0.245932	0.901803
AGTR2	0.024999	-0.29591	0.117129	-0.0168	0.854888	0.028274	0.38995	0.902181	-0.11009	-0.29061	0.057721	-0.26951	0.233194	0.025038	0.646774	0.035048
TOR1A	0.001898	0.189674	-0.18541	0.32496	0.988822	0.161477	0.167342	0.013648	-0.00143	0.533402	-0.10746	0.495805	0.496273	0.999919	0.243751	0.999733
E2F1	-0.0624	-0.02696	0.085012	-0.22885	0.644706	0.843663	0.529517	0.086836	0.189716	-0.31852	0.221082	-0.22789	0.896671	0.015488	0.927781	0.063852
APLNR	0.228233	-0.25229	0.195603	0.109624	0.087717	0.060675	0.144792	0.416931	-0.03345	-0.10289	0.13039	0.104781	0.412677	0.248109	0.80337	0.755849
E2F2	-0.08975	0.101526	-0.09719	-0.19311	0.506752	0.456549	0.471995	0.150087	0.00955	0.159718	-0.0288	-0.01522	0.525114	0.85549	0.425512	0.460011
E2F3	-0.11712	0.342162	-0.23424	0.075853	0.385583	0.009846	0.079466	0.574937	0.044326	0.115428	0.092265	-0.07532	0.615049	0.777532	0.726681	0.309412
E2F4	-0.04876	0.199632	-0.0265	0.116861	0.721217	0.143944	0.846258	0.391042	-0.07462	0.365644	-0.26501	0.264168	0.311066	0.99377	0.03926	0.961971
E2F5	-0.15422	0.011242	-0.19063	0.057085	0.252031	0.934462	0.155501	0.673188	-0.20905	0.099183	-0.06991	0.183978	0.081618	0.744023	0.324083	0.889512
E2F6	-0.06008	0.125472	-0.15685	0.353305	0.657101	0.356833	0.243935	0.007021	0.084401	0.164344	-0.03894	0.201693	0.711468	0.862452	0.399765	0.910552
E4F1	-0.01104	-0.09553	0.172923	-0.05924	0.93505	0.483711	0.198328	0.661574	-0.02142	0.036473	-0.10833	-0.14714	0.443829	0.595084	0.239366	0.16458
EBF1	0.35145	-0.30727	0.301413	0.258752	0.007347	0.021246	0.022698	0.051956	0.465654	-0.34543	0.380262	-0.04347	0.999445	0.009355	0.995012	0.387115
GPR183	0.023214	-0.16019	-0.11807	0.450839	0.86515	0.242706	0.386135	0.000488	-0.18881	-0.09447	0.112845	0.078496	0.104441	0.266147	0.769758	0.697958
ECE1	-0.03236	0.225961	-0.08392	0.284822	0.812861	0.097154	0.538616	0.033368	-0.14372	0.476554	-0.17588	0.359477	0.170331	0.999593	0.123904	0.992929
AGXT	-0.09473	-0.06466	0.168312	-0.13207	0.483368	0.635916	0.210743	0.327412	0.136611	-0.35218	0.109318	-0.3351	0.817346	0.00819	0.762646	0.011408
TYMP	-0.23686	-0.31765	0.120345	0.053408	0.078816	0.018117	0.376975	0.695844	-0.13996	-0.24261	0.056259	-0.15775	0.176783	0.052132	0.643216	0.147546
ECH1	0.021548	0.232206	-0.25862	0.142574	0.874744	0.08802	0.054279	0.294534	-0.12923	0.598244	-0.16715	0.406439	0.196007	0.999994	0.136214	0.997467
ECHS1	-0.00024	0.080907	-0.09594	0.155866	0.998599	0.553336	0.477767	0.246953	-0.2624	0.56087	-0.28794	0.466005	0.039058	0.999975	0.027552	0.999451
ECM1	0.232594	0.119558	-0.02146	0.170738	0.081664	0.380125	0.874084	0.204145	-0.07532	0.487718	0.088258	0.301952	0.311447	0.999661	0.715559	0.978094
ECT2	-0.07563	0.435762	-0.25233	-0.0332	0.576062	0.000788	0.058281	0.806354	-0.17536	0.599457	-0.28558	0.393728	0.121873	0.999995	0.028611	0.996607
EDA	0.139235	-0.26011	0.245422	-0.23461	0.301627	0.052865	0.065754	0.07898	0.115808	-0.51497	0.196472	-0.464	0.778285	0.000125	0.902087	0.000581
ABCA1	-0.03655	0.377739	-0.29499	0.207392	0.787213	0.004103	0.025909	0.12163	0.16608	0.615315	-0.16883	0.371704	0.865006	0.999997	0.133795	0.994513
NROB1	-0.05051	0.104337	0.172799	-0.26033	0.709072	0.444113	0.198653	0.050491	-0.02936	-0.32531	-0.05937	-0.34183	0.423208	0.013692	0.349233	0.010034
S1PR1	0.219716	-0.12886	0.147775	0.412178	0.103722	0.348441	0.277089	0.001597	0.285439	-0.35123	0.202129	-0.11699	0.972753	0.008347	0.908498	0.219381
LPAR1	0.033601	0.178896	-0.12039	0.229502	0.804032	0.187099	0.372383	0.08592	0.39776	-0.00121	0.025603	0.052839	0.996904	0.496804	0.566293	0.636363
S1PR3	0.419232	-0.03717	0.346799	0.169743	0.0013	0.787604	0.008832	0.211048	0.424072	-0.31749	0.357694	-0.12526	0.998343	0.015777	0.992075	0.203419
EDN1	0.183113	-0.18132	0.24771	-0.05901	0.172756	0.181092	0.063197	0.662803	0.242626	-0.18619	0.130053	-0.18663	0.947883	0.107694	0.802753	0.107143
EDN2	-0.04515	-0.03625	0.204602	-0.15738	0.738755	0.790804	0.126839	0.242335	0.182243	-0.30304	0.048089	-0.35015	0.887282	0.020319	0.623123	0.008526
EDN3	0.062627	-0.15405	0.125896	-0.11509	0.643507	0.256961	0.350739	0.393953	0.140211	-0.31744	0.21112	-0.30263	0.820859	0.016802	0.915536	0.021658
EDNRA	0.299123	0.198303	0.068343	0.341013	0.025124	0.146687	0.616737	0.010113	0.174238	0.395584	-0.0155	0.489807	0.876588	0.996747	0.459752	0.999725
AHCY	-0.02468	0.171317	-0.15875	0.120316	0.855431	0.206784	0.238208	0.372668	-0.24039	0.535264	-0.40785	0.428067	0.053786	0.999937	0.00271	0.9985
EDNRB	0.360193	-0.19463	0.143799	0.192179	0.00592	0.150611	0.285897	0.152098	0.348266	-0.2854	0.239474	-0.04625	0.99115	0.027263	0.943447	0.380095
PHC2	0.04829	-0.29446	0.136585	-0.15665	0.72131	0.027597	0.311011	0.244541	0.083171	-0.24402	0.094845	-0.32584	0.708676	0.051096	0.732284	0.013557
EEF1A1	0.003246	0.34168	-0.24799	0.206341	0.98088	0.009957	0.062886	0.123573	0.151797	0.380877	-0.10201	0.277068	0.840232	0.995077	0.254981	0.967305
PLAC4	-0.09386	-0.04996	0.273996	0.075633	0.491428	0.717169	0.041009	0.579568	-0.10266	-0.14142	0.050194	0.089079	0.251085	0.177062	0.626869	0.719684
EEF1A2	-0.04861	-0.07918	0.165607	-0.25699	0.719542	0.561841	0.218276	0.053631	0.08837	-0.31983	0.047676	-0.39266	0.720391	0.015127	0.6221	0.003476
PGAM5	-0.11889	0.109195	-0.06899	-0.05428	0.378421	0.423067	0.610098	0.68841	0.007736	0.28953	-0.18566	0.018563	0.520347	0.974511	0.111038	0.548727
B3GNT6	-0.07191	0.251461	0.034259	-0.10842	0.595035	0.061556	0.800273	0.422084	0.159587	0.265343	-0.02746	0.08452	0.85529	0.962643	0.428947	0.711738
HIGD2A	0.074006	0.046137	-0.06988	0.081993	0.584307	0.735627	0.605477	0.54429	-0.22292	0.475809	-0.36702	0.271803	0.068226	0.999584	0.006569	0.966172
KRT24	-0.12408	0.1076	-0.18382	0.155047	0.366774	0.438666	0.179139	0.25835	-0.12792	0.592578	-0.20147	0.283439	0.198445	0.999993	0.092233	0.971858
CYS1	-0.06247	-0.29702	0.173958	-0.03427	0.644313	0.026216	0.195614	0.800188	0.130041	-0.37561	0.108348	-0.23202	0.805484	0.005051	0.76067	0.060382
EIF2C3	0.094161	0.198906	-0.08491	0.282934	0.485989	0.141661	0.530002	0.03296	0.258954	0.102642	-0.05158	0.174997	0.958873	0.751365	0.36826	0.877631
EIF2C4	-0.0366	0.122717	-0.13584	-0.09295	0.786949	0.367574	0.313676	0.491622	0.173536	-0.13136	0.1046	-0.23208	0.875619	0.192091	0.752953	0.060332

SCAMP5	-0.21607	-0.03342	0.06391	-0.16168	0.106466	0.806822	0.63671	0.229538	-0.25991	0.026326	-0.16031	0.062648	0.040548	0.568938	0.146412	0.660422
EEF1B2	-0.09904	-0.02293	0.042995	0.020641	0.46771	0.866771	0.753037	0.87998	-0.14631	0.000218	0.043452	0.086975	0.165961	0.500573	0.611571	0.717269
EEF1D	0.152842	0.023436	0.043368	0.201508	0.256355	0.863873	0.748726	0.13281	0.222005	0.236208	-0.19661	0.173245	0.928636	0.940872	0.100426	0.872458
EEF1G	-0.11615	0.331857	-0.15753	-0.06126	0.389585	0.012467	0.241874	0.650776	-0.23668	0.555082	-0.46338	0.251538	0.056632	0.999969	0.000674	0.954131
EEF2	0.142233	0.173867	-0.1691	0.143741	0.291232	0.200004	0.208583	0.286094	0.137923	0.471632	-0.2032	0.247121	0.819661	0.999531	0.090323	0.951111
LGTN	0.160086	0.108947	0.006261	-0.2794	0.234227	0.424128	0.963134	0.035309	0.045218	0.085504	-0.23497	-0.14673	0.617298	0.713962	0.060124	0.165258
EFNA1	-0.14531	0.098739	-0.12946	0.125836	0.280809	0.469067	0.337164	0.350969	-0.01655	0.467304	-0.21943	0.208493	0.456524	0.99947	0.073768	0.917809
EFNA2	0.086633	-0.21333	0.318098	-0.13957	0.521666	0.114415	0.015892	0.300443	0.20445	-0.45787	0.117975	-0.44907	0.911039	0.000782	0.777179	0.000986
EFNA3	-0.14222	0.035344	-0.17319	0.004607	0.291285	0.795942	0.197627	0.97287	-0.124	0.246092	-0.02887	0.082525	0.205812	0.950386	0.425349	0.707207
EFNA4	-0.20001	0.106317	-0.13926	0.164832	0.135774	0.435464	0.30154	0.220467	-0.03216	0.388295	-0.24268	0.331898	0.41599	0.996169	0.054107	0.987883
EFNA5	-0.00643	0.21708	0.09098	0.262808	0.962136	0.10804	0.500908	0.048261	0.007746	0.472774	-0.06462	0.348975	0.520373	0.999546	0.336603	0.991273
EFNB1	0.053784	0.157903	-0.19254	-0.04857	0.69381	0.249575	0.155128	0.722255	-0.01895	0.470294	-0.1232	0.354937	0.450256	0.999513	0.21004	0.992249
EFNB2	0.150419	-0.06383	-0.01883	0.234079	0.26406	0.640223	0.889416	0.07968	0.063455	0.304561	0.007438	0.224707	0.662374	0.980203	0.519337	0.93337
EFNB3	-0.14228	-0.15104	0.088886	-0.35802	0.291076	0.26648	0.510855	0.006249	-0.18793	-0.37781	-0.13995	-0.42117	0.105524	0.004818	0.179592	0.00178
EGF	0.189297	-0.23322	0.24778	0.015398	0.158456	0.083652	0.063119	0.909489	0.263831	-0.51277	0.238678	-0.36555	0.961776	0.000134	0.942828	0.006241
CELSR3	0.058506	-0.13886	0.287163	-0.16696	0.665525	0.307428	0.030323	0.214481	-0.03216	-0.22407	0.024571	-0.31502	0.415994	0.067193	0.563642	0.016487
CELSR2	-0.02142	0.275625	-0.05072	-0.16914	0.875468	0.041673	0.710473	0.212687	-0.09688	0.57533	-0.26169	0.314722	0.260914	0.999986	0.041243	0.983425
MEGF6	0.034298	-0.14153	0.15163	0.055128	0.800051	0.298105	0.260188	0.683792	0.115448	-0.14893	0.083547	-0.07522	0.777572	0.161621	0.707342	0.309657
MEGF8	-0.02948	-0.13235	0.057149	-0.09129	0.827686	0.33088	0.67284	0.499437	-0.06515	-0.07474	-0.01491	-0.12933	0.333527	0.310766	0.461286	0.195827
MEGF9	0.085749	0.253087	-0.13552	0.061225	0.525939	0.059839	0.31483	0.650965	0.017022	0.127343	0.020465	0.021521	0.544184	0.797748	0.55245	0.555796
EGFR	0.087052	0.210843	-0.16244	0.23827	0.519644	0.118804	0.227324	0.074286	0.039992	0.472279	-0.11028	0.315479	0.604064	0.99954	0.235407	0.983647
EGR1	0.158051	-0.0846	-0.16758	-0.03824	0.240307	0.535319	0.21277	0.777624	0.153034	0.190894	-0.04602	0.13027	0.845033	0.8981	0.382026	0.805905
SDR16C5	-0.21514	0.409053	-0.33725	0.046309	0.108021	0.001747	0.010305	0.732302	-0.18574	0.516627	-0.21649	0.221004	0.108254	0.999881	0.076593	0.930027
C9orf21	-0.10585	-0.07503	-0.08774	0.009173	0.43326	0.582581	0.516355	0.946005	-0.25176	0.083491	0.072856	0.109118	0.045724	0.709403	0.682824	0.764813
ZNF367	-0.00528	0.121679	0.004472	-0.01454	0.968884	0.371671	0.973662	0.91454	0.003695	0.281231	-0.02551	0.246011	0.509723	0.970842	0.433954	0.950329
EGR2	0.130648	-0.24678	0.027124	-0.0314	0.341736	0.072021	0.844163	0.819953	0.111177	-0.02737	0.162351	0.076516	0.766409	0.429184	0.853811	0.691313
ANTXR1	-0.16011	-0.15563	0.226616	-0.15876	0.234163	0.252055	0.090049	0.23819	-0.06049	-0.23565	0.180385	-0.1507	0.344829	0.057448	0.882142	0.15873
AHR	0.152451	0.277288	-0.1341	0.307391	0.262	0.038546	0.324449	0.021193	-0.01848	0.614397	-0.04454	0.578047	0.451499	0.999997	0.385708	0.999987
EGR3	0.132549	-0.20489	0.1645	-0.02298	0.334698	0.137217	0.230085	0.867751	0.253521	-0.08707	0.147211	-0.13093	0.953559	0.284762	0.829852	0.195647
PPAPDC1A	0.036398	-0.16576	0.282333	-0.18792	0.788083	0.222108	0.03335	0.161564	0.00499	-0.45227	0.122209	-0.26793	0.513128	0.000801	0.788069	0.035912
METT5D1	0.009345	0.089632	-0.03451	-0.23634	0.944995	0.511221	0.79884	0.07673	0.039278	0.127411	0.047934	-0.09047	0.602246	0.800612	0.622739	0.274946
EGR4	0.057067	-0.15275	0.272853	-0.22342	0.673281	0.26105	0.040024	0.094806	0.112021	-0.31705	0.177059	-0.34564	0.770711	0.0159	0.877696	0.009318
EHHADH	0.005366	0.077041	-0.18505	-0.23214	0.968398	0.572511	0.168173	0.082275	-0.26565	0.223295	-0.24336	0.15865	0.037184	0.932109	0.053604	0.853851
MPZL3	-0.0725	0.146658	-0.10857	-0.30228	0.59544	0.285316	0.425739	0.023558	-0.23795	0.160835	-0.2124	-0.0855	0.055643	0.857192	0.080637	0.28605
IMMP1L	0.185275	0.069197	-0.09956	-0.20807	0.167653	0.61233	0.461225	0.120385	0.172209	0.136002	0.191804	-0.1211	0.873773	0.816264	0.896563	0.211368
DCDC5	-0.12869	-0.14127	0.041215	-0.19914	0.340083	0.299001	0.76082	0.137512	-0.10687	-0.31195	0.104741	-0.25339	0.239808	0.017406	0.753246	0.044645
OR56B4	0.099624	0.034276	0.115381	-0.25043	0.465071	0.801978	0.397112	0.062669	0.017608	-0.44759	0.060891	-0.33933	0.546231	0.000908	0.654444	0.010526
KRT78	-0.06071	-0.00282	0.162633	-0.1805	0.656703	0.983721	0.231083	0.183099	-0.09181	0.111695	-0.0054	0.027936	0.274319	0.767451	0.486127	0.572273
RILPL2	-0.16436	-0.26451	0.159192	0.070869	0.221797	0.048835	0.236886	0.600382	-0.09976	-0.19194	0.030549	-0.14748	0.254735	0.100644	0.57895	0.164012
DNAH10	-0.1088	-0.21077	0.059361	-0.24708	0.420454	0.11894	0.660936	0.063896	-0.14682	-0.36517	0.094437	-0.29704	0.165106	0.006291	0.731402	0.022499
AMN1	0.003739	0.038933	-0.07383	-0.07722	0.977981	0.77573	0.585215	0.568026	-0.09823	-0.08125	0.08509	-0.03748	0.258011	0.295709	0.710808	0.402352
EIF1AX	0.128733	0.083018	-0.13453	0.26109	0.339904	0.542995	0.31842	0.049799	-0.06679	0.385505	-0.03612	0.257864	0.329591	0.995925	0.40688	0.958201
DTX3	-0.05211	-0.3684	0.183153	-0.20746	0.702906	0.00565	0.17665	0.124973	-0.04529	-0.40309	0.114618	-0.24161	0.382512	0.002738	0.773288	0.052869
METTL7B	0.104429	-0.18047	0.244623	-0.20644	0.43948	0.183173	0.066667	0.12338	0.015016	-0.25379	0.106608	-0.3052	0.539449	0.044383	0.757103	0.01958
ZFC3H1	-0.03783	0.203822	-0.12985	0.12489	0.779972	0.13188	0.335684	0.354632	0.107464	0.169224	-0.20574	0.191456	0.758862	0.866777	0.090152	0.896143
C12orf28	0.053471	-0.13482	0.249587	-0.34581	0.695506	0.326412	0.063583	0.00904	0.10819	-0.53098	0.109162	-0.45452	0.757739	0.000104	0.757042	0.000969
PLBD2	0.108205	-0.15785	0.126096	0.144901	0.423024	0.245289	0.349968	0.282183	0.12243	0.144756	-0.03204	0.148684	0.791192	0.831431	0.41725	0.837975
FAM71C	0.042438	0.110101	0.077671	-0.17727	0.756138	0.423585	0.569364	0.191195	0.108103	-0.22891	0.051182	-0.28608	0.76273	0.062979	0.63077	0.026964
C12orf12	0.060413	-0.15614	0.188382	-0.15858	0.655301	0.250504	0.160515	0.238703	0.066938	-0.45459	0.259915	-0.34561	0.670755	0.000752	0.957671	0.009324
FAM86A	-0.13499	-0.0536	0.122859	-0.18601	0.316761	0.694799	0.362574	0.165936	-0.25639	-0.15971	0.019705	-0.17196	0.042721	0.144522	0.551115	0.126581

EIF2S1	-0.01625	0.360299	-0.31397	0.223815	0.904516	0.006378	0.017388	0.094203	0.092694	0.516739	-0.15304	0.349734	0.729963	0.999882	0.157772	0.991403
C12orf53	0.121444	-0.14066	0.2137	-0.25946	0.368172	0.301122	0.110454	0.051294	0.245167	-0.46317	0.322575	-0.40136	0.949727	0.000595	0.984658	0.00285
DCP1B	-0.0568	-0.0361	-0.05743	-0.267	0.67474	0.79169	0.671326	0.044667	-0.16212	-0.19963	0.150505	-0.21086	0.14086	0.091743	0.83814	0.079769
ANO6	0.277713	0.030272	0.001224	0.178292	0.036477	0.824721	0.99279	0.184537	0.154707	0.133596	0.055038	0.198835	0.847694	0.811957	0.640235	0.907368
ARID2	-0.04243	0.375157	-0.33617	0.04183	0.753991	0.004386	0.010567	0.757361	-0.00773	0.450167	-0.13846	0.210464	0.479673	0.999153	0.182181	0.91983
C13orf39	-0.01441	-0.25685	0.263488	-0.19894	0.915248	0.056015	0.047662	0.137922	0.050041	-0.21667	0.207594	-0.33379	0.627955	0.076419	0.911838	0.012518
EIF2B1	0.121335	0.237029	-0.19539	0.345558	0.368604	0.078592	0.145229	0.00847	0.21002	0.536571	-0.09055	0.329779	0.919379	0.999939	0.277066	0.987394
C10orf72	0.352802	-0.1572	0.125238	0.250823	0.007108	0.247253	0.353281	0.059846	0.117683	-0.11127	0.329748	0.21632	0.781984	0.230815	0.986518	0.925622
PAOX	-0.14213	-0.04313	0.209991	-0.00826	0.296057	0.754563	0.120336	0.951797	-0.11389	0.099145	0.004013	0.031241	0.225524	0.743941	0.510436	0.581645
FAM24B	0.067116	0.179925	0.024652	-0.08794	0.61986	0.184534	0.855566	0.515403	0.22239	-0.11272	-0.02871	-0.21169	0.931292	0.227882	0.425754	0.07893
EIF2S3	0.013068	0.390349	-0.23585	0.235084	0.923138	0.002938	0.077362	0.07836	0.102408	0.573105	-0.05941	0.455989	0.75087	0.999984	0.349122	0.999276
ADCY4	0.218737	-0.14018	0.133684	0.276186	0.105309	0.307363	0.325975	0.039357	0.258646	-0.10681	0.146119	0.040425	0.958684	0.239943	0.830909	0.605165
EPHA2	-0.13412	0.162218	-0.20908	-0.12257	0.31991	0.232291	0.118555	0.363705	-0.20652	0.615036	-0.24666	0.300255	0.08425	0.999997	0.051188	0.978691
LOC196913	0.123653	0.043034	0.103044	0.106817	0.359458	0.752824	0.445603	0.429033	0.310709	-0.20017	0.050399	-0.2757	0.982209	0.091132	0.62884	0.031832
C15orf33	-0.04274	-0.08777	0.011925	-0.2903	0.752272	0.520062	0.929843	0.028485	-0.19409	-0.29933	0.038279	-0.20384	0.09809	0.021645	0.598571	0.087108
C15orf51	0.162347	-0.28495	0.071614	-0.14835	0.227602	0.033285	0.596546	0.270759	0.360514	-0.40208	0.244491	-0.27966	0.993077	0.002803	0.947235	0.029899
GRAMD2	0.002592	-0.41468	0.084404	-0.25405	0.984875	0.001645	0.536259	0.058838	0.137132	-0.58456	0.152883	-0.51934	0.818268	9.96E-06	0.841978	0.000109
AHSG	0.059599	-0.25792	0.148633	-0.31823	0.659657	0.054963	0.269837	0.015846	-0.03484	-0.35233	0.049856	-0.47037	0.409099	0.008166	0.627498	0.000486
LCTL	-0.05429	0.01909	0.263378	-0.09432	0.693821	0.89102	0.052034	0.493362	0.117927	-0.37238	0.263585	-0.27938	0.782463	0.005409	0.959899	0.030031
UBR1	0.024653	0.083222	-0.1717	0.141122	0.855562	0.542	0.201578	0.295055	-0.01096	0.142829	-0.01389	0.178243	0.471174	0.82816	0.463914	0.882022
PATL2	-0.25382	-0.25067	0.100062	0.295381	0.056762	0.062402	0.458951	0.025701	-0.29752	-0.40535	0.029984	-0.13004	0.022319	0.002598	0.577508	0.194526
TMEM148	-0.09346	-0.0577	0.222142	-0.20801	0.489248	0.672747	0.096754	0.120499	0.277361	-0.56667	0.286127	-0.39731	0.968992	2.02E-05	0.971638	0.003128
LDHD	-0.09367	-0.05005	0.104812	-0.24778	0.488256	0.714131	0.437795	0.06312	-0.05871	-0.22726	0.114635	-0.18673	0.349179	0.064395	0.773323	0.107012
FUK	-0.13135	-0.03396	0.08485	-0.27084	0.330102	0.80378	0.530303	0.041575	-0.04446	-0.23387	-0.10428	-0.23787	0.38462	0.05887	0.247719	0.055709
MLKL	0.031248	0.068337	-0.01005	0.492945	0.817513	0.616764	0.940833	9.79E-05	0.190822	0.173892	0.07219	0.116708	0.895374	0.873358	0.679276	0.777412
EIF4A1	-0.18841	0.275597	-0.34175	0.183047	0.168345	0.043687	0.010659	0.181005	-0.10437	0.546704	-0.3618	0.358316	0.245013	0.999958	0.007301	0.99276
ZNF778	-0.13132	0.101656	-0.12834	-0.01234	0.330205	0.455969	0.341373	0.927415	-0.19774	-0.16986	-0.12898	-0.24049	0.093877	0.129543	0.199213	0.05371
ACSF3	-0.09568	-0.25483	0.015877	-0.10725	0.478938	0.058037	0.906685	0.427148	-0.16343	-0.03679	0.007355	-0.02707	0.138908	0.404114	0.519122	0.429131
WDR90	-0.12123	-0.27081	0.014028	-0.29856	0.373455	0.045524	0.918268	0.025411	-0.34252	-0.1429	-0.11027	-0.21281	0.009901	0.171714	0.235416	0.077809
EME2	-0.05561	-0.20872	0.198827	-0.11181	0.681178	0.12265	0.138154	0.40766	0.134172	-0.35437	0.168301	-0.24273	0.812995	0.007839	0.865449	0.052043
NLRC3	-0.17744	-0.22354	0.175624	0.14879	0.186675	0.097699	0.1913	0.269325	-0.03307	-0.39577	0.144724	-0.14464	0.413634	0.003239	0.828569	0.168765
NSMCE1	-0.01768	-0.18674	-0.07263	-0.13921	0.896117	0.168189	0.591348	0.301708	-0.35235	0.021513	-0.25697	0.110935	0.008162	0.556425	0.044187	0.768514
EIF4A2	0.077835	0.176676	-0.19523	0.173254	0.564954	0.192719	0.145575	0.197456	0.024465	0.360175	-0.17452	0.343566	0.564106	0.993029	0.12578	0.990299
ZNF48	-0.10377	-0.0738	0.039006	-0.00167	0.442397	0.588823	0.773288	0.990182	0.039376	0.077167	-0.08605	-0.03111	0.602496	0.69488	0.287053	0.418704
EIF4B	0.245834	0.120742	-0.22476	-0.00298	0.065287	0.375391	0.092782	0.982475	0.201403	0.236671	-0.10398	0.195496	0.910233	0.943357	0.248336	0.903548
EIF4E	-0.07838	0.066059	-0.04706	-0.42374	0.562227	0.628582	0.728107	0.001021	0.002824	-0.11244	0.077371	-0.05181	0.507431	0.228452	0.693281	0.3662
EIF4EBP1	-0.06472	0.018877	0.108579	-0.07355	0.632434	0.890168	0.421412	0.586646	0.064343	-0.02872	-0.08967	-0.10719	0.664518	0.424856	0.279005	0.239141
EIF4EBP2	-0.02622	0.322884	-0.07545	-0.0989	0.846458	0.015218	0.576965	0.464202	0.201643	0.230658	0.013408	0.215713	0.910497	0.938491	0.534831	0.925036
EIF4G1	-0.01721	0.210579	-0.06298	0.104324	0.898905	0.119278	0.641607	0.439942	-0.06525	0.636201	-0.31473	0.457277	0.333295	0.999999	0.017616	0.999301
EIF4G2	-0.02944	0.370762	-0.30723	0.053354	0.827886	0.004909	0.02009	0.693455	-0.01643	0.558721	-0.17503	0.387689	0.456839	0.999973	0.125075	0.996117
EIF5	0.02917	0.271705	-0.2007	0.145068	0.831007	0.042798	0.138035	0.286081	-0.03637	0.438168	-0.16412	0.393805	0.405188	0.998839	0.140669	0.996613
C20orf201	-0.04769	-0.18526	0.290774	-0.10022	0.72462	0.171644	0.028213	0.45822	-0.01552	-0.44393	0.12465	-0.36211	0.459243	0.000999	0.792703	0.0067
AIF1	-0.07275	-0.31721	0.026381	0.380597	0.59072	0.017215	0.845554	0.003494	-0.17291	-0.30399	0.044033	-0.0788	0.125248	0.019992	0.613025	0.301347
ELA1	-0.10252	-0.21675	0.089463	-0.29818	0.452135	0.111956	0.512018	0.02561	0.167157	-0.32899	0.12149	-0.41456	0.863791	0.013668	0.783947	0.002318
ELA2	-0.02169	-0.11478	0.221534	-0.21717	0.872778	0.399598	0.097693	0.104649	0.103258	-0.42385	0.208799	-0.32801	0.75266	0.001666	0.915663	0.013027
SERPINB1	-0.23435	0.398511	-0.33197	0.186624	0.082129	0.002583	0.012435	0.168451	-0.164	0.659832	-0.322	0.376943	0.138058	1	0.015499	0.995092
DZIP1L	-0.09628	-0.22518	0.098914	-0.30877	0.4762	0.0952	0.464144	0.019441	-0.09639	-0.42091	0.107657	-0.32414	0.26199	0.001791	0.759256	0.013986
TTC21A	-0.12663	-0.1626	0.073784	-0.27801	0.34791	0.231181	0.585438	0.036268	-0.26197	-0.26154	0.05186	-0.19006	0.039314	0.039566	0.632442	0.102909
ELAVL2	0.094599	0.017005	0.141908	-0.19352	0.487991	0.901932	0.296816	0.152982	0.049601	-0.15953	0.091673	-0.16945	0.6283	0.1448	0.725387	0.130123
ELAVL1	0.137678	0.336317	-0.10473	0.023216	0.307115	0.011267	0.438133	0.863898	0.114005	0.362617	-0.05012	0.232328	0.774697	0.993369	0.371843	0.939873

ELAVL3	0.012393	-0.06666	0.307705	-0.18102	0.927101	0.625464	0.019888	0.177803	0.049408	-0.4051	0.201834	-0.31942	0.627818	0.002613	0.90817	0.015238
ELAVL4	-0.02742	-0.00198	0.160572	-0.2963	0.839549	0.988453	0.232794	0.025221	0.139012	-0.29539	0.053775	-0.35022	0.821569	0.023129	0.637144	0.008515
C1orf59	-0.11712	-0.22191	-0.06535	-0.21438	0.385577	0.100225	0.629142	0.109291	-0.03516	-0.48784	0.190772	-0.38338	0.408289	0.000292	0.895314	0.00427
ZNF627	-0.07887	0.001361	-0.08785	-0.28296	0.559786	0.992058	0.515793	0.032941	-0.36197	-0.03089	-0.11688	-0.11889	0.00672	0.419249	0.222251	0.215647
DAND5	0.136579	-0.20111	0.305421	-0.2115	0.311032	0.137208	0.020872	0.114251	0.16127	-0.24885	0.112384	-0.18396	0.857851	0.047687	0.768833	0.110515
ELF1	-0.06023	0.313382	-0.31484	0.16427	0.65628	0.018682	0.017065	0.222067	-0.11003	0.491458	-0.14866	0.361701	0.233326	0.999738	0.164872	0.993243
ZNF585A	-0.0974	0.004226	-0.18209	-0.09504	0.471034	0.975339	0.175203	0.481905	-0.15499	-0.05021	-0.12126	0.00132	0.151861	0.370167	0.21375	0.503473
NLRP7	0.013794	-0.09141	0.30674	0.012946	0.919631	0.506851	0.021482	0.924555	-0.15427	-0.26902	0.104438	-0.15632	0.153006	0.035313	0.752616	0.14976
GGN	0.048255	-0.14672	0.28442	-0.10268	0.721503	0.28056	0.032013	0.447228	0.189136	-0.43984	0.161301	-0.46486	0.895963	0.001112	0.855096	0.000567
CADM4	-0.06525	0.075674	-0.05383	0.005804	0.632785	0.58293	0.693544	0.966135	-0.16527	0.253604	-0.17224	0.023567	0.136179	0.955492	0.128943	0.561771
THAP8	0.069669	-0.0943	0.323463	-0.29302	0.6099	0.493459	0.015026	0.028402	0.125125	-0.39177	0.155159	-0.39059	0.796319	0.003545	0.845597	0.00364
U2AF1L4	-0.21708	0.003102	0.123096	0.156003	0.1048	0.981895	0.361642	0.246531	-0.0602	0.108207	-0.06422	-0.06829	0.345517	0.762945	0.337573	0.326014
ZNF626	0.066426	0.082283	-0.10517	0.059049	0.623468	0.546584	0.436217	0.662609	0.036807	0.071289	-0.12659	0.005059	0.595939	0.681109	0.203656	0.513308
FAM129C	-0.1506	-0.12949	0.10312	0.001155	0.2679	0.346058	0.449472	0.993259	0.096576	-0.4605	0.293289	-0.34444	0.738418	0.00064	0.974727	0.009538
ELF2	0.008422	0.173816	-0.18159	0.146931	0.950422	0.200137	0.176405	0.275423	0.197681	-0.07328	-0.07372	-0.09352	0.90606	0.31419	0.315173	0.268227
LCE4A	0.115836	0.056194	0.243249	-0.23073	0.390858	0.680809	0.068259	0.084204	0.002957	-0.37714	0.111988	-0.38143	0.507779	0.004888	0.768039	0.004455
ALG14	0.067665	0.242548	-0.04408	0.129499	0.620242	0.074389	0.747027	0.341483	-0.05821	0.397816	-0.12669	0.190558	0.350386	0.996908	0.203463	0.897694
FAM76A	-0.06584	-0.00514	-0.06391	-0.15089	0.629712	0.970287	0.639818	0.266972	-0.13296	-0.0569	0.030645	-0.06222	0.189187	0.353596	0.579194	0.340622
ELF3	-0.18375	0.077921	-0.12384	-0.02791	0.171239	0.568119	0.358716	0.836744	-0.31039	0.425086	-0.23435	0.167501	0.017891	0.998384	0.060629	0.867074
C1orf168	-0.04126	-0.15814	0.073601	-0.19401	0.760557	0.244393	0.58637	0.148152	-0.01583	-0.36158	0.135175	-0.35823	0.458427	0.006773	0.812013	0.007253
TMEM201	-0.0416	-0.06466	0.0791	-0.0651	0.758633	0.635904	0.558627	0.630459	0.032553	-0.15531	0.100985	-0.14606	0.585026	0.151361	0.74539	0.166384
TMEM61	-0.14042	-0.10236	0.138179	-0.19799	0.29748	0.452856	0.305343	0.13986	-0.02052	-0.32082	-0.06738	-0.38669	0.446167	0.014859	0.330047	0.00397
CYP4Z1	0.238388	0.044528	-0.10607	-0.10471	0.074139	0.744527	0.432284	0.438247	0.247089	-0.01254	0.083418	-0.11681	0.951088	0.467051	0.70705	0.219731
C1orf86	-0.08032	-0.08592	0.179584	-0.17058	0.552584	0.528951	0.181325	0.204558	0.080226	-0.3403	0.113249	-0.26702	0.701944	0.010333	0.770565	0.036412
A2M	0.345383	-0.09759	0.163687	0.455627	0.009132	0.478442	0.228031	0.000418	0.375705	-0.02085	0.208862	0.295134	0.99496	0.445296	0.915729	0.976771
ABCA2	-0.04609	-0.11091	0.128328	0.005032	0.733549	0.415797	0.341435	0.970368	-0.04753	-0.08078	0.188877	-0.07016	0.378255	0.298916	0.890255	0.323483
ELF4	-0.07673	0.020621	-0.15298	0.110279	0.57053	0.880093	0.255905	0.414134	-0.13261	0.278364	-0.07939	0.192022	0.189833	0.96948	0.302089	0.899455
CDCP2	-0.10905	-0.15952	0.067323	-0.15606	0.419405	0.24024	0.618777	0.246344	-0.03114	-0.26566	0.110011	-0.35308	0.418621	0.037177	0.764051	0.008045
SLC5A9	-0.08802	-0.17006	0.117504	-0.3401	0.514989	0.210172	0.384027	0.00964	0.111482	-0.43304	0.279836	-0.43017	0.769623	0.001324	0.968682	0.001423
CC2D1B	0.043432	-0.12496	0.137269	0.109415	0.748368	0.358819	0.308571	0.417826	0.137225	-0.19533	0.195922	-0.20658	0.815645	0.099247	0.898771	0.086676
NUDT17	0.005982	-0.09934	0.162287	-0.09383	0.964773	0.466354	0.227775	0.487508	0.153396	-0.2616	0.077457	-0.21739	0.845611	0.039529	0.69348	0.07335
TXLNA	-0.09954	0.198317	-0.25508	0.227541	0.461322	0.142869	0.055495	0.088709	-0.14906	0.564071	-0.20784	0.44592	0.161408	0.999978	0.085344	0.999052
LOC100133	0.157657	-0.16923	0.380813	0.038111	0.241497	0.212441	0.003474	0.778356	0.2242	-0.47795	0.359343	-0.30249	0.932919	0.000391	0.992331	0.020514
ELF5	0.102821	-0.29491	0.134522	-0.09004	0.450797	0.028833	0.322925	0.509302	0.054458	-0.17608	0.219131	-0.06888	0.638818	0.123635	0.923518	0.32649
TCTEX1D1	-0.14783	-0.11305	0.004443	-0.13524	0.272474	0.406782	0.973835	0.315853	-0.156	-0.32101	0.007926	-0.19477	0.150274	0.014806	0.520606	0.097294
PLD5	0.199576	-0.12308	0.311	-0.20885	0.140298	0.370659	0.019648	0.12242	0.188897	-0.3801	0.134891	-0.3648	0.89567	0.004585	0.811507	0.00634
C1orf100	-0.05373	-0.0294	0.202192	-0.27199	0.6914	0.829719	0.131471	0.04068	-0.19395	-0.34152	0.089219	-0.24073	0.098258	0.010092	0.719993	0.05353
SPAG17	-0.10265	-0.12564	0.053921	-0.23534	0.44735	0.356202	0.690358	0.078022	-0.08698	-0.30809	0.122985	-0.24397	0.282727	0.018623	0.789548	0.051134
SLFNL1	0.096384	-0.07667	0.338292	-0.19672	0.475708	0.574359	0.010058	0.142472	0.115161	-0.35138	0.038721	-0.38379	0.777002	0.008321	0.599687	0.004231
KRTCAP2	0.031657	0.025208	0.020097	0.243128	0.81684	0.855049	0.88312	0.070986	-0.05872	0.477779	-0.16819	0.229703	0.349132	0.999607	0.134717	0.937689
CRTC2	-0.03755	-0.01335	0.095001	0.120821	0.781554	0.922191	0.48209	0.370651	0.072192	0.074445	-0.01929	-0.07048	0.68324	0.688533	0.449956	0.320813
ELK1	-0.12647	0.098967	-0.05843	-0.0197	0.352975	0.468034	0.668857	0.885432	0.06696	-0.04913	0.120797	-0.09848	0.670808	0.372866	0.785362	0.257481
C1orf69	0.058679	0.051152	0.194982	0.048765	0.664597	0.708105	0.146096	0.718681	0.144245	0.178482	0.057771	0.075366	0.830568	0.88234	0.646894	0.690687
C20orf106	0.037177	-0.06142	0.230447	-0.15429	0.783659	0.652913	0.084601	0.251818	0.090378	-0.41838	0.151559	-0.25866	0.724856	0.001905	0.839849	0.041308
LOC200261	-0.27541	-0.15223	-0.02492	-0.11996	0.03812	0.262709	0.85404	0.374081	-0.36829	-0.16319	0.044176	-0.2011	0.006401	0.142058	0.612077	0.092651
C22orf37	-0.01769	-0.34939	0.19264	0.108267	0.896092	0.008306	0.151097	0.422756	0.078952	-0.39313	0.184271	-0.28325	0.69901	0.003439	0.887197	0.028227
RNF215	0.042267	-0.18564	0.225795	-0.17204	0.754907	0.17074	0.091251	0.200666	0.137769	-0.39333	0.202641	-0.31425	0.819391	0.003423	0.909063	0.016716
APOBEC3A	-0.00217	-0.08325	0.076628	-0.21261	0.987237	0.541844	0.571022	0.112325	0.071659	-0.19143	-0.02647	-0.16308	0.680029	0.103887	0.432278	0.142231
APOBEC3F	-0.07501	-0.04859	0.089844	0.016	0.579183	0.722099	0.506292	0.905968	-0.32221	0.250541	-0.0867	0.334771	0.014487	0.953462	0.285592	0.98852
FLJ23865	0.111091	-0.19086	0.342417	-0.29895	0.410684	0.158816	0.009127	0.023886	0.033668	-0.37581	0.141703	-0.30334	0.587891	0.005029	0.82343	0.020217

hCG_17324	-0.09491	-0.13545	0.052267	-0.22749	0.48251	0.319565	0.699404	0.08878	-0.12486	-0.30261	0.114901	-0.23771	0.204188	0.020471	0.773849	0.055833
ELK3	0.077127	0.058561	-0.12457	0.218323	0.568513	0.668131	0.355859	0.102778	-0.07778	0.32918	0.04891	0.461186	0.303694	0.987253	0.625158	0.999372
VWA3B	-0.1247	-0.18046	0.030504	-0.20194	0.355367	0.183214	0.821787	0.131966	-0.09533	-0.32258	0.123008	-0.26181	0.264283	0.014392	0.789593	0.039406
CREG2	0.011494	0.017294	0.143612	-0.17125	0.932376	0.89933	0.28653	0.202763	0.069274	-0.12285	0.098659	-0.13719	0.676329	0.208	0.740464	0.181627
ALMS1P	-0.2183	-0.16181	0.054195	-0.27853	0.102816	0.233488	0.688868	0.035905	-0.13079	-0.46935	0.165062	-0.36741	0.19315	0.0005	0.860721	0.006004
TET3	-0.2502	0.116674	-0.08475	-0.33105	0.062914	0.396267	0.53458	0.012697	-0.426	0.135961	-0.09962	-0.12542	0.00158	0.816193	0.257503	0.203131
ELK4	0.013365	0.362063	-0.00833	0.41413	0.921399	0.006106	0.950985	0.001363	0.233885	0.227076	-0.00492	0.229648	0.94114	0.935445	0.487217	0.937643
GKN2	-0.02934	-0.10675	0.004574	-0.32794	0.828498	0.433568	0.973065	0.012762	0.030986	-0.34687	0.070773	-0.48205	0.580989	0.009095	0.677951	0.000347
C2orf51	-0.08845	-0.12972	0.182854	-0.27345	0.512951	0.340654	0.173374	0.03957	0.127406	-0.3336	0.225869	-0.28726	0.800603	0.011736	0.932136	0.026451
ANKRD23	-0.1904	-0.27321	0.14966	-0.23072	0.159852	0.043567	0.270938	0.087124	-0.06892	-0.31714	-0.002	-0.29371	0.324525	0.015875	0.49481	0.023786
APLF	0.107708	-0.18151	0.051591	0.165457	0.425171	0.180624	0.703106	0.2187	0.248959	-0.41694	0.165465	-0.19497	0.950442	0.002191	0.858453	0.09967
PIP5K3	0.166867	0.181374	-0.05032	0.201703	0.214742	0.180965	0.71011	0.132428	0.257399	0.226264	0.076933	0.190317	0.957912	0.934739	0.692275	0.897402
ELN	0.286471	-0.24026	0.157454	0.13336	0.030742	0.074487	0.24211	0.322678	0.303548	-0.29942	0.247661	-0.08079	0.979855	0.021611	0.949526	0.296752
KRTCAP3	-0.03022	-0.08336	0.047931	-0.22668	0.825036	0.545152	0.725743	0.092951	-0.13884	0.300521	-0.18237	0.117078	0.17873	0.978787	0.115257	0.780794
TMEM17	-0.06676	0.065222	-0.11492	-0.1114	0.621732	0.632949	0.394645	0.409356	-0.36704	-0.04372	-0.09527	0.125634	0.006051	0.386469	0.266797	0.797279
SPRED2	0.3366	0.25851	0.016554	0.196244	0.011195	0.056694	0.90362	0.147178	0.283409	0.463101	-0.00223	0.370435	0.971844	0.999404	0.494187	0.994364
TIGD1	0.04035	0.397259	-0.13476	0.210894	0.767795	0.002672	0.322067	0.118713	0.1618	0.446387	-0.04437	0.23143	0.858651	0.999063	0.386126	0.939133
LOC200810	-0.22153	0.054699	-0.16393	-0.09621	0.097697	0.688863	0.22303	0.476528	-0.23344	0.161541	-0.02534	0.124973	0.061378	0.855459	0.435155	0.793312
C3orf67	-0.16649	0.117215	-0.12386	-0.33274	0.215804	0.389599	0.358644	0.011439	-0.39066	0.041983	-0.15247	0.038374	0.003635	0.60912	0.158689	0.599941
KCTD6	0.019927	0.160941	-0.10938	0.255196	0.883033	0.236036	0.417993	0.055383	0.177737	0.17165	-0.19581	-0.02616	0.878612	0.870225	0.101364	0.432283
LIPH	-0.14105	0.365804	-0.18999	-0.23867	0.295296	0.005563	0.156913	0.073782	-0.10002	0.253027	-0.15497	0.083188	0.256651	0.953229	0.157581	0.706533
ARL13B	-0.0565	-0.04161	-0.08168	-0.17988	0.676334	0.760765	0.545817	0.180583	-0.22211	-0.16662	0.033842	-0.11529	0.068965	0.134211	0.587334	0.222735
DHFRL1	-0.01354	0.078957	-0.02211	-0.13541	0.920388	0.562967	0.87034	0.315237	-0.10835	-0.06382	0.07739	-0.01469	0.236767	0.33675	0.693324	0.461397
EML1	-0.05831	-0.20278	0.068848	-0.20861	0.666603	0.133903	0.610834	0.119412	-0.16452	-0.3804	0.07142	-0.16162	0.137288	0.004556	0.679468	0.141617
HTR3D	-0.09691	-0.25555	0.16829	-0.14762	0.4774	0.059686	0.215038	0.277611	-0.07823	-0.46082	0.100693	-0.30367	0.302667	0.000635	0.744774	0.020104
RPL22L1	-0.09913	0.367689	-0.35348	0.22919	0.463179	0.005306	0.006991	0.086359	-0.14189	0.572036	-0.15936	0.489992	0.173447	0.999984	0.147869	0.999726
OSTalpha	-0.28054	0.318184	-0.23478	-0.1277	0.034536	0.016856	0.078753	0.343828	-0.41826	0.436637	-0.22212	0.253946	0.00191	0.998792	0.071254	0.955715
FBXO45	0.021753	0.262602	-0.17663	0.04523	0.873564	0.052755	0.192841	0.740643	0.033153	0.532248	-0.24849	0.232818	0.586568	0.99993	0.049888	0.940273
KLHDC8B	0.01463	-0.09694	0.064338	-0.01469	0.913984	0.477243	0.634449	0.913646	-0.14645	0.170657	-0.20102	0.221153	0.165725	0.87159	0.092737	0.930164
MUC20	-0.20881	0.059513	-0.15888	-0.25829	0.119037	0.663056	0.237804	0.052393	-0.35265	0.243033	-0.19001	0.15383	0.008751	0.946155	0.108344	0.843491
GABRR3	-0.09422	-0.07944	0.062174	-0.31351	0.489757	0.564238	0.648956	0.018633	-0.04765	-0.12174	0.121262	-0.11719	0.377958	0.212824	0.78351	0.221634
EMD	0.189555	-0.26937	0.146684	-0.09164	0.157878	0.044691	0.27624	0.497776	0.10092	-0.06286	0.144282	-0.19023	0.747723	0.33907	0.827823	0.102708
MARK2	-0.19359	0.322806	-0.08897	-0.11446	0.152829	0.016228	0.514338	0.400919	-0.28614	0.605154	-0.22251	0.342374	0.02694	0.999996	0.070899	0.990072
CCDC46	-0.03868	-0.17086	0.01182	-0.11423	0.775119	0.208022	0.930458	0.397497	0.044477	-0.41855	0.224641	-0.15109	0.615431	0.001897	0.931039	0.158101
DHRS7C	0.033988	-0.14543	0.112039	-0.24964	0.80182	0.284869	0.406677	0.061107	0.184756	-0.34757	0.264078	-0.22212	0.890502	0.008973	0.960191	0.06895
FAM18B2	0.017769	0.097608	0.079174	-0.08557	0.895625	0.474196	0.558259	0.526829	0.27663	-0.00537	0.063304	-0.18868	0.968632	0.485881	0.660241	0.104602
CENPV	-0.02858	-0.103	0.190011	-0.11993	0.832858	0.449984	0.156863	0.374216	0.130301	-0.26949	0.02195	-0.08705	0.805961	0.035058	0.556902	0.282558
FLCN	-0.04014	-0.17523	0.185113	-0.06857	0.766887	0.196447	0.168032	0.612268	-0.07824	-0.15632	0.07003	-0.20144	0.302646	0.149767	0.676206	0.089731
PLD6	-0.03379	-0.38801	0.154096	-0.21962	0.804717	0.003422	0.256824	0.103872	-0.03048	-0.4634	0.125667	-0.2825	0.420317	0.000591	0.794617	0.028571
SH3D20	-0.09545	0.062892	0.069744	-0.15586	0.484052	0.648276	0.609512	0.251341	-0.11949	-0.14007	0.0836	-0.05557	0.214483	0.176589	0.707461	0.356883
ARHGAP27	-0.10817	0.047025	-0.00123	-0.11267	0.423158	0.730727	0.992746	0.404006	-0.00142	-0.0211	-0.03393	-0.10699	0.496254	0.444658	0.412445	0.239558
ZNF385C	0.111388	-0.22274	0.210096	-0.27405	0.409427	0.098939	0.116738	0.039128	-0.01242	-0.29532	0.166733	-0.18946	0.467735	0.024449	0.860315	0.106296
SAMD14	0.029306	-0.01193	0.230182	-0.13598	0.828673	0.930484	0.08497	0.313185	0.117462	-0.27136	0.135803	-0.21786	0.78155	0.034063	0.81313	0.072908
EMP1	0.178244	0.204818	-0.06439	0.218475	0.188738	0.133604	0.637296	0.105738	0.137438	0.603315	-0.16519	0.403784	0.816019	0.999994	0.141959	0.997026
LOC201225	-0.14231	-0.09008	0.019163	-0.09278	0.29097	0.509084	0.887487	0.492435	-0.17198	0.148575	0.063047	0.122338	0.126554	0.837795	0.659625	0.791016
SLC16A13	-0.18547	0.172206	-0.12945	-0.24432	0.167204	0.204402	0.337181	0.067012	-0.36243	0.368188	-0.22801	0.174508	0.006657	0.994092	0.065981	0.87696
C17orf74	-0.09389	-0.21761	0.024878	-0.28409	0.48725	0.107161	0.854258	0.032223	0.127485	-0.43757	0.232172	-0.37783	0.80075	0.001179	0.937569	0.004816
STRA13	-0.03032	-0.15043	0.243775	-0.1179	0.822816	0.268452	0.067645	0.382416	0.1374	-0.09606	0.0597	-0.1929	0.81874	0.262687	0.651567	0.0995
LRRC45	-0.20949	-0.19403	0.063311	-0.32656	0.117824	0.151881	0.639878	0.013168	-0.29052	-0.27096	-0.09183	-0.33044	0.025075	0.034274	0.274263	0.012451
SLC39A11	0.003466	0.336959	-0.00707	0.09413	0.979585	0.011103	0.958375	0.486137	0.069209	0.487248	-0.14764	0.287544	0.674274	0.999656	0.169429	0.972272

FLJ32065	-0.02598	0.038697	-0.08449	-0.08405	0.847887	0.777057	0.532056	0.534196	-0.03883	-0.07269	-0.01396	-0.05114	0.398889	0.315597	0.46375	0.367852
TRIM65	0.02938	-0.18205	0.27144	0.002489	0.82825	0.179304	0.041107	0.985339	0.1519	-0.32389	0.221618	-0.19164	0.843211	0.014051	0.928278	0.100998
UNC13D	0.087851	-0.38897	0.194709	0.125502	0.515805	0.003049	0.146673	0.35226	0.022386	-0.34416	0.059708	-0.31867	0.558698	0.009589	0.651588	0.015446
RDM1	-0.0249	-0.05022	0.128197	-0.18196	0.854127	0.713205	0.341934	0.175517	0.140102	-0.27143	0.165883	-0.20698	0.823467	0.034026	0.86193	0.083766
EMP2	-0.1676	0.335557	-0.15845	0.129522	0.22129	0.013119	0.247928	0.345949	-0.21382	0.690362	-0.39151	0.410902	0.076812	1	0.003913	0.997721
SPNS3	-0.16516	-0.16138	0.177128	-0.10828	0.219543	0.234756	0.187466	0.422679	-0.02124	-0.28953	0.201536	-0.30624	0.444276	0.025487	0.90784	0.019233
EMP3	0.19905	-0.35028	0.152232	0.414783	0.137703	0.008131	0.258281	0.001337	0.05501	-0.09022	0.163434	0.15606	0.640167	0.27779	0.855436	0.847015
FBXO15	-0.12995	-0.12937	0.004709	-0.20895	0.335321	0.341968	0.972268	0.11879	-0.23856	-0.26873	-0.00528	-0.1874	0.055174	0.035471	0.486271	0.106172
RAB12	0.056487	0.249641	-0.1121	0.243617	0.676419	0.063524	0.406405	0.067829	0.017944	0.330346	-0.09041	0.265314	0.54711	0.987526	0.277377	0.962626
EMR1	-0.00158	-0.22447	0.122607	-0.13426	0.990709	0.096272	0.363566	0.319378	0.127488	-0.3946	0.128445	-0.26853	0.798018	0.003655	0.796994	0.037247
ZBTB7C	-0.15995	0.240815	-0.09836	-0.34601	0.238961	0.076548	0.470799	0.008997	-0.26201	0.524945	-0.22094	0.157909	0.039289	0.99991	0.072356	0.852706
ZNF584	-0.36522	-0.0547	-0.17278	-0.33045	0.005214	0.688856	0.198715	0.012055	-0.39466	-0.00684	-0.31293	-0.11061	0.003322	0.482008	0.018173	0.23215
ZSCAN4	-0.04975	-0.24146	0.032856	-0.20928	0.713258	0.073	0.808294	0.118207	-0.1423	-0.41525	0.025457	-0.24019	0.172737	0.002055	0.565918	0.053935
PTPLB	0.217091	0.128275	-0.24916	0.176873	0.104783	0.346106	0.061615	0.188112	0.056757	0.494412	-0.21358	0.384842	0.646041	0.999761	0.079459	0.995865
STT3B	0.135035	0.269113	-0.17879	0.343245	0.316585	0.044899	0.183288	0.00895	0.044781	0.523282	-0.19642	0.450596	0.616197	0.999905	0.097976	0.999162
EMX1	-0.13515	-0.08027	0.147458	-0.07983	0.320643	0.556475	0.278131	0.558631	0.097286	-0.32758	0.190254	-0.23334	0.73995	0.013131	0.894682	0.059301
PDE12	-0.09336	0.366377	-0.32709	0.349917	0.493755	0.00594	0.01387	0.008202	-0.07624	0.642682	-0.22016	0.431043	0.307283	0.999999	0.073085	0.998608
FAM116A	0.111058	0.266432	-0.17027	0.260957	0.410826	0.04716	0.20541	0.04992	0.17031	0.416364	-0.08245	0.370295	0.871099	0.998	0.295145	0.994347
TIGIT	0.042307	-0.14679	0.152831	0.489829	0.756869	0.284863	0.260796	0.000127	-0.07723	-0.11026	0.167233	0.087161	0.304971	0.232868	0.863902	0.717686
CTTN	-0.17172	0.327679	-0.12663	0.022449	0.205708	0.0146	0.35236	0.869556	-0.16133	0.642561	-0.29374	0.368488	0.142063	0.999999	0.025089	0.994129
C4orf46	-0.10681	0.018259	0.047691	-0.08451	0.429052	0.893746	0.724627	0.531956	0.007347	-0.12335	-0.02342	-0.18021	0.519325	0.207049	0.439313	0.115372
SLC10A4	-0.15613	-0.15056	0.175533	-0.156	0.246138	0.26803	0.191535	0.246544	-0.07091	-0.32348	0.022055	-0.22736	0.319786	0.014158	0.557172	0.064312
TIGD4	-0.14372	0.052433	0.09418	-0.28026	0.290623	0.703811	0.48993	0.036428	-0.19463	-0.32774	-0.04646	-0.22512	0.097459	0.013093	0.380918	0.066262
TMEM154	-0.16657	0.305977	-0.36226	-0.21707	0.219834	0.021826	0.006077	0.108056	-0.33848	0.26925	-0.17567	0.105549	0.010699	0.96481	0.124192	0.757449
EMX2	-0.00275	-0.02455	0.22607	-0.11585	0.983805	0.857476	0.090848	0.390813	-0.0145	-0.20239	0.109055	-0.12702	0.46191	0.088678	0.762111	0.200112
C4orf34	-0.06417	0.184236	-0.23077	-0.07529	0.635341	0.174061	0.084158	0.577795	-0.12383	0.214195	-0.15642	0.086905	0.206132	0.923557	0.152419	0.717113
EN1	-0.02294	-0.12074	0.246769	-0.11994	0.8655	0.375384	0.064239	0.374171	0.025046	-0.40538	0.144581	-0.18686	0.565616	0.002596	0.828328	0.106852
TMEM192	0.102237	0.220323	-0.16612	0.080155	0.449195	0.102747	0.21682	0.553378	0.145979	0.292233	-0.0081	0.244787	0.833485	0.975623	0.478948	0.949454
CCDC111	0.040352	0.042108	0.000719	0.017797	0.765687	0.757976	0.995765	0.895463	-0.02592	0.09553	-0.06595	0.167641	0.432106	0.736153	0.333447	0.867276
AIM1	0.001947	0.387169	-0.28293	0.143522	0.98864	0.003498	0.034612	0.291301	-0.14468	0.691707	-0.25541	0.448829	0.168705	1	0.045193	0.999122
EN2	-0.09332	-0.04348	0.19483	-0.27364	0.489932	0.75034	0.146417	0.039434	0.1707	-0.45168	0.116123	-0.4185	0.868881	0.000921	0.773566	0.002112
TAPT1	-0.0645	0.111588	-0.23196	-0.0145	0.633607	0.412915	0.082518	0.914756	-0.0611	0.048899	-0.08221	0.003542	0.343344	0.626545	0.295689	0.50932
FLJ39653	0.057923	-0.17185	0.317324	-0.12968	0.668663	0.205366	0.016164	0.33633	0.052113	-0.35745	0.013477	-0.32069	0.634561	0.007368	0.53501	0.014894
LOC202051	-0.16098	-0.26424	-0.03159	-0.49088	0.231584	0.049076	0.815575	0.000106	-0.09846	-0.35816	0.086289	-0.38384	0.257535	0.007262	0.71349	0.004227
DNAJC18	0.385339	-0.10367	0.159933	0.185338	0.003076	0.447044	0.234681	0.167506	0.322106	-0.23698	0.206853	0.013792	0.985484	0.056405	0.913616	0.536244
ENDOG	-0.14415	-0.14752	0.075432	-0.25482	0.284702	0.277933	0.577064	0.055756	-0.19727	-0.34964	-0.07565	-0.25736	0.094414	0.008614	0.310692	0.042114
RANBP3L	0.329495	-0.23363	0.254661	-0.17808	0.01232	0.0831	0.055914	0.18508	0.239074	-0.41609	0.108504	-0.43286	0.943136	0.002236	0.758375	0.00149
LOC202181	-0.11098	-0.02616	0.04545	-0.15346	0.411151	0.848249	0.737087	0.254423	0.332546	-0.22973	0.130888	-0.25249	0.987191	0.064495	0.801467	0.047129
ENG	0.215616	-0.23787	0.225855	0.449753	0.10722	0.077507	0.091163	0.000448	0.233678	0.031101	0.141773	0.224176	0.940973	0.581284	0.823551	0.932898
LOC202227	0.20641	0.250079	0.085195	0.013061	0.126939	0.065561	0.532431	0.923889	0.100271	0.285319	0.124259	0.076615	0.746344	0.972699	0.791965	0.693597
CCDC125	-0.10329	0.010935	-0.02361	-0.03663	0.444524	0.936246	0.861612	0.786763	-0.24651	0.071766	-0.05219	0.109748	0.049317	0.682234	0.366745	0.766099
C5orf27	0.078129	0.036214	0.210024	-0.16065	0.563484	0.791027	0.116867	0.232571	0.301369	-0.44687	0.218004	-0.42425	0.979091	0.000925	0.924873	0.001649
ENO1	0.0016	0.191384	-0.24627	0.433345	0.99066	0.161598	0.0673	0.000849	-0.09398	0.714585	-0.30053	0.511982	0.267221	1	0.022431	0.999862
GAPT	0.070498	-0.30048	0.241309	0.079154	0.609032	0.027267	0.075928	0.565671	-0.10753	-0.43399	0.280714	-0.00235	0.240997	0.001448	0.967536	0.493882
CMYA5	0.238534	0.22576	0.074815	-0.12318	0.073956	0.094327	0.580191	0.361326	0.345288	-0.09109	0.16904	-0.00097	0.990618	0.273577	0.866513	0.497446
STK32A	0.173238	-0.16795	0.128011	0.103618	0.197498	0.215991	0.34264	0.443062	0.01371	0.045951	-0.0311	-0.03951	0.535611	0.617809	0.420571	0.398326
OSTCL	0.077829	-0.09558	0.27307	-0.03547	0.564984	0.483473	0.03986	0.79334	0.178337	-0.09054	0.011855	0.011033	0.882147	0.274779	0.530805	0.529006
TCTE1	-0.19211	-0.20209	0.062367	-0.32553	0.152239	0.135262	0.644886	0.013474	-0.24086	-0.29975	0.023762	-0.25504	0.053429	0.021493	0.561565	0.043578
KHDRBS2	0.211902	0.026816	0.038389	0.296787	0.113555	0.844467	0.77678	0.024973	-0.07479	0.147021	-0.00173	0.365894	0.31065	0.835224	0.495497	0.993803
ENO2	-0.02199	-0.34247	0.0711	-0.12038	0.870997	0.009777	0.599191	0.372416	-0.17857	-0.3629	0.011747	-0.16356	0.117544	0.006593	0.530525	0.138714

ENO3	-0.0163	-0.09369	0.172133	-0.03388	0.904235	0.492185	0.200416	0.802412	0.044653	-0.3845	-0.0357	-0.27912	0.615874	0.004166	0.407953	0.030153
ENPEP	0.179836	-0.32378	0.090316	0.153733	0.184754	0.015891	0.507987	0.25796	0.096355	-0.02486	0.132614	0.177005	0.737941	0.434864	0.807415	0.88036
C7orf33	-0.12469	-0.20948	0.0357	-0.1492	0.355406	0.121268	0.792055	0.268002	0.065664	-0.31469	0.212042	-0.2852	0.667698	0.016585	0.918997	0.027353
ENSA	-0.20799	0.427318	-0.32803	0.033704	0.120531	0.001021	0.012736	0.803444	-0.01893	0.523831	-0.22266	0.323946	0.450317	0.999907	0.070762	0.985963
TMEM184/	-0.14435	0.158008	-0.06749	-0.22334	0.284027	0.244799	0.617927	0.094921	-0.18459	0.241361	-0.23005	-0.0467	0.109705	0.946945	0.064219	0.378958
AK1	-0.11273	-0.12561	0.041216	-0.30832	0.408102	0.360838	0.762956	0.020786	-0.19394	-0.43371	0.050231	-0.36168	0.098272	0.001301	0.628425	0.006761
SLC29A1	0.37007	-0.42929	0.345588	-0.00787	0.004605	0.000962	0.008464	0.953687	0.462689	-0.56629	0.326568	-0.41145	0.999397	2.05E-05	0.985718	0.00225
ADCK5	-0.19658	-0.09241	0.07032	-0.13321	0.142745	0.498156	0.603211	0.323242	0.011127	-0.27051	0.080162	-0.30108	0.529254	0.034511	0.699671	0.021014
TSNARE1	-0.00719	-0.16484	0.259447	-0.25263	0.957678	0.224727	0.051307	0.057967	-0.15316	-0.31305	0.006073	-0.30063	0.154767	0.017074	0.515791	0.021173
TUBB	0.0988	0.221913	-0.24922	0.416023	0.464662	0.100227	0.061558	0.001288	-0.05899	0.593687	-0.225	0.570082	0.348481	0.999993	0.068638	0.999982
R3HCC1	0.005623	-0.27365	0.134456	-0.22716	0.966885	0.041274	0.318682	0.089256	-0.05786	-0.18808	0.001497	-0.20148	0.351257	0.10533	0.503895	0.089686
UNQ9391	0.00586	-0.18273	0.175716	-0.38483	0.965494	0.17768	0.191065	0.003118	0.176721	-0.41916	0.121096	-0.50236	0.879977	0.001869	0.785935	0.000187
C8orf74	-0.06863	-0.11601	0.247026	-0.02326	0.615273	0.398974	0.066441	0.864877	0.008466	-0.42009	0.173868	-0.21861	0.522264	0.001827	0.873324	0.072201
HTRA4	0.040344	0.002552	0.259067	0.039638	0.765731	0.985106	0.051661	0.769717	0.225329	-0.23096	0.071093	-0.1807	0.933919	0.061256	0.678703	0.11473
ADAM32	0.051282	-0.30888	-0.00785	-0.12932	0.707397	0.021762	0.95423	0.342153	-0.12405	-0.37575	0.095153	0.081926	0.208429	0.005486	0.730525	0.70368
C8orf47	-0.21055	-0.28282	0.002276	-0.43246	0.115938	0.034684	0.986592	0.000781	-0.25692	-0.48197	0.027994	-0.36179	0.04239	0.000347	0.57242	0.006745
LGI3	-0.0574	-0.00027	0.020094	-0.35709	0.674325	0.998464	0.883136	0.0069	0.035421	-0.08452	-0.15351	-0.22007	0.59239	0.288267	0.157026	0.070837
C9orf91	0.032207	-0.24658	0.315883	0.181875	0.812011	0.066952	0.016681	0.175727	-0.07336	-0.08087	-0.00989	0.0041	0.314015	0.296579	0.474285	0.510787
C9orf72	-0.09128	-0.00721	-0.09294	-0.03778	0.499493	0.957968	0.491669	0.780259	-0.09168	-0.09006	0.082189	-0.1463	0.272274	0.275857	0.704275	0.165983
C9orf141	-0.06241	-0.19944	0.232664	-0.1782	0.644648	0.140567	0.08157	0.184775	0.0964	-0.50491	0.227729	-0.40554	0.738038	0.000173	0.933775	0.002587
C9orf93	-0.04163	0.072993	-0.08642	-0.21099	0.758474	0.592912	0.522704	0.115159	-0.00994	0.020335	0.044344	-0.07747	0.473852	0.553353	0.613801	0.30441
NAIF1	-0.04055	-0.05155	-0.08102	-0.04126	0.76457	0.705922	0.549071	0.760574	0.03352	-0.01135	0.06996	-0.06957	0.587511	0.470159	0.676043	0.322961
C9orf25	0.019267	-0.13178	0.309678	0.154714	0.887917	0.332972	0.020202	0.254897	0.194249	-0.37887	0.252809	-0.21901	0.902092	0.004709	0.953083	0.071826
CCDC107	-0.05251	-0.33114	0.211492	-0.04008	0.698096	0.01267	0.114272	0.767198	0.166944	-0.53129	0.176917	-0.35344	0.866266	7.26E-05	0.877503	0.007986
ANKS6	-0.02781	0.240759	0.108408	-0.21476	0.837293	0.073867	0.422147	0.108663	-0.2765	0.212113	-0.14908	0.25808	0.032984	0.919068	0.167063	0.956521
EP300	0.119637	0.2522	-0.20047	0.160669	0.375393	0.060771	0.134856	0.232506	0.05732	0.395609	-0.14329	0.243539	0.647424	0.996749	0.173861	0.948551
SUSD3	0.048713	-0.28266	0.292248	-0.09886	0.718968	0.034793	0.027388	0.464399	0.076649	-0.24179	0.219004	-0.17011	0.693677	0.052732	0.925827	0.129184
EPAS1	0.100305	0.155238	-0.07966	0.268301	0.457856	0.253272	0.555852	0.0436	-0.01317	0.345691	-0.04671	0.286336	0.465389	0.990692	0.380292	0.973146
CXorf61	0.070804	-0.20521	0.110851	-0.20843	0.604074	0.132848	0.416027	0.123176	0.07873	-0.352	0.195216	-0.38295	0.698498	0.00822	0.900622	0.00431
SLC25A43	-0.06175	0.132142	-0.0623	0.21158	0.648142	0.331637	0.645244	0.114118	0.030249	0.041825	-0.04048	-0.0331	0.579087	0.60872	0.395896	0.413556
ZCCHC5	0.384773	-0.24771	0.27014	-0.23815	0.003411	0.068237	0.044056	0.077148	0.233336	-0.42739	0.265269	-0.38332	0.940695	0.001526	0.96089	0.004275
NRK	0.140755	-0.08756	0.250132	-0.33664	0.3008	0.52497	0.062988	0.011184	0.209806	-0.28505	0.113992	-0.38879	0.914172	0.030363	0.766645	0.004551
EPB41	-0.03366	-0.03651	-0.18594	0.053314	0.80368	0.789373	0.16611	0.693672	0.010986	-0.08684	-0.05553	-0.04846	0.528549	0.285284	0.360161	0.375965
LOC20351C	-0.02668	-0.15411	0.037595	-0.2204	0.843847	0.256765	0.781282	0.099463	0.157406	-0.19289	0.073422	-0.23965	0.851927	0.099509	0.684145	0.054342
DDX26B	0.035335	-0.09539	-0.09188	0.24888	0.795989	0.488464	0.500636	0.064362	0.211995	-0.11582	0.112314	-0.02352	0.921375	0.221698	0.768695	0.43836
ZNF449	-0.0436	0.050085	0.013481	0.233795	0.747426	0.713936	0.920718	0.080057	0.178452	-0.11082	0.006949	-0.09391	0.8823	0.231712	0.518067	0.267366
VMA21	-0.08351	0.205002	-0.11442	0.048145	0.536828	0.12961	0.39672	0.722107	-0.24756	0.222129	-0.11316	0.163999	0.048582	0.931055	0.229609	0.86194
TMEM31	0.051022	-0.0156	0.162383	-0.11828	0.706231	0.909138	0.227497	0.380878	-0.09775	-0.30087	0.105473	-0.11401	0.261475	0.022307	0.752189	0.227919
PAGE2	0.068435	0.022982	-0.02854	-0.09012	0.616258	0.867727	0.834598	0.508893	0.222455	-0.28186	0.221054	-0.355	0.92905	0.03034	0.925349	0.008357
EPB41L1	-0.24373	0.295344	-0.19634	-0.33526	0.07027	0.028589	0.146974	0.011542	-0.35319	0.610204	-0.30998	0.303266	0.008026	0.999997	0.019121	0.979758
EPB41L2	0.338338	-0.10046	0.150262	0.337697	0.010757	0.465533	0.268992	0.010917	0.504808	-0.19434	0.280302	0.060873	0.999827	0.097804	0.968909	0.656112
EPB42	-0.08721	-0.17914	0.120546	-0.23389	0.518877	0.186496	0.371748	0.079925	0.069895	-0.54485	0.105743	-0.49799	0.67589	5.45E-05	0.752742	0.00025
ANO5	0.304113	-0.2009	0.047996	0.002132	0.021454	0.13763	0.722934	0.987442	0.296567	-0.28535	0.064381	-0.19572	0.977322	0.027289	0.662817	0.096193
EPB49	-0.04711	-0.25042	0.078517	-0.25233	0.72784	0.062671	0.561541	0.058277	-0.25534	-0.36113	-0.02226	-0.35365	0.045241	0.0074	0.442979	0.008581
AK2	-0.12847	0.396526	-0.128	0.329629	0.340885	0.002482	0.3427	0.012283	-0.05197	0.504458	-0.21152	0.360405	0.367286	0.999795	0.084048	0.992492
STOM	-0.01402	-0.11363	0.052169	0.431008	0.918316	0.408785	0.702571	0.000913	-0.01048	0.041006	0.108678	0.131369	0.472448	0.60664	0.761342	0.807917
EPHA1	-0.0419	0.213263	-0.03807	-0.11612	0.759144	0.117979	0.780569	0.394076	-0.13918	0.619191	-0.28153	0.307415	0.178131	0.999998	0.030499	0.981156
EPHA3	0.309755	-0.18985	0.182954	0.178209	0.019038	0.161083	0.173135	0.184744	0.272403	-0.30345	0.143363	-0.08512	0.966486	0.020179	0.826265	0.286905
LASS3	0.039318	0.18872	-0.20143	-0.10932	0.773574	0.167625	0.136583	0.422532	-0.12922	0.425866	-0.06441	0.252846	0.196034	0.998415	0.33711	0.954996
EPHA4	0.076126	0.402263	-0.33916	-0.01919	0.573554	0.002117	0.009854	0.887341	0.19732	0.449406	-0.04282	0.25958	0.905648	0.999135	0.390011	0.959255

EPHA5	0.236532	-0.32575	0.153968	-0.10579	0.079239	0.015226	0.257224	0.437746	0.034509	-0.39314	0.20602	-0.21143	0.590052	0.003438	0.912729	0.079189
PDILT	0.093538	-0.20177	0.236534	-0.23581	0.488895	0.135897	0.076484	0.077413	0.034898	-0.30481	0.274895	-0.31118	0.591049	0.019712	0.966191	0.017644
EPHA7	0.182507	0.008648	0.005912	-0.20641	0.174205	0.949561	0.965186	0.123437	0.119559	-0.02061	-0.04406	-0.02027	0.785649	0.445926	0.386911	0.446808
EPHA8	-0.02211	-0.00512	0.217831	-0.19328	0.870298	0.970151	0.103575	0.149727	0.118592	-0.34939	0.175419	-0.33213	0.783764	0.008656	0.875462	0.012064
EPHB1	0.179389	-0.15881	0.24721	0.011273	0.181808	0.24238	0.063748	0.933671	0.15298	-0.4544	0.102806	-0.21179	0.844946	0.000756	0.749216	0.078826
EPHB2	-0.00185	0.121509	-0.0174	0.016907	0.989101	0.372344	0.897763	0.900659	-0.0354	0.230762	0.046917	0.146166	0.407659	0.938577	0.620212	0.833798
NLRP11	0.102065	-0.15064	-0.00803	-0.2098	0.449964	0.267769	0.952737	0.117267	0.02187	-0.16944	0.154289	-0.32551	0.556697	0.132914	0.841339	0.014557
HIPK1	-0.08077	-0.08031	-0.05242	-0.11421	0.550342	0.55629	0.698549	0.397593	-0.20988	-0.03802	-6.41E-05	-0.04357	0.08076	0.400953	0.499833	0.386862
EPHB3	0.084322	-0.08526	0.100448	0.165054	0.532873	0.532099	0.457211	0.219839	0.202037	0.224174	-0.0066	0.110305	0.91093	0.932896	0.48285	0.767233
SLC44A5	-0.11032	0.007907	-0.13658	-0.21537	0.41394	0.953876	0.311024	0.107626	-0.19488	0.086994	-0.00465	-0.1787	0.099778	0.715062	0.488057	0.120096
AK3L1	-0.01778	-0.21644	0.190635	-0.16733	0.895585	0.109108	0.15548	0.21346	0.003173	-0.28928	0.114497	-0.19497	0.508349	0.025593	0.773049	0.09707
EPHB4	0.256115	-0.08796	0.088081	0.260441	0.05448	0.519185	0.514703	0.05039	0.214876	0.202914	-0.07526	0.287494	0.924223	0.911888	0.311597	0.973648
EPHB6	0.15729	0.081962	0.078251	-0.15597	0.242607	0.548156	0.562872	0.246618	-0.16226	0.262667	-0.17572	0.101283	0.143453	0.95935	0.126942	0.746018
FAM123C	-0.05907	-0.00444	0.097672	-0.2002	0.662519	0.974071	0.469801	0.135403	0.179643	-0.22339	0.297977	-0.21719	0.883882	0.067806	0.976597	0.073549
EPHX1	-0.04895	0.256623	-0.12941	-0.29085	0.720128	0.05859	0.341808	0.029655	-0.24815	0.001256	-0.02673	0.025819	0.05013	0.503267	0.431633	0.566848
NCRNA001	-0.05797	0.026843	-0.03666	-0.11459	0.671265	0.845757	0.788517	0.400388	0.23969	-0.18626	0.101884	-0.34989	0.945687	0.107605	0.747283	0.008571
EPHX2	-0.06407	0.000206	-0.23717	-0.08998	0.635878	0.998797	0.075671	0.505625	-0.24318	0.36479	-0.49464	0.241593	0.05171	0.993659	0.000276	0.947118
C2orf69	0.006199	0.244126	-0.22295	0.141191	0.963498	0.069799	0.09552	0.294817	0.113183	0.386613	-0.05359	0.300118	0.773049	0.996023	0.363321	0.978641
STX2	-0.10804	-0.18447	0.059858	-0.09477	0.42372	0.173513	0.658268	0.483159	-0.05264	-0.41558	0.103469	-0.21894	0.364134	0.002038	0.7506	0.071885
C3orf58	0.14011	0.113839	-0.16133	0.040425	0.298569	0.403492	0.230568	0.765272	0.089646	0.554209	-0.1175	0.382035	0.723232	0.999968	0.221035	0.995603
CLN8	-0.04245	0.272996	-0.21299	-0.07261	0.753891	0.041782	0.111672	0.591416	-0.23871	0.455392	-0.27017	0.093175	0.055064	0.999264	0.036335	0.731019
SENP5	0.072824	0.226895	-0.22036	0.245301	0.590341	0.092638	0.099524	0.065892	0.124158	0.36805	-0.23031	0.285411	0.794489	0.994075	0.063997	0.97274
EPO	-0.06075	-0.1503	0.179773	-0.02489	0.656462	0.268871	0.184911	0.855543	0.105131	-0.34272	0.171224	-0.27102	0.75658	0.009862	0.869624	0.034241
EPOR	0.023552	-0.05288	0.29737	-0.02495	0.861947	0.698715	0.024676	0.853853	0.062867	-0.28368	0.127686	-0.33054	0.660952	0.028032	0.798385	0.012429
KIAA2018	-0.01508	0.231658	-0.13609	-0.01353	0.911357	0.08581	0.312789	0.920456	0.026383	0.216035	0.01207	0.197124	0.569085	0.925348	0.531362	0.905424
EPRS	0.086255	0.223435	-0.18566	0.155719	0.52349	0.097858	0.166748	0.247403	-0.0749	0.430553	-0.18629	0.365945	0.310404	0.99859	0.110242	0.993809
TRIML2	-0.07074	-0.19465	0.119773	-0.20627	0.601045	0.150561	0.374845	0.123697	-0.00799	-0.27748	0.116383	-0.25196	0.47899	0.030951	0.776775	0.045587
EPS8	-0.05996	0.238165	-0.17272	0.015537	0.657703	0.077128	0.198857	0.908674	-0.10797	0.327118	-0.08078	0.177972	0.237547	0.986757	0.298926	0.881659
EPS15	0.036735	0.141132	-0.09684	0.229885	0.786169	0.299494	0.473605	0.085385	0.19716	0.115954	0.08853	0.118658	0.905465	0.778575	0.718471	0.783894
NR2F6	-0.1355	0.155127	-0.00717	-0.09149	0.314894	0.253617	0.957764	0.498501	-0.28474	0.475491	-0.16154	0.241534	0.027556	0.99958	0.144536	0.947074
LVRN	0.023651	-0.20895	0.077772	-0.41665	0.861371	0.122226	0.565273	0.001264	0.069832	-0.27194	0.165797	-0.3378	0.677654	0.033757	0.861804	0.010838
SLC36A1	-0.12009	0.328337	-0.09555	0.085631	0.37359	0.013491	0.479542	0.526509	-0.1005	0.335289	-0.15857	0.191717	0.253163	0.988632	0.149079	0.899089
ERBB2	-0.19895	0.167746	-0.12767	-0.13671	0.141575	0.220891	0.348387	0.315057	-0.28565	0.435934	-0.25991	0.186605	0.027155	0.998771	0.042333	0.892832
C6orf163	-0.09811	-0.10762	-0.0274	-0.12011	0.467809	0.429833	0.839665	0.373482	-0.0553	-0.27477	0.122458	-0.08416	0.357547	0.032296	0.788544	0.289071
ERBB3	-0.20386	0.274631	-0.19403	-0.07294	0.128248	0.040524	0.14811	0.589724	-0.1687	0.565188	-0.3054	0.179945	0.131197	0.999979	0.020673	0.88428
ERBB4	0.182943	-0.36674	0.242987	-0.24143	0.173162	0.005434	0.068566	0.070412	0.02942	-0.47182	0.093621	-0.35137	0.576945	0.000466	0.729633	0.008324
ERCC1	-0.22959	-0.11305	0.020795	-0.25399	0.0858	0.406769	0.877975	0.056587	-0.30899	-0.17422	0.067596	-0.17311	0.019449	0.126186	0.668572	0.127734
ERCC2	-0.10195	0.008359	-0.05862	0.054052	0.450477	0.951242	0.664903	0.689645	-0.19095	0.313236	-0.11661	0.158929	0.10183	0.982983	0.222786	0.85428
EREG	0.128296	-0.00689	0.056265	-0.17903	0.346024	0.960211	0.680427	0.186767	0.153106	-0.01795	0.041279	-0.09769	0.842335	0.453421	0.606123	0.261612
AKT1	-0.02676	0.021288	0.060167	0.041754	0.843341	0.876249	0.656616	0.757787	-0.04571	0.333441	-0.227	0.117087	0.381469	0.988228	0.066865	0.780811
EYA4	-0.09934	0.318627	-0.26406	-0.04012	0.46223	0.016695	0.047167	0.767001	-0.16176	0.440903	-0.16666	0.280331	0.141413	0.998918	0.136937	0.97042
ERCC3	-0.08777	0.105454	-0.20403	0.105991	0.516182	0.43922	0.127935	0.43263	-0.25273	0.410191	-0.25231	0.283001	0.045077	0.997682	0.047251	0.971658
ERCC4	-0.21572	-0.00648	-0.21159	-0.07552	0.107051	0.962186	0.114101	0.576605	-0.31945	0.029407	-0.06356	0.027938	0.016217	0.576035	0.340951	0.572277
ERCC5	-0.05062	0.250758	-0.23194	0.24513	0.708424	0.06231	0.082551	0.066086	-0.16892	0.464794	-0.30081	0.368114	0.130883	0.999432	0.02233	0.994083
ERCC6	-0.05377	0.331097	-0.25189	0.096838	0.691166	0.012682	0.058735	0.473622	-0.10387	0.405871	-0.08264	0.232466	0.246054	0.997433	0.29471	0.939986
ERF	-0.10345	-0.2157	0.113707	-0.15222	0.443823	0.11035	0.399684	0.258328	0.075551	-0.33137	0.042227	-0.2237	0.691118	0.012239	0.608503	0.067528
ERG	0.283739	-0.15002	0.01615	0.244728	0.034075	0.274282	0.905959	0.069092	0.46696	-0.21128	0.295208	0.017613	0.999465	0.079346	0.975507	0.546245
ERH	-0.05493	0.148901	-0.21933	-0.01424	0.684855	0.273403	0.101159	0.916293	-0.17679	0.373894	-0.20856	0.217165	0.122675	0.994298	0.087138	0.924065
AKT2	-0.01934	-0.09352	0.036752	-0.20175	0.886464	0.49297	0.786073	0.13233	-0.18624	-0.05621	-0.13339	-0.09386	0.107619	0.355296	0.191192	0.267489
ERN1	0.091656	-0.2156	0.234715	0.224465	0.497716	0.110517	0.078843	0.093226	0.248412	-0.1521	0.122911	-0.17696	0.950058	0.159283	0.786649	0.12244

ERV3	0.15571	0.176298	-0.0567	0.020863	0.24743	0.193688	0.675294	0.87758	-0.02414	0.196832	-0.17736	0.107199	0.436752	0.905089	0.121893	0.760868
FBL	0.096756	0.153974	-0.1833	0.151683	0.473997	0.257205	0.172309	0.260021	-0.06062	0.589723	-0.37621	0.422995	0.344507	0.999992	0.005433	0.998299
ESD	0.103454	-0.03028	-0.21105	0.231463	0.443787	0.824703	0.115048	0.083202	0.097721	0.199307	-0.11705	0.261545	0.740887	0.9079	0.22191	0.960436
ESR1	0.128861	-0.22338	0.206154	0.098444	0.343888	0.097943	0.127422	0.4704	0.29348	-0.19154	0.244709	-0.13043	0.976122	0.101117	0.947395	0.193803
ABCA3	0.114639	-0.23612	0.162915	-0.09895	0.395808	0.079779	0.225955	0.463974	0.06623	-0.21174	0.215801	-0.16184	0.667222	0.081315	0.92027	0.144083
ALAD	-0.02107	0.11552	-0.16252	-0.08349	0.876388	0.396538	0.227104	0.536936	-0.11186	0.402266	-0.15532	0.19076	0.229615	0.997209	0.154153	0.897938
ESR2	0.090116	-0.27728	0.222692	0.277431	0.505	0.038554	0.095909	0.036675	0.220596	-0.18703	0.121712	-0.17572	0.929651	0.106633	0.787117	0.121387
ESRRA	0.030671	-0.04957	0.153667	-0.1626	0.820827	0.716761	0.253766	0.22687	0.10153	-0.0442	-0.07774	-0.2862	0.749016	0.385265	0.305872	0.026912
ESRRB	-0.07632	-0.25617	0.173258	-0.21819	0.572577	0.056691	0.197446	0.102999	0.104913	-0.39921	0.123732	-0.30927	0.756124	0.002995	0.790968	0.018246
ESRRG	-0.12057	-0.24615	0.117625	-0.3559	0.371638	0.067444	0.383535	0.006587	-0.18253	-0.48829	-0.04931	-0.40392	0.112346	0.000288	0.373848	0.002686
ETF1	-0.06073	0.309327	-0.36678	0.182433	0.653592	0.020352	0.005012	0.174384	-0.00921	0.502006	-0.28741	0.343802	0.475785	0.999811	0.027786	0.990343
ETFA	0.029081	0.271804	-0.23744	0.2021	0.831516	0.044705	0.078054	0.135247	-0.02054	0.535274	-0.32492	0.358274	0.446108	0.999937	0.014711	0.992754
ETFB	-0.113	-0.016	-0.04738	-0.10867	0.402653	0.906827	0.726342	0.421033	-0.26702	0.289506	-0.19568	0.125192	0.036413	0.974501	0.098833	0.796447
ALAS1	-0.1335	0.281289	-0.15078	0.174895	0.326661	0.03749	0.267319	0.197316	-0.3599	0.424193	-0.18067	0.38225	0.007011	0.998348	0.117488	0.995624
ETFDH	0.124221	0.37214	-0.23751	0.071429	0.361685	0.005146	0.077968	0.600878	0.06592	0.573796	-0.18828	0.211275	0.668315	0.999985	0.107745	0.920652
ETS1	0.105998	-0.20745	0.034021	0.59745	0.432599	0.124998	0.801633	9.28E-07	0.266147	-0.16244	0.173187	0.195594	0.963097	0.140394	0.872378	0.903661
ETS2	0.23767	0.149017	-0.0835	0.290716	0.077764	0.273023	0.540653	0.029732	0.147622	0.490176	-0.16562	0.245907	0.836221	0.999728	0.138458	0.950254
ETV1	0.299803	-0.30245	0.262004	0.230534	0.024779	0.024809	0.051097	0.087384	0.231378	-0.04009	0.065836	0.093214	0.939089	0.395675	0.666285	0.731103
ETV2	-0.05956	-0.11032	0.227627	-0.18192	0.659862	0.418265	0.088586	0.175609	0.163642	-0.29721	0.090712	-0.21357	0.861411	0.022435	0.723282	0.077061
ETV3	0.157246	0.376834	-0.22454	0.042444	0.24274	0.0042	0.093109	0.753909	-0.02023	0.66546	-0.19436	0.368006	0.446926	1	0.100385	0.994069
ETV4	-0.00083	0.329608	-0.0771	-0.04465	0.995126	0.013113	0.568649	0.741537	-0.02873	0.416078	-0.19756	0.180242	0.424848	0.997986	0.096656	0.884671
ETV5	0.287345	-0.35658	0.274391	0.187607	0.030214	0.006986	0.038872	0.162275	0.110416	0.176639	0.056887	0.223685	0.76746	0.879865	0.644746	0.93246
ALAS2	-0.06557	-0.34253	0.041343	-0.28893	0.631134	0.010472	0.762247	0.030796	-0.17343	-0.44217	-0.06241	-0.37182	0.130117	0.001327	0.345478	0.006474
ETV6	-0.15008	-0.11187	0.008692	0.423706	0.265137	0.411721	0.948837	0.001023	-0.14668	0.445715	-0.12653	0.339912	0.165351	0.999046	0.203772	0.98959
EVC	0.36146	-0.06905	0.222137	0.066582	0.006198	0.616412	0.099876	0.625863	0.32108	-0.16197	0.21882	-0.03141	0.985211	0.14109	0.925652	0.417918
EVI1	-0.0686	0.247825	-0.19712	-0.0535	0.612131	0.065538	0.141637	0.69268	-0.03745	0.414156	-0.08337	0.336168	0.403526	0.99766	0.295288	0.98802
EVI2A	-0.13876	-0.2155	-0.14787	0.427065	0.303296	0.110696	0.272333	0.000923	-0.29431	-0.14735	-0.06694	0.013547	0.024856	0.167048	0.332975	0.53519
EVI2B	-0.09085	-0.30881	-0.08201	0.498851	0.501538	0.020573	0.544196	7.83E-05	-0.28009	-0.28448	0.01148	-0.01743	0.029694	0.027673	0.529831	0.454241
EVPL	0.009037	0.248676	0.030251	-0.24782	0.947296	0.067139	0.824842	0.065541	-0.21282	0.526627	-0.17542	0.270756	0.077803	0.999915	0.124537	0.965619
EVX1	0.021127	-0.16975	0.207611	-0.17715	0.876044	0.211038	0.121227	0.187412	0.062128	-0.34478	0.30409	-0.36139	0.65916	0.009476	0.978866	0.006801
ALB	0.186267	-0.28542	0.189605	-0.44797	0.165349	0.032983	0.157767	0.000475	0.015323	-0.46904	0.204595	-0.44849	0.540254	0.000504	0.911196	0.000886
EWSR1	-0.00389	0.173895	0.109459	-0.03128	0.977099	0.199929	0.417636	0.817302	0.006663	0.381573	0.016866	0.282097	0.517526	0.995559	0.543781	0.971244
EXT1	-0.00583	0.258709	-0.1128	0.257612	0.965678	0.054198	0.403478	0.053036	-0.16735	0.616871	-0.18206	0.537092	0.13315	0.999998	0.11566	0.999941
EXT2	0.196494	-0.05451	-0.17289	0.022865	0.146654	0.692668	0.202573	0.867156	-0.05933	0.392737	-0.20662	0.336218	0.347661	0.996531	0.086631	0.98883
EXTL1	0.018644	-0.09829	0.30021	-0.26878	0.891518	0.475288	0.024575	0.045174	0.149642	-0.33165	0.209239	-0.32694	0.836734	0.013021	0.913577	0.014187
EXTL2	0.05288	0.08444	-0.09097	-0.05279	0.696044	0.536082	0.500942	0.696529	0.01503	0.021412	-0.09611	0.02334	0.539485	0.55616	0.26499	0.561181
EXTL3	0.101159	-0.03102	0.015597	0.27931	0.454014	0.82046	0.908323	0.03537	0.059867	0.348056	-0.28411	0.201144	0.653658	0.991113	0.029286	0.909946
EYA1	-0.00283	0.190075	-0.12345	-0.08601	0.983306	0.160575	0.360258	0.524652	-0.13635	0.229412	-0.09837	0.16372	0.183125	0.937444	0.260154	0.861526
EYA2	-0.09962	0.31006	-0.18441	-0.03568	0.460925	0.020041	0.169688	0.792171	-0.23668	0.594922	-0.22666	0.330005	0.056636	0.999994	0.067162	0.987447
ALCAM	-0.08911	0.218407	-0.19345	-0.18963	0.509807	0.10585	0.149358	0.157715	-0.18182	0.180938	-0.06534	0.042678	0.113263	0.885584	0.334902	0.610881
EYA3	-0.08078	0.204923	-0.3399	0.172137	0.550285	0.129761	0.009685	0.200407	-0.07438	0.478288	-0.37266	0.230654	0.311623	0.999613	0.00585	0.938487
EZH1	0.122036	-0.16784	0.137177	0.065959	0.365822	0.216295	0.308898	0.625921	0.231849	-0.32016	0.22975	-0.24883	0.939479	0.015038	0.935522	0.047705
EZH2	-0.17569	0.370835	-0.27063	-0.09423	0.195256	0.005317	0.043657	0.489679	-0.18222	0.628865	-0.178	0.411896	0.112749	0.999999	0.121039	0.997774
F2	-0.07281	-0.1979	0.163314	-0.24682	0.5904	0.143732	0.224807	0.064183	0.030599	-0.39259	0.088727	-0.34793	0.579991	0.003481	0.718905	0.00891
F2R	0.179703	-0.02145	-0.01529	0.422048	0.185084	0.876449	0.910929	0.001196	0.029853	0.293176	0.184039	0.415685	0.578063	0.976001	0.886899	0.997967
ABCD1	0.012776	-0.29537	0.210497	-0.15699	0.92485	0.027099	0.116026	0.243509	-0.07562	-0.1564	0.140557	-0.02821	0.30872	0.14965	0.821457	0.426186
F2RL1	-0.17354	0.530724	-0.3464	-0.19013	0.196696	2.58E-05	0.0083	0.156591	-0.09605	0.555418	-0.17445	0.229125	0.262713	0.999969	0.125867	0.937201
F2RL2	0.16167	0.142606	0.106842	0.349158	0.229572	0.294424	0.428924	0.007767	-0.00028	0.210512	0.201504	0.426601	0.499271	0.919879	0.907805	0.998444
F3	0.234884	0.352923	-0.01008	0.183863	0.081415	0.007632	0.941219	0.174949	-0.03957	0.60253	-0.10357	0.361509	0.397	0.999995	0.249187	0.993216
F5	0.151697	-0.3169	0.132145	-0.16702	0.259975	0.017328	0.327149	0.214311	0.179067	-0.35271	0.171218	-0.3119	0.883119	0.008104	0.869616	0.017424

F7	0.072176	-0.16994	0.283763	-0.24717	0.597064	0.214832	0.034059	0.066281	-0.05591	-0.27977	0.118711	-0.21255	0.356054	0.029845	0.781327	0.078071
F8	0.105016	-0.21333	-0.03248	-0.08755	0.436898	0.114419	0.810455	0.517239	0.321365	-0.48625	0.291106	-0.30254	0.985288	0.000306	0.973816	0.020496
F9	0.072533	-0.05063	0.130136	-0.29593	0.59525	0.713541	0.339093	0.026796	-0.00736	-0.37345	0.014991	-0.36337	0.480645	0.005288	0.538931	0.006529
F10	0.043793	-0.24997	0.18292	-0.02953	0.746346	0.06317	0.173217	0.827415	0.082516	-0.40849	0.300929	-0.10981	0.707186	0.002413	0.977716	0.23378
ALDH1A1	0.027541	0.230133	-0.23083	-0.0934	0.838849	0.087952	0.084074	0.489515	-0.02197	0.106556	-0.06917	0.048386	0.443043	0.756996	0.327745	0.623861
F11	0.060812	-0.26183	0.344289	-0.36456	0.659184	0.055804	0.010056	0.006211	0.075595	-0.35379	0.242665	-0.26969	0.691221	0.007931	0.945879	0.034953
F12	-0.07573	-0.12708	0.137374	-0.20328	0.575532	0.350638	0.308197	0.12936	0.063746	-0.26674	0.134677	-0.27313	0.663077	0.036571	0.811123	0.033135
F13A1	0.261811	-0.45659	0.092815	0.3566	0.049148	0.000405	0.492274	0.006474	-0.09543	-0.15782	0.296795	0.262239	0.26646	0.150242	0.974789	0.959092
F13B	0.142127	-0.06351	0.169023	-0.17526	0.296064	0.645064	0.213018	0.196366	0.017318	-0.38703	0.12418	-0.22323	0.544949	0.004314	0.789047	0.070241
FAAH	-0.09963	0.065696	-0.03889	-0.08596	0.460921	0.630476	0.773957	0.524934	-0.13952	0.368887	-0.26845	0.103244	0.177543	0.994178	0.037293	0.75263
FABP4	0.215378	-0.31861	0.118349	-0.03358	0.107618	0.016702	0.380592	0.804164	0.339293	-0.4634	0.24583	-0.31446	0.989466	0.000591	0.948212	0.016652
FABP1	0.133505	-0.10257	0.144006	-0.23931	0.322147	0.451902	0.285196	0.072987	0.272398	-0.34303	0.148164	-0.3173	0.966484	0.009802	0.834306	0.015831
FABP2	-0.05519	-0.02187	0.045017	-0.40533	0.683478	0.872908	0.739504	0.001761	0.085032	-0.1956	0.048613	-0.22	0.710679	0.098929	0.622999	0.073235
ALDH2	0.093943	0.024784	-0.12893	0.227862	0.487005	0.856122	0.339174	0.088248	0.066947	0.425395	-0.1167	0.206784	0.670777	0.998397	0.222603	0.916027
FABP3	0.243397	-0.35221	0.222493	0.011437	0.068085	0.007764	0.096214	0.932706	0.23911	-0.37436	0.392429	-0.09019	0.943164	0.005646	0.99579	0.277856
FABP6	-0.18395	-0.42005	0.090816	-0.35466	0.170758	0.001269	0.501683	0.006791	-0.20502	-0.57886	0.045987	-0.40216	0.085845	1.25E-05	0.617899	0.002798
FABP7	0.063374	-0.04533	0.082846	-0.12154	0.642636	0.742429	0.543834	0.372233	0.080447	-0.35997	0.110487	-0.39523	0.702452	0.007	0.765016	0.003279
FANCA	-0.19338	0.160233	-0.01257	-0.01382	0.153287	0.242568	0.926721	0.919486	-0.24798	0.50865	-0.17243	0.295125	0.048293	0.999847	0.128681	0.976767
FANCC	0.278757	0.018027	0.013825	0.161209	0.037488	0.896069	0.919447	0.235246	0.141255	0.38401	-0.04886	0.22739	0.822661	0.995396	0.376385	0.933479
FANCD2	-0.16777	0.255211	-0.25678	0.178697	0.216488	0.060041	0.056084	0.187598	-0.3115	0.664713	-0.40316	0.468243	0.017547	1	0.003017	0.999484
FANCE	0.038556	0.166833	0.028362	-0.10996	0.77584	0.219095	0.834117	0.415508	-0.14959	0.314943	-0.24383	0.093416	0.160541	0.98349	0.053253	0.731546
ALDH3A1	-0.07596	0.470072	-0.21767	-0.1786	0.574406	0.000257	0.103841	0.183774	-0.02779	0.381731	-0.13932	0.099852	0.428093	0.995166	0.18354	0.742998
ACSL1	0.143182	-0.30331	0.040601	0.074999	0.287992	0.023063	0.76428	0.579259	0.143237	-0.4047	0.075607	-0.3526	0.828855	0.002638	0.689213	0.008122
ACSL3	-0.07414	0.181917	-0.06398	0.258065	0.58363	0.179639	0.636314	0.052605	-0.08227	0.435404	-0.10329	0.352203	0.293372	0.998754	0.249781	0.991813
ACSL4	0.109871	0.118312	-0.17477	0.468455	0.415875	0.385145	0.193507	0.000238	0.165984	0.343029	-0.01496	0.4012	0.864866	0.990197	0.461162	0.997139
FAH	0.004116	0.08177	-0.11768	-0.08958	0.975757	0.549095	0.383314	0.507533	-0.1499	0.166353	-0.23566	0.056729	0.160039	0.865405	0.059569	0.645971
PTK2B	-0.12235	-0.24552	0.031849	0.335189	0.364574	0.068171	0.814064	0.010811	-0.09456	0.083946	-0.07233	0.036947	0.265962	0.710437	0.318393	0.596298
BPTF	0.015057	0.169211	-0.14508	-0.04122	0.911483	0.212504	0.281568	0.760802	0.088436	0.160896	0.069533	0.124112	0.720538	0.857284	0.675038	0.794402
FANCB	0.16068	0.029655	0.166871	-0.02628	0.236806	0.829829	0.218988	0.847557	-0.0819	0.082398	0.131955	0.095965	0.294225	0.706917	0.806222	0.737097
FANCF	-0.11054	0.177124	-0.17767	0.058022	0.413035	0.191576	0.186101	0.668133	-0.20983	0.325831	-0.08369	0.189119	0.080812	0.986439	0.292331	0.895942
FANCG	-0.00397	0.15375	0.081551	0.054695	0.976647	0.257908	0.546466	0.686147	-0.23722	0.430073	-0.28159	0.181544	0.056211	0.998573	0.03047	0.886374
ALDH1B1	0.331909	-0.03265	0.100585	0.067658	0.011659	0.811217	0.456594	0.61703	0.319398	-0.24424	0.304937	-0.08887	0.984755	0.050942	0.979166	0.278484
FAP	0.147395	-0.12104	0.067635	0.22013	0.273892	0.374198	0.617151	0.099892	-0.12442	0.051247	0.140445	0.035407	0.207724	0.630931	0.818405	0.591307
FBLN1	0.262291	-0.15324	0.162437	0.446724	0.050834	0.264003	0.231653	0.000558	0.051656	0.343872	0.127381	0.485373	0.633423	0.990356	0.79782	0.999686
SAMD9L	-0.07271	-0.02691	0.104425	0.57884	0.594347	0.845367	0.443725	2.97E-06	-0.00526	0.036922	0.208691	0.307556	0.486312	0.595143	0.913001	0.98007
FAM123A	-0.04299	-0.08976	0.254218	-0.21209	0.750826	0.510629	0.056357	0.113221	0.175213	-0.39704	0.08341	-0.19028	0.877926	0.003147	0.707033	0.102641
ATAD3C	0.07859	0.00076	0.162367	-0.11574	0.561176	0.995566	0.227543	0.391245	-0.12303	-0.13899	-0.06259	-0.11151	0.207659	0.178464	0.341463	0.230327
FARSA	-0.04298	0.075804	-0.01134	0.149992	0.750905	0.578711	0.933284	0.265434	-0.0876	0.455499	-0.16224	0.300336	0.281337	0.999266	0.143483	0.97872
USP12	0.036078	-0.10786	0.141409	-0.16065	0.791796	0.433159	0.298537	0.236906	0.366363	-0.46972	0.289061	-0.35162	0.993863	0.000495	0.972938	0.008281
PLAC9	0.069956	-0.24368	0.300976	-0.09421	0.605093	0.070326	0.022906	0.485785	0.062391	-0.43314	0.165361	-0.27296	0.659798	0.00132	0.861162	0.033224
FASN	-0.06457	0.008266	0.010964	0.0009	0.633226	0.951788	0.935486	0.994696	0.031656	0.27358	-0.07107	0.056755	0.582714	0.967095	0.321351	0.646036
MTIF3	-0.01933	0.264354	-0.08502	0.102485	0.886536	0.048976	0.52947	0.448091	-0.04686	0.303197	-0.15233	0.178993	0.378556	0.979734	0.158907	0.883021
GSX1	-0.13898	-0.19831	0.132704	-0.20812	0.306993	0.142876	0.329565	0.123744	0.067761	-0.40212	0.340506	-0.40494	0.672723	0.002801	0.988954	0.002623
OR8U1	0.081254	-0.15726	0.133761	-0.35851	0.547935	0.247075	0.321214	0.006175	0.053433	-0.45381	0.218036	-0.40215	0.637835	0.000768	0.924903	0.002798
OR4C16	0.115794	-0.07514	0.081407	-0.22299	0.395411	0.585576	0.55088	0.098553	0.19074	-0.37434	0.134423	-0.29463	0.895275	0.005649	0.807835	0.024727
OR4C11	0.01761	-0.0875	0.133806	-0.18923	0.897503	0.525275	0.325531	0.162473	0.008194	-0.28784	0.17778	-0.29712	0.521302	0.027599	0.87586	0.023737
OR4S2	0.084733	-0.10663	0.120159	-0.32784	0.534665	0.438418	0.377719	0.01364	0.157901	-0.37743	0.168179	-0.3909	0.852694	0.004857	0.865273	0.003615
OR4C6	0.095392	-0.21504	0.271012	-0.22585	0.480283	0.11148	0.04144	0.09117	-0.03244	-0.39123	0.199651	-0.17949	0.415271	0.003589	0.905727	0.116319
OR5D14	0.196094	-0.26318	0.171505	-0.39306	0.143765	0.050025	0.20209	0.00249	0.177315	-0.30375	0.208792	-0.4044	0.880778	0.020076	0.915656	0.002656
OR5L1	0.056368	-0.04697	-0.00276	-0.1107	0.679875	0.733452	0.983884	0.416686	0.115693	-0.19648	0.092095	-0.06488	0.775416	0.097902	0.723935	0.335982

OR5D18	0.047117	-0.00582	0.0484	-0.31	0.727813	0.966036	0.720697	0.018937	-0.00771	-0.19955	0.050875	-0.20889	0.479728	0.091828	0.630014	0.08178
OR5AS1	0.019252	-0.03381	0.045612	-0.37986	0.886968	0.80463	0.736186	0.003563	-0.05441	-0.34528	0.060707	-0.26198	0.359751	0.009384	0.653999	0.039303
OR8K5	0.158013	-0.307	0.118693	-0.32194	0.244781	0.022619	0.383609	0.015537	0.179901	-0.31347	-0.05075	-0.25755	0.881502	0.018005	0.371765	0.043813
OR5T2	0.116504	0.066937	-0.06771	-0.26817	0.388114	0.62402	0.616755	0.043704	-0.03884	-0.24683	0.032523	-0.30253	0.398864	0.049097	0.58398	0.0205
OR8H1	0.202511	0.020901	0.054119	-0.37873	0.13085	0.878479	0.689279	0.003672	0.23096	-0.41965	0.265004	-0.41006	0.938742	0.001847	0.960735	0.002325
OR8K3	0.120519	-0.24508	0.019568	-0.22423	0.371857	0.06868	0.885127	0.093579	0.132194	-0.14838	0.153265	-0.19648	0.806656	0.165345	0.839709	0.097903
OR8J1	0.082303	-0.11653	0.09689	-0.03045	0.546489	0.396836	0.47747	0.823722	-0.09392	-0.10648	0.131201	-0.12824	0.267355	0.240612	0.804851	0.197849
OR5R1	0.177825	-0.23772	0.209113	-0.24243	0.189795	0.08053	0.121931	0.071831	-0.00648	-0.23171	0.207513	-0.12071	0.483149	0.062813	0.911752	0.21481
OR5M3	0.038355	-0.25501	-0.1068	-0.21798	0.776975	0.057854	0.429123	0.103326	0.01169	-0.36059	0.140696	-0.25821	0.53073	0.006913	0.821699	0.041584
OR5M8	0.039577	-0.19726	0.182598	-0.05722	0.770061	0.145054	0.173988	0.672477	0.021646	-0.21517	0.136132	-0.13651	0.556772	0.075486	0.813713	0.18284
OR5M11	0.210626	-0.01948	0.251235	-0.3872	0.119194	0.887734	0.061798	0.003197	0.242216	-0.26431	0.177664	-0.30349	0.94758	0.037945	0.878513	0.020166
OR5AR1	0.055072	-0.00144	0.048242	-0.1842	0.684093	0.99158	0.721572	0.170168	0.124317	-0.20401	0.130646	-0.19102	0.79479	0.08693	0.803839	0.101754
FAT1	0.068153	0.147926	-0.12049	0.287914	0.617719	0.281125	0.37639	0.031417	-0.097	0.699741	-0.22853	0.54565	0.260673	1	0.06553	0.999956
LRRC55	-0.01134	-0.09874	0.280275	-0.11036	0.933299	0.469053	0.034714	0.413775	-0.05052	-0.29372	0.10315	-0.33073	0.369402	0.023785	0.749933	0.012386
YPEL4	-0.23733	0.027577	0.199939	-0.1884	0.075471	0.840109	0.135918	0.160485	-0.21444	-0.3028	0.05661	-0.33082	0.076207	0.020404	0.64407	0.012363
MED19	0.058352	-0.08778	0.108828	-0.36322	0.666354	0.519998	0.420343	0.005486	-0.02158	-0.17676	0.199586	-0.11389	0.443389	0.119969	0.905654	0.225527
C7orf62	-0.00785	-0.20597	0.021918	-0.22885	0.9538	0.127767	0.871439	0.086844	-0.02801	-0.38936	0.141857	-0.15958	0.426694	0.003741	0.823696	0.144727
ZNF804B	0.010145	-0.168	0.226207	-0.23506	0.940293	0.215837	0.090646	0.078395	0.060167	-0.43556	0.110386	-0.27452	0.654391	0.001241	0.764812	0.032424
PSMAL	0.017198	-0.01597	0.079227	0.117125	0.89896	0.906988	0.557997	0.385572	0.035099	0.016587	0.178151	0.179373	0.591565	0.543562	0.879168	0.883524
FAT2	-0.02379	0.35285	-0.30097	0.108579	0.860559	0.007646	0.02291	0.421411	-0.09983	0.653793	-0.30555	0.481304	0.254585	1	0.02062	0.999646
C10orf107	-0.13063	-0.02766	0.013045	-0.13549	0.332756	0.839622	0.923276	0.314937	-0.16203	-0.18541	0.085701	-0.08821	0.140996	0.10867	0.712177	0.27996
TMEM26	-0.03767	-0.0915	0.098166	-0.05016	0.780842	0.502439	0.467546	0.710994	0.00864	-0.31965	0.018268	-0.18334	0.522723	0.015176	0.547406	0.111306
ZCCHC24	0.288468	-0.29929	0.380416	0.20388	0.029546	0.025038	0.003511	0.128214	0.400022	-0.36296	0.371481	-0.09318	0.997061	0.006584	0.994006	0.268976
C10orf63	-0.10171	-0.10878	-0.00136	-0.16667	0.451532	0.424852	0.992002	0.215295	-0.16601	-0.24363	0.099394	-0.13667	0.135096	0.051385	0.742026	0.182548
ARMC3	-0.09505	-0.15984	-0.00567	-0.16397	0.481856	0.239305	0.96663	0.222929	-0.18994	-0.23747	0.093814	-0.15686	0.103058	0.056019	0.730051	0.148918
UNC5B	-0.03212	0.235531	-0.11009	-0.15152	0.812504	0.080555	0.41492	0.260542	-0.13007	0.492865	-0.25705	0.234454	0.19447	0.999749	0.044136	0.941598
FAU	0.033268	0.06812	-0.0305	0.165445	0.805935	0.617886	0.821819	0.218733	-0.13774	0.308728	-0.31756	0.227576	0.180653	0.981582	0.016765	0.935877
STOX1	-0.11965	-0.03071	-0.06795	-0.2452	0.375358	0.822211	0.615525	0.066006	-0.15789	-0.26428	0.04654	-0.25221	0.147319	0.037962	0.619277	0.045423
C10orf35	-0.00944	-0.1046	0.234305	-0.17852	0.944448	0.442974	0.079381	0.18397	0.069468	-0.37008	0.056115	-0.25042	0.67679	0.005679	0.642864	0.046617
TYSND1	0.02011	0.181334	0.218789	-0.15681	0.883047	0.185192	0.105225	0.248431	-0.26355	0.22212	-0.14362	0.112301	0.038389	0.931048	0.173298	0.771277
ZNF25	0.199212	0.033698	0.118304	0.210122	0.137376	0.805251	0.380775	0.116691	0.273134	-0.05543	0.205293	0.03952	0.966865	0.357238	0.911949	0.602863
GJD4	0.082194	-0.19206	0.34441	-0.18767	0.54702	0.160094	0.009343	0.166034	0.092796	-0.40536	0.215947	-0.35233	0.730187	0.002597	0.922882	0.008166
CCNY	-0.24639	0.198562	-0.46891	-0.05551	0.064657	0.142366	0.000234	0.681734	-0.19813	0.204586	-0.11109	0.104159	0.093429	0.913694	0.233774	0.75455
RTKN2	0.071435	0.138203	-0.24879	-0.14948	0.600848	0.3143	0.064466	0.271511	-0.07286	0.584636	-0.16464	0.3512	0.317171	0.999988	0.13991	0.990998
C10orf27	0.063531	-0.10481	0.282146	-0.32265	0.638715	0.442033	0.033472	0.014372	0.065342	-0.48127	0.174243	-0.31831	0.666924	0.000355	0.873844	0.015546
C11orf45	0.153912	0.110844	0.08272	-0.27615	0.253001	0.416055	0.540714	0.037591	-0.06077	-0.01615	0.017916	-0.09976	0.34414	0.457585	0.546496	0.254744
HYLS1	-0.19055	0.189676	-0.21566	-0.06705	0.155675	0.161472	0.107144	0.62019	-0.3582	0.302963	-0.1516	0.126149	0.007258	0.979652	0.160085	0.798249
LOC100133	0.083465	0.018335	0.183309	-0.21136	0.537062	0.893305	0.172287	0.1145	0.252209	-0.186	-0.02471	-0.28185	0.954576	0.107921	0.435997	0.028869
TMEM218	-0.13786	0.043625	-0.05279	-0.08837	0.306464	0.749535	0.69652	0.513313	-0.1118	-0.05317	0.018886	-0.00921	0.232331	0.364334	0.548423	0.476055
SLC37A2	0.219723	0.046202	-0.00658	0.011324	0.103711	0.737663	0.961602	0.933986	0.169742	0.098123	0.007726	-0.05317	0.870292	0.741752	0.520086	0.362823
OR8B12	0.116944	-0.13464	0.170692	-0.37677	0.386314	0.322495	0.204268	0.003867	-0.04246	-0.29874	0.139621	-0.30945	0.389675	0.021863	0.819836	0.018187
OR8G5	0.03459	-0.17996	0.063528	-0.25001	0.798381	0.184455	0.638731	0.060712	-0.23135	-0.34451	0.120911	-0.12617	0.063118	0.01024	0.78284	0.204433
OR10G8	0.141831	-0.10352	0.135372	-0.20699	0.297083	0.451968	0.319848	0.125859	-0.07679	-0.29151	0.039861	-0.39014	0.30599	0.024672	0.602559	0.003677
OR10G9	-0.10435	-0.00168	0.061476	0.021562	0.444054	0.990298	0.652644	0.874667	0.246794	-0.02902	0.036276	-0.06255	0.950882	0.424085	0.593507	0.339821
OR10S1	-0.01587	-0.22771	0.057938	-0.17358	0.906729	0.091443	0.668585	0.196606	0.144076	-0.32339	0.185707	-0.30066	0.830281	0.014181	0.889026	0.021162
OR6T1	0.058525	-0.09144	0.218586	-0.20274	0.665422	0.502715	0.102353	0.130408	0.116118	-0.34142	0.073894	-0.24451	0.778899	0.010113	0.685241	0.050741
OR4D5	0.098362	-0.00718	0.188813	-0.20541	0.466654	0.958099	0.159542	0.125312	-0.01928	-0.21033	0.183426	-0.2862	0.44939	0.080301	0.88611	0.026912
TBCEL	0.028692	-0.12548	-0.06226	0.069658	0.832214	0.356802	0.645451	0.606635	0.108731	-0.33842	0.10011	-0.11621	0.76402	0.010711	0.743542	0.220928
FBLN2	0.345587	-0.2699	0.240764	0.295283	0.008464	0.044254	0.071216	0.025752	0.176295	-0.02615	0.09584	0.221975	0.8794	0.431531	0.734431	0.930916
TMEM136	0.094171	0.091177	-0.06429	0.001138	0.485943	0.503934	0.634697	0.9933	0.109161	-0.14881	-0.15573	-0.1174	0.764899	0.161825	0.153506	0.218575

MRPL21	0.015676	0.029674	0.004945	-0.13805	0.907859	0.828133	0.970879	0.305807	-0.2863	0.291531	-0.44427	0.209749	0.026869	0.975338	0.001117	0.919102
MRGPRF	0.385137	-0.18228	0.305479	0.099516	0.003093	0.17876	0.020846	0.461418	0.471215	-0.25702	0.316284	-0.11081	0.999526	0.042326	0.982856	0.23174
TPCN2	0.052375	0.021265	0.105995	0.104862	0.698807	0.876378	0.432613	0.437575	0.224574	0.016974	0.006413	-0.05443	0.930978	0.54406	0.516477	0.361254
SPATA19	0.081362	-0.28432	0.131288	-0.28108	0.547402	0.033695	0.330321	0.034173	0.187586	-0.47347	0.230984	-0.29552	0.894052	0.000445	0.936571	0.023078
OR6Q1	0.09494	-0.12975	0.247556	-0.2713	0.482373	0.34055	0.063366	0.041212	0.068444	-0.44718	0.231423	-0.39793	0.674352	0.000917	0.936942	0.003084
OR9I1	0.033925	-0.2599	0.110991	-0.21475	0.802179	0.053059	0.411111	0.108678	-0.02743	-0.46738	0.113803	-0.31268	0.428206	0.000529	0.771668	0.017186
OR9Q1	-0.13038	-0.06894	0.049691	-0.1882	0.338169	0.616993	0.71609	0.164826	-0.01648	-0.21878	0.071558	-0.23577	0.456716	0.07204	0.679792	0.057353
OR9Q2	0.086528	-0.04298	0.211795	-0.29525	0.522171	0.753121	0.113743	0.025767	0.101127	-0.52106	0.198649	-0.36083	0.748163	0.000102	0.904591	0.006878
OR1S2	0.054403	-0.27229	0.117734	-0.32422	0.687733	0.042334	0.383089	0.013877	0.121403	-0.37059	0.169475	-0.23174	0.786527	0.006106	0.864288	0.062791
OR1S1	0.193192	-0.05515	0.09473	-0.31554	0.153699	0.689202	0.48739	0.017841	0.158999	-0.31496	0.227396	-0.30071	0.85158	0.017545	0.931158	0.022363
OR10Q1	-0.07075	0.096234	0.117137	-0.12725	0.604326	0.480471	0.389919	0.350008	0.167937	-0.11924	0.094869	-0.07642	0.867704	0.214962	0.732335	0.306847
OR5B17	0.201119	-0.17941	0.108082	-0.26912	0.137193	0.189987	0.427839	0.044895	0.032679	-0.38864	0.116825	-0.26109	0.584377	0.004165	0.774938	0.041606
OR5B21	0.084685	0.053372	0.074395	-0.14474	0.534899	0.698757	0.585807	0.287196	-0.01877	-0.17666	0.308805	-0.18725	0.450728	0.120106	0.98049	0.106368
GLYATL2	0.123187	-0.25175	0.188941	0.332641	0.365729	0.063722	0.163133	0.012249	0.037066	-0.01566	0.109676	0.078869	0.596602	0.45886	0.763373	0.69882
MPEG1	-0.13582	-0.25596	-0.03885	0.56061	0.313745	0.056902	0.774154	5.75E-06	-0.31948	-0.02121	-0.02805	0.195048	0.015223	0.444364	0.42743	0.903027
OR5A2	0.124682	-0.08885	0.169594	-0.34017	0.359893	0.51889	0.211454	0.010313	0.127947	-0.3437	0.093851	-0.2293	0.801611	0.009676	0.730132	0.062652
OR5A1	-0.14712	-0.02522	0.074448	-0.21634	0.274809	0.853614	0.582057	0.106017	0.009474	-0.27864	0.202852	-0.24266	0.524912	0.030387	0.909294	0.052096
OR4D6	-0.04891	-0.13589	0.161547	-0.1281	0.722886	0.327183	0.238675	0.351316	-0.07195	-0.22529	0.03642	-0.09954	0.317331	0.066116	0.593873	0.255224
OR4D11	0.073493	-0.10073	0.222537	-0.33328	0.586922	0.460111	0.096146	0.011299	0.13143	-0.43023	0.126994	-0.45123	0.808028	0.001421	0.797098	0.000824
PATL1	-0.12693	0.386676	-0.24802	0.249238	0.346772	0.003242	0.062857	0.061534	0.004166	0.587923	-0.00867	0.457297	0.510961	0.999991	0.477461	0.999301
PLAC1L	-0.02889	-0.00176	-0.00137	-0.22873	0.831074	0.989718	0.991947	0.087011	-0.03236	-0.29376	-0.06391	-0.35013	0.415484	0.023766	0.338303	0.008531
MS4A15	0.091935	-0.05721	0.208973	-0.35699	0.496405	0.67534	0.11875	0.006411	0.192949	-0.24319	0.196063	-0.20667	0.900559	0.051703	0.901612	0.084089
ABCB7	-0.03709	0.292678	-0.36561	0.188673	0.78416	0.028598	0.005164	0.159858	-0.14106	0.508819	-0.21367	0.365604	0.174874	0.999847	0.079362	0.993765
ALDH1A3	-0.13875	0.2233	-0.13749	0.064526	0.303316	0.098067	0.307787	0.63346	-0.00524	0.371201	-0.23205	0.16313	0.486221	0.994454	0.062533	0.860647
FBN1	0.352136	-0.14493	0.23054	0.361541	0.007778	0.291094	0.087376	0.006186	0.364718	-0.01203	0.203331	0.282751	0.99365	0.468376	0.90982	0.971544
VWCE	0.024506	-0.17635	0.22057	-0.14857	0.856414	0.193542	0.099199	0.270043	-0.05389	-0.39776	0.20011	-0.31915	0.361034	0.003096	0.906245	0.015314
CYBASC3	-0.20559	-0.0227	-0.08982	0.041212	0.124979	0.868103	0.506424	0.760838	-0.37423	0.13507	-0.11164	0.120783	0.005201	0.814604	0.232657	0.788022
C11orf66	-0.19322	-0.30012	0.049942	-0.31111	0.149842	0.024618	0.712177	0.018494	-0.2696	-0.3573	-0.02204	-0.29662	0.034999	0.007391	0.442866	0.022658
GDPD4	0.054944	-0.17608	0.157144	-0.25765	0.687541	0.198473	0.247421	0.055228	0.161476	-0.45118	0.180327	-0.36799	0.855361	0.000933	0.879272	0.006441
C11orf82	-0.15417	0.089069	-0.09576	-0.16771	0.256594	0.517845	0.482622	0.21665	-0.13804	0.252649	-0.1779	-0.04109	0.180131	0.954867	0.121168	0.393145
CCDC83	0.141804	-0.04752	0.33679	-0.35392	0.292706	0.728023	0.010416	0.006915	0.028466	-0.48554	0.254333	-0.40051	0.573628	0.000361	0.952144	0.003203
ORAOV1	0.045389	0.252318	-0.03755	0.205616	0.737427	0.060646	0.781563	0.124925	-0.23578	0.300459	-0.22864	0.21563	0.057348	0.978765	0.065437	0.924956
C11orf76	0.054713	-0.13475	0.245734	-0.19863	0.686048	0.322107	0.0654	0.138555	0.166454	-0.38629	0.198622	-0.28984	0.862766	0.004384	0.901909	0.026725
LRTOMT	-0.16451	-0.08846	-0.00076	-0.23254	0.221384	0.516771	0.995536	0.081741	-0.20426	-0.2344	0.042395	-0.11025	0.086657	0.058445	0.608924	0.232886
LOC220077	-0.05254	-0.10942	0.15227	-0.01497	0.697917	0.422123	0.25816	0.911976	0.096656	-0.22669	0.174892	-0.23911	0.738591	0.064893	0.874739	0.054755
FLJ32682	-0.19351	-0.10615	0.039	-0.16299	0.149225	0.436208	0.773326	0.22575	-0.07704	-0.47268	0.016192	-0.40694	0.305419	0.000455	0.542038	0.002503
SPERT	0.104629	-0.28637	0.246861	-0.23477	0.442832	0.034038	0.066628	0.081571	-0.06904	-0.51141	0.270448	-0.32061	0.324234	0.00014	0.963817	0.014915
FBN2	0.103342	-0.17365	0.195998	-0.212	0.444282	0.200571	0.143965	0.113379	0.192603	-0.22143	0.197263	-0.01547	0.897525	0.071896	0.900338	0.459837
DLEU7	-0.05801	-0.21135	0.258155	-0.13314	0.66821	0.117903	0.05252	0.323495	0.229933	-0.4678	0.188227	-0.30089	0.937883	0.000522	0.892186	0.021079
FAM124A	0.166516	-0.24424	0.305888	0.137271	0.215724	0.069666	0.020667	0.308563	0.272448	-0.39377	0.191356	-0.19875	0.96651	0.00339	0.896023	0.092732
C18orf24	-0.06811	0.183557	0.096695	-0.03979	0.61796	0.179771	0.47836	0.770927	-0.25467	0.222073	0.043908	0.295528	0.045682	0.928699	0.611413	0.975635
CCDC11	-0.10296	-0.18049	0.057005	-0.26536	0.445982	0.183126	0.673617	0.046047	-0.1287	-0.34378	0.098337	-0.23811	0.196995	0.00966	0.739778	0.055524
DOK6	0.183195	-0.20424	0.174282	-0.1404	0.172559	0.131082	0.194768	0.297575	-0.01054	-0.38242	0.210515	-0.30562	0.472277	0.00436	0.917439	0.019438
EFEMP1	0.19742	-0.11397	-0.12221	-0.04578	0.141022	0.402928	0.365117	0.735222	0.041608	0.068726	0.045044	0.166545	0.60695	0.673135	0.614219	0.862899
ATOH7	-0.17749	-0.182	0.098613	-0.257	0.186541	0.179437	0.465515	0.053623	0.01955	-0.52526	0.022522	-0.48716	0.551304	8.91E-05	0.558373	0.000298
OTUD1	-0.04498	0.047314	-0.26666	-0.01479	0.739687	0.729134	0.044948	0.913054	-0.23942	-0.01909	-0.01234	-0.00378	0.054518	0.449902	0.467947	0.490058
HEPACAM	0.156901	-0.10601	0.2454	-0.2393	0.243788	0.436816	0.065779	0.073009	0.073932	-0.29011	0.131315	-0.33004	0.685329	0.026607	0.802241	0.01341
FBP1	0.167149	-0.10804	-0.06953	0.023238	0.213957	0.428013	0.607308	0.863766	0.104895	-0.03531	0.059369	-0.2006	0.756087	0.407889	0.650769	0.09066
OAF	-0.03734	0.057056	0.172847	0.024882	0.782719	0.676183	0.198527	0.854234	-0.00827	0.052964	0.035674	0.050795	0.478256	0.636673	0.591984	0.631279
TIGD3	-0.06673	-0.07076	0.219525	-0.1806	0.62186	0.604308	0.100851	0.17882	0.040287	-0.2641	0.006753	-0.23726	0.604813	0.038068	0.517558	0.056183

FAM181B	-0.09384	-0.13515	0.158584	-0.1911	0.487478	0.32065	0.238705	0.154444	0.128289	-0.48967	0.188891	-0.40912	0.802246	0.000276	0.893009	0.002378
CCDC89	-0.20498	0.030355	-0.1722	-0.36175	0.129647	0.825869	0.204407	0.006154	-0.38073	-0.07202	-0.13945	-0.11816	0.004524	0.317156	0.180469	0.217088
FCAR	0.145043	-0.18224	0.229928	-0.13691	0.281705	0.178844	0.085324	0.309839	0.024978	-0.39159	0.20309	-0.30871	0.565437	0.00356	0.909555	0.018424
LRR63	0.057929	-0.09284	0.239642	-0.34935	0.671506	0.500209	0.075258	0.008314	-0.10735	-0.35043	-0.03623	-0.25759	0.238831	0.00848	0.406611	0.041968
LOC220425	-0.10828	-0.03753	-0.00704	-0.16598	0.426992	0.785602	0.958932	0.221493	0.007864	-0.2032	-0.00267	-0.18589	0.520444	0.090328	0.493147	0.110748
RNF152	0.206377	-0.04958	0.113738	-0.01202	0.123505	0.716686	0.399554	0.929277	0.489412	0.046264	0.168546	-0.22051	0.999722	0.619934	0.865803	0.070429
FCER1A	-0.05683	0.183613	-0.14132	-0.06366	0.674562	0.175548	0.294371	0.638033	-0.50923	0.12069	-0.12972	0.22332	0.000151	0.787844	0.197853	0.932132
LOC220594	0.228821	0.108458	0.158799	-0.01006	0.086881	0.426223	0.238061	0.940818	0.322139	-0.27437	0.216	-0.37009	0.985493	0.032503	0.922934	0.005677
MS4A2	0.152689	-0.16169	-0.0003	0.298392	0.256835	0.233833	0.998213	0.024163	-0.29476	0.139815	-0.09286	0.521101	0.023373	0.822968	0.272026	0.999898
FCER1G	-0.1453	-0.30714	0.1036	0.44094	0.285297	0.022552	0.447352	0.00067	-0.22612	-0.22392	-0.09994	0.166501	0.067642	0.069616	0.259318	0.862835
FCER2	-0.0533	-0.21117	0.185122	-0.10745	0.693749	0.118219	0.16801	0.426281	0.085341	-0.43343	0.17752	-0.40296	0.713592	0.001311	0.878318	0.002747
ZNF438	0.238002	0.067185	0.047585	0.246841	0.074622	0.622733	0.725215	0.064159	0.16275	-0.05765	0.134889	0.040835	0.860078	0.351768	0.811502	0.606206
SLC16A9	-0.17054	0.498471	-0.37972	-0.12391	0.204683	9.24E-05	0.003577	0.358438	-0.16937	0.519175	-0.2604	0.191565	0.130239	0.999891	0.042031	0.898907
FAM13C	0.212233	-0.13552	0.16302	-0.05221	0.11298	0.319299	0.225653	0.699704	0.123655	-0.4217	0.200609	-0.18808	0.793533	0.001757	0.906805	0.105339
MARCH8	-0.04446	-0.03989	0.050054	0.210024	0.744905	0.772466	0.714102	0.120276	-0.05313	-0.20577	0.004283	-0.0072	0.364428	0.087539	0.511007	0.481271
C10orf25	0.089235	-0.25065	0.12607	-0.12467	0.509189	0.062431	0.350069	0.355469	0.100271	-0.37328	0.141805	-0.18702	0.746344	0.005308	0.823605	0.106648
HNRNPA3	0.191428	0.033592	-0.00648	0.263612	0.153735	0.805854	0.961857	0.047554	0.265828	0.20143	0.040848	0.219197	0.962918	0.910263	0.605042	0.928351
ZNF485	-0.00786	0.018518	-0.10898	-0.00962	0.953744	0.892247	0.41967	0.943376	-0.05517	-0.24931	-0.08789	-0.24687	0.357865	0.047372	0.282942	0.049067
ALDH3B1	-0.20398	-0.18625	0.021712	-0.32979	0.128026	0.169322	0.872635	0.012237	-0.24207	-0.2715	-0.02101	-0.24743	0.052529	0.033988	0.445526	0.048674
RASGEF1A	-0.05095	-0.07184	0.121123	-0.07579	0.706628	0.598779	0.369447	0.575258	-0.00497	-0.45104	0.09384	-0.28299	0.486936	0.000828	0.730108	0.028346
CCDC7	0.143049	-0.02127	0.015427	-0.03038	0.288445	0.876336	0.909317	0.822474	0.238053	-0.31665	0.131813	-0.11437	0.944433	0.016017	0.805964	0.224577
REEP3	0.030894	0.220405	-0.16598	0.15677	0.819543	0.102615	0.217225	0.244187	0.032474	0.34655	-0.13342	0.276639	0.584821	0.990847	0.191127	0.968637
JMJD1C	0.088763	-0.03031	-0.11584	0.188474	0.511442	0.824477	0.39086	0.160308	0.237461	0.109465	0.083811	0.111669	0.94187	0.762943	0.705707	0.767399
C10orf49	-0.0311	-0.1126	0.248416	-0.16112	0.820017	0.413083	0.064877	0.235522	0.140436	-0.33366	0.142141	-0.33953	0.821248	0.012549	0.821317	0.011251
C10orf111	-0.21248	-0.07373	-0.0568	-0.38926	0.115909	0.592667	0.677555	0.003025	-0.16777	-0.22831	0.002548	-0.22913	0.132532	0.063492	0.506628	0.062793
FAM171A1	0.177093	0.148804	0.181813	0.217934	0.187555	0.273717	0.175876	0.103408	0.13195	0.177266	0.216397	0.264374	0.808977	0.880711	0.923321	0.96209
SLC39A12	0.114724	-0.1385	0.235314	-0.18386	0.395452	0.308692	0.078059	0.170984	0.10871	-0.34438	0.229611	-0.37263	0.763976	0.009549	0.935403	0.005381
NSUN6	-0.0477	0.139977	-0.03055	-0.0768	0.724595	0.303506	0.821542	0.570168	0.025275	0.076882	-0.03334	-0.00746	0.566211	0.694217	0.413951	0.480376
ARL5B	0.047348	0.444786	-0.27375	0.238072	0.726528	0.000594	0.039349	0.074534	0.214586	0.602793	-0.0541	0.319854	0.923941	0.999995	0.362066	0.98488
LRRN4CL	0.147974	-0.24948	0.355519	0.032498	0.276433	0.066225	0.007168	0.812057	0.205227	-0.35143	0.427522	-0.17171	0.91438	0.008313	0.998301	0.126924
HNRNPUL2	0.091745	0.122729	-0.24855	0.167134	0.497298	0.367527	0.062283	0.214001	-0.12876	0.561657	-0.18332	0.338475	0.196881	0.999976	0.114025	0.9893
ALKBH3	-0.02758	0.175975	-0.27117	-0.03044	0.838623	0.19452	0.041313	0.822138	-0.17809	0.315547	-0.12627	0.252355	0.118184	0.983667	0.204254	0.954673
N6AMT2	-0.17637	0.063428	-0.15348	-0.16751	0.189382	0.642352	0.254365	0.212946	-0.09197	-0.00818	-0.0045	0.006554	0.271635	0.478489	0.488295	0.517241
C13orf3	-0.14802	0.076883	-0.19845	-0.27045	0.276283	0.576905	0.142601	0.043805	-0.08178	0.237193	0.06348	0.142965	0.296644	0.941658	0.658867	0.825588
EFHA1	-0.04829	0.21922	-0.29652	0.119534	0.721302	0.104523	0.025111	0.375805	-0.1492	0.45081	-0.27232	0.357122	0.161177	0.999167	0.035166	0.992583
SPATA13	-0.27275	0.024874	-0.12226	-0.20062	0.041976	0.856947	0.369391	0.138183	-0.33463	-0.18366	-0.08384	-0.21171	0.011511	0.110891	0.29199	0.078909
CPNE2	-0.13452	0.179534	-0.13792	0.057134	0.318442	0.185505	0.306267	0.672923	-0.3548	0.485443	-0.12892	0.46685	0.007773	0.999686	0.199338	0.999463
GPR114	0.026319	-0.15976	0.176759	0.273089	0.845912	0.23953	0.188404	0.039845	-0.05203	-0.14709	0.152209	-0.09334	0.365648	0.164657	0.840897	0.268618
KLKBL4	-0.11056	-0.11006	0.292659	-0.31045	0.412943	0.419388	0.027162	0.018756	-0.0367	-0.40963	0.222542	-0.37524	0.404347	0.002349	0.92913	0.005091
FCGR2A	-0.13777	-0.5145	0.074967	0.287342	0.306792	4.98E-05	0.579423	0.030215	-0.30598	-0.26289	-0.16279	-0.09536	0.020471	0.040518	0.145533	0.266615
CES7	-0.04757	-0.08448	0.160097	-0.27037	0.725276	0.535897	0.234197	0.041941	0.074616	-0.38647	0.15471	-0.377	0.688934	0.003989	0.844886	0.004903
C18orf20	-0.17726	-0.0012	0.062926	-0.17608	0.191221	0.993058	0.644991	0.194261	-0.05879	-0.18958	0.127046	-0.00629	0.348967	0.103499	0.797195	0.483462
C6orf199	-0.10747	-0.01303	-0.00533	-0.17063	0.426195	0.924062	0.968616	0.204425	-0.18787	-0.18146	-0.0044	-0.11092	0.105591	0.113736	0.488565	0.231512
NT5DC1	-0.12326	0.256811	-0.19538	0.045408	0.365449	0.058399	0.148993	0.739653	-0.18735	0.075003	-0.1535	0.02053	0.108901	0.687816	0.159919	0.553242
FCGR2B	-0.07082	0.071168	-0.06719	0.614716	0.604016	0.605623	0.622717	4.65E-07	-0.3024	0.254575	0.058993	0.455725	0.021744	0.954258	0.648169	0.999172
FAM26D	-0.1441	-0.10549	0.041961	-0.22692	0.284867	0.43908	0.756625	0.089609	-0.13233	-0.39411	0.115005	-0.32731	0.190325	0.003363	0.774055	0.013196
ZUFSP	-0.11048	0.24643	-0.31224	0.244305	0.413263	0.06712	0.018051	0.067031	-0.08145	0.473728	-0.22671	0.194008	0.295248	0.999559	0.067117	0.901809
FAM162B	0.10326	-0.18715	0.100124	0.234722	0.448856	0.171246	0.462822	0.08163	0.344583	-0.25264	0.19378	0.055711	0.990489	0.045139	0.898927	0.643466
C6orf170	-0.0689	0.049995	-0.12011	-0.01042	0.610585	0.714424	0.373496	0.938658	-0.12334	0.112296	0.047665	0.127972	0.207064	0.771267	0.622073	0.801658
BEND6	0.224582	-0.09151	0.246504	-0.38221	0.093051	0.502381	0.064534	0.003347	0.149751	-0.38222	0.188859	-0.21089	0.839725	0.004379	0.892968	0.079733

GSTA5	-0.23167	-0.17073	-0.05236	-0.28604	0.085798	0.212661	0.701544	0.032591	-0.38192	-0.02475	-0.03589	-0.04734	0.004408	0.435148	0.407466	0.377374
OPN5	-0.06858	0.054337	0.140749	-0.17839	0.615508	0.693576	0.30082	0.18836	0.231721	-0.39753	0.09934	-0.35245	0.937192	0.003424	0.739423	0.008786
GPR115	-0.18189	0.18557	-0.19489	-0.30821	0.183817	0.179127	0.153911	0.022063	-0.15567	0.33634	-0.20941	0.01958	0.15078	0.988856	0.083698	0.551384
GPR116	0.270249	-0.22323	0.075388	0.264144	0.042039	0.098176	0.577288	0.047091	0.204923	-0.2315	0.130352	0.142649	0.914055	0.060811	0.803301	0.827853
FCGR3A	0.001943	-0.56038	0.19293	0.277821	0.988553	7.08E-06	0.150472	0.036401	-0.05376	-0.52717	0.17678	-0.25218	0.361348	8.36E-05	0.877317	0.045441
TDRD6	-0.02105	-0.087	0.025176	-0.15913	0.876505	0.523728	0.852531	0.237058	0.272602	-0.34731	0.379563	-0.2461	0.96659	0.009018	0.994938	0.049605
SPATS1	-0.15687	-0.22608	-0.01842	-0.38505	0.243872	0.09385	0.891811	0.003101	-0.26741	-0.29691	-0.07097	-0.17722	0.036197	0.022549	0.321592	0.119352
C6orf223	-0.0275	-0.21164	0.182198	-0.19311	0.839081	0.117391	0.174948	0.150079	-0.00072	-0.40392	0.192804	-0.28453	0.498117	0.002686	0.897765	0.027651
RSPH9	-0.17293	-0.18441	0.011028	-0.21849	0.1983	0.173637	0.935112	0.102502	-0.26611	-0.24842	-0.00833	-0.15186	0.036921	0.047985	0.478334	0.156855
C6orf154	-0.27305	-0.31145	0.062335	-0.36913	0.039875	0.019464	0.645055	0.004719	-0.29196	-0.45452	-0.02016	-0.27838	0.024488	0.000754	0.447713	0.03051
LOC221442	-0.1378	-0.0086	-0.15503	-0.02819	0.306694	0.949839	0.249537	0.83509	-0.10416	-0.03976	-0.08717	0.104347	0.245458	0.396518	0.284539	0.754943
C6orf130	-0.02111	0.12619	-0.18635	3.16E-05	0.876148	0.354066	0.16516	0.999814	-0.19604	0.305296	-0.24327	0.248537	0.098414	0.979292	0.055781	0.950145
KIF6	-0.12983	-0.18631	0.047618	-0.34191	0.335768	0.169186	0.725029	0.009236	-0.17515	-0.40467	0.13485	-0.31805	0.122166	0.002639	0.811433	0.015618
TMEM217	-0.04396	-0.24578	0.097375	-0.35133	0.745399	0.067862	0.471159	0.007369	0.034067	-0.3741	0.14765	-0.24465	0.588918	0.005215	0.833457	0.050644
FGD2	-0.18991	-0.19846	0.190309	0.497709	0.157092	0.142578	0.156202	8.18E-05	0.003132	-0.16781	0.012495	-0.00196	0.508241	0.132477	0.532464	0.494845
PI16	0.336071	-0.32675	0.283117	0.278976	0.010592	0.013976	0.032842	0.035599	0.157301	-0.3338	0.361091	0.013186	0.851763	0.011691	0.992594	0.534653
C6orf89	0.260296	0.038284	0.007457	0.305797	0.052686	0.781393	0.956499	0.021907	0.339234	0.286098	0.004712	0.129888	0.988687	0.971625	0.512108	0.802451
C6orf81	-0.06764	0.062186	0.173987	-0.14806	0.620397	0.651972	0.199688	0.276163	0.077406	-0.14835	0.121966	-0.2099	0.693362	0.165381	0.784854	0.083198
C6orf1	0.081969	-0.04168	0.272585	-0.12773	0.544408	0.760345	0.040228	0.343723	0.089017	-0.25536	0.143249	-0.27083	0.719547	0.045228	0.823204	0.035972
LEMD2	-0.02452	0.028726	0.158819	-0.07034	0.856313	0.833545	0.238	0.603085	0.097564	-0.1491	-0.07441	-0.17082	0.740551	0.161346	0.313567	0.128186
ZBTB9	-0.22576	-0.13132	-0.13317	-0.28439	0.091297	0.334689	0.323375	0.03203	-0.47778	0.034346	-0.15516	-0.01352	0.000393	0.589632	0.154396	0.464463
ZBTB12	0.058854	-0.24533	0.317724	-0.10214	0.663655	0.068394	0.016023	0.449647	0.14863	-0.39506	0.235198	-0.25776	0.837885	0.003292	0.940059	0.041862
C6orf136	-0.09939	0.268306	-0.06957	-0.1353	0.461981	0.04557	0.607071	0.315636	-0.12386	0.318932	-0.35875	0.085576	0.20607	0.984627	0.00776	0.714124
HIST1H2AA	-0.10729	-0.09096	0.113421	-0.13693	0.43126	0.508953	0.405233	0.314272	0.085807	-0.31658	0.037	-0.29873	0.714643	0.016035	0.595339	0.021867
AOF1	-0.1075	0.02335	-0.17502	-0.15112	0.426079	0.864367	0.192855	0.261799	-0.20579	-0.01093	0.036836	-0.0595	0.085025	0.471259	0.594925	0.347229
RBM24	-0.09548	-0.03115	-0.00983	-0.21489	0.479868	0.819694	0.94213	0.108446	-0.26415	-0.20102	0.058587	-0.17966	0.038039	0.090185	0.648874	0.116099
RNF182	0.126581	-0.37978	0.079415	-0.3082	0.348103	0.00389	0.557059	0.019679	0.054881	-0.40836	0.121619	-0.29035	0.639852	0.002678	0.784193	0.026504
PHACTR1	0.190571	-0.26578	0.359061	0.179983	0.155622	0.047726	0.00609	0.180341	0.182723	-0.42933	0.336152	-0.09274	0.887901	0.001454	0.988017	0.269945
FCGRT	0.027467	-0.23449	0.187606	0.189098	0.839281	0.08194	0.162275	0.158902	0.024644	-0.16596	0.014719	-0.02496	0.564571	0.135169	0.538224	0.434599
SYCP2L	0.172878	-0.17909	0.151857	-0.21877	0.198447	0.186607	0.259467	0.102065	0.083554	-0.3307	0.243945	-0.14209	0.707356	0.01325	0.944731	0.175904
C6orf218	0.043565	-0.16102	0.041371	-0.31946	0.749874	0.240228	0.762091	0.016398	0.135208	-0.11208	0.142402	-0.10931	0.814849	0.229177	0.824628	0.234797
C6orf145	0.108265	-0.07436	0.07295	0.144018	0.427053	0.589529	0.593127	0.289619	0.257473	0.067292	0.042163	-0.13053	0.957958	0.671601	0.608342	0.193614
MGC39372	-0.03733	-0.28705	0.149793	0.293559	0.782778	0.031954	0.266075	0.026671	-0.12758	-0.02981	0.030414	0.103752	0.201811	0.422943	0.577689	0.751189
ZNF498	-0.03801	-0.13386	0.096413	0.099763	0.77892	0.325315	0.475574	0.460299	0.213453	-0.11898	0.035899	-0.25171	0.922826	0.215484	0.592552	0.045752
C7orf38	0.016771	0.170071	-0.1885	0.008254	0.901459	0.210155	0.160246	0.951407	-0.20122	0.30767	-0.04029	0.142238	0.089971	0.981239	0.396362	0.827151
FKTN	0.14121	0.142024	-0.11808	0.040338	0.294754	0.29642	0.381687	0.765766	0.133514	0.402937	0.036196	0.219479	0.81181	0.997252	0.593305	0.928614
VWDE	0.078377	-0.00036	0.109335	0.21784	0.562242	0.997891	0.418166	0.10356	0.036955	0.118294	-0.08077	0.026616	0.596318	0.783182	0.298943	0.569688
PRPS1L1	0.123734	-0.05902	0.20409	-0.23684	0.359139	0.665669	0.127813	0.076098	0.060395	-0.22877	0.213703	-0.24884	0.654947	0.063098	0.920666	0.047696
TWISTNB	0.101798	0.105174	-0.19099	0.064918	0.451153	0.440444	0.154692	0.631394	-0.12949	0.428481	-0.25333	0.292706	0.195533	0.998515	0.046568	0.975813
SP8	-0.02765	-0.0466	0.159938	-0.20445	0.838227	0.733089	0.234667	0.127127	0.082674	-0.36743	0.127007	-0.30532	0.707545	0.006002	0.797123	0.01954
JAZF1	0.088593	-0.34175	0.081232	-0.18837	0.512254	0.00994	0.548045	0.160547	0.144252	-0.6293	0.32606	-0.19982	0.824903	2.37E-06	0.983571	0.096725
FCN1	-0.15912	-0.39834	0.150412	0.00689	0.237099	0.002361	0.264081	0.959431	-0.00242	-0.58723	0.153715	-0.4176	0.493625	8.94E-06	0.843306	0.001941
C7orf47	-0.14777	-0.09376	0.196791	-0.16422	0.272663	0.491877	0.142317	0.2222	0.023908	-0.20246	0.084297	-0.28673	0.562658	0.088602	0.709029	0.02668
GPC2	0.06654	-0.20871	0.261948	-0.22079	0.622873	0.122664	0.049025	0.098851	0.11256	-0.34063	0.199883	-0.29964	0.771799	0.010268	0.905989	0.021531
C7orf27	0.111128	-0.07401	0.215182	0.038086	0.410527	0.587746	0.107946	0.7785	0.007968	-0.00276	0.011167	-0.04885	0.520958	0.492743	0.529019	0.373576
SDK1	-0.11677	0.1072	-0.05848	-0.14979	0.387036	0.431641	0.665687	0.266071	-0.18694	-0.05477	0.018099	-0.10445	0.106745	0.358866	0.546967	0.244836
FOXK1	0.020192	0.214234	0.005366	0.383725	0.881489	0.112854	0.968402	0.003213	0.066687	0.551581	-0.01638	0.405624	0.670154	0.999965	0.457478	0.997419
MMD2	0.03982	-0.20792	0.212863	-0.12865	0.770763	0.127692	0.115232	0.344704	0.076028	-0.31885	0.135955	-0.26857	0.69223	0.015396	0.813399	0.035561
DAGLB	-0.15419	0.322112	-0.26546	0.068925	0.256517	0.016472	0.048004	0.613732	-0.15837	0.504857	-0.29271	0.107357	0.146588	0.999827	0.025513	0.761194
THSD7A	0.21178	-0.24082	0.200358	0.225913	0.11377	0.073794	0.135083	0.091077	0.314372	-0.33329	0.327746	-0.08784	0.983322	0.011804	0.986019	0.280804

ALDH3B2	-0.11078	0.283854	-0.00085	-0.19794	0.416328	0.035713	0.995032	0.14365	-0.33736	0.491408	-0.36235	0.193492	0.010931	0.999738	0.007221	0.901202
FCN2	-0.01962	-0.2098	0.26598	-0.18381	0.884819	0.120685	0.045522	0.171103	0.171862	-0.46392	0.221682	-0.39375	0.873288	0.000582	0.928338	0.003391
VSTM2A	-0.0738	-0.11374	0.181106	-0.1878	0.585364	0.4039	0.177591	0.161831	0.100488	-0.31368	0.20885	-0.11193	0.746805	0.016884	0.915716	0.229463
TMED4	-0.11206	-0.01889	-0.12694	0.148747	0.410949	0.891119	0.351192	0.273905	-0.23054	0.365869	-0.33796	0.258511	0.063803	0.993275	0.012426	0.956793
C7orf41	0.068759	-0.08747	0.142782	-0.24471	0.6113	0.521516	0.289356	0.066568	0.234319	-0.54516	0.274003	-0.44002	0.941489	4.47E-05	0.965725	0.001107
PRR15	-0.24003	0.022604	-0.07117	-0.19598	0.072107	0.868664	0.598845	0.144002	-0.24893	0.103602	0.014495	0.042322	0.047632	0.753383	0.537646	0.609979
FLJ37078	-0.04914	-0.09072	0.055966	-0.2217	0.716607	0.506064	0.679242	0.097443	0.128329	-0.22436	0.128084	-0.24596	0.802321	0.066939	0.799124	0.049707
RSBN1L	0.066658	0.139139	-0.18885	0.130335	0.622254	0.306441	0.159458	0.333877	-0.05388	0.330822	0.001587	0.259354	0.361046	0.987636	0.504127	0.959118
FDFT1	-0.02154	-0.0307	-0.06898	0.005984	0.873612	0.822308	0.610134	0.964763	-0.18716	0.033068	-0.01668	-0.00319	0.106478	0.586349	0.456703	0.491608
KIAA1324L	0.117931	0.031075	0.013655	0.14149	0.386689	0.821811	0.920433	0.298257	0.211312	-0.08006	0.225178	-0.19906	0.920689	0.298438	0.93152	0.092379
LRWD1	-0.2228	-0.26772	0.04232	-0.25097	0.095747	0.046064	0.754608	0.059695	-0.34164	-0.26849	-0.03038	-0.22438	0.010069	0.035602	0.421473	0.06692
FAM185A	-0.00943	0.319603	-0.24649	0.139222	0.944524	0.016346	0.064545	0.301669	0.204169	0.387978	-0.12345	0.214676	0.913246	0.996142	0.209577	0.924028
FBXL13	-0.11312	-0.01335	-0.018	-0.21626	0.402118	0.92221	0.894289	0.106155	-0.22254	-0.23585	0.028488	-0.16993	0.068572	0.057289	0.573685	0.129437
NAPEPLD	-0.00039	0.394012	-0.23156	0.046817	0.997677	0.002659	0.083068	0.729478	0.043706	0.389571	-0.19965	0.278098	0.613483	0.996276	0.094274	0.969351
ATXN7L1	-0.19839	0.199164	-0.07732	-0.36955	0.139033	0.141134	0.567561	0.004667	-0.02691	0.112472	-0.13111	0.05238	0.429549	0.771622	0.19531	0.635222
FLJ23834	-0.0629	-0.17393	0.092768	-0.19318	0.642076	0.199829	0.492491	0.149938	-0.05448	-0.31683	0.136857	-0.27795	0.359573	0.015963	0.814996	0.030721
BEND7	-0.14429	0.056306	0.069632	-0.16192	0.284244	0.680207	0.606773	0.228829	-0.02708	0.003006	0.008532	-0.1627	0.429119	0.507909	0.522179	0.139997
FDPS	-0.1847	0.002275	-0.10577	0.150718	0.168991	0.986722	0.43358	0.263099	-0.3784	0.413133	-0.26639	0.353722	0.004757	0.997839	0.038462	0.992058
LNX2	-0.00106	0.432694	-0.27371	0.151265	0.993767	0.000867	0.039381	0.261353	-0.12509	0.607747	-0.25882	0.326449	0.203755	0.999996	0.043014	0.986593
GPR97	0.018752	-0.42949	0.265447	-0.12029	0.890892	0.001067	0.048014	0.377185	-0.06087	-0.51811	0.188392	-0.42637	0.345605	0.000133	0.889651	0.001747
C6orf224	-0.14719	-0.05838	0.001312	-0.20334	0.274562	0.669094	0.992273	0.129245	-0.24421	-0.2078	0.011795	-0.15555	0.05096	0.082909	0.530649	0.150979
HS3ST5	-0.07655	-0.09467	0.122671	-0.19224	0.571414	0.487663	0.363313	0.151971	0.045913	-0.42271	0.109669	-0.3179	0.619049	0.001713	0.763359	0.01566
GPRC6A	-0.02824	-0.0217	0.052971	-0.0726	0.834847	0.873856	0.695548	0.591488	-0.05583	-0.1768	-0.1484	-0.2433	0.357822	0.122656	0.168187	0.053644
RFX6	0.053913	-0.18617	0.039235	-0.25653	0.690404	0.169498	0.771997	0.054074	-0.06715	-0.30835	0.142755	-0.26094	0.328741	0.01854	0.825232	0.039926
SLC35F1	0.179417	-0.16467	0.102875	0.061155	0.181736	0.225225	0.446355	0.65134	0.352397	-0.43686	0.183359	-0.44423	0.991845	0.001201	0.886023	0.000992
FAM83B	-0.16185	0.528064	-0.38099	0.200284	0.233367	3.42E-05	0.003769	0.138865	-0.15124	0.750383	-0.33195	0.455089	0.157847	1	0.012951	0.999258
GPR111	0.195473	-0.03829	0.248354	-0.41269	0.148806	0.781366	0.064946	0.001574	-0.07292	-0.38007	-0.05676	-0.39461	0.317018	0.005008	0.357202	0.003654
BZRPL1	0.027386	-0.06298	0.241775	-0.26178	0.839749	0.644723	0.070001	0.049175	0.18094	-0.49454	0.241627	-0.35634	0.885587	0.000238	0.945097	0.007536
UNC5CL	-0.11761	0.134901	0.061436	-0.26867	0.383597	0.32155	0.649841	0.043302	-0.07249	-0.12971	0.061543	-0.36948	0.316048	0.195125	0.656014	0.00575
KCTD20	0.070085	0.176032	-0.10148	0.234069	0.604428	0.194372	0.452566	0.079694	0.01881	0.468317	-0.17105	0.333509	0.549371	0.999485	0.130624	0.988244
PXT1	0.005091	-0.09865	0.160968	-0.2891	0.970017	0.469473	0.231627	0.029177	-0.04816	-0.15831	-0.01328	-0.1527	0.375311	0.146679	0.465507	0.155504
LHFPL5	-0.04458	-0.06765	0.223875	-0.15136	0.744212	0.62363	0.097182	0.265462	0.100655	-0.4228	0.121272	-0.37766	0.74716	0.00171	0.786274	0.004833
SCUBE3	0.067867	-0.08679	0.23908	-0.39311	0.619198	0.528639	0.075965	0.002726	0.244181	-0.53773	0.27411	-0.49637	0.947007	6.97E-05	0.964114	0.000262
ZSCAN23	-0.13254	-0.06714	0.017418	-0.26998	0.325679	0.622952	0.897676	0.042253	-0.00986	-0.27393	0.077918	-0.39663	0.474069	0.032726	0.694537	0.003177
NKAPL	-0.00626	-0.07579	0.030568	-0.11609	0.963151	0.57878	0.821419	0.389832	0.004824	-0.37541	0.079765	-0.26699	0.512691	0.005072	0.698766	0.036433
LOC222699	0.114847	-0.05715	0.231224	-0.34924	0.399316	0.678557	0.086415	0.008336	0.171979	-0.24546	0.066291	-0.31634	0.873452	0.050061	0.667369	0.016105
C6orf146	0.035901	-0.09535	0.168636	-0.21126	0.792792	0.488637	0.214083	0.118052	-0.22079	-0.28522	0.134587	-0.21906	0.070166	0.027344	0.810962	0.071781
TMEM130	0.116379	-0.20822	0.266583	-0.19785	0.388626	0.12357	0.045016	0.140142	0.129573	-0.47551	0.215182	-0.38717	0.804623	0.000419	0.922131	0.003928
FERD3L	-0.07831	-0.19812	0.129864	-0.26342	0.562565	0.143276	0.33564	0.047726	-0.03652	-0.41059	0.048003	-0.38326	0.404798	0.002296	0.622909	0.004281
C7orf51	-0.04044	-0.16488	0.249441	-0.15945	0.765201	0.224619	0.061315	0.236108	0.187307	-0.32688	0.168196	-0.29846	0.893706	0.013301	0.865298	0.021966
SLC29A4	-0.04624	-0.06028	0.175709	-0.11532	0.732707	0.658997	0.191083	0.392968	-0.07543	-0.14958	0.058565	-0.07901	0.311188	0.163368	0.647142	0.302955
ALDH9A1	0.091838	0.030049	-0.16396	0.106377	0.496861	0.82599	0.222957	0.430947	-0.15505	0.277506	-0.15834	0.226551	0.151763	0.969063	0.149443	0.934989
FDX1	0.027537	0.187697	-0.18904	0.165985	0.838877	0.165973	0.159033	0.217211	-0.12233	0.052629	0.022747	0.082195	0.208997	0.635843	0.558953	0.706453
CCDC129	0.169418	-0.25034	0.215326	0.004113	0.207715	0.062765	0.107706	0.975776	0.362624	-0.3667	0.305146	-0.27651	0.99337	0.006094	0.979239	0.031429
ZNRF2	-0.11957	-0.05847	0.058107	0.028222	0.380065	0.671571	0.670558	0.836422	0.2792	0.001114	0.193033	-0.03804	0.969883	0.502931	0.898038	0.400903
SEMA3D	0.318522	-0.06955	0.122885	0.085728	0.016733	0.613852	0.366911	0.52986	0.280909	-0.43985	0.191443	-0.17695	0.970692	0.001112	0.896127	0.119718
FDXR	-0.25536	-0.03569	-0.07982	-0.2632	0.05522	0.793988	0.555055	0.047916	-0.32525	0.042955	0.048732	-0.05575	0.015609	0.609054	0.621843	0.359627
FECH	-0.10336	0.099479	-0.35136	-0.06173	0.44419	0.465725	0.007363	0.648279	-0.17335	0.061684	-0.22677	0.093146	0.127401	0.656352	0.069396	0.7286
FEN1	-0.25797	0.191107	-0.28139	0.007273	0.052699	0.158274	0.033971	0.957181	-0.16562	0.430718	-0.23972	0.26154	0.135664	0.998596	0.056359	0.960433
GPC4	0.060203	-0.12527	0.076996	0.230965	0.656424	0.357626	0.569169	0.083886	-0.01981	0.136819	0.101111	0.21733	0.448025	0.817715	0.745657	0.926588

ALDH3A2	0.169593	0.295335	-0.21004	0.025664	0.207239	0.02712	0.116841	0.849704	0.039115	0.410471	-0.11428	0.305742	0.60183	0.997697	0.227373	0.980602
FER	0.232707	-0.05727	-0.01622	0.069098	0.081513	0.67505	0.904672	0.609538	0.125629	0.007278	0.074708	0.044126	0.797271	0.519143	0.687133	0.614545
FES	0.013702	-0.27755	0.237431	0.100554	0.919426	0.038353	0.075342	0.456734	0.209251	-0.3594	0.184748	-0.23478	0.918591	0.007082	0.887806	0.058139
FGA	-0.16148	-0.11819	0.008116	-0.28896	0.234445	0.390123	0.952659	0.030781	-0.01654	-0.34039	0.079408	-0.30452	0.456573	0.010314	0.697951	0.019812
FGB	0.030777	-0.08671	0.079799	-0.16668	0.820215	0.525147	0.555147	0.215255	0.084362	-0.16937	0.05643	-0.2613	0.711379	0.130243	0.643632	0.039709
FGD1	0.033566	0.100782	0.036334	-0.16328	0.804232	0.459874	0.788445	0.224895	-0.09054	0.000317	0.041614	-0.09416	0.274788	0.500833	0.606966	0.266819
FGF1	0.096662	-0.11992	0.071984	-0.06091	0.474427	0.378656	0.594643	0.652662	0.052711	-0.21802	0.336122	-0.35125	0.636044	0.072761	0.98801	0.008342
FGF2	0.329245	-0.22826	0.237714	0.175252	0.01322	0.093713	0.077707	0.196387	0.496895	-0.34842	0.336762	-0.27767	0.999742	0.0095	0.9873	0.032392
FGF3	-0.00524	-0.26314	0.212427	-0.1007	0.969134	0.050066	0.112643	0.456095	0.043947	-0.39607	0.105925	-0.29724	0.614093	0.003217	0.755697	0.022422
FGF4	0.025487	-0.17535	0.293927	-0.11921	0.850727	0.196141	0.026472	0.377103	0.118252	-0.55428	0.202276	-0.33327	0.7831	3.21E-05	0.90866	0.01181
ABCD2	-0.03967	-0.3237	-0.08986	-0.17088	0.769539	0.014948	0.506209	0.203772	-0.13466	-0.45463	0.168423	-0.219	0.188906	0.000852	0.862773	0.074182
FGF5	0.145227	-0.2264	0.147288	-0.21881	0.281089	0.093372	0.274244	0.102001	0.22736	-0.46443	0.321411	-0.35851	0.935691	0.000574	0.984337	0.007212
FGF6	0.011455	-0.13758	0.223221	-0.08667	0.932605	0.311943	0.095103	0.521465	0.081982	-0.25059	-0.02673	-0.25315	0.705966	0.046502	0.430829	0.044806
FGF7	0.094318	-0.10073	0.021402	0.35808	0.48526	0.460099	0.87444	0.00624	0.241152	-0.12597	0.264083	0.163638	0.946789	0.202086	0.960194	0.861404
FGF8	0.047959	-0.17548	0.22312	-0.19957	0.723138	0.195799	0.095255	0.136652	0.114275	-0.39601	0.180238	-0.24099	0.775235	0.003222	0.881948	0.05333
FGF9	0.078833	0.236166	-0.03441	-0.09525	0.563583	0.082586	0.801226	0.485	0.01166	0.151744	-0.02908	0.070801	0.530651	0.842961	0.424806	0.679953
FGF10	0.056829	-0.12977	0.093286	0.126933	0.674571	0.340458	0.49007	0.346752	0.147953	-0.01001	0.153851	-0.04791	0.833958	0.473991	0.840643	0.377326
FGF11	-0.14186	-0.08712	0.045692	-0.14499	0.292502	0.523181	0.735738	0.281879	-0.13811	0.191055	0.048001	0.082358	0.180012	0.898294	0.622904	0.706824
MAPK15	-0.19265	-0.26238	0.113761	-0.31373	0.151086	0.050754	0.399457	0.017479	-0.22496	-0.4069	0.029785	-0.34683	0.066406	0.002505	0.577	0.009102
FGF12	-0.14277	0.028489	-0.0286	-0.4847	0.289409	0.834896	0.832772	0.000133	-0.18601	-0.28934	0.064409	-0.23113	0.107915	0.02557	0.662884	0.06112
FGF13	-0.06619	0.221716	-0.11448	-0.23374	0.624683	0.100536	0.396455	0.080131	0.211161	-0.01503	0.113224	0.081169	0.9181	0.460974	0.767848	0.701962
FGF14	0.025172	-0.17676	0.107092	-0.17548	0.852552	0.192503	0.427836	0.191679	-0.09967	-0.24789	-0.10564	-0.19001	0.257395	0.050314	0.247469	0.105618
ALDOA	-0.03812	0.116503	-0.26731	-0.09825	0.778283	0.392505	0.044411	0.467187	-0.13018	0.413224	-0.22889	0.257399	0.19702	0.997608	0.067523	0.956088
FGFR1	0.511813	-0.29645	0.339922	0.221164	4.72E-05	0.02652	0.009681	0.09827	0.484641	-0.23119	0.312137	-0.07355	0.999679	0.061065	0.981575	0.313562
FGFR3	0.039691	0.162151	-0.13613	0.071898	0.769418	0.232486	0.312627	0.595088	-0.06757	0.504038	-0.2062	0.321369	0.327728	0.999822	0.087077	0.985289
GPC5	0.143272	-0.1943	0.179585	-0.29347	0.287685	0.151307	0.181322	0.026721	0.021789	-0.33838	0.09261	-0.48009	0.556488	0.011496	0.725049	0.000423
FGFR2	0.324955	0.066614	-0.00938	0.23589	0.01365	0.625694	0.944782	0.077313	0.137234	0.333419	-0.14226	0.222124	0.818447	0.988224	0.175622	0.931051
FGFR4	0.036678	-0.14832	0.089508	0.011048	0.788411	0.279844	0.511806	0.935592	0.149656	-0.1837	0.099894	-0.09452	0.839568	0.110838	0.743085	0.26604
FGG	-0.1164	-0.04384	-0.05828	-0.2372	0.388533	0.748359	0.666732	0.07564	-0.00999	-0.34918	-0.0183	-0.32318	0.473722	0.008692	0.45251	0.014235
FGL1	0.1364	-0.25224	0.213032	-0.34591	0.311673	0.060726	0.111599	0.008398	-0.00788	-0.45644	0.081467	-0.40496	0.479265	0.000715	0.702639	0.002622
FGR	-0.09102	-0.46676	0.133909	0.109144	0.500724	0.000288	0.320673	0.418986	-0.09014	-0.50622	0.038674	-0.35912	0.277983	0.000194	0.598413	0.007704
FH	0.173433	0.17925	-0.16771	0.115816	0.201146	0.19038	0.216639	0.395322	-0.18789	0.640046	-0.32126	0.405352	0.105574	0.999999	0.015704	0.997402
FHIT	-0.08378	-0.02296	0.144263	-0.12068	0.535518	0.866614	0.28433	0.371219	0.007684	-0.21948	0.082341	-0.28063	0.519977	0.07372	0.702419	0.030931
FHL1	0.330321	-0.24841	0.202602	0.229047	0.012905	0.067444	0.134258	0.089502	0.36877	-0.34845	0.367679	-0.10378	0.994163	0.008818	0.993518	0.246242
FHL2	0.150803	0.10108	0.031656	0.384341	0.262829	0.458539	0.815168	0.00316	0.195576	0.519656	-0.06794	0.421423	0.90364	0.999893	0.328718	0.998232
FHL3	0.077922	-0.19741	0.10742	0.308621	0.564519	0.144735	0.426415	0.019504	0.256599	-0.28079	0.157346	-0.15433	0.95741	0.029363	0.849023	0.152909
FIGF	-0.00361	0.118989	-0.07395	-0.35215	0.978747	0.382415	0.584576	0.007223	-0.00528	0.172087	-0.08492	-0.0106	0.4861	0.873602	0.289574	0.47214
CASC3	0.237839	0.031906	0.128739	-0.10098	0.074827	0.815423	0.339879	0.454804	0.34873	-0.01541	0.398139	-0.10817	0.99123	0.459512	0.996622	0.237133
NID2	0.423177	-0.37175	0.268109	0.237511	0.001039	0.004786	0.043756	0.07524	0.375479	-0.32466	0.389388	-0.09188	0.994935	0.013854	0.995901	0.271833
COG2	-0.14133	0.322931	-0.26862	0.063651	0.294354	0.015203	0.043344	0.638078	-0.22793	0.415647	-0.17184	0.310978	0.063816	0.997965	0.129511	0.982292
TFEC	-0.07187	-0.14833	0.078181	0.297215	0.59864	0.279797	0.566823	0.026114	-0.04654	-0.13174	0.070446	-0.15121	0.380734	0.194163	0.675229	0.160708
LAMB4	-0.06103	-0.09106	0.010156	-0.24643	0.655011	0.508485	0.940783	0.067118	-0.00106	-0.12698	0.026002	-0.00701	0.497198	0.200196	0.567316	0.481559
FKBP1A	0.189509	0.043574	0.104307	0.07564	0.157981	0.749821	0.440018	0.576013	0.109188	0.111799	-0.15472	0.209318	0.764955	0.770263	0.155104	0.91866
RRAS2	0.110674	-0.1563	0.328964	-0.23619	0.412456	0.249992	0.01247	0.076928	0.28199	-0.45235	0.18621	-0.33237	0.971195	0.000799	0.889661	0.012011
ITGA11	0.197977	-0.25969	0.318214	-0.08699	0.13988	0.053263	0.015852	0.519926	0.343718	-0.52471	0.418842	-0.26899	0.990327	9.08E-05	0.997905	0.035329
CLCA4	-0.11116	0.373781	-0.31959	0.038139	0.41471	0.004938	0.01635	0.780193	-0.09618	0.622162	-0.27098	0.292109	0.262441	0.999998	0.035889	0.975573
XRN2	-0.05933	0.16947	-0.26921	0.185553	0.661114	0.211792	0.042862	0.167004	-0.18619	0.316886	-0.12253	0.329817	0.107692	0.984052	0.211313	0.987403
IKZF3	-0.14355	-0.21788	0.024975	0.611492	0.291208	0.11005	0.855027	5.55E-07	-0.0812	-0.07007	0.104587	0.012897	0.297973	0.323687	0.750365	0.533505
IKZF2	-0.2529	0.455733	-0.33167	-0.11727	0.05769	0.000416	0.011725	0.384994	-0.06389	0.59526	-0.23713	0.273235	0.338366	0.999992	0.060584	0.96532
MRAS	0.221387	-0.47307	0.278702	0.243176	0.097923	0.000231	0.035788	0.068344	0.428488	-0.57122	0.334937	-0.27281	0.998515	1.69E-05	0.987744	0.0333

ATF5	0.040947	-0.09641	0.193414	-0.0415	0.762332	0.479643	0.149431	0.759197	-0.05418	-0.04296	0.089015	-0.06849	0.360307	0.3884	0.719543	0.325547
FKBP1B	0.04087	-0.07788	0.013786	-0.21167	0.762767	0.56831	0.918932	0.113953	-0.08727	-0.044	0.047675	-0.10794	0.282073	0.385782	0.622097	0.237608
COPZ1	0.005949	0.255226	-0.12399	-0.02285	0.964968	0.057639	0.358122	0.866043	-0.10684	0.340587	-0.07575	0.277307	0.23987	0.989724	0.310454	0.968966
COPG	0.004153	0.091481	-0.08256	0.103107	0.975538	0.502509	0.541491	0.445327	-0.14295	0.405184	-0.24949	0.240462	0.171641	0.997392	0.049186	0.946271
RASA3	-0.14194	-0.241	0.022868	-0.15074	0.292231	0.073567	0.86592	0.263025	-0.23231	-0.37573	0.065601	-0.22389	0.060144	0.005038	0.665727	0.06736
PHLDA1	0.19815	0.008059	-0.02405	0.213663	0.139528	0.952992	0.859061	0.110517	0.393472	0.137575	0.053976	0.129066	0.996588	0.819048	0.637637	0.803687
MTF2	-0.0307	0.218509	-0.22476	0.264888	0.820636	0.105682	0.092786	0.04645	0.090292	0.410789	-0.09032	0.319616	0.724666	0.997714	0.277585	0.984815
HSPA4L	0.060393	0.225367	-0.25984	-0.15311	0.655408	0.094917	0.050946	0.255498	-0.0926	0.524444	-0.24491	0.286733	0.272589	0.999891	0.054542	0.971911
DNAJC8	0.05426	0.191732	-0.16653	0.054326	0.691237	0.160823	0.219931	0.690879	0.066588	0.224736	-0.01615	0.168934	0.668073	0.931123	0.458555	0.866361
PUF60	0.011384	0.077178	-0.04936	0.184353	0.933022	0.571823	0.715372	0.169814	-0.12106	0.471091	-0.09168	0.359748	0.211437	0.999524	0.274589	0.992968
RBM16	0.077063	0.194889	-0.0831	0.091191	0.568835	0.150047	0.538836	0.49991	0.15442	0.135498	-0.04416	0.081613	0.84724	0.815367	0.386649	0.705123
NLGN4Y	-0.02249	0.106676	-0.18504	0.070459	0.868089	0.433907	0.168204	0.602495	-0.04144	0.358818	-0.11351	0.497128	0.392246	0.992834	0.228907	0.99978
KIAA1009	-0.0708	0.014483	-0.08216	-0.25008	0.600761	0.915626	0.543451	0.060628	-0.23114	-0.07714	0.058192	-0.01645	0.061112	0.305179	0.647916	0.45679
ZNF652	0.125815	-0.11839	0.109782	-0.12174	0.351052	0.384811	0.416255	0.366982	0.079688	-0.25329	0.088868	-0.19184	0.700707	0.04471	0.719219	0.100768
ZFP30	0.037356	0.225633	-0.24748	0.0516	0.78264	0.094516	0.06345	0.703058	-0.21758	0.41133	-0.14775	0.280039	0.073171	0.997744	0.16638	0.970282
RHOBTB3	0.273424	-0.08125	0.00314	0.0796	0.041449	0.555385	0.981678	0.559782	0.627758	-0.2926	0.302925	-0.23892	0.999998	0.024231	0.978448	0.054903
COBLL1	0.148315	0.229417	-0.11644	0.073931	0.270875	0.088972	0.388386	0.584689	0.304792	0.196857	0.140155	0.105719	0.980282	0.905118	0.820762	0.757802
RNF44	-0.02049	0.010424	0.062437	0.037437	0.879727	0.939223	0.644512	0.782182	0.052697	0.033708	0.011504	-0.01911	0.6345	0.586995	0.52954	0.450411
DLGAP4	0.031644	-0.21055	0.336539	-0.21132	0.81524	0.11933	0.010477	0.114575	0.183362	-0.34611	0.166677	-0.25568	0.888723	0.009233	0.863092	0.043171
RAB11FIP2	0.144533	0.010662	-0.07039	0.155503	0.283419	0.937835	0.602844	0.248067	0.359887	0.039201	0.167434	0.09859	0.992988	0.602051	0.864194	0.742754
PPM1E	-0.22505	-0.14527	-0.02087	-0.53515	0.095397	0.289952	0.878659	2.14E-05	-0.41228	-0.28917	-0.0306	-0.29869	0.002206	0.025639	0.420915	0.021881
FRMPD1	-0.03599	-0.04506	0.217684	-0.18132	0.790381	0.741557	0.103814	0.177082	-0.07838	-0.35852	0.126611	-0.23204	0.30231	0.007211	0.796384	0.060367
DOLK	-0.07012	-0.04532	0.253058	-0.01397	0.604246	0.740163	0.057531	0.917833	0.063734	-0.10019	0.102763	-0.14535	0.663049	0.253821	0.749126	0.167569
VASH1	0.194956	-0.26028	0.19904	0.279638	0.149905	0.054966	0.141387	0.036865	0.113872	-0.18247	0.135553	0.139083	0.77443	0.112424	0.812686	0.821693
ZNF507	-0.02946	0.275784	-0.14037	0.035392	0.827767	0.039656	0.297655	0.793812	0.043043	0.224005	-0.07171	0.125545	0.611805	0.932745	0.319862	0.797113
AAK1	-0.04677	0.359535	-0.15333	0.27776	0.729729	0.006499	0.254821	0.036443	0.130937	0.371621	-0.12135	0.215749	0.807128	0.994503	0.213574	0.925071
CPEB3	0.106673	0.044559	0.039474	0.00575	0.429657	0.744355	0.770644	0.966142	0.263564	-0.0741	0.135609	-0.0906	0.961622	0.312276	0.812784	0.274645
ADNP2	0.030274	0.371596	-0.16416	0.342743	0.823109	0.004806	0.222377	0.009057	-0.07638	0.626292	-0.18049	0.378104	0.306945	0.999998	0.117714	0.995213
ANKRD26	-0.09678	0.040537	-0.07024	-0.21526	0.473892	0.766745	0.603634	0.10782	-0.13624	-0.07923	0.029977	-0.09534	0.183305	0.300347	0.57749	0.264257
LMTK2	-0.10119	0.38803	-0.081	0.052366	0.45389	0.003127	0.549207	0.698857	-0.1146	0.648744	-0.22596	0.30833	0.224107	0.999999	0.067782	0.981454
NTNG1	0.173423	-0.30986	0.308595	-0.02859	0.197012	0.020125	0.019515	0.832773	0.147278	-0.32357	0.205734	-0.16051	0.835651	0.014135	0.912422	0.143298
CHSY1	0.018172	-0.06936	0.122613	0.217565	0.89327	0.611499	0.363542	0.104007	0.222506	-0.31873	0.099072	-0.15079	0.931398	0.015429	0.741342	0.158581
ICK	-0.08859	0.35989	-0.23001	0.095635	0.512279	0.006442	0.085211	0.479157	-0.1497	0.626291	-0.27768	0.409669	0.160358	0.999998	0.032386	0.997653
LPHN1	0.08217	-0.07161	0.173333	-0.25505	0.543414	0.599976	0.197248	0.055532	0.042494	0.034961	0.131434	-0.11402	0.610416	0.59121	0.805275	0.225278
FKBP2	0.023655	-0.05581	0.26285	-0.09904	0.861347	0.682875	0.048223	0.463581	0.119143	-0.25147	0.221427	-0.27853	0.784841	0.045913	0.928102	0.030441
NLRP1	0.104959	0.028527	0.1649	0.169995	0.441384	0.836207	0.224555	0.21036	0.170585	-0.09558	0.046068	-0.04999	0.871489	0.263737	0.6181	0.370732
FNDC3A	0.153881	-0.12121	0.04212	0.236004	0.253096	0.373547	0.755732	0.077166	0.177126	0.066576	0.063839	0.153789	0.880523	0.669886	0.661522	0.846237
KIAA0831	-0.00892	0.248506	-0.25944	0.096487	0.947522	0.064777	0.051313	0.475232	-0.07069	0.272687	-0.10046	0.13925	0.3203	0.966634	0.255713	0.821984
R3HDM2	-0.10943	0.241819	-0.19619	-0.01648	0.422054	0.075291	0.147286	0.904062	-0.02917	0.366887	0.008277	0.218818	0.423692	0.993929	0.521518	0.927996
SLITRK3	0.342738	-0.2101	0.177687	-0.04828	0.009058	0.120143	0.186057	0.721348	0.244722	-0.21027	0.236995	0.025677	0.947405	0.082809	0.939303	0.566483
CNKSR2	0.336675	-0.27698	0.337893	0.019382	0.010444	0.038774	0.010152	0.886212	0.341663	-0.35336	0.373707	-0.22871	0.989192	0.00863	0.993769	0.065373
FASTKD2	0.01948	0.297878	-0.20983	0.239907	0.885636	0.025766	0.117219	0.07226	0.029898	0.400295	-0.15315	0.346121	0.578182	0.997079	0.157592	0.99077
ZNF510	-0.0084	0.145105	-0.1837	0.092983	0.950536	0.285956	0.171366	0.491487	0.104934	0.160398	0.062437	0.083174	0.756169	0.856528	0.658162	0.708684
FKBP3	0.003685	0.372583	-0.28011	0.048046	0.978294	0.004686	0.034823	0.722661	0.097081	0.387936	-0.14092	0.273647	0.739508	0.996138	0.177922	0.96713
SAPS1	-0.20404	-0.02367	-0.09229	-0.01487	0.127916	0.862511	0.494713	0.912597	-0.35003	0.206817	-0.18603	0.10123	0.008548	0.916061	0.110561	0.74838
NLGN1	0.398463	-0.05729	0.129885	-0.09669	0.002141	0.674937	0.335562	0.474301	0.313223	-0.36742	0.06516	-0.28037	0.982979	0.006004	0.664677	0.029562
SEC31A	0.118994	0.193506	-0.07158	0.18227	0.377982	0.153017	0.596695	0.174775	0.25154	0.244163	-0.00639	0.208423	0.954132	0.949004	0.483389	0.917737
DZIP1	0.019748	-0.11141	0.027602	-0.22847	0.884072	0.413646	0.838502	0.087385	0.17817	-0.42563	0.266825	-0.1553	0.881923	0.001594	0.961788	0.151365
PLEKHA6	-0.0166	0.041784	0.057746	-0.41704	0.903373	0.761974	0.672489	0.001386	-0.10658	-0.00737	0.145323	-0.02249	0.240405	0.480611	0.829577	0.441027
ENPP4	-0.08721	0.056575	-0.10626	-0.05858	0.518866	0.678761	0.431456	0.665109	-0.11757	0.066342	0.034561	0.040146	0.218231	0.669327	0.58916	0.604456

INPP5F	0.066491	0.282888	-0.21457	0.210346	0.623132	0.034639	0.108983	0.116293	0.28389	0.275839	-0.04903	0.170718	0.972061	0.968239	0.374536	0.871677
MLXIP	-0.15563	-0.17218	0.185738	-0.06783	0.25206	0.208764	0.170516	0.619407	-0.2105	-0.20003	0.076844	-0.14927	0.080131	0.091296	0.692069	0.161062
KIAA1012	-0.02723	0.159198	-0.24545	-0.00976	0.840675	0.241216	0.065726	0.942533	-0.08124	0.282142	-0.07803	0.194905	0.295726	0.971265	0.305204	0.90286
MON1B	-0.17338	0.168119	0.017883	0.024465	0.197116	0.215511	0.894959	0.856649	-0.16142	0.393459	-0.14171	0.306544	0.141925	0.996587	0.176553	0.980869
FKBP4	-0.06143	0.108556	-0.1443	0.042436	0.652885	0.430161	0.288676	0.75615	-0.18609	0.533896	-0.33629	0.351958	0.107815	0.999934	0.011952	0.991773
MORC2	0.106381	0.204444	-0.16213	-0.01851	0.435189	0.134331	0.232546	0.892319	-0.06293	0.52375	-0.15078	0.24223	0.338894	0.999906	0.161406	0.947591
ANKRD6	0.120751	0.352838	-0.17581	-0.18594	0.370932	0.007648	0.19083	0.166103	-0.09457	0.390933	-0.03855	0.222836	0.26593	0.996388	0.400744	0.931696
ZHX2	0.281351	-0.16731	0.041122	0.272444	0.033995	0.217751	0.761347	0.040335	0.41771	-0.10348	0.09868	0.060466	0.998064	0.246881	0.740509	0.655119
CLSTN1	0.037221	0.219633	-0.17555	0.017369	0.783406	0.103856	0.191504	0.897958	-0.21808	0.62048	-0.32051	0.40469	0.072702	0.999998	0.015917	0.997362
WDR37	0.017576	0.290238	-0.06559	0.144777	0.896751	0.030015	0.627865	0.282598	-0.09686	0.289559	-0.22227	0.207662	0.260973	0.974523	0.07112	0.916947
ABLIM3	0.177817	0.135536	-0.02987	0.025222	0.189815	0.32382	0.827032	0.853609	0.278331	0.034511	0.219204	0.01344	0.969464	0.590057	0.926016	0.53532
FOXJ3	0.133011	0.337975	-0.11642	0.082866	0.323961	0.010847	0.388472	0.539998	0.306181	0.246055	-0.03777	0.195696	0.980749	0.95036	0.402716	0.903779
UBOX5	-0.05898	0.05723	-0.22979	0.073265	0.665921	0.678125	0.088433	0.591528	-0.08072	0.292526	-0.12164	0.100199	0.296913	0.97574	0.213024	0.74619
KIAA0907	-0.08731	0.270735	-0.02808	0.066914	0.518408	0.043574	0.835765	0.620918	0.066777	0.236375	-0.15336	0.195941	0.670368	0.943125	0.157262	0.904063
FKBP5	0.062031	-0.2666	-0.08294	0.210851	0.646675	0.047019	0.539627	0.115399	0.517909	-0.39706	0.290433	-0.40659	0.999886	0.003146	0.973529	0.002524
ZBTB1	-0.07607	0.231651	-0.21359	0.145322	0.573821	0.085819	0.110641	0.280773	0.034822	0.198096	0.051528	0.187005	0.590855	0.906532	0.631623	0.89333
ZNF365	0.147246	-0.25022	0.230949	-0.22033	0.274382	0.062895	0.083908	0.099571	0.133365	-0.46807	0.15785	-0.28342	0.811541	0.000518	0.849806	0.028149
BAHD1	-0.02896	-0.06644	0.061097	-0.11139	0.830682	0.626614	0.651646	0.409436	0.051925	-0.03773	0.06513	-0.16765	0.634093	0.401706	0.664604	0.13271
DIS3	0.00168	0.35771	-0.30376	0.256914	0.990104	0.006796	0.021614	0.053706	0.010637	0.421363	-0.21306	0.355179	0.527968	0.998229	0.079981	0.992287
RPH3A	-0.04751	-0.13713	0.128854	-0.26336	0.725631	0.313542	0.339444	0.047778	0.075372	-0.39645	0.084371	-0.36794	0.6907	0.00319	0.709195	0.005939
CEP164	0.027836	-0.31299	0.129041	-0.40117	0.837149	0.018838	0.338739	0.001984	-0.14773	-0.41475	0.078819	-0.40782	0.163608	0.002079	0.696603	0.002452
DENND3	0.002154	-0.51436	0.252001	0.268575	0.987314	5.01E-05	0.058617	0.043377	0.315645	-0.63077	0.281053	-0.43358	0.982664	1.70E-06	0.967704	0.001463
ARHGEF15	0.16433	-0.27717	0.269566	-0.02995	0.221897	0.03863	0.042581	0.824985	0.157095	-0.25896	0.17656	-0.04601	0.851443	0.041122	0.877019	0.380716
ALDOB	0.023829	-0.10345	0.307987	-0.1034	0.861613	0.452276	0.020931	0.44823	0.070737	-0.3774	0.132975	-0.2669	0.679803	0.00486	0.808067	0.036482
FOXG1	-0.05629	-0.0332	0.250656	-0.15903	0.677463	0.808061	0.060022	0.237376	0.039121	-0.26135	0.116584	-0.26783	0.601846	0.039679	0.77717	0.035967
CARD8	0.172814	-0.1734	0.12336	0.432899	0.198615	0.201223	0.360607	0.00077	0.21569	-0.18074	0.152897	-0.07236	0.925014	0.11468	0.842001	0.316357
ARSG	-0.01479	-0.06612	-0.05786	0.108078	0.913028	0.62829	0.668995	0.42357	0.058316	0.064701	0.051397	-0.12482	0.649867	0.665382	0.631301	0.204257
RUFY3	0.023752	0.273404	-0.07198	0.085433	0.860785	0.041465	0.594658	0.527472	0.124792	0.155868	-0.07944	0.093465	0.79569	0.849523	0.301966	0.731654
BTBD3	-0.07299	-0.01916	-0.02376	-0.16116	0.589501	0.888526	0.860725	0.231059	-0.16307	-0.05664	0.105017	0.105407	0.139441	0.354247	0.753819	0.757154
SBNO2	-0.12933	-0.08022	0.026797	0.275006	0.337638	0.556723	0.843149	0.038419	-0.10099	0.257114	-0.15728	0.206452	0.252135	0.957734	0.151087	0.915678
EPN2	-0.10349	0.298495	-0.1096	-0.27384	0.443648	0.025446	0.41703	0.03928	-0.12661	0.458569	-0.11373	0.161741	0.200877	0.999325	0.228468	0.858562
TRAK1	-0.20835	0.312165	-0.22774	-0.26035	0.119881	0.01917	0.088417	0.05047	-0.31526	0.385013	-0.2717	0.10481	0.017453	0.995494	0.037204	0.75339
DHX30	-0.19677	0.021711	-0.17758	-0.12384	0.142358	0.873807	0.186319	0.35871	-0.46459	0.425778	-0.34293	0.190937	0.000572	0.998412	0.010552	0.898151
SACM1L	-0.03884	0.207556	-0.26167	0.205582	0.774206	0.124797	0.049274	0.124989	0.064587	0.307945	-0.14113	0.235595	0.665106	0.981329	0.177547	0.942509
MTMR15	0.100233	0.03174	-0.02692	0.204564	0.458179	0.816365	0.842418	0.12691	0.053416	0.318332	-0.05185	0.247372	0.637794	0.98446	0.367573	0.951286
WDR47	-0.04236	0.137782	-0.31543	-0.11201	0.754407	0.311226	0.016845	0.406784	-0.24577	0.155668	-0.17826	0.1141	0.049845	0.84921	0.120688	0.774886
RALY	-0.09236	0.039658	-0.18077	0.26352	0.494417	0.771668	0.178406	0.047634	-0.13559	0.516293	-0.25995	0.276235	0.184477	0.99988	0.04231	0.968436
KLRK1	-0.14446	-0.15209	-0.06956	0.565869	0.283661	0.263143	0.607135	4.49E-06	-0.23793	-0.29359	-0.00163	-0.0591	0.057759	0.025149	0.495818	0.349883
MMRN1	0.138069	-0.16103	0.049078	0.407831	0.310209	0.240198	0.719445	0.001809	0.336281	-0.33718	0.316267	-0.1385	0.988844	0.010969	0.982851	0.17933
NCBP2	0.045216	0.336645	-0.14888	0.218248	0.738394	0.011183	0.269032	0.102898	0.180632	0.45259	-0.07237	0.415175	0.885183	0.999206	0.318304	0.997942
ZP1	-0.16745	-0.03774	0.164219	-0.28552	0.213115	0.782432	0.222213	0.031325	0.065202	-0.36862	0.181758	-0.3491	0.666589	0.005855	0.883946	0.008707
CD93	0.185784	-0.27682	0.11481	0.394723	0.170408	0.040757	0.399467	0.002608	0.297941	-0.2611	0.200903	0.044964	0.97784	0.039828	0.907134	0.616658
MAPRE1	0.110373	0.066111	-0.19723	0.387806	0.413736	0.628313	0.14141	0.002877	0.032908	0.452139	-0.02313	0.421842	0.584959	0.99909	0.440777	0.99805
KIFAP3	-0.00913	-0.09661	-0.083	0.002316	0.946254	0.478757	0.539321	0.986359	-0.16876	-0.11823	0.081858	0.008458	0.131119	0.216939	0.703526	0.522243
MSRB2	0.130247	-0.01084	-0.03289	0.123682	0.334203	0.936785	0.808082	0.359342	0.303751	-0.11166	0.098334	-0.02717	0.979926	0.230021	0.739773	0.428881
MAPRE3	-0.14524	-0.14353	0.026493	-0.26622	0.281037	0.291287	0.844907	0.045322	-0.234	-0.25082	0.034276	-0.17333	0.058764	0.046348	0.588436	0.12467
PLA2R1	0.208128	0.090545	0.146332	0.058217	0.123738	0.510903	0.281859	0.669967	0.208532	0.195785	-0.06457	0.044389	0.91785	0.903883	0.336742	0.615208
ATF6	0.046576	0.274994	-0.23204	0.187315	0.730819	0.040249	0.08242	0.162941	-0.01288	0.32861	-0.14051	0.278011	0.466153	0.987117	0.178627	0.969309
HABP4	0.299325	-0.41441	0.306238	0.031417	0.023702	0.001497	0.020515	0.816543	0.174507	-0.47638	0.255123	-0.24658	0.876959	0.000409	0.954617	0.049269
SEPHS2	-0.22783	-0.13607	0.021841	-0.06253	0.088295	0.317337	0.871889	0.644	-0.07902	-0.12687	0.088193	-0.14838	0.300842	0.200405	0.717724	0.162519

SEPHS1	-0.00109	0.241321	-0.27246	0.048017	0.993607	0.073176	0.040325	0.722819	-0.15302	0.264378	-0.22557	0.131288	0.157796	0.960368	0.07048	0.805011
RAB3GAP1	0.163467	0.15263	-0.20424	0.172566	0.224366	0.261434	0.127526	0.199269	8.50E-05	0.36979	-0.15286	0.32728	0.500224	0.994287	0.158065	0.986796
RAB18	0.024161	0.263193	-0.20267	0.129977	0.85841	0.050015	0.130536	0.335216	0.040352	0.34881	-0.0504	0.298279	0.60498	0.991244	0.371162	0.977966
POMZP3	0.085112	-0.268	-0.0145	-0.12659	0.529029	0.045825	0.914732	0.348081	0.088439	-0.21709	-0.17016	-0.10182	0.720546	0.07364	0.131886	0.250375
SIRT2	0.033893	-0.18175	0.105551	-0.15938	0.802362	0.180047	0.434553	0.236313	-0.15242	-0.20114	0.003254	-0.12403	0.155946	0.090058	0.508463	0.205756
RPIA	-0.21063	0.305906	-0.33047	0.100746	0.119189	0.023129	0.012863	0.460035	-0.12145	0.444845	-0.13661	0.159695	0.210686	0.999024	0.185432	0.855454
ELL2	0.164784	0.27205	-0.07391	-0.01409	0.220604	0.042524	0.584788	0.917123	0.435672	0.128281	0.070165	-0.01363	0.998762	0.802231	0.676523	0.464188
SCAP	-0.0421	-0.01927	-0.0181	-0.01685	0.758016	0.888967	0.894652	0.901888	0.00177	0.302552	-0.13627	0.076335	0.504658	0.979509	0.186036	0.692946
SNW1	0.030698	0.195787	-0.27906	-0.00717	0.820668	0.148141	0.035541	0.95779	-0.11611	0.306937	-0.03575	0.240635	0.221111	0.980999	0.407831	0.946402
FOXF1	0.342588	-0.21861	0.314589	0.024008	0.00909	0.105515	0.017157	0.859302	0.485781	-0.496	0.37799	-0.30193	0.99969	0.000228	0.994767	0.020708
SHANK2	-0.07979	-0.29756	0.221762	-0.43636	0.55518	0.025935	0.097341	0.000691	-0.14727	-0.54668	0.106766	-0.46541	0.164364	4.23E-05	0.757429	0.000559
DKK1	-0.09326	0.207035	-0.14335	-0.11192	0.494181	0.12936	0.291876	0.411535	0.016152	0.352285	-0.07073	-0.0059	0.541935	0.991186	0.32411	0.484654
KIN	0.005721	0.152984	-0.11105	0.118169	0.966309	0.260315	0.410841	0.381324	0.057433	0.18646	-0.11397	0.167655	0.646072	0.889976	0.230682	0.864515
CCT5	-0.13773	0.152372	-0.28673	0.137851	0.311399	0.266756	0.03215	0.310982	-0.30474	0.607143	-0.29308	0.434754	0.019738	0.999996	0.025357	0.998733
PTGR1	-0.11572	0.379868	-0.27414	-0.26245	0.395706	0.004229	0.040896	0.05069	-0.32066	0.484816	-0.36668	0.225057	0.0149	0.999681	0.006616	0.933679
FOXF2	0.214671	-0.06814	0.256438	0.296531	0.108806	0.617763	0.054167	0.025104	0.367422	-0.24216	0.365583	0.025039	0.993997	0.052463	0.993236	0.565598
SLC4A1AP	-0.17773	0.286336	-0.37102	0.050225	0.185956	0.0324	0.004493	0.71062	-0.22757	0.302631	-0.07082	0.132522	0.06413	0.979537	0.321942	0.810016
P2RX2	-0.03437	-0.25081	0.202172	-0.21477	0.799634	0.062252	0.131512	0.108644	0.146845	-0.5123	0.216801	-0.43969	0.834931	0.000136	0.923713	0.001116
TRIM32	-0.17738	0.039692	-0.13438	0.002797	0.186839	0.771479	0.318976	0.983526	-0.16621	0.237875	-0.06145	0.362097	0.13481	0.944295	0.344213	0.993298
SCMH1	0.205785	-0.14449	0.188802	0.107692	0.124609	0.288008	0.159568	0.425237	0.31603	-0.14258	0.182268	-0.10057	0.983807	0.17226	0.88461	0.253023
FOXC1	0.104189	-0.33993	0.30911	-0.12406	0.440539	0.01037	0.019302	0.357871	0.099443	-0.57075	0.237458	-0.49143	0.744579	1.72E-05	0.941868	0.000262
FOXD1	-0.03847	0.033506	0.229195	-0.07609	0.776352	0.806338	0.086353	0.573753	0.118714	-0.0779	0.104557	-0.15868	0.784002	0.303423	0.752865	0.146101
TPX2	-0.09226	0.235001	-0.10578	-0.10818	0.49888	0.084157	0.437786	0.427416	-0.16485	0.655633	-0.19028	0.394584	0.136798	1	0.105289	0.996672
PAXIP1	-0.00435	0.465928	-0.27273	0.037076	0.974401	0.000296	0.040115	0.784231	-0.06985	0.552322	-0.19558	0.364832	0.322303	0.999965	0.098952	0.993665
AKR7A3	0.025122	-0.2373	0.112247	-0.07586	0.852843	0.07824	0.405802	0.574894	0.11199	-0.19251	0.094569	-0.27061	0.770648	0.099959	0.731687	0.034461
NT5C2	-0.07539	0.352543	-0.3061	0.119753	0.5773	0.007703	0.020576	0.374926	0.015055	0.484735	-0.18564	0.323268	0.539552	0.99968	0.111065	0.985788
EFR3B	0.094171	-0.02031	0.276098	-0.43493	0.485944	0.881884	0.037625	0.000722	-0.06333	-0.48527	0.084985	-0.41282	0.337921	0.000315	0.710574	0.002178
FOXD4	0.013183	-0.07391	0.15629	-0.12941	0.922464	0.588269	0.245651	0.33735	0.356921	-0.12003	0.138443	-0.27779	0.992553	0.213438	0.817784	0.030796
TCF25	-0.19128	0.072196	-0.06782	0.15608	0.157886	0.600413	0.619442	0.250678	-0.14621	0.368272	-0.24567	0.165709	0.166124	0.994102	0.051906	0.864463
RP4-691N2	-0.04486	-0.08365	0.008189	-0.26024	0.740389	0.539909	0.951791	0.050579	-0.02594	-0.08222	0.039111	-0.05317	0.432053	0.293488	0.600669	0.362813
DIP2C	-0.0403	-0.31429	0.128592	0.055661	0.76808	0.019447	0.344906	0.683676	0.066609	-0.28873	0.236121	-0.30041	0.669966	0.025824	0.940803	0.021251
MAST1	-0.04446	-0.04642	0.230878	-0.18252	0.742637	0.734066	0.084006	0.174184	0.066621	-0.27645	0.08804	-0.27199	0.669995	0.031456	0.717385	0.033729
PDCD11	-0.0828	0.277235	-0.32644	0.127968	0.544051	0.040447	0.014073	0.347269	-0.23312	0.652561	-0.31272	0.443203	0.059484	1	0.01824	0.998981
ACIN1	-0.13436	0.158795	-0.13726	-0.04389	0.319048	0.242425	0.308616	0.745824	-0.16043	0.249785	-0.24035	0.099671	0.146222	0.951018	0.058031	0.742613
SORCS3	-0.00627	-0.13582	0.153774	-0.22195	0.963086	0.318238	0.253431	0.097053	-0.00631	-0.4539	0.115164	-0.42975	0.483395	0.000766	0.77437	0.001438
SV2C	0.057328	-0.06231	0.233691	-0.23338	0.674726	0.651313	0.083019	0.083436	-0.02475	-0.29212	-0.00657	-0.18817	0.435167	0.024425	0.48293	0.105228
MYH15	0.149499	0.001883	0.313949	-0.21279	0.271459	0.989111	0.018458	0.115354	0.186885	-0.33305	0.119331	-0.28572	0.893181	0.011857	0.78253	0.027124
FOXI1	-0.12673	-0.13363	0.249448	-0.20941	0.347534	0.326165	0.061308	0.117965	-0.03844	-0.46037	0.217751	-0.29317	0.399887	0.000642	0.92463	0.024
PCNX	0.078542	-0.0305	-0.11592	0.334985	0.561413	0.82345	0.390515	0.010862	0.288764	0.061201	0.094173	0.123545	0.974189	0.656908	0.73083	0.793322
FBXL11	-0.11678	0.230394	-0.12308	0.204006	0.391384	0.090598	0.366152	0.131525	-0.18866	0.52354	-0.2008	0.378987	0.104615	0.999906	0.092982	0.995303
HMGXB3	-0.30706	5.46E-05	-0.07561	-0.07072	0.02016	0.999681	0.576166	0.601151	-0.34945	0.063917	-0.27773	-0.01023	0.009313	0.661709	0.033979	0.473402
AZI1	-0.08105	-0.25185	0.179905	-0.29308	0.548956	0.061141	0.180532	0.026932	-0.13581	-0.33661	0.165878	-0.20192	0.186856	0.011882	0.859061	0.091733
CEP152	0.005643	0.246365	-0.19684	-0.12363	0.966769	0.067194	0.142213	0.359563	-0.04553	0.405215	-0.14172	0.229906	0.381924	0.997394	0.176533	0.93786
TTC39A	-0.16489	0.149409	-0.05356	-0.23756	0.224576	0.276278	0.695019	0.077908	-0.24514	0.077102	-0.16763	0.034067	0.054372	0.690566	0.141307	0.586882
IGSF9B	0.291253	-0.27632	0.360829	-0.16454	0.027943	0.039255	0.005826	0.221286	0.339663	-0.40207	0.374016	-0.18264	0.98954	0.002804	0.994313	0.112211
LIMCH1	0.248689	-0.29399	0.203523	0.064961	0.062127	0.027858	0.128897	0.631165	0.239587	-0.37502	0.185815	-0.15667	0.945609	0.005114	0.889163	0.14922
RIMS1	-0.08176	0.262897	4.68E-05	-0.21456	0.545447	0.050282	0.999724	0.109001	-0.22271	-0.03672	0.055497	-0.12372	0.068422	0.404284	0.641356	0.206337
ABCF1	0.124733	0.177968	-0.09249	0.13842	0.355243	0.189433	0.493777	0.304493	0.107129	0.442681	-0.00293	0.200128	0.760723	0.998967	0.492368	0.908818
ALDOC	0.303608	-0.35283	0.133006	0.129743	0.021682	0.00765	0.323976	0.336094	0.144805	-0.37219	0.176221	-0.28768	0.828705	0.005908	0.873739	0.027668
FOXL1	0.051312	-0.05182	0.272533	0.040946	0.704641	0.704449	0.040267	0.762337	0.085116	-0.35339	0.234179	-0.24799	0.713086	0.007995	0.939229	0.048286

WDFY3	0.083095	0.186833	-0.1234	-0.00024	0.538873	0.167965	0.360462	0.998602	0.17112	0.143178	-0.04179	0.052402	0.872244	0.828755	0.392604	0.635277
DAAM1	-0.05288	0.173375	-0.17673	-0.14577	0.698705	0.205563	0.192577	0.283723	-0.14313	0.293883	-0.07007	0.188762	0.174135	0.974971	0.325648	0.892849
MAPKBP1	-0.01386	0.05891	-0.05854	-0.13877	0.918478	0.666268	0.665356	0.303256	-0.26865	0.318963	-0.30073	0.253711	0.037178	0.983644	0.02365	0.953686
PLCH1	-0.11303	-0.22556	0.057346	-0.17714	0.402516	0.09463	0.671776	0.187428	-0.25336	-0.2127	0.038859	-0.11129	0.044663	0.077925	0.600033	0.23077
KLHDC10	-0.06644	0.149913	-0.15747	-0.04031	0.623409	0.270119	0.242061	0.765902	-0.022	0.166559	-0.08948	0.117184	0.442309	0.865706	0.279431	0.781003
FOXE3	0.07264	-0.13175	0.290714	-0.13798	0.591279	0.33309	0.028247	0.306034	0.104917	-0.45751	0.183664	-0.29361	0.756133	0.000695	0.886417	0.023829
RAB21	0.083407	0.279984	-0.20167	0.181141	0.537342	0.036622	0.132482	0.177506	0.154593	0.347266	-0.03699	0.254709	0.847514	0.990974	0.404685	0.956208
STK38L	0.074648	0.222554	-0.18995	0.173159	0.581042	0.099223	0.156997	0.197707	0.258372	0.228154	0.005617	0.159572	0.958515	0.936373	0.514605	0.855267
SPEN	0.100153	0.245466	-0.13136	0.08943	0.462691	0.070862	0.334541	0.512177	0.30532	0.276646	0.022554	0.0696	0.9793	0.967091	0.557769	0.675195
FBXO21	0.195184	0.190091	-0.28311	0.051323	0.145672	0.160539	0.032845	0.704581	0.201174	0.241147	0.063678	0.15628	0.907437	0.944733	0.659334	0.84736
GOLGA8A	-0.01317	0.108771	-0.0748	0.238768	0.922537	0.424884	0.580257	0.073664	0.12206	0.064251	-0.08855	0.036266	0.790482	0.664296	0.28148	0.594554
EXOSC7	-0.10866	0.241023	-0.22898	0.150358	0.425352	0.076286	0.0896	0.268683	-0.21249	0.619386	-0.45357	0.382075	0.078132	0.999998	0.000876	0.995607
FAIM2	-0.04633	0.298092	-0.12027	-0.32762	0.732202	0.025654	0.372851	0.012855	0.069937	-0.0203	-0.00019	-0.13762	0.677904	0.446742	0.499504	0.180873
CNOT1	-0.0561	0.286646	-0.38259	0.106939	0.678508	0.032205	0.003313	0.4285	-0.13135	0.523318	-0.27788	0.373099	0.192118	0.999905	0.032285	0.994672
FOXJ1	-0.0878	-0.23628	0.096694	-0.23062	0.51604	0.079564	0.474281	0.08436	-0.21401	-0.2949	0.044918	-0.22034	0.076628	0.023319	0.615235	0.070582
SNRNP200	0.002984	0.166198	-0.3341	0.244405	0.982587	0.225244	0.011852	0.06947	-0.18013	0.583188	-0.2389	0.407053	0.115476	0.999989	0.056997	0.997504
PALLD	0.16096	-0.06012	0.139228	0.287302	0.23598	0.662822	0.306127	0.031796	0.32481	-0.20247	0.133815	-0.13253	0.986183	0.088595	0.80958	0.189974
TMCC1	-0.07578	0.31338	-0.05051	-0.09778	0.5753	0.018683	0.709024	0.469309	-0.20306	0.274238	-0.20274	0.219872	0.090479	0.965849	0.093444	0.926647
PDZRN3	0.417494	-0.23549	0.202869	0.09263	0.001233	0.080615	0.130158	0.493142	0.474561	-0.38805	0.384947	-0.18625	0.999569	0.003852	0.995488	0.107607
UNC13A	-0.09006	-0.10077	0.194568	-0.07527	0.509192	0.464145	0.150733	0.581401	-0.02927	-0.35648	0.023389	-0.21348	0.423441	0.007515	0.560605	0.077151
MYO16	-0.00784	-0.13429	0.235196	-0.22697	0.953815	0.323763	0.078213	0.089532	-0.04459	-0.30713	0.16483	-0.23133	0.384286	0.018938	0.860378	0.060953
AOF2	-0.08875	0.218038	-0.42419	-0.04574	0.511492	0.106456	0.001008	0.735481	-0.10702	0.413148	-0.11972	0.232323	0.239502	0.997839	0.216707	0.939868
RBM34	-0.08762	0.364974	-0.27503	0.137881	0.516895	0.00568	0.038405	0.306397	-0.05724	0.445378	-0.0601	0.260942	0.352781	0.999038	0.347457	0.960077
FOXC2	0.133309	-0.28156	0.311348	-0.15977	0.322865	0.035536	0.0184	0.235174	0.184336	-0.51348	0.276491	-0.45051	0.889968	0.000131	0.967012	0.00084
JMJD2B	-0.10275	-0.13198	0.015343	-0.09617	0.446903	0.332233	0.909809	0.476692	-0.05139	-0.2123	-0.08859	-0.23805	0.367247	0.078318	0.281399	0.055571
MAST3	-0.02514	-0.2793	0.223742	0.043737	0.852734	0.037102	0.094312	0.746661	0.12823	-0.34865	0.167969	-0.31425	0.802136	0.008784	0.86497	0.016715
USP33	0.052712	0.119127	-0.15322	0.187153	0.696967	0.381859	0.255157	0.163312	0.131511	0.263338	0.027443	0.223625	0.808177	0.961491	0.571009	0.932405
DOPEY1	-0.06839	0.241184	-0.23083	0.082918	0.613226	0.073343	0.084071	0.539738	0.034518	0.367905	-0.11268	0.224264	0.590074	0.994057	0.230571	0.932977
SAMD4A	0.360796	-0.32972	0.19742	0.14699	0.005831	0.01308	0.141021	0.275228	0.498954	-0.52446	0.391542	-0.3692	0.999792	9.15E-05	0.99609	0.005785
PHLPPL	0.122447	-0.04135	-0.01551	0.181583	0.3642	0.762222	0.908814	0.176433	0.386453	-0.20191	-0.05563	-0.23601	0.996009	0.089211	0.358316	0.057161
ZNF292	0.039703	0.118061	-0.07706	0.142652	0.76935	0.386161	0.568827	0.2898	0.276289	0.092612	0.106375	0.118853	0.968464	0.729783	0.756623	0.784275
PDZD2	0.113785	0.265861	-0.16093	0.014658	0.399357	0.047653	0.231736	0.913821	0.162017	0.361652	0.053314	0.284362	0.858979	0.993236	0.636015	0.972273
WDTC1	-0.25659	0.057252	-0.19235	-0.17573	0.056271	0.678007	0.155538	0.195148	-0.28295	0.080112	-0.15564	-0.04653	0.028364	0.701682	0.153639	0.379404
XPO7	0.159609	0.299502	-0.2345	0.158477	0.235645	0.024931	0.079122	0.239024	-0.0555	0.534514	-0.19525	0.33315	0.357044	0.999935	0.099343	0.988164
FOXE1	-0.03872	0.257669	0.01566	-0.08869	0.774933	0.055207	0.907956	0.511783	-0.15522	0.211797	-0.14184	0.124415	0.151493	0.921177	0.176327	0.794975
MYT1L	0.028849	0.019075	0.218271	-0.40778	0.831307	0.889024	0.102862	0.001641	0.072295	-0.43276	0.080806	-0.47086	0.683482	0.001333	0.701136	0.000479
MON2	0.132565	0.152033	-0.03469	0.22878	0.3256	0.263324	0.797802	0.086939	0.410957	0.041011	-0.01252	0.005047	0.997723	0.606655	0.467477	0.513279
PDXDC1	-0.03955	0.306764	-0.00818	0.029459	0.770221	0.021472	0.951864	0.827794	0.063222	0.37289	-0.05861	0.182131	0.66181	0.994648	0.35108	0.887136
TNIK	0.262667	-0.00781	0.018712	0.205388	0.048386	0.954457	0.89012	0.125354	0.184979	-0.29104	0.257604	-0.03759	0.890786	0.024864	0.956219	0.40206
KIF21B	0.000376	-0.25452	0.233969	0.291117	0.997787	0.058353	0.079826	0.028019	0.093881	-0.37507	0.282879	-0.20968	0.732562	0.005109	0.970141	0.080967
PDS5B	0.094595	0.044068	-0.20361	0.085547	0.483975	0.747076	0.128727	0.526918	0.163508	0.064258	0.083763	0.161103	0.861211	0.664312	0.707827	0.857598
FNBP1	0.17227	-0.12674	0.202383	0.245019	0.200052	0.351936	0.131101	0.066213	0.270738	-0.14429	0.299116	-0.06808	0.963977	0.172164	0.975718	0.328384
SMG1	-0.07241	0.256807	-0.20592	0.330861	0.592442	0.056056	0.124362	0.011942	0.132277	0.404431	-0.16308	0.284511	0.80957	0.997346	0.142221	0.97234
FOXM1	-0.15042	0.220418	-0.02136	-0.18857	0.268478	0.105862	0.875847	0.163968	-0.09715	0.501752	0.024589	0.293626	0.262758	0.999777	0.562942	0.974865
ZHX3	0.341448	-0.29994	0.082454	0.106598	0.009339	0.024708	0.542021	0.429983	0.369857	-0.13388	0.20906	-0.14271	0.993802	0.190299	0.91339	0.174854
ENDOD1	0.186193	0.266927	-0.10949	0.044293	0.16552	0.046735	0.417506	0.74355	0.275985	0.271289	-0.11378	0.225929	0.968312	0.965901	0.228386	0.934446
KIAA0913	0.046923	-0.06843	0.099312	-0.04974	0.72889	0.616297	0.462341	0.713298	0.084261	-0.02709	-0.09417	-0.13409	0.711151	0.429092	0.269186	0.18716
NCOA6	-0.15625	0.327942	-0.15831	-0.07268	0.245761	0.01361	0.239516	0.591059	0.028001	0.159487	-0.06681	-0.00376	0.573277	0.855137	0.331391	0.49012
NMNAT2	0.129117	-0.22004	0.300982	-0.2668	0.338453	0.1032	0.022902	0.044835	0.072225	-0.52436	0.218536	-0.38262	0.683318	9.18E-05	0.925381	0.004341
CLUAP1	-0.11823	-0.17676	0.004257	-0.18151	0.381088	0.192494	0.974927	0.176618	-0.23678	-0.20992	0.051058	-0.13471	0.056556	0.080727	0.630466	0.186035

FOXD2	0.032099	-0.11393	0.258191	-0.15198	0.812632	0.40312	0.052485	0.259079	0.068138	-0.4041	0.204052	-0.26703	0.673624	0.002675	0.910607	0.036406
ZNF609	-0.16148	-0.21639	-0.06036	-0.02467	0.23445	0.112557	0.658544	0.856783	-0.11534	-0.09826	-0.14598	0.04441	0.222641	0.257965	0.169316	0.615261
TBC1D9B	-0.02349	0.079474	-0.05521	0.071129	0.862322	0.560409	0.683355	0.599038	-0.00843	0.371573	-0.14126	0.221979	0.47782	0.994497	0.177329	0.930919
GGA2	0.05744	-0.03904	-0.0991	0.263709	0.671272	0.775108	0.463314	0.047469	-0.10575	0.408134	-0.17303	0.347443	0.24213	0.997566	0.127838	0.991006
WAPAL	-0.06745	0.252859	-0.29869	0.089499	0.618113	0.060077	0.024017	0.507932	-0.17841	0.345522	-0.22947	0.231911	0.117755	0.990661	0.064722	0.93953
SETX	0.047747	0.143968	-0.17543	0.278628	0.724317	0.289789	0.191805	0.035839	0.071712	0.242602	-0.03204	0.277685	0.682107	0.947865	0.417244	0.96915
KIAA0090	0.007154	0.229557	-0.18935	0.226124	0.957879	0.088772	0.158342	0.090767	-0.12685	0.605439	-0.30233	0.444137	0.200432	0.999996	0.021767	0.999006
CAND2	0.062447	-0.20744	0.159737	-0.23776	0.644464	0.125007	0.235263	0.074928	0.14661	-0.30025	0.170509	-0.07449	0.834538	0.02131	0.868611	0.31136
SETD1B	0.150341	-0.26771	0.29111	-0.1935	0.26431	0.04607	0.028023	0.149253	0.172076	-0.4718	0.236167	-0.3431	0.873587	0.000466	0.940839	0.009788
FOXS1	0.10416	-0.1365	0.335573	-0.21621	0.440666	0.315804	0.010715	0.106233	0.181549	-0.41257	0.281855	-0.32488	0.88638	0.002191	0.969656	0.013799
FTSJD2	0.018479	0.123225	0.055956	0.365194	0.892475	0.370098	0.682089	0.005649	-0.00633	0.351666	-0.13025	0.380628	0.483343	0.991726	0.196892	0.995467
ERP44	-0.04921	0.313725	-0.23848	0.295689	0.716239	0.018546	0.074028	0.02554	-0.05983	0.432669	-0.11175	0.39067	0.346443	0.998664	0.23244	0.996366
HECW1	0.242713	-0.10623	0.056495	0.059573	0.068888	0.435854	0.676375	0.659795	0.081693	-0.15479	0.163729	0.106018	0.70315	0.154989	0.855877	0.755887
UHRF1BP1	0.024501	0.060882	-0.13234	-0.033	0.856439	0.655787	0.326424	0.807479	0.124865	-0.20727	0.064805	-0.12428	0.795829	0.083462	0.663829	0.205275
SWAP70	0.094668	0.261334	-0.17877	0.1798	0.487674	0.053951	0.187407	0.184843	0.077129	0.381706	0.077422	0.405572	0.694791	0.995572	0.693398	0.997415
RRP1B	-0.07041	0.296846	-0.27504	0.205457	0.60608	0.027752	0.040217	0.128743	0.096184	0.452181	-0.09558	0.261587	0.73757	0.999197	0.266125	0.960461
MYCBP2	0.129913	0.295115	-0.27216	0.36777	0.335458	0.02724	0.040549	0.004886	0.246477	0.482175	-0.04495	0.379883	0.950658	0.999655	0.384681	0.995393
KIAA0564	0.131281	0.326961	-0.15429	0.109502	0.330348	0.01391	0.251824	0.417454	0.023336	0.484787	-0.1246	0.329772	0.56117	0.99968	0.207387	0.987392
FOXO1	0.188809	-0.06867	0.17736	0.021635	0.15955	0.61504	0.186881	0.873084	0.145916	-0.38775	-0.00306	-0.36068	0.830571	0.004247	0.492144	0.007467
AVL9	-0.10076	0.287384	-0.24355	0.282436	0.455806	0.031745	0.067906	0.033283	-0.1364	0.506159	-0.23575	0.341223	0.183026	0.999834	0.059492	0.989849
JMJD2C	-0.12746	0.222685	-0.14704	0.201565	0.344744	0.09902	0.275068	0.132697	-0.01101	0.299715	-0.12685	0.12829	0.471046	0.978495	0.203179	0.802248
PPRC1	-0.00648	0.102805	0.013924	0.1335	0.961835	0.450867	0.918125	0.322167	0.153497	0.249653	-0.20402	0.129128	0.845773	0.95286	0.089433	0.8038
ERC1	0.222586	0.205128	-0.08856	-0.16864	0.09607	0.129369	0.512432	0.209848	0.31236	-0.00293	0.132712	-0.12111	0.982718	0.4923	0.807593	0.211345
EXPH5	0.010767	0.359269	-0.18562	-0.17906	0.937223	0.006542	0.170796	0.186696	-0.08474	0.372111	-0.01146	0.2498	0.289982	0.994083	0.47058	0.951028
TRIM35	0.052047	-0.01587	0.085665	0.21381	0.700608	0.907569	0.526348	0.110266	0.163595	0.000342	0.057388	-0.1846	0.86134	0.5009	0.645963	0.1097
PEG10	0.011289	-0.23748	0.05893	-0.06746	0.933575	0.078009	0.663249	0.618049	0.23343	-0.35147	0.287161	-0.23034	0.940772	0.008307	0.972102	0.061773
FOXO3	-0.03544	-0.28259	0.258087	-0.11559	0.793536	0.034835	0.052584	0.391877	0.034978	-0.40228	0.158943	-0.41512	0.591255	0.00279	0.851495	0.002061
ZNF423	0.374178	-0.296	0.42803	0.203487	0.004139	0.026761	0.000896	0.128965	0.236028	-0.21594	0.250716	0.036239	0.942851	0.074742	0.951661	0.594485
ZC3H13	0.022206	-0.03676	-0.11996	0.026561	0.870953	0.789895	0.378506	0.845928	0.123937	-0.01942	0.028575	-0.01647	0.794068	0.449046	0.573906	0.456752
ARHGAP26	-0.10249	-0.13043	0.168527	0.44764	0.448073	0.33801	0.210152	0.00048	0.125134	-0.11484	0.001949	-0.24771	0.796337	0.223645	0.50507	0.048479
TTL5	-0.20911	-0.00936	-0.08986	-0.30279	0.118508	0.94542	0.506231	0.022057	-0.30491	-0.1133	-0.04979	-0.07766	0.019679	0.226721	0.372672	0.303968
SIPA1L3	-0.16649	0.129433	0.058846	-0.23736	0.215792	0.34173	0.663698	0.075426	-0.18286	0.228746	0.023523	0.003125	0.11462	0.934659	0.560235	0.508127
KIF1B	0.218701	0.172862	-0.0298	-0.00292	0.102168	0.202657	0.82584	0.982785	0.074432	0.121603	-0.07422	-0.02753	0.688502	0.789603	0.313998	0.427955
IQSEC2	-0.07746	-0.11354	0.104672	-0.25083	0.566827	0.404746	0.438408	0.05984	-0.11276	-0.21489	-0.11122	-0.30885	0.227803	0.075761	0.233504	0.01838
CDC2L6	-0.14885	0.151716	-0.32865	-0.18339	0.273571	0.268846	0.013396	0.176088	-0.06295	0.143421	-0.0596	0.075476	0.338839	0.829168	0.348674	0.690944
SARM1	-0.10588	-0.08898	0.068371	-0.04022	0.433126	0.514324	0.613315	0.76645	0.022934	-0.22798	0.115664	-0.17848	0.560126	0.063779	0.775358	0.117668
ZBTB43	-0.13458	0.371979	-0.32515	0.080806	0.322717	0.005167	0.01448	0.553832	-0.17848	0.583408	-0.37848	0.38439	0.117665	0.99999	0.00518	0.995824
AKR1B1	0.09117	0.074275	-0.14069	-0.23157	0.500007	0.586414	0.296557	0.083055	-0.34972	-0.06258	-0.15736	-0.00194	0.008601	0.339748	0.150962	0.494889
MCF2L2	0.075409	-0.16627	-0.07729	0.174004	0.577179	0.220664	0.567694	0.195493	0.130468	-0.00245	-0.01191	0.175909	0.806268	0.49355	0.469059	0.878876
TBC1D2B	0.148114	-0.14378	-0.03428	0.234565	0.275974	0.294967	0.801948	0.081841	0.131702	0.048945	0.188732	0.137988	0.805763	0.625246	0.890075	0.816987
FSTL4	-0.04134	0.150169	0.096968	-0.2216	0.760138	0.269293	0.473023	0.09759	-0.01615	0.030704	0.038344	-0.03556	0.457572	0.580261	0.598734	0.407264
MRPS27	-0.0033	0.217923	-0.25921	0.166525	0.98077	0.109973	0.053716	0.219958	-0.26782	0.612186	-0.41382	0.511809	0.035972	0.999997	0.002358	0.999861
GARNL4	0.141867	-0.31253	0.215853	0.009289	0.296958	0.020175	0.110096	0.945826	0.11679	-0.40851	0.163014	-0.36458	0.777573	0.002669	0.854807	0.006903
DDN	0.044059	-0.11417	0.240923	-0.17445	0.744856	0.402119	0.071023	0.194334	0.058432	-0.40247	0.13611	-0.31995	0.650152	0.002778	0.813675	0.015093
SPG20	0.088401	-0.04614	-0.07476	0.05236	0.513172	0.735589	0.580477	0.69889	0.222224	-0.15112	0.164989	0.048288	0.931142	0.158056	0.860614	0.625016
TNRC6B	0.03109	0.042253	-0.07225	0.089748	0.818418	0.757172	0.593297	0.506747	-0.10997	0.20641	-0.05559	0.150698	0.236031	0.913145	0.360031	0.838455
CUL9	-0.10708	0.043311	-0.0862	-0.00811	0.427894	0.751281	0.523768	0.95228	-0.20452	0.415748	-0.14384	0.25467	0.086376	0.99797	0.172917	0.956183
NFASC	0.196697	-0.14536	0.245194	-0.2099	0.142513	0.285109	0.066013	0.117096	-0.00437	-0.21591	0.067714	-0.10714	0.488507	0.074773	0.670744	0.239262
FAM179B	-0.08641	0.016323	-0.12371	-0.11531	0.522724	0.904954	0.359245	0.393037	-0.2267	-0.02347	-0.04969	0.022719	0.06488	0.438484	0.372917	0.559566
MAP3K7IP2	0.130017	0.112605	-0.12853	0.187157	0.335067	0.408643	0.340676	0.163301	0.309127	0.09204	0.161092	0.076721	0.981709	0.728525	0.854779	0.693844

HIC2	-0.061	-0.17589	0.109506	0.040325	0.652184	0.194737	0.417436	0.76584	0.102265	-0.20779	-0.07577	-0.19639	0.750569	0.082925	0.310401	0.095422
FLG	-0.08695	-0.27128	0.061822	-0.08706	0.52015	0.043135	0.647785	0.519618	0.070788	-0.37046	0.11728	-0.18546	0.679923	0.005633	0.778535	0.108609
ATP10B	-0.21318	0.436576	-0.2799	0.000934	0.11135	0.000769	0.034968	0.994496	-0.25	0.644949	-0.27135	0.299847	0.046907	0.999999	0.035689	0.978543
CLASP2	0.134812	0.134195	-0.1029	0.082329	0.317393	0.324113	0.446254	0.542636	0.29759	-0.00785	0.126874	-0.0241	0.977709	0.479352	0.796875	0.436835
CAMTA2	0.073015	-0.07359	0.208095	-0.07257	0.589361	0.589889	0.120344	0.591656	0.009609	0.003594	0.024832	-0.11674	0.525267	0.509455	0.564313	0.219879
POGZ	0.138825	-0.02099	-0.02501	-0.03466	0.303066	0.877961	0.853473	0.797995	0.099906	-0.02616	0.090725	0.030229	0.745567	0.431502	0.72331	0.579035
GLT25D2	0.370475	-0.2624	0.441817	-0.02312	0.004945	0.052948	0.000652	0.865668	0.209107	-0.34994	0.342454	-0.17308	0.915984	0.009225	0.988561	0.127775
PLXND1	0.206024	-0.26141	0.173994	0.35033	0.124162	0.051642	0.19552	0.00755	0.211796	-0.1486	0.153327	0.122759	0.921176	0.16217	0.842688	0.791821
FLI1	0.208495	-0.29279	0.134752	0.470933	0.119616	0.028537	0.317608	0.000218	0.273489	-0.30133	0.266853	-0.10645	0.967048	0.020922	0.961804	0.240683
ATG2A	-0.04178	-0.0283	0.096082	0.059735	0.757632	0.835964	0.477095	0.658931	0.057229	0.138339	0.028336	0.032422	0.647202	0.820392	0.573295	0.584687
GPATCH8	0.199574	0.149557	-0.01558	0.037867	0.136648	0.27127	0.908422	0.779739	0.343782	-0.1372	0.148863	-0.10773	0.990339	0.181614	0.835456	0.238047
RAD54L2	-0.07322	0.266816	-0.13865	0.30857	0.591755	0.048934	0.308146	0.020678	-0.12446	0.355567	-0.30794	0.226937	0.207653	0.991735	0.021	0.933081
PHF8	-0.03224	0.118517	-0.08318	-0.227	0.813518	0.388797	0.542183	0.092482	-0.26557	0.135039	-0.32154	-0.1187	0.037226	0.814548	0.015628	0.216021
JMJD3	-0.04454	-0.15176	0.144915	-0.19407	0.742163	0.264189	0.282135	0.148027	0.074404	-0.32372	0.141703	-0.36403	0.688439	0.014095	0.823431	0.006441
EPB41L3	0.187797	-0.06699	0.147085	0.326403	0.161841	0.623748	0.274914	0.013213	0.271183	-0.1874	0.362483	0.016277	0.965845	0.10618	0.992798	0.542751
SMC5	-0.02731	0.116164	-0.18965	0.207218	0.841625	0.398349	0.161522	0.125427	0.253848	0.274562	-0.04592	0.209059	0.955651	0.967596	0.382255	0.918394
N4BP3	-0.06324	-0.0545	0.03174	-0.18976	0.640236	0.689956	0.814686	0.157425	0.026579	0.010431	0.083949	-0.07809	0.569592	0.527425	0.708246	0.302971
MAST2	0.022223	0.111149	0.07888	-0.21976	0.869668	0.414767	0.559729	0.100485	-0.06571	0.221429	0.03085	0.021534	0.332191	0.930417	0.579717	0.556478
FLII	-0.02113	-0.01346	-0.04099	0.05775	0.876014	0.921564	0.762093	0.669599	-0.14149	0.28535	-0.24703	0.163984	0.174127	0.972713	0.050925	0.861919
ZZEF1	0.055835	0.224572	0.003236	0.117663	0.682743	0.099282	0.981117	0.387775	0.123253	0.001499	0.082543	0.042585	0.790057	0.503899	0.702872	0.609399
ANKLE2	-0.07409	0.398857	-0.15418	0.168076	0.583883	0.002328	0.252152	0.211393	0.016539	0.44357	-0.19349	0.239476	0.543435	0.998991	0.101419	0.945524
DCUN1D4	0.086357	-0.01198	-0.02951	0.166359	0.522998	0.930165	0.82751	0.216162	0.152858	-0.1644	0.003036	-0.05134	0.844751	0.137471	0.507895	0.367367
LRCH1	0.243063	0.056252	0.01097	0.378931	0.068477	0.680496	0.93545	0.003652	0.212726	0.088971	-0.00191	0.052671	0.922106	0.72173	0.495034	0.635944
ZC3H3	0.109106	-0.11401	0.182313	-0.14392	0.41915	0.402779	0.174671	0.285481	0.037874	0.063113	0.093248	0.02706	0.598664	0.661546	0.728821	0.570839
SSPO	0.000547	-0.17485	0.236874	-0.20011	0.996777	0.197436	0.076049	0.135585	0.178148	-0.37872	0.246166	-0.35987	0.881894	0.004724	0.948455	0.007015
NACAD	-0.12471	-0.12918	0.211096	-0.19181	0.359786	0.347226	0.118353	0.156723	0.159539	-0.41218	0.172734	-0.30512	0.855216	0.002211	0.871746	0.019609
FCHO1	-0.03966	-0.22567	0.143531	0.033903	0.769606	0.094462	0.286805	0.802305	0.04107	-0.36064	0.235854	-0.34774	0.606804	0.006906	0.940588	0.008942
MLANA	0.126515	-0.1755	0.151693	-0.40456	0.352818	0.199965	0.264406	0.001985	0.133814	-0.4247	0.10984	-0.31749	0.809578	0.00182	0.761078	0.016786
FRMD4B	0.215016	0.15203	0.013251	0.153341	0.111516	0.267843	0.922785	0.259191	0.179248	0.451763	-0.10209	0.265891	0.883358	0.999188	0.252288	0.962953
GRAMD4	-0.06665	0.142532	-0.02128	0.12351	0.622315	0.294677	0.875157	0.360017	0.051529	0.439221	-0.09455	0.296446	0.633107	0.99887	0.268362	0.977276
CIC	0.086553	-0.16045	0.172251	0.022745	0.522049	0.237476	0.200104	0.866632	0.227568	-0.22411	0.28623	-0.09844	0.93587	0.067162	0.971685	0.25756
NCDN	0.013595	0.026442	-0.05874	-0.03902	0.920052	0.846613	0.664272	0.773204	-0.04787	0.16327	-0.18509	0.162406	0.376033	0.860856	0.111759	0.859563
CLCC1	0.090714	0.149322	-0.09787	0.303857	0.502166	0.272034	0.468913	0.021569	0.232844	0.125378	0.084347	0.169394	0.940295	0.796798	0.709141	0.869795
Sep-06	-0.01624	-0.2605	0.029888	0.562122	0.904574	0.052491	0.825326	5.36E-06	0.050154	-0.11747	0.24173	0.117387	0.629682	0.218435	0.945175	0.781403
TBC1D9	-0.04358	0.260374	-0.13271	0.464903	0.749776	0.054871	0.329561	0.000306	-0.13898	0.614832	-0.20873	0.574261	0.178494	0.999997	0.084408	0.999985
FLNA	0.392042	-0.16187	0.319286	0.184179	0.002806	0.237717	0.016459	0.174197	0.389933	-0.29964	0.273804	-0.14526	0.996306	0.021534	0.96562	0.167728
WDR43	-0.00891	0.424945	-0.31116	0.245448	0.947557	0.001097	0.018472	0.065725	0.078023	0.583546	-0.20516	0.393055	0.696863	0.99999	0.088199	0.996556
SNX13	-0.0338	0.237024	-0.19136	0.066056	0.802911	0.078598	0.153889	0.625412	0.157311	0.226565	0.007831	0.171515	0.851778	0.935002	0.520358	0.872801
MAPK8IP3	0.006866	-0.08204	0.100664	-0.12853	0.959574	0.547759	0.456238	0.340658	0.096142	-0.00017	0.077173	-0.0752	0.737481	0.499546	0.692825	0.309701
GGA3	-0.11197	0.063434	-0.03429	-0.00538	0.406962	0.642322	0.800083	0.96832	-0.0788	0.226144	-0.00151	0.146833	0.301351	0.934635	0.496079	0.834911
MPRIP	0.317332	-0.03275	0.11121	0.107177	0.016161	0.81064	0.41018	0.42747	0.381341	-0.0987	0.125696	-0.1163	0.995536	0.25701	0.794672	0.22075
NUP205	0.104155	0.283354	-0.28364	0.217257	0.440687	0.034329	0.032504	0.104511	-0.07828	0.573332	-0.18494	0.444318	0.302553	0.999984	0.111948	0.999011
STAB1	0.034331	-0.17509	0.245001	0.562765	0.799859	0.196802	0.066233	5.20E-06	0.046326	0.158627	0.136259	0.363923	0.62009	0.853815	0.813938	0.993545
EFR3A	-0.02433	0.275585	-0.24859	0.2814	0.857458	0.039804	0.062232	0.033963	-0.08995	0.53198	-0.1922	0.454722	0.276086	0.999929	0.102965	0.99925
RTF1	0.04968	0.360026	-0.37756	0.026122	0.713622	0.006421	0.003787	0.847055	-0.03189	0.451352	-0.12777	0.313105	0.416674	0.999179	0.201464	0.982943
SLC35D1	0.046554	0.301438	-0.28796	0.175135	0.730939	0.023966	0.029844	0.192559	0.298436	0.383074	-0.03981	0.273366	0.978024	0.995702	0.397563	0.966985
FLNB	-0.01125	0.140034	-0.19368	0.039095	0.934417	0.30787	0.152642	0.774822	-0.02311	0.375862	-0.12929	0.252067	0.440103	0.994528	0.201458	0.952583
TTLL12	-0.14391	0.261801	-0.04622	-0.07116	0.289988	0.053508	0.735182	0.602252	-0.08279	0.618294	-0.25882	0.343155	0.292189	0.999998	0.04301	0.990221
GPD1L	-0.02511	0.33164	-0.28534	-0.08241	0.852885	0.012529	0.03144	0.542224	0.140918	0.275773	-0.11511	0.074325	0.822081	0.966645	0.228419	0.686244
FAM175B	-0.02408	0.229877	-0.32641	0.054766	0.858879	0.088316	0.013211	0.685758	-0.13354	0.385108	-0.1309	0.270955	0.188147	0.995889	0.195703	0.965725

METAP1	-0.06627	0.44977	-0.36189	0.055555	0.624311	0.000506	0.005673	0.681474	-0.1457	0.64405	-0.22675	0.421159	0.166982	0.999999	0.067085	0.99822
ZCCHC14	0.035303	0.35003	-0.22746	0.026219	0.794317	0.00818	0.088831	0.846492	-0.05513	0.666362	-0.26987	0.459526	0.357963	1	0.0365	0.999342
LPIN1	0.348329	-0.3725	0.269414	0.321666	0.007924	0.004696	0.042702	0.014689	0.367524	-0.40755	0.418073	-0.26264	0.993498	0.002728	0.997628	0.040663
Sep-08	0.256593	-0.03437	0.049	0.042924	0.054015	0.801464	0.717379	0.751217	0.116347	0.225753	-0.12518	0.242659	0.779352	0.934293	0.2063	0.947907
CEP68	0.175507	0.003229	-0.01362	-0.01838	0.195728	0.981332	0.920662	0.893018	0.108209	0.138852	-0.05892	0.174617	0.760386	0.818498	0.352	0.87436
PASK	-0.30153	-0.09895	-0.08695	-0.30611	0.022643	0.468124	0.520138	0.020572	-0.46849	-0.00959	-0.23121	-0.10723	0.000512	0.474786	0.06324	0.23907
RGL1	0.099133	-0.10355	0.104129	-0.06283	0.467283	0.451859	0.445024	0.645495	-0.03153	-0.15012	0.299623	0.084362	0.417611	0.159676	0.977227	0.711379
FLNC	0.314722	-0.19267	0.184885	0.091589	0.017107	0.154839	0.168566	0.498032	0.255064	-0.30376	0.250682	-0.19488	0.956436	0.02007	0.951638	0.09717
RFTN1	0.107621	-0.3179	0.239609	0.429833	0.425547	0.016959	0.072625	0.000847	0.163783	-0.22712	0.279366	0.0965	0.86162	0.064515	0.968451	0.738254
DIP2A	-0.11992	0.233904	-0.06505	-0.10368	0.378655	0.085657	0.63387	0.447011	-0.14291	0.499546	-0.17553	0.16067	0.171704	0.999796	0.124384	0.856941
MESDC2	0.079537	0.214097	-0.03362	0.282626	0.556451	0.113091	0.80393	0.033159	0.11263	0.329824	-0.14464	0.388588	0.77194	0.987404	0.171578	0.996194
LARP5	-0.17938	0.450027	-0.30706	0.063201	0.181829	0.000502	0.020161	0.640459	-0.20974	0.650971	-0.25822	0.467048	0.080905	1	0.043392	0.999466
RCOR1	-0.08471	0.470041	-0.2174	-0.0958	0.534752	0.000294	0.107507	0.482443	-0.06731	0.514149	-0.22841	0.307961	0.330222	0.999849	0.065636	0.980207
PHLDB1	0.293042	-0.12306	0.321408	0.196228	0.028392	0.370726	0.015717	0.147211	0.435479	-0.20868	0.322599	-0.02878	0.998756	0.081992	0.984665	0.424712
KANK1	0.461635	-0.07845	0.074948	0.168439	0.000301	0.565493	0.579519	0.210393	0.414613	0.033358	0.238448	-0.02744	0.997914	0.587096	0.942648	0.428178
FLOT2	-0.12464	0.116835	-0.11286	0.194188	0.355605	0.391149	0.403217	0.147778	-0.1645	0.555928	-0.22956	0.322954	0.137322	0.99997	0.064642	0.985706
UBXN4	-0.01455	0.266302	-0.24317	0.231166	0.914464	0.047272	0.06835	0.083609	0.03687	0.426368	-0.1097	0.356811	0.5961	0.998435	0.236569	0.992536
CYFIP1	0.072006	0.132617	-0.00783	0.205413	0.597934	0.334445	0.954325	0.128826	-0.09752	0.617599	-0.28159	0.348421	0.25955	0.999998	0.030473	0.991177
ATG4B	0.064335	0.049382	0.165034	-0.04365	0.634467	0.717783	0.219894	0.747121	-0.02883	0.205851	-0.03608	-0.00704	0.424576	0.915043	0.406989	0.481472
GANAB	-0.03152	0.172593	-0.12553	0.349578	0.817619	0.207647	0.35659	0.008269	-0.02967	0.500683	-0.23993	0.370303	0.422417	0.999803	0.056202	0.994348
FBXL7	-0.08644	0.115382	-0.10451	-0.20001	0.522597	0.397108	0.439123	0.135785	0.069022	0.161319	-0.00023	0.180817	0.675729	0.857925	0.499409	0.885425
MDN1	-0.01258	0.0682	-0.19077	0.048343	0.926697	0.620781	0.159032	0.723478	-0.16743	0.226983	-0.27711	0.217134	0.133022	0.935364	0.032671	0.926402
FAM120A	-0.20246	0.17496	-0.1916	-0.06861	0.134533	0.201384	0.157189	0.615347	-0.24759	0.416249	-0.29003	0.299736	0.04856	0.997994	0.026642	0.978502
FAF2	0.04843	0.348651	-0.18398	0.038898	0.720533	0.008453	0.170692	0.7739	-0.08983	0.466664	-0.11175	0.415192	0.27635	0.999461	0.232444	0.997943
PSME4	-0.12847	0.349478	-0.2326	0.189839	0.340913	0.008288	0.081655	0.157244	0.078445	0.410997	-0.19434	0.2478	0.697841	0.997726	0.100414	0.951585
KIAA0182	-0.16175	-0.13464	0.073876	-0.32075	0.23367	0.327066	0.588433	0.015943	-0.25812	-0.17272	0.094996	-0.24413	0.041639	0.125516	0.73261	0.051022
ATP11B	-0.04526	0.403119	-0.32413	0.131879	0.738169	0.002067	0.013905	0.328132	0.091081	0.39819	-0.1647	0.281651	0.726411	0.996934	0.139808	0.971037
FAM168A	0.236128	-0.25376	0.345135	0.039133	0.077006	0.059135	0.008556	0.772571	0.236606	-0.4468	0.278384	-0.34348	0.943306	0.000927	0.967965	0.009717
PMPCA	-0.13859	0.223845	-0.22444	0.123132	0.303901	0.097229	0.093262	0.361501	-0.18231	0.534777	-0.40521	0.310408	0.112632	0.999936	0.002879	0.982114
ARL6IP1	-0.03961	0.379045	-0.37976	0.115735	0.769861	0.003966	0.003573	0.391274	-0.08983	0.53976	-0.17572	0.371684	0.276367	0.999946	0.124125	0.99451
ACSBG1	-0.14594	-0.22714	0.115741	-0.36218	0.287708	0.098585	0.400083	0.006583	-0.26234	-0.43542	0.031257	-0.35306	0.039092	0.001246	0.580756	0.008048
PLEKHM2	-0.03334	-0.08906	-0.08379	0.079075	0.805498	0.513946	0.535457	0.558755	-0.10355	0.137716	-0.1454	0.084007	0.246736	0.819297	0.170301	0.710574
SYT11	0.298286	-0.17795	0.154787	0.395342	0.024216	0.189468	0.250281	0.002337	0.364601	-0.29032	0.205738	-0.01047	0.993634	0.025159	0.912427	0.472483
MLC1	-0.025	0.132134	0.140785	-0.04013	0.85352	0.331668	0.296224	0.766963	0.078532	-0.19599	0.097578	-0.2267	0.69804	0.095885	0.738159	0.064877
FLT1	0.280332	-0.10025	0.166326	0.434377	0.034676	0.462255	0.216255	0.000735	0.251301	-0.18726	0.162756	0.211764	0.953972	0.106358	0.85729	0.921144
JMJD6	0.015371	-0.23605	0.126443	0.111919	0.909648	0.079869	0.348632	0.407185	0.193298	-0.42461	0.071217	-0.36322	0.900972	0.001635	0.678994	0.006549
ZC3H4	-0.12824	-0.07022	0.118856	-0.15334	0.341782	0.607079	0.378539	0.254794	-0.24669	0.005335	0.022763	-0.02241	0.049192	0.514035	0.558994	0.441249
RRS1	-0.25824	0.042697	-0.31587	0.128738	0.052441	0.754697	0.016687	0.339884	-0.17335	0.32862	-0.20683	0.279662	0.124638	0.98712	0.086412	0.970103
SULF1	0.171585	-0.12356	0.130414	0.409679	0.201876	0.364285	0.33358	0.001553	0.134905	0.11268	0.15032	0.325733	0.814308	0.772039	0.837839	0.986415
XPO6	0.043208	0.095464	-0.10787	0.355654	0.751857	0.488118	0.428737	0.007145	-0.07048	0.234986	-0.13153	0.058076	0.320811	0.942024	0.194541	0.649279
BAT2D1	-0.04428	0.33473	-0.28599	0.310114	0.743636	0.011682	0.031036	0.018893	0.051266	0.484174	-0.15013	0.419377	0.632454	0.999674	0.162476	0.998141
TBC1D1	0.171594	-0.27618	0.214961	0.008506	0.206038	0.041248	0.111609	0.950387	0.371423	-0.46926	0.319089	-0.18462	0.99448	0.000501	0.98368	0.109675
ZFR2	-0.03342	-0.14901	0.223792	-0.1689	0.805072	0.273035	0.094237	0.209133	0.101239	-0.43261	0.179371	-0.34912	0.748401	0.001338	0.880798	0.008702
NBEAL2	-0.14378	-0.03231	-0.00603	-0.07755	0.29043	0.814863	0.964844	0.56996	-0.1854	0.3709	-0.21466	0.099406	0.108687	0.994419	0.078383	0.7445
FBXO28	-0.02187	0.341741	-0.27839	0.150994	0.871695	0.009943	0.036007	0.262218	-0.03565	0.54495	-0.1615	0.34182	0.407017	0.999955	0.144602	0.989965
FLT3	-0.03748	-0.25585	0.073977	0.040849	0.783905	0.059383	0.587921	0.765004	-0.12308	-0.14856	0.124725	-0.10221	0.207568	0.16223	0.792846	0.249552
DTX4	-0.06602	-0.24719	0.221047	0.028942	0.625619	0.066259	0.098451	0.830772	-0.1861	-0.07255	-0.04902	-0.05948	0.107795	0.315908	0.374564	0.347278
RHOBTB2	0.158128	-0.03687	0.216947	-0.04655	0.240074	0.787317	0.105018	0.730943	0.334193	-0.08461	0.147973	-0.17005	0.988394	0.28805	0.833991	0.129273
RRP12	-0.21335	0.10644	-0.05784	-0.12582	0.111058	0.434932	0.669094	0.351027	-0.4351	0.219627	-0.41576	0.055222	0.001256	0.928752	0.002253	0.642259
SYNE2	-0.08739	0.082041	-0.11859	-0.00743	0.518024	0.547768	0.379614	0.956234	-0.08361	0.142018	-0.04692	0.130758	0.290332	0.826772	0.379778	0.806801

NUP210	-0.21669	0.003946	-0.14556	0.348565	0.112047	0.977406	0.288978	0.009107	-0.36646	0.320216	-0.18977	0.161013	0.006125	0.984979	0.105916	0.857462
PLCL2	0.031118	-0.29783	0.033351	0.085573	0.818259	0.025789	0.805461	0.526791	-0.17174	-0.22879	-0.00737	-0.10897	0.12688	0.063083	0.480831	0.235491
ARHGFE9	0.127612	0.091998	-0.05977	0.036958	0.344158	0.500088	0.658726	0.784903	0.198931	0.052467	0.159156	0.085216	0.907477	0.635438	0.851822	0.71331
FLT3LG	0.085679	-0.36871	0.342431	0.038418	0.526277	0.005171	0.009124	0.776619	0.177599	-0.41652	0.29211	-0.2908	0.881159	0.001992	0.974238	0.024961
VPS13A	-0.0163	0.241881	-0.19392	0.022009	0.904239	0.072492	0.148358	0.870908	0.044497	0.250799	-0.04119	0.150927	0.615482	0.953636	0.3941	0.841639
KIAA0746	-0.29117	0.311965	-0.11863	0.451659	0.029468	0.020414	0.383865	0.000476	-0.31151	0.409326	-0.20191	0.373838	0.017542	0.997634	0.091743	0.994755
TBC1D12	0.044559	0.065871	0.001858	0.080899	0.744356	0.632784	0.989159	0.553376	0.156422	-0.30954	0.001134	-0.31622	0.850392	0.018159	0.50295	0.016139
EXOC6B	0.196127	0.159382	-0.24045	0.114799	0.143697	0.240667	0.071601	0.395144	0.096608	0.339377	-0.1736	0.332347	0.738488	0.989483	0.127049	0.987984
DNAJC9	-0.22812	-0.02378	-0.21801	0.02302	0.090842	0.863203	0.106505	0.866266	-0.10376	0.21479	-0.3441	0.07157	0.246288	0.924139	0.01032	0.681771
SIK2	0.298746	0.012925	0.090783	0.127955	0.023987	0.924677	0.501838	0.342853	0.394092	0.001418	-0.00476	-0.02835	0.996635	0.503731	0.487616	0.425808
PLCB1	0.455356	-0.35674	0.275835	0.075651	0.000372	0.006958	0.037815	0.575958	0.482617	-0.43396	0.284939	-0.13735	0.999659	0.001293	0.971098	0.181352
ARC	-0.01051	-0.1057	0.260321	-0.20649	0.938132	0.438134	0.0505	0.1233	0.124662	-0.29826	0.280713	-0.30513	0.795445	0.022043	0.969108	0.019605
PHLPP	-0.11112	0.359324	-0.20795	-0.43877	0.410574	0.006533	0.120607	0.00064	-0.23631	0.175215	-0.18324	-0.08101	0.056929	0.877929	0.114134	0.296263
FLT4	0.119605	-0.23807	0.294483	0.226108	0.375521	0.077249	0.026175	0.090792	0.217637	-0.24418	0.294842	-0.08995	0.926881	0.050986	0.97536	0.276088
KIAA0922	0.030335	0.108259	-0.07186	0.432742	0.822758	0.427077	0.595269	0.000774	0.245842	-0.03845	0.079196	0.040362	0.950209	0.399871	0.697465	0.605006
PACS2	-0.01386	-0.1238	0.255639	-0.09566	0.918473	0.36333	0.054946	0.479042	-0.09777	-0.16549	0.058062	-0.22876	0.259005	0.135857	0.647601	0.063112
COBL	-0.20076	-0.05341	-0.02563	-0.45165	0.137918	0.698555	0.851272	0.000476	-0.11565	-0.40855	0.043639	-0.44321	0.222022	0.00241	0.612038	0.001019
ANKRD28	-0.11397	0.260626	-0.2407	-0.01044	0.398578	0.052376	0.071288	0.938572	-0.16076	0.417434	-0.16609	0.259872	0.142924	0.998051	0.137762	0.959432
PDS5A	0.007246	0.313561	-0.30666	0.23385	0.957339	0.018611	0.020332	0.079984	0.07166	0.56517	-0.18281	0.394008	0.681984	0.999979	0.114685	0.996629
ASTN2	0.095899	-0.42665	0.207261	-0.41513	0.477942	0.001042	0.12187	0.001323	-0.05026	-0.53945	0.094856	-0.59753	0.370064	5.47E-05	0.732309	5.82E-06
BOP1	0.044926	-0.07693	0.128738	-0.02838	0.740014	0.573055	0.339882	0.833995	0.232379	-0.06077	0.018509	-0.12076	0.939914	0.344143	0.548027	0.212015
KIAA0556	-0.20826	-0.07973	-0.06851	-0.43999	0.120044	0.55916	0.612609	0.000615	-0.37644	-0.20541	-0.08324	-0.23704	0.004961	0.085421	0.293358	0.056352
RPRD2	0.04179	0.131213	-0.14624	-0.05746	0.757588	0.335078	0.277709	0.671176	0.034873	0.241516	0.082896	0.167651	0.590986	0.947061	0.705873	0.867291
ATP11A	-0.10543	0.319812	-0.14496	0.293205	0.435076	0.016272	0.281999	0.026863	-0.04947	0.523329	-0.18026	0.359032	0.372025	0.999905	0.118023	0.992865
KIAA1024	0.177106	-0.11919	0.244946	-0.20577	0.187521	0.381586	0.066296	0.124645	0.175223	-0.33476	0.220371	-0.29261	0.87794	0.011483	0.927116	0.024224
OTUD3	-0.0973	0.035927	-0.10112	-0.2207	0.475589	0.794553	0.458351	0.102139	-0.08058	-0.02117	0.007131	-0.06525	0.297251	0.444481	0.518541	0.33329
ANKRD12	0.041024	0.091444	-0.16298	0.327363	0.761897	0.502684	0.225764	0.01293	0.165668	0.150755	-0.01707	0.138737	0.864403	0.84136	0.4557	0.821088
RP1-21O18	-0.19361	-0.12011	0.011039	-0.30384	0.149017	0.377916	0.935044	0.021579	-0.30871	-0.04452	-0.04636	-0.05222	0.018423	0.38447	0.381177	0.365181
KIAA0802	0.295642	-0.05871	0.11874	-0.01281	0.025564	0.667346	0.379007	0.924627	0.281259	-0.12671	0.203367	-0.07587	0.970855	0.200699	0.909859	0.308135
SCFD1	-0.05562	0.162327	-0.16814	0.224078	0.681104	0.231971	0.211216	0.093806	0.016332	0.288181	-0.11263	0.29739	0.542895	0.973942	0.230673	0.977633
DENND5A	0.163031	-0.13235	0.155602	0.448913	0.229926	0.335427	0.252148	0.00052	0.303493	-0.37291	0.232986	-0.05043	0.979837	0.00535	0.938246	0.369631
DDHD2	0.181388	0.0699	-0.10797	0.196236	0.176906	0.608714	0.424053	0.14347	0.22421	0.060564	0.106842	0.087608	0.932929	0.655358	0.757584	0.718688
FMO1	0.113539	-0.21674	0.126669	0.106558	0.400384	0.108601	0.347766	0.430158	0.036597	-0.22142	0.102327	0.029942	0.595402	0.069595	0.748212	0.578293
CAMTA1	0.350293	-0.19512	0.384512	0.018044	0.007556	0.149558	0.003146	0.894017	0.182001	-0.45115	0.170202	-0.29949	0.886968	0.000825	0.868173	0.021588
HISPPD1	0.08812	0.155056	-0.11523	0.104005	0.514515	0.253837	0.393371	0.441351	0.27663	0.18218	0.088399	0.160493	0.968632	0.8872	0.71818	0.856672
MCF2L	0.090641	0.034104	0.179682	-0.15311	0.502509	0.802955	0.181082	0.255509	0.066858	0.071667	0.008705	0.04856	0.670563	0.682002	0.52263	0.625696
ZC3H7B	0.057246	-0.07117	0.050474	0.174612	0.672318	0.602186	0.709248	0.193911	0.088624	0.265235	-0.15221	0.16824	0.720958	0.962582	0.1591	0.868141
EXOC7	-0.09978	-0.0453	-0.17607	-0.17254	0.464367	0.742598	0.194275	0.203509	-0.41763	0.227288	-0.34992	0.018242	0.00194	0.935629	0.009228	0.547888
LPHN2	0.328267	0.052324	-0.02091	0.360926	0.012668	0.701726	0.877302	0.005812	0.216665	0.361093	-0.0007	0.482761	0.925953	0.993158	0.498188	0.999661
DNMBP	-0.19605	0.386614	-0.23195	-0.23725	0.143858	0.003248	0.082534	0.075569	-0.22523	0.476428	-0.18878	0.327009	0.066168	0.999592	0.107125	0.98673
MGA	0.115322	0.273274	-0.19004	0.30567	0.397356	0.043517	0.16065	0.021965	0.151429	0.355434	0.019069	0.353466	0.842451	0.992326	0.549474	0.992017
FMO2	0.133636	-0.15648	-0.02607	0.251175	0.32167	0.24946	0.847351	0.059477	0.10025	0.118654	0.047551	0.257461	0.7463	0.783885	0.621788	0.957951
TSPYL4	-0.18588	-0.11123	-0.03889	-0.41963	0.166256	0.414409	0.773955	0.001157	-0.10423	-0.39505	0.147237	-0.35655	0.245312	0.003293	0.832771	0.007503
CAMSAP1L	0.177385	0.232459	-0.18991	0.204685	0.186817	0.084701	0.157085	0.12668	0.424312	0.252006	0.081521	0.181009	0.998353	0.954442	0.70276	0.885676
C3orf63	0.007878	0.203873	-0.22683	0.172992	0.953619	0.131782	0.089742	0.198146	0.026716	0.387876	-0.01963	0.350943	0.569947	0.996133	0.449086	0.991606
CLEC16A	-0.19846	0.013646	0.11328	0.092943	0.138894	0.920489	0.401469	0.491672	-0.0998	-0.01736	-0.07224	0.015193	0.254661	0.454413	0.318617	0.539913
POFUT2	0.004219	-0.31282	0.108694	-0.30123	0.97538	0.020055	0.42521	0.02407	0.083875	-0.36919	0.027861	-0.35721	0.710276	0.005785	0.57208	0.007404
KLHL18	-0.14971	0.157855	-0.27027	0.21558	0.26635	0.24526	0.042023	0.10728	0.084269	0.247331	-0.17822	0.078145	0.708966	0.949291	0.123543	0.695059
KIAA0664	-0.07231	0.204346	-0.09941	0.024272	0.592972	0.130869	0.461877	0.857769	-0.10928	0.511641	-0.24343	0.291111	0.234859	0.999861	0.05355	0.975166
NUP160	0.130933	0.209469	-0.20922	0.271542	0.331643	0.121283	0.118303	0.041029	0.027036	0.591872	-0.19961	0.401893	0.570777	0.999993	0.094323	0.997185

FMO3	-0.05753	-0.01227	-0.06093	0.219788	0.670766	0.928506	0.652535	0.100433	-0.27217	-0.04338	0.027804	0.117798	0.035246	0.38862	0.571091	0.779548
KIAA0774	-0.01805	-0.10833	0.149932	-0.23143	0.893973	0.426793	0.265628	0.083245	-0.06836	-0.36634	0.088948	-0.25928	0.325853	0.00614	0.719394	0.040929
CSTF2T	-0.25728	0.084423	-0.35915	0.145594	0.053352	0.536167	0.006076	0.279861	-0.37483	0.420689	-0.24969	0.262944	0.005135	0.9982	0.049051	0.961261
LPHN3	0.324523	0.022463	-0.14229	0.031652	0.013783	0.869476	0.291053	0.815191	0.336151	-0.35408	0.350201	-0.2065	0.988816	0.007886	0.990822	0.084275
WWC1	-0.15156	-0.3325	0.072781	-0.26042	0.260412	0.012288	0.590559	0.05041	-0.17371	-0.30832	-0.02368	-0.32514	0.124135	0.01855	0.438654	0.013735
AGTPBP1	-0.11383	0.141517	-0.23734	0.016333	0.399188	0.298163	0.075456	0.904019	-0.10261	0.019081	-0.0911	0.047296	0.248701	0.550081	0.275879	0.622526
IQCE	-0.19568	-0.27886	0.10649	-0.34141	0.144636	0.037414	0.430452	0.009347	-0.31027	-0.35297	0.011084	-0.26831	0.017928	0.008062	0.528804	0.035702
FMO4	0.036625	0.057538	-0.07667	-0.06658	0.786795	0.673599	0.570798	0.622686	-0.16538	0.164957	0.081674	0.167602	0.136017	0.863357	0.703109	0.86722
FBXW11	0.061431	0.22806	-0.19806	0.210742	0.649865	0.09093	0.139705	0.115592	0.084137	0.31033	-0.09122	0.216678	0.710869	0.98209	0.275603	0.925965
SMG6	-0.01636	0.175818	-0.14021	-0.09093	0.903861	0.194925	0.298218	0.501135	-0.07276	0.221157	-0.14472	0.102466	0.315421	0.930168	0.171438	0.750993
ANKS1A	-0.16936	-0.09658	0.011646	-0.17715	0.212098	0.483015	0.932109	0.191514	-0.27087	-0.04403	0.024493	-0.01518	0.034322	0.385704	0.563443	0.460132
MGRN1	-0.06904	-0.09089	0.137181	0.045259	0.609841	0.505299	0.308883	0.738156	0.156834	-0.2014	0.231906	-0.2374	0.848225	0.092316	0.935081	0.058181
BICD2	-0.0437	0.081855	-0.15116	-0.00383	0.74912	0.552438	0.266109	0.977658	-0.209	0.481289	-0.29096	0.219536	0.081671	0.999646	0.026246	0.928668
FMO5	0.024484	-0.16152	0.030354	-0.36416	0.856538	0.234333	0.822647	0.005357	0.109954	-0.40291	0.246122	-0.31127	0.76652	0.00275	0.948423	0.017618
ATMIN	0.080078	0.454851	-0.07086	0.10885	0.553763	0.000428	0.600451	0.420248	0.146222	0.38413	-0.25315	0.271792	0.833891	0.9958	0.046691	0.966167
EHBP1	0.048651	0.309679	-0.19686	0.220771	0.71931	0.020202	0.142183	0.098884	0.242919	0.370142	0.037237	0.227858	0.948098	0.994329	0.595938	0.93612
WSCD1	-0.0525	-0.08131	0.193671	-0.1223	0.698115	0.551356	0.148881	0.364764	0.074842	-0.28746	0.133254	-0.21597	0.689463	0.026368	0.808571	0.074715
KIF13B	-0.11706	0.236395	-0.13922	0.075023	0.385819	0.079417	0.301681	0.57914	-0.13486	0.383749	-0.143	0.16066	0.185767	0.995765	0.174346	0.856925
UBR2	0.02899	0.096896	-0.12853	0.121948	0.830495	0.477444	0.340652	0.36617	0.066631	0.131273	0.010412	0.11261	0.670018	0.807743	0.527059	0.771898
ACSL6	-0.0337	-0.19368	0.137473	-0.0883	0.803478	0.152633	0.307846	0.513643	0.15797	-0.46856	0.156361	-0.39389	0.8528	0.000511	0.847487	0.00338
TMEM194/	0.040038	0.203221	-0.19483	0.076056	0.767456	0.133047	0.146413	0.573906	-0.12663	0.365109	-0.06754	0.268333	0.200846	0.993701	0.329658	0.964311
FKBP15	-0.03466	0.061195	-0.13414	0.004924	0.798005	0.65413	0.319825	0.971001	-0.22528	0.179988	-0.20568	0.016437	0.066123	0.884337	0.087636	0.54317
ICOSLG	0.036272	-0.05908	0.070647	0.063166	0.790701	0.668339	0.604881	0.643726	0.054813	-0.02729	0.004446	0.073985	0.64125	0.428565	0.511561	0.687455
SIN3B	0.003115	-0.08447	0.04837	0.050137	0.981655	0.53594	0.720862	0.711106	0.110767	0.046125	-0.0712	-0.07998	0.768173	0.619584	0.321041	0.298625
FMOD	0.498081	-0.20108	0.287786	0.111803	9.37E-05	0.141	0.031496	0.41201	0.625467	-0.31736	0.304702	-0.15905	0.999998	0.015812	0.979083	0.145538
NCAPD3	-0.14701	0.314678	-0.17207	-0.01246	0.279611	0.019289	0.204753	0.927395	-0.21954	0.614766	-0.37963	0.280397	0.071326	0.999997	0.005054	0.970451
DMXL2	-0.11636	-0.05011	-0.06213	-0.02028	0.388701	0.713787	0.646165	0.880956	-0.06406	-0.24406	0.068508	-0.14203	0.336173	0.051073	0.672621	0.173199
C22orf9	-0.00375	0.047296	-0.00465	0.243028	0.977893	0.729235	0.972606	0.068518	-0.05243	0.452526	-0.10939	0.322042	0.364661	0.999205	0.237213	0.985467
SATB2	0.216691	0.024843	-0.01755	-0.10145	0.105439	0.855784	0.896921	0.452733	0.201149	-0.02567	0.005464	-0.21184	0.907409	0.433531	0.514039	0.081209
SLC9A8	-0.29077	0.301955	-0.17734	0.060304	0.028214	0.023714	0.186933	0.655884	-0.21144	0.586963	-0.23789	0.367674	0.079181	0.999991	0.057791	0.994028
CUX2	-0.02678	-0.11072	0.228435	-0.20776	0.843245	0.416585	0.087429	0.120955	0.025795	-0.42122	0.163461	-0.31464	0.56756	0.001777	0.858344	0.016599
DNAJC13	0.123093	0.284493	-0.15282	0.21684	0.361654	0.033582	0.256424	0.105194	0.140326	0.440214	-0.01962	0.346535	0.823856	0.998899	0.449096	0.990844
ZCCHC11	0.048083	0.140064	-0.13935	0.114882	0.722452	0.303202	0.301225	0.394799	0.098169	0.099447	0.097568	0.18209	0.741851	0.744587	0.738137	0.887083
FMR1	0.00891	0.106962	-0.23473	0.145436	0.947554	0.432669	0.078829	0.28039	-0.06107	0.332699	-0.02586	0.365471	0.343399	0.988063	0.43305	0.993748
TRIM2	-0.09654	0.254729	-0.16915	-0.07768	0.47501	0.058145	0.208446	0.565726	-0.14847	0.338235	-0.09899	0.186873	0.16237	0.989251	0.258831	0.893167
RPGRIP1L	-0.10625	-0.05229	-0.03369	-0.19485	0.431507	0.701893	0.803539	0.146367	-0.22701	-0.18599	0.032735	-0.09829	0.064612	0.107941	0.584521	0.257884
MAN2B2	0.014326	-0.01232	0.022046	0.005968	0.915766	0.928183	0.870696	0.964858	-0.01326	0.142094	-0.07943	0.090452	0.46516	0.826903	0.302001	0.725019
KIAA1033	0.024539	0.107549	-0.15309	0.278309	0.856218	0.430134	0.255588	0.036061	0.214662	0.179392	0.044598	0.174456	0.924014	0.88355	0.614435	0.876889
USP22	-0.0014	-0.02524	-0.08463	0.057621	0.991744	0.853481	0.531378	0.670292	-0.13013	0.430569	-0.26807	0.318939	0.194351	0.998591	0.037507	0.984629
NEDD4L	-0.22153	0.07298	-0.06646	-0.20667	0.100826	0.596454	0.62652	0.126451	-0.11096	-0.05049	-0.04133	-0.10402	0.23143	0.369477	0.39375	0.245742
SASH1	0.319818	0.167166	-0.11468	0.030126	0.01627	0.222514	0.400003	0.825556	0.417345	0.264256	0.23949	0.163796	0.998047	0.962022	0.943459	0.861639
TBC1D30	0.071823	0.021143	0.166355	0.01027	0.595471	0.877708	0.216174	0.939562	0.185333	0.031236	-0.0263	-0.07238	0.891234	0.581632	0.431911	0.316307
TTC28	0.290804	-0.25249	0.228901	0.365262	0.028196	0.06046	0.086768	0.005209	0.29318	-0.12601	0.161915	0.074137	0.976003	0.202018	0.856024	0.687813
CLASP1	0.04694	0.030596	-0.00846	0.024728	0.728796	0.822875	0.950212	0.855126	0.109695	-0.00756	0.076827	0.089381	0.76599	0.480126	0.69203	0.722643
DPY19L1	-0.13263	0.42029	-0.28106	-0.01443	0.325343	0.00126	0.034191	0.915154	-0.04989	0.345409	-0.03783	0.277346	0.372422	0.989935	0.403682	0.967445
KIAA0467	0.021369	-0.03432	0.170135	-0.01617	0.875778	0.803562	0.209979	0.905844	0.083957	-0.01734	0.142118	-0.12562	0.708264	0.454983	0.821278	0.205479
WDR7	0.005033	0.163165	-0.18653	0.187381	0.970358	0.22954	0.16475	0.162789	-0.13067	0.249899	-0.16199	0.160656	0.193362	0.953027	0.143865	0.85692
SYNM	0.425329	-0.26612	0.446858	0.025463	0.001084	0.049551	0.000555	0.852224	0.390695	-0.44368	0.35196	-0.27602	0.996368	0.001006	0.99113	0.031672
PHF15	0.097237	-0.16422	0.179534	0.23194	0.47179	0.226497	0.181447	0.082551	0.397564	-0.05258	0.209046	0.014241	0.99689	0.36428	0.915921	0.537419
VPS39	0.057242	0.165321	-0.08601	0.07916	0.675184	0.227736	0.528511	0.561962	-0.02754	0.179774	0.008386	0.027321	0.427928	0.884055	0.521802	0.571516

AFF2	0.019332	-0.25804	0.184826	-0.188	0.8865	0.054848	0.168704	0.161374	0.29624	-0.44564	0.065292	-0.42566	0.977197	0.000956	0.66499	0.001593
DNAJC16	-0.15442	0.240093	-0.22223	-0.14066	0.251422	0.074694	0.096611	0.29665	-0.26664	0.262471	-0.15067	0.140635	0.036628	0.960984	0.161589	0.824391
FAM62A	0.222522	-0.02495	-0.06181	0.209696	0.096169	0.855157	0.64785	0.117451	0.001487	0.352933	-0.1466	0.355399	0.503912	0.991932	0.168293	0.992321
SYNE1	-0.0065	-0.26313	0.112569	-0.20699	0.961732	0.050076	0.404449	0.122376	-0.06136	-0.46417	0.182189	-0.30436	0.342716	0.000578	0.884508	0.019865
SMCHD1	0.030011	-0.04807	-0.04354	0.37931	0.824617	0.724983	0.747765	0.003616	0.200822	0.024771	0.085912	0.068682	0.909591	0.564901	0.712648	0.67492
DOCK9	0.116152	0.299829	-0.21699	0.294588	0.389557	0.024766	0.104943	0.026119	0.139467	0.541771	-0.06585	0.40827	0.822363	0.99995	0.333689	0.997574
KIAA1045	0.038231	-0.04974	0.128389	-0.11932	0.779673	0.718361	0.345674	0.381101	0.026179	-0.28429	0.098819	-0.35541	0.568556	0.027759	0.740804	0.007678
FN1	0.442067	-0.3152	0.280867	0.20243	0.000647	0.019078	0.036009	0.134597	0.506917	-0.36136	0.446106	-0.11686	0.999838	0.006804	0.998935	0.219639
SR140	0.069725	0.105029	-0.15623	0.110088	0.606291	0.441077	0.245823	0.414951	0.212791	0.219294	0.090154	0.198828	0.92217	0.928442	0.722055	0.907361
KIAA0323	-0.04194	-0.07746	0.102515	0.095424	0.756714	0.570431	0.447955	0.480132	-0.00566	0.064928	-0.18771	-0.00734	0.485109	0.665928	0.108458	0.480695
UBR4	-0.07872	0.311179	-0.25322	0.251549	0.567801	0.022	0.062141	0.06394	0.053839	0.449432	-0.01143	0.287943	0.637302	0.999023	0.470645	0.972449
UNC84A	-0.15547	0.183342	-0.20978	-0.03472	0.252543	0.18029	0.120723	0.799455	-0.18007	0.168846	-0.16456	0.085801	0.115559	0.869011	0.140028	0.714631
KIAA0841	-0.04759	-0.07058	0.268047	-0.12076	0.725182	0.605214	0.043807	0.370876	0.136487	-0.01136	0.118885	-0.14015	0.817125	0.470137	0.781666	0.176458
VPS8	0.045058	0.220246	-0.22757	0.100433	0.739276	0.102871	0.088661	0.45728	0.022134	0.374647	-0.09586	0.268825	0.558043	0.994845	0.265529	0.96458
ANGEL1	0.045349	-0.03492	0.125402	0.292798	0.73765	0.798319	0.352649	0.027085	-0.03934	0.162731	-0.08247	0.242362	0.397597	0.860051	0.295095	0.947688
USP24	0.067923	0.125451	-0.18059	0.176541	0.615651	0.356913	0.178855	0.188957	0.113771	0.225539	-0.03107	0.170672	0.77423	0.934105	0.419716	0.871611
FNBP4	-0.03312	0.258512	-0.05619	0.355481	0.806765	0.054388	0.678034	0.006655	0.19343	0.191644	-0.17026	0.157592	0.901128	0.899002	0.131746	0.852214
ZNF629	0.023048	-0.07817	0.274452	-0.30509	0.864873	0.566899	0.038827	0.021019	0.068503	-0.01359	0.046134	-0.2758	0.674493	0.464298	0.618266	0.03178
PSD3	-0.0103	0.365248	-0.14918	-0.22466	0.939928	0.005641	0.272504	0.095989	-0.38991	0.570219	-0.2025	0.34483	0.003696	0.999982	0.091092	0.990534
OBSL1	0.144683	-0.20101	0.213631	-0.13824	0.282914	0.137412	0.110572	0.305117	0.252871	-0.3406	0.219659	-0.21008	0.955013	0.010273	0.926447	0.080562
ARHGEF12	0.100494	0.329013	-0.26777	0.160483	0.457005	0.013289	0.044034	0.233055	0.131467	0.456079	-0.13242	0.352754	0.808097	0.999277	0.192931	0.991903
KIAA0895	-0.17558	-0.0898	-0.08482	-0.30481	0.191426	0.510429	0.530444	0.021142	-0.2002	-0.34027	0.108765	-0.26633	0.091104	0.010339	0.76152	0.036801
LARP1	0.004991	0.136375	0.046988	-0.01202	0.970605	0.316243	0.728528	0.929307	-0.05176	0.31579	-0.09409	0.157943	0.366328	0.983737	0.269357	0.852759
PPP1R13B	-0.08192	0.383334	-0.16013	-0.23481	0.544643	0.003543	0.234096	0.078713	-0.04036	0.400439	-0.11304	0.21594	0.394995	0.997089	0.229843	0.925255
PUM2	-0.05355	0.155463	-0.26833	0.110689	0.692403	0.252578	0.043576	0.412393	-0.01654	0.299404	-0.19151	0.231276	0.456572	0.978381	0.103791	0.939005
ARHGEF18	-0.09248	-0.13689	-0.04656	-0.16383	0.493827	0.314384	0.730912	0.223321	-0.18065	-0.11703	-0.08833	-0.22483	0.114788	0.219307	0.281973	0.066517
TENC1	0.329693	-0.27799	0.305318	0.162994	0.012265	0.038039	0.020917	0.225729	0.535383	-0.29185	0.31977	-0.14577	0.999937	0.024532	0.983875	0.16687
CRTC1	-0.06063	-0.2077	0.247597	-0.00437	0.654129	0.124538	0.06332	0.97424	-0.05828	-0.20016	0.108806	-0.15763	0.350228	0.091147	0.761604	0.147722
KIAA0776	0.068034	0.284513	-0.26364	0.112948	0.615068	0.033568	0.047529	0.402856	0.036968	0.40342	-0.04968	0.322968	0.596351	0.997283	0.372946	0.98571
RRP8	-0.20043	0.121268	-0.27779	0.327417	0.134934	0.373298	0.03642	0.012914	-0.22714	0.528202	-0.43038	0.346378	0.064504	0.999919	0.001584	0.990816
KIAA0947	0.092511	0.152851	-0.24356	0.266112	0.493697	0.260735	0.067892	0.045411	0.226535	0.254896	-0.06691	0.16244	0.934975	0.956328	0.331167	0.859613
SRGAP2	0.012538	0.015456	-0.20078	-0.40421	0.926246	0.909981	0.134253	0.001818	-0.08624	0.177242	0.013314	-0.02189	0.284371	0.880679	0.534587	0.442603
SMG5	-0.22898	0.171294	-0.15144	-0.0439	0.086655	0.206846	0.260793	0.745733	-0.22454	0.51199	-0.34753	0.258185	0.06678	0.999862	0.009664	0.9584
AHCYL2	-0.17281	0.337475	-0.22858	0.187098	0.198628	0.010972	0.087223	0.163436	-0.20086	0.565937	-0.18705	0.430594	0.090369	0.999979	0.109285	0.998592
KIAA0892	-0.05077	0.020515	0.081715	0.06774	0.710184	0.881817	0.549367	0.619853	-0.04469	0.097914	-0.17228	-0.03076	0.385341	0.738875	0.131729	0.420512
CY TSA	0.236327	0.100886	-0.00726	0.236785	0.07675	0.459407	0.957267	0.076164	0.23369	0.10503	0.095112	0.114719	0.940983	0.756368	0.732861	0.776122
NCSTN	-0.09222	0.091302	-0.14588	0.222125	0.499053	0.507365	0.283374	0.099894	-0.32559	0.457255	-0.27172	0.308166	0.01362	0.9993	0.035489	0.9814
NUDCD3	-0.04172	0.050544	-0.1471	0.260349	0.760151	0.714015	0.279324	0.052636	-0.03611	0.262757	-0.09079	0.159413	0.406923	0.959404	0.27891	0.852217
KIAA0999	-0.35231	-0.09201	-0.06291	0.042759	0.007746	0.504051	0.645064	0.754353	-0.18818	-0.27914	-0.04261	-0.1373	0.105216	0.030148	0.390533	0.181443
MED13L	0.194588	0.17652	-0.05637	0.285344	0.146928	0.193119	0.677029	0.031435	0.317083	0.234796	0.008154	0.061094	0.984108	0.941872	0.521198	0.656649
FNTA	0.047013	0.27208	-0.23216	0.206559	0.728388	0.042501	0.082257	0.123167	0.079913	0.455093	-0.09868	0.363841	0.701225	0.999258	0.259491	0.993534
ZDHC17	0.087906	0.045545	-0.08861	0.189908	0.515543	0.738896	0.512179	0.15709	0.24008	0.064869	-0.00659	0.077754	0.945983	0.665785	0.482862	0.696241
KIAA0368	-0.03027	0.298998	-0.18993	0.276156	0.823154	0.025188	0.157048	0.037583	0.109027	0.412537	-0.12755	0.328425	0.764626	0.997808	0.201864	0.987073
ADNP	0.010677	0.306088	-0.18106	0.082131	0.937173	0.021776	0.177703	0.543609	0.087749	0.46412	-0.11222	0.334287	0.719003	0.999421	0.231499	0.988415
LARS2	-0.08239	0.21795	-0.31732	-0.03678	0.546053	0.109928	0.017172	0.78782	-0.10306	0.554111	-0.22871	0.344253	0.247746	0.999968	0.065373	0.990427
PIP5K1C	0.066465	-0.07148	0.163067	0.003444	0.623264	0.600592	0.225518	0.979718	0.168245	-0.072	0.085288	-0.04747	0.868148	0.31721	0.711252	0.377028
NCAPH	-0.19675	0.048242	-0.03487	0.006575	0.146125	0.72652	0.798614	0.961641	-0.22129	0.419414	0.07233	0.296933	0.072028	0.997934	0.679601	0.976191
PPWD1	0.05631	0.095464	-0.10741	0.145568	0.677378	0.484004	0.426478	0.279948	0.08494	0.09855	-0.10711	0.086138	0.710471	0.740231	0.244453	0.713152
DULLARD	0.059028	-0.08489	0.201333	-0.13845	0.662721	0.533889	0.133154	0.304372	0.018567	-0.00803	0.055574	0.009466	0.548738	0.478887	0.641546	0.524893
ATP13A2	0.031398	0.255661	0.047803	-0.05713	0.816649	0.0572	0.724003	0.672921	0.015816	0.44639	-0.11441	0.134957	0.541544	0.999063	0.227125	0.814401

FRAT2	0.043891	-0.0934	0.156539	-0.22338	0.7458	0.493557	0.244891	0.094863	0.042016	-0.26986	0.07203	-0.48757	0.609204	0.034858	0.680895	0.000294
FBXO46	-0.04476	-0.06765	0.131356	-0.11988	0.740959	0.620319	0.330068	0.374409	0.144198	-0.24673	0.122747	-0.26964	0.827681	0.051137	0.786338	0.036628
EXOSC2	-0.06147	0.302092	-0.3825	0.409223	0.64968	0.023647	0.00332	0.001574	-0.11702	0.668317	-0.36083	0.514894	0.219327	1	0.007445	0.999875
DICER1	-0.03633	0.353345	-0.25236	0.275823	0.788445	0.007555	0.058246	0.037824	0.136361	0.397806	-0.15075	0.267108	0.816903	0.996907	0.161458	0.963635
COTL1	-0.04521	-0.2986	0.147249	0.23919	0.738401	0.025392	0.274373	0.073141	-0.09345	-0.24393	0.049832	-0.0999	0.26839	0.051162	0.62744	0.254453
SIRT5	-0.02022	0.174363	-0.22352	-0.19935	0.881296	0.198702	0.094654	0.13709	-0.03057	0.275828	-0.03181	0.07982	0.42008	0.968234	0.417827	0.701011
SIRT4	-0.02505	-0.23131	0.179445	-0.32858	0.853245	0.08629	0.181669	0.012578	0.060753	-0.44828	0.052185	-0.37335	0.655819	0.000891	0.633241	0.0053
SIRT3	0.03263	-0.25323	0.315657	-0.20444	0.80959	0.059693	0.016763	0.127146	-0.01521	-0.29222	0.157795	-0.1838	0.460036	0.024381	0.84972	0.110711
SIRT1	0.177362	0.068001	-0.0911	0.246344	0.186876	0.618505	0.50033	0.064714	0.415184	0.217624	0.126894	0.063384	0.997942	0.926868	0.796912	0.662202
COMMD3	-0.0181	0.122479	-0.08605	0.132627	0.894662	0.373024	0.528292	0.329849	-0.16858	0.212376	-0.08744	0.183919	0.131365	0.921756	0.283954	0.889437
FREQ	0.009693	0.008645	0.03628	-0.24711	0.943475	0.950052	0.790654	0.066347	-0.24732	0.21473	0.030157	0.125924	0.05072	0.921686	0.577039	0.7951
ZFPM2	0.300366	-0.30524	0.176623	0.10727	0.024496	0.023447	0.192855	0.431336	0.346811	-0.3118	0.248684	-0.0968	0.990201	0.018531	0.948214	0.263498
KCNH4	-0.05361	-0.09727	0.168816	-0.04143	0.692042	0.475718	0.209358	0.759623	0.053183	-0.2373	0.056015	-0.156	0.637216	0.056151	0.64262	0.150272
KCNH3	-0.18935	-0.22045	0.13727	-0.4246	0.158331	0.102544	0.308566	0.000995	-0.26715	-0.42631	0.011929	-0.39137	0.036341	0.001567	0.530996	0.003577
MLYCD	-0.00678	-0.00322	0.039383	-0.10076	0.960098	0.981216	0.771159	0.455823	-0.0142	0.073942	-0.111	-0.07592	0.462695	0.687355	0.233951	0.308013
CRB1	0.047729	-0.3296	0.104683	-0.50221	0.72685	0.013997	0.442593	8.02E-05	-0.03413	-0.45963	0.105485	-0.43166	0.410918	0.000656	0.754786	0.001371
FNTB	0.027662	0.119876	0.021716	0.197661	0.839623	0.383342	0.873781	0.144221	-0.20179	0.634649	-0.34777	0.43684	0.089338	0.999999	0.00962	0.998799
ITGB3BP	-0.10269	0.13842	-0.22549	0.135404	0.44716	0.308971	0.091704	0.315252	-0.16705	0.288463	-0.19487	0.213668	0.133577	0.974062	0.099782	0.923039
TMED3	0.126732	-0.03852	0.136235	0.087562	0.347525	0.778076	0.312261	0.517195	0.007297	0.236363	-0.17467	0.185046	0.519192	0.943115	0.125574	0.89087
TDRD7	-0.1658	0.051149	-0.21871	-0.06543	0.217722	0.708127	0.102158	0.62869	-0.36159	0.126294	-0.1159	0.159281	0.006772	0.798522	0.224171	0.854821
GRIP1	0.145221	0.208813	-0.07317	0.003538	0.281111	0.12248	0.588596	0.979165	0.025475	0.355983	-0.17022	0.162314	0.566729	0.99241	0.131801	0.859424
SLC7A8	0.154101	0.262681	-0.00732	-0.26459	0.252412	0.050478	0.956886	0.046703	0.370291	0.01359	-0.01843	-0.18348	0.994347	0.535713	0.452179	0.111118
RYBP	0.068468	0.020493	-0.20329	0.061885	0.612811	0.880833	0.129339	0.647447	-0.11687	0.106972	0.00902	0.03229	0.219607	0.760399	0.523446	0.584347
TPSD1	0.030963	-0.11259	0.208136	-0.07208	0.81915	0.40871	0.120268	0.594167	-0.00272	-0.30081	0.094541	-0.23757	0.492848	0.021109	0.731627	0.055943
AP4E1	-0.05255	0.321059	-0.30312	0.213948	0.697867	0.015837	0.021903	0.110032	-0.00285	0.286612	-0.16791	0.142732	0.492493	0.973266	0.135117	0.827995
GPR161	0.219608	0.134989	0.123314	-0.15655	0.100719	0.321232	0.360786	0.244859	0.049406	0.224196	0.001208	0.050702	0.627813	0.932916	0.503143	0.631047
RHOQ	-0.12843	0.080008	0.186767	-0.05357	0.341033	0.557766	0.164196	0.692299	0.106907	-0.47277	0.003137	-0.26752	0.760264	0.000454	0.508158	0.036138
C3orf27	-0.05808	-0.03559	0.210095	-0.15351	0.667843	0.794551	0.11674	0.254268	0.106958	-0.43956	0.20832	-0.29996	0.760371	0.00112	0.915162	0.021415
TARDBP	0.000372	0.313089	-0.22984	0.228513	0.997808	0.018798	0.085454	0.087319	0.178953	0.368806	-0.22722	0.214474	0.882967	0.994168	0.066669	0.92383
ELA3B	-0.07298	0.050737	0.143943	-0.1403	0.589539	0.71037	0.285409	0.297907	0.107438	-0.10436	0.209914	-0.15053	0.76136	0.245027	0.91682	0.159013
HARS2	-0.15196	0.334919	-0.2436	0.177469	0.259148	0.011632	0.06785	0.186604	-0.09181	0.450625	-0.12419	0.258855	0.274309	0.999053	0.210943	0.957009
ATP1B4	-0.0371	-0.05109	0.106759	-0.15005	0.784078	0.708432	0.429285	0.265246	0.154394	-0.38792	0.126629	-0.42633	0.847198	0.003863	0.796418	0.001567
OTP	-0.05144	-0.17351	0.218868	-0.15105	0.703933	0.200956	0.101901	0.262034	0.020373	-0.28394	0.164285	-0.2344	0.553452	0.027917	0.859571	0.058445
SLC35A3	-0.01432	0.19341	-0.10622	0.021419	0.915777	0.153225	0.431646	0.874343	-0.07256	0.24787	-0.14225	0.144757	0.315885	0.951634	0.175635	0.831431
SLC44A1	-0.01703	0.36655	-0.36371	0.294003	0.89996	0.00546	0.005418	0.026432	-0.10328	0.698946	-0.20547	0.558837	0.24729	1	0.08786	0.999973
SF3B3	-0.01636	0.321143	-0.31838	0.273024	0.90387	0.015808	0.015795	0.039895	-0.19104	0.668835	-0.29004	0.515398	0.101721	1	0.026641	0.999877
SF3B1	0.078076	0.138135	-0.11502	0.233425	0.563747	0.309976	0.394248	0.080549	0.185343	0.19566	-0.00786	0.169355	0.891246	0.903738	0.479565	0.86974
ANGPTL2	0.369433	-0.20424	0.131279	0.135596	0.004682	0.131064	0.330354	0.31456	0.408274	-0.05649	0.222207	0.021286	0.997574	0.35462	0.928822	0.555833
ABCB10	-0.03467	-0.09848	0.084534	-0.1318	0.797935	0.470234	0.531842	0.328421	0.005368	-0.39492	0.021593	-0.26971	0.514121	0.003302	0.555981	0.034943
ABCB9	0.122032	-0.01688	0.122022	-0.10749	0.365837	0.901707	0.365878	0.426094	-0.02316	0.085482	-0.024	0.072112	0.439283	0.713911	0.437829	0.68305
FOLH1	-0.03694	0.051126	-0.06901	0.052263	0.785015	0.70825	0.610021	0.699421	-0.07604	0.086392	0.036313	0.119794	0.307732	0.715961	0.593602	0.786107
ABCA6	0.224387	-0.12778	0.13762	0.307457	0.093341	0.347995	0.307322	0.019992	0.482939	-0.21347	0.311974	0.00994	0.999662	0.077162	0.981523	0.526138
ABCA5	-0.01445	0.100693	-0.08312	-0.08366	0.915054	0.46027	0.53876	0.536123	0.113116	-0.06191	0.105358	-0.06071	0.772917	0.341374	0.754524	0.344293
HEY1	0.070881	0.093427	-0.09783	0.054028	0.600316	0.493423	0.469061	0.689778	-0.18838	0.381862	-0.08189	0.213195	0.104965	0.995587	0.296407	0.922571
ICMT	-0.10593	0.243175	-0.01073	0.03973	0.432911	0.07093	0.93687	0.769195	-0.14099	0.48523	-0.14603	0.405609	0.177799	0.999635	0.172111	0.997147
GCAT	-0.04491	-0.05807	0.17152	-0.17692	0.740081	0.670773	0.202048	0.187989	-0.06631	0.048692	-0.13643	-0.07717	0.330745	0.626027	0.185766	0.305123
CBX6	0.013652	-0.01583	-0.06528	-0.14896	0.920452	0.908691	0.632625	0.273207	0.085838	0.179474	0.043054	0.290716	0.714713	0.883658	0.610576	0.975004
NPTXR	0.095866	-0.07468	0.253756	-0.16491	0.478092	0.584346	0.056822	0.22025	0.244976	-0.37309	0.230559	-0.37991	0.947591	0.005798	0.933927	0.005025
CBX5	0.109675	-0.06607	-0.2288	0.098495	0.416714	0.628552	0.086906	0.46605	-0.06327	0.415414	-0.14077	0.449264	0.338076	0.997954	0.178167	0.999132
PHF3	0.043819	0.139849	-0.11614	0.076674	0.746199	0.303953	0.389598	0.570791	0.181755	0.119568	0.047476	0.118282	0.886649	0.785666	0.621603	0.783158

TRAM1	0.175913	0.155151	0.000648	0.373346	0.190559	0.253543	0.996181	0.00423	0.168508	0.234735	-0.00346	0.35509	0.868526	0.941823	0.491014	0.992273
CAPN7	0.013796	0.129121	-0.17115	0.119656	0.918869	0.342908	0.203049	0.375315	0.094957	0.105879	-0.04439	0.046964	0.734908	0.758135	0.386075	0.621693
ETHE1	-0.00117	0.151488	-0.07432	0.049469	0.993172	0.269572	0.586183	0.717305	-0.08827	0.624262	-0.24452	0.404968	0.279825	0.999998	0.052746	0.997379
QPRT	0.199198	-0.24216	0.329109	-0.11476	0.137405	0.072154	0.012429	0.395316	0.207288	-0.38331	0.29141	-0.25955	0.916556	0.004276	0.973944	0.040763
BRD4	-0.07261	0.016115	0.109434	-0.01903	0.591443	0.90616	0.417743	0.888235	0.046573	0.0422	-0.03724	-0.06809	0.620709	0.60967	0.404065	0.326494
SEC11A	0.048175	0.199957	-0.05427	0.218323	0.721942	0.139526	0.688485	0.102778	0.180742	0.198726	0.040528	0.22837	0.885328	0.907245	0.604238	0.936558
ISCU	0.161713	0.027728	-0.10339	0.248905	0.229445	0.839248	0.444072	0.061893	0.104526	0.060748	-0.1094	0.185484	0.755317	0.655807	0.237194	0.891424
FOLR1	0.146201	-0.49612	0.273255	-0.07439	0.277841	0.000101	0.03972	0.582329	0.183764	-0.47109	0.217512	-0.30196	0.889239	0.000476	0.9244	0.0207
SEC61G	0.106857	0.044429	-0.08087	0.209384	0.433123	0.747388	0.553533	0.121438	-0.05232	0.368194	-0.21092	0.350683	0.364928	0.994093	0.082149	0.991563
PES1	-0.10324	0.071153	-0.20326	0.030716	0.444754	0.60229	0.129402	0.820569	-0.29334	0.445023	-0.25964	0.234414	0.023936	0.999029	0.042499	0.941566
TGDS	-0.05048	0.211752	-0.24024	0.151784	0.709222	0.117186	0.071851	0.259699	-0.04219	0.42876	-0.22552	0.23003	0.39036	0.998526	0.068171	0.937965
LEPROTL1	-0.08684	0.234883	-0.20436	0.11792	0.524497	0.084317	0.130834	0.386735	-0.12432	0.257083	-0.07667	0.231715	0.205209	0.957714	0.308326	0.939368
CES3	0.019406	-0.01828	-0.04523	-0.12761	0.886067	0.893601	0.738305	0.344184	-0.00496	0.002485	-0.0419	-0.14399	0.48695	0.506537	0.392324	0.169858
CBX7	0.160976	-0.4494	0.282766	-0.02973	0.231604	0.000512	0.033069	0.826211	0.251155	-0.35256	0.270975	-0.19401	0.953875	0.008129	0.964106	0.098183
HEY2	0.207712	0.188777	-0.17929	-0.08272	0.124508	0.163505	0.186124	0.54443	-0.09481	0.340643	-0.07428	0.125673	0.267785	0.988982	0.315893	0.794629
TNFRSF13B	-0.0592	-0.26362	0.195675	0.11144	0.661803	0.049633	0.14464	0.409206	0.104195	-0.29893	0.191351	-0.21357	0.754624	0.021793	0.896017	0.07706
HAAO	0.098937	-0.20862	0.121328	-0.08329	0.464041	0.122824	0.368631	0.537902	0.152962	-0.18436	0.134776	-0.07175	0.844917	0.110005	0.811301	0.317797
MACF1	0.222596	-0.06427	0.119673	0.228228	0.096055	0.637918	0.375246	0.087724	0.240711	-0.16776	0.163769	-0.05366	0.946458	0.132553	0.858804	0.361602
FOLR2	-0.02325	-0.23521	0.241539	0.20024	0.863715	0.080985	0.070282	0.135317	0.093547	-0.20198	0.241814	0.071638	0.729472	0.091673	0.943107	0.679979
DAAM2	0.394869	-0.41826	0.255323	0.02585	0.002368	0.001338	0.055258	0.848624	0.482998	-0.38239	0.397624	-0.22622	0.999611	0.004767	0.996239	0.067556
ZFYVE26	-0.22877	0.075404	-0.14821	0.087479	0.089906	0.584276	0.275647	0.521457	-0.25217	0.43807	-0.20282	0.184254	0.045451	0.998836	0.090737	0.889865
RIMBP2	-0.09111	0.212409	0.032821	-0.26736	0.500287	0.116028	0.808494	0.044371	0.023733	-0.15456	-0.03059	-0.29257	0.562203	0.152542	0.420934	0.024241
TMEM131	-0.07772	0.217241	-0.20233	-0.08636	0.565551	0.107773	0.131197	0.523005	-0.15136	0.23109	-0.04379	0.166321	0.157663	0.93885	0.387572	0.865359
KIAA0240	0.144908	0.168312	-0.00654	0.091267	0.282159	0.214979	0.961504	0.499551	0.14511	0.063301	0.054553	0.026858	0.832027	0.662001	0.63905	0.570316
LRRC8B	-0.15833	0.32184	-0.21036	0.05106	0.239459	0.01557	0.116263	0.706024	-0.2875	0.439508	-0.20784	0.349073	0.026348	0.998879	0.085341	0.99129
TTC9	-0.26173	0.179578	-0.1356	-0.25822	0.049223	0.185396	0.314532	0.052461	-0.28222	0.199819	-0.1277	-0.06403	0.028702	0.908474	0.20159	0.336243
POFUT1	-0.0446	0.300789	-0.19676	0.163512	0.741835	0.024286	0.142381	0.224238	-0.08934	0.533842	-0.23601	0.477717	0.277454	0.999933	0.059285	0.999607
KCTD2	0.116128	0.018746	0.152812	-0.02443	0.389658	0.89093	0.256448	0.856826	0.204232	0.125253	0.143598	0.024022	0.913314	0.796561	0.826664	0.562954
NUP188	-0.05513	0.270297	-0.13453	0.220915	0.689318	0.048069	0.327454	0.105058	-0.09507	0.661346	-0.32242	0.431398	0.264843	1	0.015384	0.99862
SUZ12	0.070855	0.176916	-0.27775	0.115953	0.600452	0.192107	0.03645	0.390376	0.008283	0.357252	-0.08203	0.303684	0.521783	0.992602	0.296095	0.979902
SCRIB	-0.05175	-0.03709	0.061245	-0.11557	0.702254	0.786071	0.650856	0.391967	-0.0291	0.049952	-0.02281	-0.16843	0.423878	0.629177	0.440883	0.131586
KIAA0146	-0.25715	0.265439	-0.23763	-0.09199	0.05572	0.050157	0.077816	0.500124	-0.25291	0.35445	-0.25609	0.100467	0.044963	0.992173	0.044755	0.746762
MORC3	-0.04539	0.250985	-0.26971	0.051606	0.737431	0.062065	0.042467	0.703024	0.023817	0.458472	-0.00099	0.304695	0.562422	0.999323	0.497432	0.980249
SLC39A14	0.233809	0.028599	0.075509	0.154587	0.080038	0.834268	0.576672	0.250898	0.350547	0.282785	-0.01837	0.049141	0.990883	0.970097	0.452906	0.62573
SKIV2L2	0.029115	0.181474	-0.18596	0.167797	0.829774	0.18072	0.166049	0.212164	-0.04326	0.328188	-0.05759	0.279305	0.387636	0.987016	0.35355	0.969933
R3HDM1	0.024418	0.36911	-0.13615	0.162561	0.856922	0.005119	0.312571	0.226979	0.265721	0.292148	-0.03294	0.33768	0.962857	0.975588	0.414957	0.989136
ANP32D	-0.1136	-0.13494	-0.15222	-0.33709	0.400123	0.321424	0.258313	0.010343	0.057414	-0.04002	-0.06411	-0.16457	0.647655	0.395875	0.337827	0.137208
FOLR3	-0.09762	-0.01926	0.141787	-0.1709	0.470027	0.88796	0.292762	0.203719	-0.00398	-0.2952	0.211704	-0.2665	0.48954	0.023203	0.918653	0.036705
ANP32C	0.018817	-0.15058	0.123026	-0.00565	0.889506	0.267965	0.361918	0.966752	0.078765	-0.14	0.134281	-0.03888	0.698579	0.176704	0.810416	0.398771
MYST4	0.090755	0.096418	-0.11836	-0.01774	0.50197	0.479626	0.380538	0.895794	0.127072	0.139642	0.085296	-0.01753	0.799979	0.822667	0.71127	0.453976
CABIN1	-0.16723	-0.15917	0.072624	-0.16475	0.213725	0.241304	0.591363	0.220706	-0.38926	-0.00626	-0.2193	-0.01772	0.00375	0.483545	0.073896	0.453482
SRRM2	-0.05696	0.073429	0.100259	0.04559	0.676714	0.594187	0.462217	0.73865	0.169788	0.027816	0.019574	-0.09103	0.870357	0.572799	0.550776	0.273709
HMHA1	-0.08686	-0.37502	0.154645	0.393674	0.520551	0.004402	0.250718	0.002448	-0.23205	-0.1962	0.018317	-0.02106	0.062531	0.098224	0.546972	0.445381
ACAP2	-0.03676	0.366648	-0.33336	0.102108	0.786032	0.005447	0.011278	0.449769	-0.0987	0.492056	-0.23561	0.304213	0.257008	0.999743	0.059611	0.980084
ZNF281	0.055899	0.084288	0.203291	0.081058	0.682397	0.540651	0.132911	0.552594	0.22576	-0.10479	0.001808	-0.14266	0.934298	0.244132	0.504703	0.172132
CLCF1	0.096798	-0.05472	0.135501	-0.2752	0.477892	0.691503	0.319382	0.040097	0.220139	-0.1655	0.088573	-0.22729	0.929228	0.135844	0.718565	0.064372
FOS	0.052057	-0.17338	-0.19051	-0.02281	0.700554	0.201285	0.155757	0.866271	0.015757	0.050203	-0.07388	-0.00595	0.54139	0.629803	0.314794	0.484358
NNT	0.070155	0.368358	-0.28002	0.24821	0.604065	0.005217	0.034887	0.062649	-0.0402	0.641544	-0.17767	0.470226	0.395413	0.999999	0.121479	0.999512
MMD	-0.038	-0.16788	-0.1122	0.270966	0.780984	0.220514	0.410342	0.043389	0.002459	-0.33339	0.114373	-0.05112	0.506395	0.012612	0.770123	0.369382
PRAME	-0.0528	-0.08865	0.233495	-0.30219	0.696493	0.515886	0.080456	0.022336	-0.01646	-0.30753	0.076889	-0.2147	0.456777	0.018806	0.692171	0.075953

PIK3R5	0.017298	-0.30308	0.320395	0.222573	0.898373	0.023172	0.015109	0.096091	-0.16059	-0.38553	0.142009	-0.23412	0.145979	0.004456	0.821092	0.060822
TNPO3	0.040998	0.313815	-0.28053	0.13014	0.762045	0.018511	0.034542	0.334606	-0.04873	0.503861	-0.23785	0.368452	0.373891	0.999821	0.057825	0.994124
ADAT1	-0.21741	0.225715	-0.4201	0.092136	0.104252	0.094393	0.00114	0.495459	-0.15767	0.417949	-0.24871	0.200359	0.147659	0.998075	0.049735	0.909076
OR52A1	0.0221	-0.14306	0.035314	-0.21937	0.871567	0.297431	0.79611	0.104282	0.010274	-0.37607	-0.03448	-0.43312	0.526701	0.005449	0.412089	0.00148
SLC16A8	0.047939	-0.10867	0.287849	-0.15866	0.723251	0.425305	0.029912	0.238472	0.22766	-0.36217	0.294279	-0.29634	0.93595	0.006692	0.975132	0.022766
FOSB	0.170026	-0.0892	-0.06408	-0.16898	0.206066	0.513247	0.63582	0.208903	0.121328	0.005333	0.098147	-0.07554	0.789074	0.514029	0.739373	0.308909
SEC14L2	-0.01729	0.069233	-0.06105	0.009731	0.898425	0.612142	0.651891	0.942731	0.243075	0.364706	-0.07542	0.226993	0.948212	0.993648	0.311222	0.935373
MAPK8IP2	-0.03659	-0.18836	0.255921	-0.23659	0.787015	0.164451	0.05467	0.076409	0.162908	-0.45209	0.237977	-0.42444	0.860315	0.000805	0.942277	0.001642
RBM9	0.282887	0.235525	-0.04863	0.101657	0.032991	0.080563	0.719427	0.451783	0.285703	0.405854	0.073082	0.315745	0.972869	0.997432	0.683352	0.983724
SEZ6L	0.072662	-0.14078	0.253189	-0.13045	0.591168	0.3007	0.057397	0.333444	0.311279	-0.35623	0.09088	-0.34591	0.982386	0.007552	0.723649	0.009268
ATP6V0A2	0.16467	0.245601	-0.07515	0.280024	0.220928	0.068075	0.578483	0.034884	-0.10372	0.358298	-0.0985	0.256067	0.246374	0.992757	0.259872	0.957075
SYNGR4	0.05245	-0.08181	0.264194	-0.20419	0.6984	0.548901	0.047048	0.127624	0.225531	-0.39613	0.142153	-0.32004	0.934097	0.003213	0.824202	0.015069
LILRA4	-0.08356	-0.03098	0.160821	-0.11541	0.536602	0.820664	0.23206	0.392618	0.033938	-0.35069	0.08634	-0.33284	0.588586	0.008436	0.713604	0.011905
TTC33	0.034681	-0.08895	-0.18058	0.021023	0.797862	0.51444	0.178871	0.876647	-0.02453	-0.04289	-0.03171	-0.04636	0.43572	0.388581	0.418093	0.379831
DNPEP	-0.04395	0.112581	-0.03593	0.410751	0.745463	0.408743	0.790724	0.001505	-0.08599	0.555887	-0.19823	0.41689	0.284942	0.99997	0.095888	0.998025
FOSL2	0.113315	-0.03558	-0.02312	0.102946	0.401322	0.794593	0.864453	0.446039	0.244037	0.274149	0.00622	0.03312	0.948913	0.967387	0.516174	0.586482
PSD4	-0.11098	-0.02772	0.018643	0.143824	0.411173	0.839286	0.890523	0.285812	-0.13021	0.116146	-0.03465	0.023524	0.194212	0.778956	0.410602	0.561659
RASD2	0.370342	-0.3056	0.330514	0.126978	0.004573	0.021997	0.012037	0.346579	0.303571	-0.41279	0.275387	-0.19314	0.979863	0.002179	0.966446	0.099214
CCRK	-0.11054	-0.32529	0.129709	-0.30953	0.417341	0.015379	0.340693	0.020267	-0.25247	-0.34021	0.033601	-0.2439	0.045248	0.010351	0.586722	0.05119
HYAL4	-0.13851	-0.00983	0.042054	-0.16031	0.30864	0.943217	0.758278	0.23789	-0.13334	-0.38869	0.039819	-0.30087	0.188512	0.003798	0.602453	0.021088
TSPAN12	0.01494	0.161022	-0.20852	0.203723	0.912975	0.240226	0.12301	0.132072	-0.13284	0.371508	-0.24456	0.26426	0.189403	0.99449	0.052715	0.962024
TSPAN15	-0.20225	0.366917	-0.22585	-0.1045	0.131363	0.00541	0.091173	0.439188	-0.16618	0.233186	-0.0333	0.094592	0.137635	0.938412	0.415046	0.731736
PIGN	-0.03024	0.465917	-0.31833	0.040855	0.823274	0.000296	0.015812	0.762852	0.009204	0.562542	-0.17401	0.354263	0.524204	0.999976	0.126476	0.992144
SNAPIN	-0.07796	0.103787	-0.20937	-0.07107	0.567949	0.450809	0.121471	0.602697	-0.28416	0.309114	-0.25646	0.092849	0.029261	0.980593	0.046438	0.727954
WBP2	-0.0192	-0.21149	0.128239	-0.03959	0.888317	0.121139	0.34624	0.77205	0.125142	-0.36641	0.242288	-0.31119	0.796353	0.006131	0.945596	0.017642
WBP1	-0.00883	-0.2176	0.089589	-0.11901	0.947994	0.10718	0.507503	0.377903	0.141181	-0.29605	-0.1287	-0.13275	0.825333	0.022875	0.199745	0.189569
FPGS	0.010619	-0.07022	0.086174	-0.02061	0.938084	0.610461	0.527716	0.880138	-0.10248	0.203857	-0.15332	0.127925	0.248983	0.91291	0.157326	0.80157
GTPBP4	-0.1309	0.419738	-0.38829	0.138463	0.331749	0.00128	0.002839	0.304339	-0.1388	0.366197	-0.22664	0.254585	0.1788	0.993842	0.067184	0.956128
CLDN14	-0.00403	0.052021	0.263227	-0.16802	0.976496	0.70603	0.049984	0.215775	0.001324	-0.27972	0.009661	-0.22875	0.503484	0.029868	0.525111	0.063121
CHST5	-0.19581	-0.23219	0.037924	-0.25063	0.148082	0.088037	0.781401	0.062451	-0.39003	-0.24199	-0.03404	-0.14853	0.003686	0.052583	0.412163	0.162286
DDAH2	0.097068	-0.37366	0.102553	0.014673	0.472567	0.004559	0.447787	0.913736	0.088081	-0.34973	0.236441	-0.26967	0.719746	0.008599	0.941059	0.034963
LPAR3	-0.13904	-0.08877	-0.08461	-0.24436	0.302295	0.515324	0.531473	0.066968	-0.39766	-0.06165	-0.05449	-0.09713	0.003103	0.342	0.361108	0.260395
ZNF346	-0.06388	0.258269	-0.14873	0.039387	0.636847	0.054624	0.269507	0.771133	0.177679	0.272267	-0.12507	0.20685	0.881266	0.966415	0.20651	0.916096
ARL2BP	-0.04304	0.244448	-0.27915	0.066256	0.750545	0.06942	0.035479	0.624361	-0.0597	0.318765	-0.10396	0.23112	0.34674	0.984581	0.248382	0.938875
PADI4	-0.06441	-0.30838	0.142203	-0.20454	0.634068	0.020761	0.291335	0.126965	-0.00845	-0.37804	0.247839	-0.40894	0.477789	0.004794	0.949652	0.002388
FPR1	-0.21279	-0.46433	-0.00849	0.116735	0.115363	0.000356	0.950488	0.391557	-0.17014	-0.55377	0.039251	-0.43767	0.129149	3.27E-05	0.601022	0.001176
DDAH1	0.077082	-0.20361	0.097086	-0.23727	0.568739	0.1323	0.472484	0.075541	-0.12243	-0.19706	-0.0567	-0.21691	0.2088	0.094653	0.355716	0.07381
FPR2	-0.07357	-0.45093	0.037275	-0.07817	0.589989	0.00055	0.785049	0.566881	-0.07926	-0.56942	-0.14149	-0.3976	0.304533	2.74E-05	0.182725	0.003763
CDC42EP4	0.003132	-0.05326	-0.05616	0.049401	0.981552	0.696664	0.678206	0.715162	0.041117	0.434619	-0.06614	0.27562	0.606924	0.998729	0.332983	0.96813
CASP14	0.041237	-0.25766	0.250832	-0.22964	0.760698	0.055219	0.059837	0.085732	0.047466	-0.41202	0.151447	-0.39583	0.622954	0.00222	0.839668	0.003235
CCNDBP1	-0.13964	0.075618	-0.2549	-0.08405	0.30019	0.579645	0.055676	0.534217	-0.30486	0.040791	-0.20511	-0.14731	0.019694	0.606094	0.088249	0.164303
SMUG1	-0.12053	-0.01193	-0.08931	0.053732	0.371806	0.930466	0.508833	0.69139	-0.23757	0.421741	-0.22512	0.28228	0.055944	0.998245	0.068531	0.971328
VSIG2	-0.16975	0.249662	-0.07524	-0.1985	0.206805	0.063501	0.578051	0.138813	-0.12838	0.312682	-0.17744	0.100892	0.197579	0.982816	0.121788	0.747664
TMEM50A	0.018917	0.208717	-0.20722	0.284505	0.888922	0.122655	0.121941	0.031959	-0.02517	0.442142	-0.0939	0.303603	0.434073	0.998953	0.269753	0.979874
DDX58	-0.11075	-0.09511	-0.10881	0.373425	0.416466	0.489737	0.424716	0.004586	-0.0817	0.100925	0.139193	0.239197	0.299013	0.742752	0.81332	0.941065
C17orf81	-0.00611	-0.03393	-0.09597	0.22875	0.96404	0.803912	0.477599	0.086981	-0.05776	0.340849	-0.0939	0.409869	0.351503	0.989776	0.269754	0.997664
KLHDC2	-0.01663	0.198747	-0.26251	0.1551	0.90227	0.141986	0.048529	0.249311	-2.53E-05	0.338716	-0.09646	0.230312	0.499933	0.989349	0.264234	0.938201
CARHSP1	0.070856	-0.1236	0.026034	-0.02135	0.603807	0.368614	0.848948	0.875905	-0.15191	0.098877	-0.15587	0.176483	0.15678	0.743368	0.153283	0.879654
FPR3	-0.12705	0.014485	-0.02179	0.584828	0.346297	0.915617	0.872202	1.78E-06	-0.21862	0.250874	0.075324	0.497136	0.07454	0.95177	0.6865	0.999744
PDSS1	-0.13407	0.485671	-0.17563	0.144697	0.324558	0.000171	0.195416	0.287329	0.008401	0.628237	-0.25006	0.447097	0.522093	0.999999	0.04879	0.999081

C17orf88	0.016655	-0.04863	0.183679	-0.15962	0.902135	0.721909	0.171409	0.235605	0.220936	-0.31923	0.216734	-0.30403	0.929965	0.01529	0.923648	0.019979
LEMD3	0.020706	0.188261	-0.20663	0.206412	0.878493	0.16468	0.123041	0.123439	-0.12422	0.327284	-0.15561	0.232352	0.205394	0.986797	0.153689	0.939892
HEBP2	-0.23668	0.495216	-0.15501	-0.10737	0.079044	0.000121	0.253974	0.430889	0.026743	0.49219	-0.11528	0.240262	0.570019	0.999744	0.225391	0.946121
ORC6L	-0.17719	0.223092	-0.07412	-0.07589	0.19142	0.101589	0.587187	0.578253	-0.20983	0.526915	0.080303	0.293047	0.083271	0.9999	0.697832	0.974627
ORC3L	0.031809	0.126554	-0.17594	0.080723	0.814291	0.352668	0.190493	0.550563	-0.04229	0.33502	0.051912	0.253671	0.390113	0.988574	0.63257	0.955536
OPN3	0.007047	0.407921	-0.29944	0.175871	0.958509	0.001804	0.023644	0.190667	0.067638	0.414322	-0.14191	0.376525	0.67243	0.997899	0.176216	0.995047
ACOT9	0.004483	-0.02833	-0.18517	0.362461	0.9736	0.835826	0.167909	0.005592	-0.00974	0.497683	0.038518	0.40226	0.474678	0.999748	0.598024	0.996921
PATZ1	-0.06194	-0.11753	0.125386	-0.06678	0.647172	0.38833	0.352709	0.621638	-0.27655	0.04042	-0.00574	0.204868	0.031405	0.605152	0.485072	0.913996
AMACR	0.139477	0.038273	-0.0243	-0.02753	0.300777	0.779438	0.857615	0.838931	-0.1352	0.070123	-0.01986	0.166105	0.187939	0.676425	0.44909	0.862255
CLEC5A	0.117008	-0.12691	0.106782	-0.1406	0.386049	0.351288	0.429185	0.296848	0.088057	-0.45884	0.230221	-0.32555	0.719692	0.00067	0.935924	0.013631
CORO1C	0.132501	0.197165	-0.1277	0.226167	0.325834	0.145252	0.343818	0.090705	0.205944	0.359776	-0.09773	0.266519	0.912648	0.992397	0.263975	0.961613
DAPK2	0.061236	-0.34555	0.177218	0.077518	0.650908	0.009096	0.187238	0.566546	0.265812	-0.39308	0.331389	-0.32562	0.962909	0.003442	0.986916	0.013613
CD2AP	-0.04577	0.232394	-0.13119	-0.04302	0.735282	0.084792	0.330693	0.750679	-0.13889	0.404676	-0.08246	0.277799	0.178648	0.997361	0.295123	0.969206
MKRN1	-0.02697	0.047662	-0.21962	-0.03369	0.842156	0.727224	0.100702	0.803499	-0.20394	0.076165	-0.15207	-0.02903	0.089517	0.690503	0.162206	0.424929
MKRN2	-0.14752	0.28626	-0.28128	0.057366	0.273468	0.032448	0.034042	0.67167	0.015085	0.413038	-0.0539	0.174337	0.539629	0.997834	0.362553	0.876725
PHLDA3	0.055915	-0.02629	0.086451	-0.10098	0.67952	0.84746	0.522543	0.454819	0.125462	-0.02745	-0.05852	-0.09694	0.796957	0.42816	0.351299	0.260796
ZMYND8	-0.13726	0.195077	-0.16712	-0.22451	0.308597	0.149648	0.214029	0.093162	-0.0176	0.124605	0.074174	-0.02666	0.453781	0.795335	0.685893	0.430195
PPY2	0.06897	0.034765	0.167878	-0.22087	0.610203	0.799211	0.211939	0.098725	0.143837	-0.25285	0.118587	-0.25797	0.829876	0.044998	0.781086	0.041732
PYY2	-0.00413	0.005372	0.199477	-0.20697	0.975693	0.968656	0.136844	0.1224	0.067002	-0.30178	0.107739	-0.28208	0.670907	0.020764	0.759425	0.028762
SH3BP1	-0.02536	0.013591	0.109676	0.083554	0.851474	0.920806	0.416707	0.536625	-0.18967	0.096418	0.041061	0.12351	0.103387	0.738078	0.605577	0.793255
TSSK2	-0.17008	0.004736	0.068078	0.044755	0.210126	0.972627	0.618105	0.743273	0.05413	-0.33015	0.095558	-0.26767	0.639561	0.01252	0.733823	0.036056
ZIM2	0.205816	-0.05333	0.274583	-0.09491	0.124551	0.696248	0.03873	0.482512	0.179015	-0.07951	-0.13955	-0.12928	0.883049	0.299692	0.180281	0.19591
NTSR2	-0.04499	-0.15687	0.191001	-0.14299	0.739663	0.248255	0.154672	0.288658	0.090665	-0.45031	0.191489	-0.29953	0.725492	0.000844	0.896183	0.021573
BACE1	0.323995	0.151323	-0.0807	-0.03417	0.013947	0.265586	0.550679	0.800753	0.261348	0.135207	0.025061	-0.00976	0.960319	0.814848	0.564901	0.47434
RUSC1	0.105821	0.174236	0.108606	-0.10316	0.433371	0.199034	0.421296	0.445078	0.040611	0.354987	-0.05568	0.120373	0.605637	0.992257	0.358194	0.787229
CBLC	-0.19886	0.265822	-0.16445	-0.10977	0.138085	0.047687	0.221567	0.416288	-0.1387	0.443855	-0.24831	0.16757	0.178982	0.998999	0.050016	0.867173
FAM89B	0.020043	-0.12225	0.079791	0.143454	0.882357	0.369427	0.555187	0.287067	-0.06923	0.094812	-0.04534	0.063455	0.323776	0.734593	0.383713	0.662374
SPO11	-0.03109	-0.2563	0.004037	-0.32814	0.818408	0.056557	0.976222	0.012706	-0.11551	-0.39396	0.11644	-0.29984	0.222302	0.003375	0.776886	0.02146
PRND	0.015234	-0.12207	0.226705	-0.21816	0.910449	0.370132	0.089919	0.103042	0.135635	-0.34615	0.128852	-0.29787	0.815612	0.009226	0.800544	0.022186
KCNE1L	-0.12856	-0.06561	0.172256	-0.18833	0.345044	0.630902	0.204268	0.164512	0.145241	-0.33957	0.23134	-0.31342	0.832247	0.010478	0.936872	0.016962
CA14	-0.12086	0.042683	0.122778	-0.17821	0.379434	0.757005	0.371849	0.193014	0.06392	-0.38547	0.123262	-0.2429	0.663497	0.004078	0.790076	0.051917
KPNA6	0.010144	0.303358	-0.32297	0.022545	0.940304	0.02304	0.014269	0.867793	-0.14494	0.415266	-0.29076	0.364962	0.168262	0.997946	0.026333	0.993682
SSBP2	0.046218	0.009619	-0.09967	-0.1306	0.732808	0.943909	0.46072	0.332871	0.063855	-0.14957	0.117457	-0.09176	0.663341	0.160569	0.77888	0.272087
NUP62	-0.26985	0.404781	-0.30037	0.151714	0.042352	0.001972	0.023195	0.259921	-0.06111	0.499292	-0.23861	0.258783	0.343322	0.999794	0.057225	0.958768
RABGAP1	0.100393	0.166619	-0.12009	0.135962	0.457459	0.219695	0.373555	0.313244	0.17026	0.169616	-0.0681	0.143059	0.871028	0.870112	0.328354	0.828552
LRRC6	-0.09511	-0.13053	0.030876	-0.26911	0.481573	0.337618	0.819648	0.042944	-0.17444	-0.28399	0.060132	-0.2176	0.123135	0.027894	0.652613	0.073154
HSPBP1	-0.32306	-0.14978	-0.02204	-0.29311	0.014239	0.270544	0.87075	0.026915	-0.34175	-0.20394	-0.0684	-0.13719	0.010047	0.087005	0.327644	0.181632
LDOC1	0.215803	-0.24097	0.18803	0.087349	0.11018	0.073607	0.165208	0.52208	0.466174	-0.22293	0.350037	-0.18576	0.999453	0.068222	0.990792	0.108223
LY96	0.051126	-0.2625	0.07153	0.368372	0.708252	0.052847	0.600361	0.005215	-0.08052	-0.24588	-0.05774	-0.15042	0.297391	0.049764	0.353183	0.15919
EDC4	-0.12401	0.094699	-0.06302	0.166571	0.362501	0.491626	0.644498	0.21983	-0.03213	0.321089	-0.14805	0.117068	0.416061	0.985214	0.165883	0.780775
PPP1R15A	-0.06195	-0.27406	-0.03374	-0.22462	0.647089	0.04096	0.803246	0.09299	-0.20755	-0.13084	0.032307	-0.12531	0.08317	0.193056	0.58343	0.20333
PLD3	0.236954	-0.15539	0.142965	0.141407	0.075948	0.252792	0.288729	0.294073	-0.06272	0.219848	0.047862	0.251174	0.339407	0.928958	0.62256	0.953887
ARFIP2	-0.09322	-0.01403	0.130017	-0.13967	0.490386	0.918233	0.335066	0.300096	-0.10036	0.040899	-0.15484	-0.12054	0.253463	0.60637	0.154912	0.212444
SSBP3	0.072371	-0.13971	0.240204	-0.42534	0.592658	0.304443	0.071896	0.000973	0.112727	-0.33784	0.204087	-0.32549	0.772133	0.01083	0.910644	0.013645
POLA2	-0.0555	0.225419	-0.16537	0.354887	0.681796	0.094838	0.218936	0.006753	-0.20403	0.649947	-0.26317	0.542286	0.086901	0.999999	0.040351	0.99995
TRIM29	-0.1258	0.441975	-0.21473	-0.07932	0.355561	0.000729	0.112003	0.561179	-0.19641	0.794715	-0.28001	0.476178	0.095397	1	0.031233	0.999589
PLXNB2	-0.25508	0.041087	-0.0857	0.03155	0.05779	0.765826	0.529977	0.817445	-0.31325	0.37756	-0.23773	0.247104	0.017011	0.995156	0.057918	0.951099
SLC7A11	-0.04687	0.396628	-0.17218	-0.11887	0.72919	0.002475	0.200292	0.378496	-0.1967	0.453556	-0.23317	0.333774	0.095062	0.999226	0.061605	0.988302
LSM5	0.01957	0.178052	-0.21741	0.091048	0.885111	0.189221	0.104259	0.500587	-0.02961	0.457432	-0.14803	0.408203	0.422559	0.999304	0.165916	0.99757
PLA2G15	-0.12558	0.048547	0.192679	-0.04746	0.351953	0.722358	0.151013	0.725905	-0.25819	0.142683	-0.14839	-0.02969	0.041598	0.827911	0.165319	0.422358

ZKSCAN5	-0.0558	-0.10719	0.017446	-0.3471	0.682923	0.436021	0.898448	0.00877	0.03041	-0.09827	0.169202	-0.03011	0.578596	0.260363	0.863895	0.422165
TMEM2	0.006002	0.345676	-0.27911	0.223102	0.964658	0.009069	0.03551	0.095283	0.132277	0.561225	0.048745	0.423088	0.806805	0.99997	0.623322	0.998108
TMEFF2	0.102716	-0.23921	0.16684	-0.14564	0.451259	0.078597	0.219074	0.284159	-0.09043	-0.0968	0.057636	-0.12705	0.277342	0.263507	0.644911	0.202799
STX12	-0.02871	0.047942	-0.28992	0.187321	0.832083	0.725681	0.028703	0.162927	0.036541	0.255176	-0.07677	0.170359	0.595258	0.956507	0.308098	0.871168
SMPX	0.219001	-0.20162	0.289197	-0.02183	0.10488	0.139923	0.030636	0.873099	0.171318	-0.46462	0.176698	-0.23625	0.866915	0.000743	0.871496	0.061299
SH3BP4	-0.0281	-0.16167	0.086002	0.11756	0.835639	0.233898	0.524713	0.383796	0.219393	0.041969	0.007137	-0.06723	0.928534	0.609086	0.518556	0.328553
SGK3	-0.04904	0.199686	-0.25649	0.027573	0.717172	0.140074	0.054114	0.838665	-0.13184	0.301793	-0.13268	0.228432	0.191224	0.979242	0.192459	0.936611
RAB38	-0.09064	0.576452	-0.30906	0.025327	0.506447	4.11E-06	0.020466	0.853003	-0.10066	0.716276	-0.3436	0.384611	0.252831	1	0.010418	0.995844
PRKD3	0.139356	0.077118	-0.14264	0.347993	0.301203	0.572124	0.289854	0.007989	0.241398	0.311689	0.025695	0.335297	0.946973	0.982512	0.566528	0.988633
KCNE4	0.19347	-0.09336	0.303682	0.247195	0.14931	0.493736	0.021649	0.063765	0.089019	-0.04865	0.261604	-0.04333	0.719552	0.375497	0.956859	0.388722
CADM1	0.285518	-0.05853	0.099485	0.243553	0.032921	0.671215	0.465696	0.070479	0.360528	-0.01889	-0.06803	0.03586	0.993079	0.450422	0.328501	0.593515
GSPT2	0.045872	0.091278	-0.14661	0.102035	0.734735	0.503458	0.276468	0.450095	-0.01539	0.242451	-0.05923	0.258971	0.459569	0.947754	0.349576	0.958883
GABARAPL	0.277286	-0.01212	0.152017	-0.0237	0.036778	0.929369	0.25896	0.861108	0.576791	-0.22665	0.234825	-0.22241	0.999986	0.064925	0.939756	0.068692
SHPK	-0.15273	0.267601	-0.13329	-0.04048	0.256719	0.046162	0.322918	0.764963	-0.07355	0.478667	-0.22089	0.200345	0.313571	0.999617	0.072401	0.909061
C9orf5	0.158191	0.074428	-0.08328	0.104557	0.239886	0.585639	0.53798	0.438918	0.146455	0.077873	-0.01262	0.062447	0.834281	0.696517	0.467215	0.659934
C9orf4	0.145255	-0.0796	0.147506	-0.17798	0.280995	0.55977	0.273527	0.185315	0.230845	-0.43999	0.169794	-0.2373	0.938646	0.001108	0.867593	0.056155
EID1	0.061401	0.109192	-0.11581	0.152579	0.650026	0.42308	0.390958	0.257182	0.123097	0.127184	0.143249	0.220622	0.792469	0.800189	0.826072	0.929675
C15orf2	0.071547	-0.12651	0.293148	-0.19499	0.596887	0.352819	0.026894	0.146075	0.201522	-0.43897	0.194301	-0.37427	0.910364	0.001137	0.899545	0.005197
BHMT2	0.346038	-0.06164	0.175366	0.032734	0.008373	0.651783	0.191963	0.808991	0.31562	-0.37337	0.300146	-0.13808	0.983688	0.005297	0.977424	0.180056
AIPL1	-0.02876	-0.21412	0.22012	-0.19557	0.831839	0.113043	0.099908	0.14485	0.122706	-0.37473	0.259079	-0.29612	0.79172	0.005146	0.95715	0.022849
SDF2L1	0.026242	-0.20443	0.164205	0.102482	0.846359	0.130703	0.222252	0.448101	-0.02395	0.037828	0.054367	0.107025	0.43724	0.598549	0.638593	0.760509
PPIL2	-0.17833	0.165318	-0.12698	0.009834	0.184451	0.223368	0.346581	0.94212	-0.19208	0.572182	-0.22944	0.219535	0.100482	0.999984	0.064746	0.928666
PITPNB	0.141051	0.098074	-0.15741	0.30131	0.295302	0.472078	0.242243	0.022747	0.186589	0.245091	-0.24944	0.318941	0.890139	0.947675	0.051244	0.983637
PISD	-0.21358	0.124445	-0.15526	0.09005	0.110655	0.360813	0.248826	0.505313	-0.0839	0.26875	-0.1709	0.033073	0.289677	0.964539	0.130838	0.586362
OSBP2	0.007574	-0.27641	0.151644	-0.3315	0.955408	0.039191	0.260145	0.011769	-0.05116	-0.37018	0.04514	-0.34124	0.369293	0.006157	0.614457	0.010894
MAFF	0.134279	-0.07529	0.149225	-0.01394	0.319327	0.581297	0.267912	0.918021	0.270115	-0.06818	0.110228	-0.22571	0.965277	0.326287	0.764492	0.065743
IL17RA	-0.02328	-0.17209	0.071104	0.208458	0.863524	0.204719	0.599168	0.119682	-0.12195	0.054368	0.001831	-0.0027	0.212425	0.638596	0.504707	0.492988
FLRT3	0.101446	-0.15371	-0.01601	0.239131	0.452729	0.258027	0.905934	0.073214	0.077862	0.127843	0.052906	0.334931	0.696492	0.801416	0.635012	0.988555
FLRT2	0.405174	-0.24383	0.120594	0.200784	0.001769	0.07015	0.371559	0.134238	0.266866	0.004527	0.325751	0.236363	0.961812	0.511774	0.984529	0.940997
FLRT1	0.11771	-0.08091	0.218765	-0.15083	0.383188	0.553331	0.102067	0.262753	0.257993	-0.2998	0.178141	-0.36485	0.958281	0.021473	0.879155	0.006333
FKBP8	0.054663	-0.32941	0.108431	-0.21353	0.686317	0.01317	0.422051	0.110743	-0.02208	-0.32194	0.065369	-0.31097	0.442772	0.015516	0.663333	0.018799
BRD1	-0.19753	0.218921	-0.19851	-0.04993	0.140797	0.10501	0.138793	0.71223	-0.17067	0.344921	-0.22392	0.145431	0.128392	0.990551	0.069609	0.832566
APOL2	-0.12215	0.068048	0.15508	0.430236	0.365386	0.61826	0.249374	0.000837	-0.09358	0.192748	-0.00084	0.278057	0.270467	0.897698	0.497846	0.967803
BCL2L13	-0.07275	0.260564	-0.29273	0.093143	0.59074	0.052434	0.027125	0.490738	-0.05937	0.448263	-0.12612	0.259091	0.347545	0.999109	0.204543	0.958957
MTCH1	0.237466	-0.04561	0.125812	0.17111	0.080861	0.743275	0.360056	0.211638	0.224192	0.278771	-0.03502	0.063171	0.930633	0.968158	0.410728	0.659922
MTCH2	-0.11066	0.407938	-0.40026	0.205211	0.412513	0.001803	0.002035	0.125688	-0.23112	0.620519	-0.29932	0.428155	0.061122	0.999998	0.022889	0.998503
ALK	-0.03382	-0.24025	0.14666	-0.3705	0.802807	0.074493	0.276319	0.004555	0.065093	-0.5424	0.173349	-0.36351	0.666326	4.93E-05	0.872603	0.00651
ALOX12	-0.01513	0.001529	-0.03048	-0.35411	0.91186	0.991159	0.823556	0.007417	-0.05924	-0.02817	-0.15228	-0.17118	0.349553	0.427118	0.158994	0.130437
FXN	0.194787	0.238189	-0.07226	0.232993	0.146507	0.077097	0.593244	0.081128	0.196657	0.253488	-0.09379	0.197221	0.904889	0.955417	0.27001	0.905535
ABCA4	0.034136	-0.09637	0.322152	-0.28538	0.804583	0.488153	0.016458	0.034688	0.098433	-0.37261	0.126337	-0.27057	0.742418	0.005384	0.795873	0.034482
ALOX5	-0.07436	-0.46782	0.020521	0.504135	0.582522	0.000277	0.879571	6.38E-05	-0.27231	-0.02944	-0.07053	0.152116	0.035173	0.423877	0.324577	0.840747
ALOX5AP	-0.08852	-0.33345	0.068217	0.52498	0.512585	0.012027	0.614117	2.76E-05	-0.26931	-0.24399	0.058558	0.106504	0.035158	0.051117	0.648803	0.759431
KIF4A	-0.13533	0.1873	-0.18859	-0.07755	0.319997	0.170905	0.163921	0.569985	-0.22977	0.586974	-0.26469	0.303051	0.062252	0.999991	0.039447	0.979683
IFIT5	-0.0407	0.08026	-0.15846	0.401183	0.76373	0.556521	0.239089	0.001983	0.136711	0.18182	0.13399	0.162319	0.814737	0.884026	0.807063	0.856633
EML2	-0.10365	-0.12222	-0.01995	-0.07805	0.442917	0.36955	0.882887	0.563894	-0.35517	0.235788	-0.20771	0.083199	0.007715	0.942661	0.085479	0.708741
FTSJ1	-0.00287	-0.00286	-0.02947	0.174834	0.983101	0.983294	0.827737	0.193337	-0.13475	0.516741	-0.21225	0.287932	0.185965	0.999882	0.080789	0.973836
C20orf103	0.024831	-0.25519	0.116053	-0.06362	0.855856	0.06006	0.39435	0.641344	0.085076	-0.25335	0.222058	-0.12724	0.712994	0.044672	0.928685	0.199714
NAT6	0.049944	-0.19032	0.210267	-0.17616	0.712168	0.160021	0.116434	0.189923	0.162619	-0.17763	0.29169	-0.0986	0.859882	0.118806	0.974062	0.257221
TFIP11	-0.06768	0.197567	-0.34965	0.051805	0.61694	0.144417	0.007675	0.701935	-0.24844	0.662291	-0.18326	0.323347	0.047972	1	0.1141	0.985808
PANX1	0.039302	0.24327	-0.19678	0.474137	0.771614	0.070816	0.14234	0.000195	0.07914	0.454282	-0.23641	0.308859	0.699443	0.999241	0.058963	0.981624

CLDN15	0.096955	-0.11564	0.31741	-0.09227	0.473084	0.396056	0.016134	0.49482	0.019989	-0.3619	0.226806	-0.34427	0.552451	0.00673	0.932966	0.009569
FJX1	0.04474	-0.0635	0.156865	-0.08967	0.741052	0.641978	0.243898	0.507112	-0.04876	-0.10879	-0.06961	-0.07365	0.373798	0.235856	0.324785	0.313322
PRPF6	-0.06874	-0.08855	-0.13528	-0.01762	0.611387	0.516368	0.31569	0.896501	-0.28192	0.283281	-0.12778	0.154058	0.028837	0.971786	0.201431	0.846666
ZNF318	0.028201	0.078323	0.074421	-0.19113	0.835043	0.566116	0.582193	0.154384	-0.09674	0.036337	0.058916	-0.08357	0.261231	0.594737	0.649671	0.29041
ALOX12B	-0.08506	-0.03166	0.194237	-0.24345	0.529274	0.816805	0.147674	0.068029	0.066362	-0.33438	0.144472	-0.31569	0.669375	0.011565	0.828145	0.016293
FRK	-0.06317	0.323927	-0.17823	-0.05153	0.640634	0.014874	0.184686	0.703426	-0.14467	0.432285	-0.14364	0.247788	0.168708	0.998651	0.173259	0.951576
ALOX12P2	-0.11911	0.208273	-0.12271	-0.18871	0.377519	0.123471	0.363169	0.159776	-0.18592	0.422862	-0.11639	0.169588	0.10803	0.998293	0.223213	0.870073
SPDYA	-0.04159	-0.15557	-0.06312	-0.1949	0.758696	0.252247	0.640866	0.146272	0.249043	-0.26255	0.126013	-0.26571	0.952444	0.038972	0.795265	0.037152
MS4AGE	0.103047	-0.12471	0.150227	-0.23325	0.445593	0.359801	0.264676	0.080779	-0.05952	-0.18787	0.133909	-0.16221	0.3472	0.105597	0.809748	0.140735
VGLL2	-0.0256	0.074802	0.119315	-0.11824	0.850092	0.583754	0.376689	0.381026	0.00344	-0.25971	-0.01557	-0.17658	0.509051	0.040663	0.459568	0.120209
CNPY4	0.092645	-0.39229	0.162098	-0.03614	0.49307	0.002787	0.228324	0.789575	-0.02084	-0.51499	0.184505	-0.08233	0.445966	0.000147	0.884729	0.295407
DEFB110	0.078348	-0.12813	0.009497	-0.25885	0.562386	0.346671	0.944105	0.051863	0.050348	-0.39907	0.118818	-0.2582	0.628715	0.003309	0.778812	0.043403
DEFB111	-0.02156	-0.01519	0.116691	-0.32635	0.8735	0.911516	0.387347	0.013228	-0.01003	-0.20589	0.079658	-0.28573	0.473621	0.08492	0.698522	0.027119
DEFB112	-0.05347	-0.09239	0.181464	-0.16093	0.692847	0.49827	0.176723	0.231741	-0.05181	-0.28822	-0.01044	-0.30084	0.367687	0.027428	0.473181	0.022316
DEFB113	0.097277	-0.09711	0.220431	-0.18593	0.471607	0.476452	0.099417	0.166131	0.191718	-0.22832	0.191224	-0.18333	0.899091	0.063481	0.895862	0.111315
DEFB114	0.068183	-0.14012	0.04746	-0.30085	0.617564	0.307565	0.728334	0.024255	-0.0494	-0.25364	-0.00793	-0.28841	0.375068	0.048325	0.479863	0.028811
DEFB115	-0.06193	-0.08557	0.055906	-0.28738	0.647227	0.530604	0.679567	0.03019	0.015627	-0.34702	0.031441	-0.23377	0.541048	0.009069	0.581226	0.058954
DEFB116	0.273658	-0.24798	0.433684	-0.22005	0.041269	0.067931	0.000841	0.103185	0.054084	-0.09842	0.20477	-0.15294	0.639447	0.257618	0.911385	0.155116
DEFB119	0.080872	-0.12551	0.22884	-0.27092	0.549825	0.356682	0.086854	0.041515	0.066167	-0.42833	0.133022	-0.28634	0.668907	0.00149	0.808152	0.026851
DEFB121	-0.08465	-0.1287	0.169022	-0.21009	0.535065	0.349028	0.213022	0.120161	0.06367	-0.3644	0.065784	-0.37016	0.662894	0.006392	0.666162	0.005669
DEFB123	0.005841	0.162228	0.139845	-0.23512	0.965603	0.23226	0.299491	0.078309	0.108751	-0.16358	0.183388	-0.19108	0.764061	0.138683	0.886061	0.101675
DEFB124	0.053601	-0.35538	0.115071	-0.50918	0.694803	0.007755	0.398388	6.14E-05	-0.10531	-0.516	0.089981	-0.36365	0.24305	0.000121	0.721674	0.006491
DEFB125	-0.00164	-0.10324	0.159709	-0.25464	0.990353	0.448941	0.235348	0.055937	0.098772	-0.33155	0.115507	-0.2239	0.743144	0.012195	0.775049	0.067346
DEFB128	0.144992	0.170033	0.219223	-0.21823	0.281876	0.210257	0.101333	0.10293	0.300283	-0.38311	0.355243	-0.28258	0.978701	0.004294	0.991682	0.028533
ATP6V0D2	0.008122	-0.20777	0.017534	-0.42613	0.952625	0.127969	0.89794	0.001058	-0.08602	-0.31925	0.106151	-0.33304	0.284887	0.015284	0.756161	0.011861
ATP6V1C2	0.01519	0.16782	-0.04107	-0.33565	0.910708	0.216341	0.761641	0.010696	0.304647	-0.37647	0.229971	-0.35623	0.979063	0.005403	0.933419	0.008157
ALOX15	0.015117	0.002269	-0.04809	-0.08325	0.911952	0.98676	0.724843	0.541871	-0.33142	0.317102	-0.17366	0.264229	0.012226	0.984114	0.126963	0.962006
TTY10	0.114206	-0.08644	-0.00363	-0.00384	0.397604	0.526413	0.978633	0.977394	0.374845	-0.2653	0.36195	-0.20432	0.994866	0.03738	0.992721	0.086591
CYorf15A	-0.03231	0.124892	-0.16214	0.064008	0.811424	0.359077	0.228193	0.636192	0.048001	0.284347	-0.20083	0.230908	0.624295	0.972267	0.092942	0.938699
CNOT6L	0.072984	0.139676	-0.19244	0.299862	0.589522	0.304557	0.151538	0.023441	0.149715	0.329977	0.009207	0.320225	0.839665	0.98744	0.523933	0.984981
GAS2L2	-0.2366	-0.30793	0.084665	-0.33199	0.076406	0.020956	0.531202	0.011637	-0.24476	-0.36227	0.028832	-0.31883	0.050565	0.006678	0.574564	0.015402
AKR7L	-0.06604	0.130324	0.134005	-0.42768	0.628664	0.342944	0.324805	0.00101	-0.10975	0.216577	0.045246	-0.03959	0.236469	0.923495	0.614718	0.398115
AFARP1	-0.0567	0.075798	0.005242	-0.4467	0.678083	0.582311	0.969414	0.000558	-0.00028	-0.03032	0.140547	-0.18987	0.499262	0.420741	0.821441	0.103139
CDC26	-0.05868	-0.02057	0.018331	0.176749	0.667506	0.8815	0.893331	0.192532	-0.12607	0.404754	-0.22383	0.427587	0.201902	0.997366	0.06969	0.998482
SLC17A8	-0.05765	-0.04819	0.154721	-0.21574	0.670142	0.724318	0.250485	0.107012	-0.00184	-0.35164	0.110866	-0.28897	0.495169	0.008279	0.765781	0.025725
RNASEH1	-0.18222	0.177236	-0.16717	0.252571	0.174896	0.19129	0.213888	0.058028	-0.18525	0.324066	-0.3648	0.320896	0.108872	0.985993	0.006873	0.985162
LACE1	-0.07433	0.08388	-0.29153	-0.11181	0.582655	0.538803	0.027788	0.40766	-0.37018	0.182319	-0.28336	0.130217	0.006157	0.884677	0.031171	0.803054
STAC3	-0.24422	-0.18078	-0.0178	-0.20773	0.067129	0.182431	0.895419	0.12101	-0.29158	-0.23174	-0.09946	-0.29308	0.024643	0.060614	0.257843	0.024038
PELI3	0.064135	-0.09624	0.152562	-0.02586	0.635524	0.480465	0.257237	0.848588	0.221118	-0.30558	0.156402	-0.38249	0.930132	0.019453	0.84755	0.004353
C21orf93	0.199525	0.137695	0.259624	-0.23124	0.136746	0.311534	0.051143	0.083508	0.160385	-0.17012	0.253665	-0.12854	0.856508	0.12917	0.953655	0.197292
C21orf94	0.187909	-0.05478	0.114536	-0.04849	0.161587	0.688431	0.396233	0.72021	0.275329	-0.10481	0.140703	-0.21501	0.967984	0.2441	0.82171	0.075644
NPCDR1	-0.06155	-0.14438	0.068399	-0.10797	0.649215	0.288382	0.613168	0.424033	0.213176	-0.41636	-0.00506	-0.31738	0.922552	0.002	0.486835	0.015808
STH	-0.048	-0.02047	0.18882	-0.33425	0.722891	0.880968	0.159525	0.011049	-0.04856	-0.21842	0.078435	-0.23021	0.374294	0.072378	0.695724	0.061887
SPESP1	-0.00876	-0.08088	-0.07508	-0.16448	0.948937	0.557192	0.582338	0.225751	-0.12149	-0.03555	0.090859	-0.06511	0.210617	0.407289	0.723602	0.333628
IL27	-0.14002	-0.19875	0.180807	-0.10187	0.303355	0.141973	0.182354	0.455024	0.072939	-0.38359	0.132292	-0.41087	0.683019	0.004645	0.804011	0.002526
ALOX15B	-0.05107	-0.1209	0.114015	-0.23495	0.705954	0.374749	0.398401	0.078528	0.142556	-0.33439	0.250267	-0.3422	0.827693	0.011563	0.951351	0.009961
FRAP1	-0.19583	0.286503	-0.23905	0.327498	0.148046	0.033952	0.076004	0.013745	-0.24813	0.586164	-0.27531	0.403823	0.048187	0.999991	0.033593	0.997308
ALPI	-0.00293	-0.28097	0.234002	-0.21433	0.982732	0.035937	0.079783	0.109377	0.099302	-0.45088	0.094699	-0.44367	0.74183	0.000941	0.72955	0.001134
FRG1	0.045049	0.250959	-0.1722	0.183029	0.739326	0.062093	0.200227	0.172956	-0.13368	0.427976	-0.16026	0.23061	0.187889	0.998496	0.146486	0.93845
FRZB	0.517711	-0.33356	0.263194	0.016258	3.72E-05	0.011996	0.04792	0.904455	0.519327	-0.30743	0.353282	-0.22664	0.999872	0.019972	0.990673	0.06718

FSHB	0.013381	-0.20589	0.232029	-0.15503	0.921304	0.127921	0.08243	0.249539	0.059255	-0.31121	0.216149	-0.3065	0.652165	0.017634	0.923079	0.019145
ALPL	-0.39473	0.290621	-0.24362	-0.1394	0.002377	0.029788	0.067826	0.301065	-0.38671	0.275591	-0.21499	0.147638	0.003968	0.968115	0.078053	0.836248
CENPI	-0.11222	0.29899	-0.16416	-0.07052	0.410243	0.026593	0.226667	0.605529	-0.08137	0.539648	-0.17977	0.278574	0.295432	0.999946	0.118668	0.969582
FSHR	0.060151	-0.2329	0.101217	-0.26348	0.656704	0.084097	0.453756	0.047673	0.143685	-0.49127	0.245046	-0.23552	0.829617	0.000263	0.947642	0.057548
NR5A2	0.09955	-0.20435	0.082771	0.218165	0.461264	0.130861	0.540462	0.103033	0.171887	-0.35986	0.208728	-0.06466	0.873322	0.007016	0.915589	0.334729
FTH1	0.010481	0.026255	-0.11307	-0.10056	0.938892	0.849094	0.406697	0.460849	0.142689	-0.23672	0.115419	-0.17746	0.827921	0.056604	0.774873	0.119031
FTHL2	-0.03937	0.170999	0.014794	-0.24969	0.771217	0.20764	0.913024	0.061053	-0.00507	-0.26889	0.072852	-0.27885	0.486654	0.035387	0.682815	0.030285
FTHL3P	-0.06662	0.045434	0.01397	-0.22978	0.622446	0.739511	0.91785	0.085527	-0.03675	-0.27052	0.158887	-0.31665	0.404206	0.034508	0.851408	0.016014
ABL1	0.134377	-0.10802	0.024105	0.313608	0.318969	0.428102	0.858735	0.017525	0.271186	0.102517	-0.01931	0.133555	0.965847	0.751102	0.449912	0.811883
ALPP	0.078911	-0.02386	0.116369	-0.13218	0.559571	0.861425	0.388666	0.327021	0.179776	-0.20004	0.03002	-0.3415	0.884057	0.091279	0.577601	0.010096
FTHL11	-0.12485	0.238898	-0.13463	0.05865	0.354787	0.076195	0.318062	0.664752	-0.09284	0.086355	-0.12662	0.037631	0.26972	0.715876	0.203599	0.598045
ALPPL2	0.072145	-0.21084	0.39567	-0.09491	0.593816	0.118803	0.002316	0.482509	0.100967	-0.22536	0.262545	-0.05984	0.747824	0.066054	0.959277	0.346415
FTL	0.024515	0.31261	-0.06949	0.052048	0.856359	0.01899	0.607513	0.700601	-0.20101	0.02231	-0.15221	0.151984	0.090202	0.558499	0.159098	0.843348
ADAM2	0.032293	-0.18373	0.147709	-0.25042	0.811516	0.175259	0.27286	0.060275	-0.0322	-0.36713	0.056442	-0.18658	0.415883	0.00604	0.643662	0.107197
NR5A1	-0.02658	-0.12066	0.28	-0.25093	0.844382	0.375716	0.0349	0.059729	0.171769	-0.39834	0.17362	-0.36019	0.873157	0.003055	0.87298	0.006969
FUCA1	-0.04311	0.09928	-0.17543	0.227665	0.750193	0.466619	0.191799	0.088531	-0.17313	0.493993	-0.13183	0.277728	0.12495	0.999758	0.194008	0.969172
FUCA2	-0.03952	0.170928	-0.28506	0.257047	0.770377	0.207832	0.031613	0.053578	-0.04971	0.50201	-0.09207	0.497435	0.37142	0.999811	0.273738	0.999782
GAST	-0.05987	-0.06403	0.233916	-0.17209	0.658194	0.639164	0.079896	0.200519	0.160921	-0.43809	0.312184	-0.30227	0.857322	0.001163	0.98159	0.02059
FUS	0.147891	0.127384	-0.05189	0.207859	0.272263	0.349494	0.701443	0.120775	0.103489	0.360033	0.108141	0.243359	0.753146	0.993009	0.760247	0.94842
FUT1	-0.00644	-0.08878	0.154863	-0.06372	0.962065	0.515243	0.250044	0.637691	0.14627	-0.22979	0.133852	-0.20059	0.833972	0.062239	0.809646	0.090671
FUT2	-0.14471	0.13796	-0.05251	0.147998	0.282821	0.310595	0.698072	0.271912	-0.08772	0.514687	-0.33551	0.20845	0.281066	0.999874	0.012127	0.917765
FUT3	-0.16766	0.258364	-0.10006	-0.08578	0.212534	0.054531	0.458958	0.525769	-0.17004	0.485241	-0.29367	0.177846	0.129278	0.999685	0.025117	0.88149
FUT4	0.005361	-0.23528	0.276366	-0.01702	0.968431	0.080893	0.037433	0.899994	-0.0317	-0.06404	-0.08686	-0.09229	0.418112	0.337991	0.287528	0.273273
FUT5	-0.10955	-0.14081	0.165525	-0.10234	0.417234	0.300604	0.218506	0.448749	0.097298	-0.29823	0.23636	-0.3794	0.739978	0.022054	0.940994	0.004655
FUT6	-0.19496	0.175893	-0.05497	-0.02257	0.146153	0.19473	0.684628	0.867676	-0.06165	0.286869	-0.21032	0.010213	0.341995	0.973378	0.082759	0.526854
TMEM9	-0.1303	0.127346	-0.16435	-0.17035	0.334017	0.349639	0.221845	0.205192	-0.03155	-0.13627	0.194549	-0.12969	0.417548	0.183251	0.899837	0.195159
ZNF396	-0.28363	0.067866	-0.0985	-0.30863	0.032512	0.6192	0.466029	0.019502	-0.35533	-0.25001	-0.03344	-0.24399	0.00769	0.046898	0.41368	0.051124
FUT7	-0.05402	-0.28306	0.214563	-0.09203	0.692507	0.036257	0.112289	0.499953	0.165362	-0.47043	0.259301	-0.29443	0.863954	0.000485	0.957289	0.023504
NEIL2	-0.0387	-0.32107	0.156759	-0.12336	0.775003	0.015832	0.244222	0.360601	-0.02843	-0.08065	0.089184	-0.04646	0.425611	0.297091	0.719917	0.379563
STXBP4	-0.011	-0.04572	-0.04127	-0.21879	0.935296	0.737935	0.760491	0.102028	-0.09299	-0.23414	-0.00716	-0.22506	0.269392	0.058656	0.481395	0.066318
FNDC5	0.045061	-0.03695	0.249927	-0.16848	0.739258	0.786877	0.060795	0.210287	0.057775	-0.34193	0.289758	-0.21965	0.648542	0.010013	0.97324	0.07123
FUT8	-0.07266	0.267929	-0.13806	0.073734	0.591186	0.045886	0.305771	0.585691	-0.13991	0.257764	-0.0943	0.342895	0.176868	0.958139	0.268896	0.990172
HEPACAM2	-0.16667	0.242512	-0.12312	-0.28369	0.215295	0.071726	0.361529	0.032475	-0.1798	0.035071	0.089756	0.023266	0.115909	0.591493	0.721178	0.560989
SRD5A2L2	0.007812	-0.17771	-0.00843	-0.21011	0.954007	0.190098	0.950375	0.116718	0.0858	-0.42378	0.258259	-0.31553	0.714629	0.001669	0.956634	0.016338
HCG27	0.108263	-0.1581	0.206419	-0.23222	0.422772	0.24452	0.123428	0.082176	0.050222	-0.44311	0.113174	-0.48254	0.62985	0.001021	0.770416	0.000342
KDSR	0.057894	0.416369	-0.21824	0.286433	0.66882	0.001414	0.102914	0.030765	0.128625	0.548256	-0.08845	0.378822	0.802869	0.99996	0.281696	0.995286
C12orf33	-0.15414	-0.07648	0.012989	-0.26333	0.252277	0.575326	0.923602	0.047796	0.071173	-0.41108	0.141213	-0.35612	0.680835	0.00227	0.822589	0.007568
C22orf30	-0.09939	0.298359	-0.10807	-0.06035	0.461981	0.025516	0.423616	0.655623	-0.10039	0.364895	-0.06717	0.221671	0.253404	0.993673	0.330534	0.930638
ABHD7	0.120514	0.200819	-0.01729	-0.25894	0.371876	0.137792	0.898413	0.051777	-0.07114	0.025537	0.10033	0.004167	0.319237	0.566889	0.744007	0.510964
SERHL2	-0.04132	-0.22449	-0.03562	-0.10829	0.76024	0.096238	0.792524	0.422661	-0.23092	0.051427	-0.0517	-0.09804	0.061294	0.632854	0.367963	0.258429
DARC	0.180799	-0.11259	0.122183	0.496794	0.17834	0.408706	0.365239	8.47E-05	0.306076	-0.03487	0.078884	0.215119	0.980714	0.409028	0.696753	0.92446
RICTOR	0.025265	0.104466	-0.13249	0.112287	0.852013	0.443544	0.325883	0.405634	0.134265	0.128553	0.054543	0.058122	0.813161	0.802736	0.639024	0.649392
FYB	-0.04606	-0.27851	-0.04158	0.504389	0.733673	0.037665	0.758785	6.32E-05	0.018997	-0.18059	0.160858	-0.02889	0.549861	0.114879	0.854423	0.424431
EIF4E1B	0.063404	-0.26087	0.253507	-0.23684	0.639385	0.05215	0.057074	0.076089	0.21097	-0.46046	0.204423	-0.43114	0.920344	0.000641	0.911009	0.001389
FYN	0.05867	-0.2158	0.096686	0.654605	0.664643	0.110179	0.474321	3.33E-08	0.113543	-0.40573	0.222109	-0.01327	0.771152	0.002845	0.926339	0.465533
IPMK	-0.16604	0.12793	-0.28099	-0.22006	0.217067	0.347413	0.034235	0.099997	-0.34772	0.132413	-0.10897	-0.05963	0.008945	0.809818	0.238067	0.346911
ZBTB38	0.120303	0.188217	-0.08691	0.336979	0.37272	0.164781	0.520316	0.010371	0.246661	0.302234	0.004679	0.255466	0.950788	0.979397	0.512169	0.956693
FZD2	0.120588	-0.1502	0.279116	-0.14699	0.371579	0.269186	0.035503	0.275232	0.092509	-0.52361	0.292903	-0.2995	0.729557	9.42E-05	0.974568	0.021583
SLC25A30	0.244779	-0.02943	0.010015	0.248734	0.066488	0.829497	0.94106	0.062078	0.151305	0.358574	-0.02859	0.265999	0.84225	0.992798	0.426062	0.963014
LCLAT1	-0.0805	0.14756	-0.18833	0.014808	0.551676	0.277795	0.160626	0.912942	-0.14773	0.287786	-0.11625	0.210993	0.163604	0.973773	0.223482	0.920367

CADM2	0.071591	-0.07514	-0.045	-0.04221	0.600051	0.585611	0.741936	0.757402	0.101289	-0.29211	0.273439	-0.32666	0.746031	0.025763	0.963751	0.014257
C6orf191	-0.00802	-0.30153	0.183843	-0.19912	0.952792	0.023923	0.171019	0.137564	0.128024	-0.26049	0.170008	-0.22642	0.799013	0.041977	0.86505	0.067374
CCDC75	-0.07334	-0.18155	-0.2297	-0.01098	0.587679	0.180534	0.085645	0.935381	0.032643	0.005758	-0.05929	-0.12572	0.585257	0.515147	0.34943	0.202565
ZNF620	0.013497	-0.13236	0.267875	-0.21234	0.920624	0.330837	0.043948	0.112788	0.131019	-0.349	0.229176	-0.47041	0.807277	0.008723	0.935029	0.000485
ANKRD18A	-0.28654	0.062863	-0.1867	-0.13046	0.030703	0.645325	0.164351	0.333424	-0.25904	-0.00998	-0.11097	-0.08245	0.041076	0.473771	0.234	0.29297
IFI6	-0.10694	-0.33361	0.17022	0.43288	0.432776	0.012809	0.209749	0.000862	-0.13476	0.072222	0.016385	0.331498	0.188724	0.681344	0.542036	0.986943
C6orf167	-0.05637	0.240315	-0.30065	0.025055	0.677042	0.074418	0.02306	0.853232	-0.16819	0.527384	-0.16023	0.324061	0.131927	0.999917	0.146528	0.985992
LOC253724	-0.13862	-0.09841	0.059554	-0.26364	0.303789	0.470564	0.6599	0.047534	-0.24694	-0.25215	0.115512	-0.091	0.049017	0.045463	0.775058	0.273774
EBF3	0.303439	-0.2962	0.261936	0.075744	0.021759	0.026651	0.049037	0.575485	0.237616	-0.25619	0.161128	-0.1088	0.941993	0.04469	0.851961	0.238406
WDR27	-0.23068	0.064158	-0.04749	-0.18732	0.084285	0.638521	0.725746	0.162928	-0.32238	-0.07438	-0.16158	-0.12149	0.014444	0.311612	0.144483	0.210611
LASS6	0.000682	0.236973	-0.19623	-0.20275	0.996017	0.078665	0.147201	0.133963	-0.19415	0.431459	-0.22007	0.254541	0.098024	0.998622	0.073162	0.956099
G6PC	-0.05583	-0.2234	0.065091	-0.18805	0.682774	0.101108	0.633638	0.16516	-0.03515	-0.33269	0.149241	-0.30073	0.408297	0.011938	0.836076	0.021136
MSRB3	0.394308	-0.24546	0.21891	0.14909	0.002405	0.068238	0.101833	0.268352	0.4011	-0.47115	0.373084	-0.24996	0.997133	0.000475	0.994201	0.046929
ZDHHC20	-0.05961	0.386515	-0.32494	0.124969	0.662547	0.003559	0.014546	0.358779	-0.13707	0.433511	-0.23655	0.34542	0.18185	0.998692	0.05885	0.990642
C2orf200	0.210992	-0.1957	0.412763	-0.26139	0.11515	0.148317	0.001419	0.04953	0.261092	-0.47765	0.345856	-0.3724	0.960166	0.000394	0.99002	0.005407
G6PD	-0.07913	0.399404	-0.25699	-0.07792	0.558495	0.002292	0.053632	0.564544	-0.24631	0.537582	-0.20195	0.340484	0.04946	0.999942	0.091698	0.989704
ANGPTL5	0.060186	-0.29606	-0.03428	-0.31761	0.656516	0.026728	0.800146	0.016064	0.144681	-0.43784	0.269385	-0.08571	0.831304	0.001171	0.963231	0.285583
YTHDF3	0.019174	0.303328	-0.26156	0.140049	0.88742	0.023054	0.049377	0.29878	0.131488	0.487371	-0.0685	0.375697	0.808134	0.999704	0.327403	0.994959
GARNL1	-0.01845	0.30586	-0.14781	0.221873	0.891654	0.021879	0.272528	0.097169	0.158351	0.350687	0.008784	0.1585	0.85339	0.991563	0.522834	0.85362
KCTD13	-0.20676	0.096579	0.048841	-0.14212	0.122787	0.478889	0.718255	0.291607	-0.08739	-0.11108	-0.12282	-0.1148	0.281793	0.23119	0.210757	0.223713
ASPHD1	-0.09157	-0.12825	0.20364	-0.10568	0.498115	0.346215	0.128673	0.43398	-0.08446	-0.28222	0.120032	-0.17502	0.288409	0.028699	0.783887	0.122344
C12orf72	-0.24527	-0.02764	0.015972	0.058968	0.065926	0.839762	0.906128	0.663045	-0.121	-0.18232	0.03083	-0.03627	0.214256	0.115322	0.578736	0.406512
MAP1D	0.054355	0.09963	0.10309	0.136595	0.687995	0.465043	0.445401	0.310973	0.289432	0.06709	0.144	0.098426	0.97447	0.671119	0.827345	0.742402
UBN2	0.023276	0.015263	0.019342	-0.10364	0.863546	0.911103	0.886442	0.442985	0.008425	-0.05445	0.015571	-0.16137	0.522156	0.359652	0.540432	0.142
LRRC43	-0.20041	-0.27013	0.055434	-0.33038	0.134981	0.044062	0.682129	0.012075	-0.23998	-0.40347	0.07766	-0.3089	0.054094	0.002714	0.693946	0.018364
BRWD3	-0.10847	0.329839	-0.26953	0.116548	0.42186	0.013046	0.042609	0.387932	0.038596	0.397343	-0.22071	0.273115	0.59937	0.996561	0.074979	0.965256
EHBP1L1	-0.00997	-0.05238	0.064244	0.044692	0.941308	0.701398	0.634944	0.741318	-0.03532	0.081847	0.005862	-0.05875	0.407874	0.705659	0.515242	0.349074
SNX32	-0.05341	-0.00771	0.064597	-0.16307	0.693128	0.955013	0.633085	0.22551	0.228837	-0.35432	0.245491	-0.36795	0.936956	0.007848	0.947966	0.005938
CXorf58	-0.13808	-0.04585	-0.07265	-0.35456	0.30569	0.737237	0.591236	0.006809	-0.14954	-0.37862	0.003126	-0.24925	0.160613	0.004735	0.508129	0.047418
FBXO33	0.192875	0.150758	-0.01365	0.119285	0.150591	0.267396	0.919754	0.376811	0.136378	0.030412	-0.01782	0.032571	0.816933	0.579506	0.453752	0.585073
TTL10	-0.21859	-0.23532	0.180794	-0.36974	0.102347	0.080832	0.178352	0.004645	-0.18336	-0.47975	0.136128	-0.34306	0.111273	0.000371	0.813707	0.009796
TSGA10IP	-0.06707	-0.11653	0.199289	-0.20537	0.620076	0.3924	0.137221	0.125388	0.138234	-0.41625	0.169718	-0.30166	0.820207	0.002005	0.867484	0.020807
SLC37A4	-0.17672	0.217926	-0.22844	0.037504	0.192619	0.109969	0.090377	0.783762	-0.16377	0.661822	-0.12589	0.289509	0.138405	1	0.204965	0.974502
RNF169	0.075621	0.16146	-0.15096	-0.07848	0.57611	0.23451	0.262315	0.561715	-0.1414	0.221318	-0.04039	0.037659	0.174298	0.930315	0.396107	0.598116
FAM26E	0.229833	-0.07947	0.118898	0.082768	0.088378	0.564094	0.382781	0.544216	0.219482	-0.33474	0.174023	-0.09305	0.926279	0.012301	0.87071	0.271604
BPIL2	-0.05538	-0.07151	0.023938	-0.33266	0.685191	0.603885	0.860985	0.012245	0.196861	-0.26877	0.234266	-0.38511	0.902538	0.037112	0.937065	0.004496
LCORL	-0.00313	0.27615	-0.11833	0.136871	0.981542	0.039384	0.380684	0.309988	-0.17156	0.53374	-0.13532	0.24219	0.127136	0.999933	0.187737	0.947561
CNIH2	-0.20775	-0.17489	0.121466	-0.2267	0.120965	0.197338	0.368084	0.08993	-0.11276	-0.32408	0.008126	-0.05489	0.227801	0.014003	0.521125	0.358565
C1orf62	-0.04082	-0.26481	0.148219	-0.35382	0.763026	0.048574	0.271188	0.006933	0.095865	-0.45472	0.166291	-0.43239	0.73688	0.00075	0.862528	0.001346
TBC1D28	0.181581	0.047539	0.290621	-0.08287	0.176439	0.727899	0.0283	0.539956	0.236988	-0.37056	0.426439	-0.23789	0.943606	0.005621	0.998256	0.055691
PHYHD1	0.051764	-0.01898	0.109004	-0.22723	0.70216	0.889548	0.419584	0.089151	-0.03413	-0.01775	0.063941	-0.07977	0.41091	0.453391	0.661764	0.299102
GAGE1	0.042399	-0.17821	0.004876	-0.14401	0.756358	0.193016	0.971548	0.28965	0.116789	-0.21247	0.074611	-0.08722	0.780226	0.078149	0.686908	0.282189
ZDHHC24	-0.12241	-0.17468	0.136283	-0.07077	0.364355	0.197868	0.31209	0.60091	-0.0526	-0.15548	0.028224	-0.1669	0.364225	0.151092	0.573008	0.133804
MCM9	-0.12617	0.317829	-0.18482	0.108755	0.349671	0.016985	0.168716	0.420655	-0.08375	0.393673	-0.22928	0.0986	0.29	0.996603	0.064881	0.742776
C10orf47	-0.14271	-0.00018	0.15278	-0.04229	0.289607	0.998957	0.256549	0.754766	-0.05023	-0.12613	0.037371	-0.15741	0.370125	0.201795	0.596278	0.148074
SLC41A1	0.165783	-0.37035	0.038503	-0.26743	0.21778	0.00496	0.776135	0.044312	-0.06447	-0.29818	0.036311	-0.1994	0.335166	0.022069	0.593595	0.091997
C11orf86	-0.06101	-0.12946	0.232172	-0.12369	0.652134	0.341647	0.082235	0.359299	0.023401	-0.26898	0.071675	-0.23165	0.561339	0.035335	0.680067	0.060686
C16orf73	0.127405	-0.12016	-0.04197	-0.34338	0.34495	0.377726	0.756575	0.008922	0.012069	-0.30625	0.238666	-0.27026	0.531725	0.019229	0.942818	0.034646
LPCAT4	-0.10837	0.236885	-0.10694	-0.15325	0.422296	0.078779	0.428485	0.255064	-0.24148	0.605135	-0.24089	0.333326	0.052963	0.999996	0.055464	0.988203
NUDT8	-0.03288	0.061227	-0.00314	-0.22552	0.80815	0.653962	0.981481	0.091654	0.037877	-0.013	0.09133	-0.1309	0.598672	0.465842	0.724636	0.192948

XRCC6	-0.0435	0.133403	-0.32899	0.185745	0.750209	0.331564	0.013296	0.170501	-0.17709	0.57973	-0.30508	0.408968	0.119532	0.999988	0.020785	0.997614
LYG2	0.125919	-0.08778	0.175291	-0.28969	0.355107	0.523936	0.196287	0.030342	0.072553	-0.3774	-0.05846	-0.34654	0.684089	0.00486	0.35144	0.009155
C8orf46	0.204525	-0.24085	0.241989	-0.2913	0.126985	0.073757	0.069746	0.027916	0.32099	-0.63707	0.333058	-0.47631	0.984219	1.27E-06	0.986418	0.000471
OR6C74	0.045117	-0.04443	0.034365	-0.26184	0.738947	0.745082	0.799668	0.049125	0.109497	-0.27796	0.008121	-0.26925	0.765586	0.030715	0.521112	0.03519
OR6C3	0.058657	-0.01975	0.07524	-0.17945	0.667621	0.886202	0.581548	0.185715	0.414071	-0.34934	0.252962	-0.31538	0.997399	0.010055	0.949148	0.018519
GAA	0.048651	-0.10056	0.026881	-0.02949	0.719309	0.460859	0.842664	0.827612	-0.0165	0.17272	-0.12923	0.097517	0.456676	0.874487	0.198754	0.740449
NAALADL2	-0.11637	0.107237	-0.11851	-0.02078	0.388657	0.43148	0.379952	0.878053	-0.19335	0.134615	-0.15866	0.123361	0.098966	0.813789	0.148935	0.792971
C17orf61	0.06197	-0.03051	-0.04239	-0.01914	0.646998	0.823372	0.754212	0.887614	-0.2708	0.061611	-0.25258	0.057738	0.034357	0.657904	0.04707	0.648449
OR2T6	-0.12783	-0.00956	-0.08604	-0.0536	0.347789	0.944769	0.528375	0.694822	0.105725	-0.2652	-0.09532	-0.16925	0.757815	0.03744	0.266696	0.130416
ZDHC23	-0.08049	-0.10189	0.103313	-0.36896	0.551713	0.454933	0.44441	0.004739	-0.0922	-0.25002	-0.01787	-0.32454	0.271112	0.046893	0.453618	0.013885
GAB1	0.292535	0.064417	0.041856	0.244501	0.02723	0.637162	0.757215	0.066806	0.363228	0.101995	0.212322	0.10843	0.993452	0.749999	0.91928	0.763402
LCE5A	0.050421	-0.11962	0.263283	-0.19373	0.70954	0.379887	0.047842	0.148753	0.249187	-0.40727	0.255512	-0.28588	0.952542	0.002484	0.954871	0.027055
KRTAP15-1	-0.03476	-0.01362	0.081282	-0.26164	0.797431	0.920612	0.547798	0.049302	-0.17725	-0.13002	-0.04801	-0.12215	0.119307	0.194546	0.377082	0.209349
MORN5	-0.10439	-0.16896	0.055802	-0.22725	0.43966	0.213197	0.680134	0.089135	-0.21103	-0.28474	0.026093	-0.19106	0.079592	0.027556	0.56755	0.101705
REXO1L1	-0.10844	-0.03258	0.035253	-0.04786	0.422023	0.811573	0.794603	0.723683	0.028309	-0.37365	0.334568	-0.13354	0.574073	0.005266	0.98766	0.188151
OR1L4	0.125008	-0.23963	0.200017	-0.29846	0.354174	0.075272	0.135763	0.024131	0.148289	-0.19811	0.154735	-0.25607	0.834512	0.096029	0.842046	0.044767
GABBR1	0.288936	0.004826	0.305419	0.05065	0.030794	0.972102	0.02208	0.710844	0.389909	-0.23411	0.112856	-0.05923	0.996304	0.05868	0.769779	0.347885
CALHM1	-0.04589	-0.11203	0.135691	-0.25827	0.734618	0.411075	0.314217	0.05241	0.065926	-0.33274	0.223048	-0.25901	0.668328	0.011928	0.929594	0.041093
MPV17L	-0.07342	-0.10793	-0.03172	-0.14195	0.58727	0.428488	0.814775	0.292205	-0.24585	0.051521	-0.07382	-0.02047	0.051772	0.631607	0.316954	0.44691
TMEM86B	-0.22483	-0.0647	0.102711	0.014486	0.092687	0.635666	0.447085	0.914829	-0.07204	-0.206	-0.03353	-0.25703	0.317117	0.084797	0.413453	0.042319
C19orf26	-0.0291	-0.16931	0.287858	-0.21641	0.829888	0.212242	0.029907	0.105905	0.056373	-0.39647	0.202383	-0.34068	0.645096	0.003188	0.908778	0.010258
TAC4	0.040636	-0.12944	0.236922	-0.17166	0.764086	0.3417	0.075988	0.201669	0.209052	-0.27402	0.154939	-0.30603	0.918387	0.03268	0.845249	0.019301
CASC2	-0.13405	-0.20799	0.078127	-0.32772	0.320168	0.123999	0.563492	0.012827	-0.1687	-0.40133	0.10256	-0.26766	0.131199	0.002852	0.748701	0.036059
GABPA	-0.03566	0.290756	-0.05173	0.093203	0.792285	0.029709	0.702356	0.490457	0.259802	0.151866	0.077539	0.250268	0.95939	0.843157	0.693667	0.953278
CCDC108	-0.14634	-0.24769	0.086097	-0.32377	0.277366	0.065695	0.524254	0.014018	-0.25263	-0.35866	0.038363	-0.25216	0.045147	0.007189	0.598782	0.045455
TMCO4	-0.15562	0.015099	-0.05281	-0.01528	0.247694	0.912051	0.696407	0.910151	-0.15805	0.402448	-0.11107	0.220854	0.147075	0.997221	0.233811	0.929889
C4orf22	-0.04246	-0.17981	0.009249	-0.29019	0.753814	0.184821	0.945561	0.028547	-0.21464	-0.31096	0.071739	-0.23365	0.076007	0.017712	0.680215	0.05905
FLJ38723	-0.20098	0.29935	-0.12828	-0.28351	0.133856	0.025008	0.341606	0.032591	-0.17152	-0.08966	-0.0647	-0.06668	0.12719	0.276734	0.336425	0.329859
PLA2G4F	-0.08388	0.16911	0.057232	-0.27123	0.538783	0.217105	0.675241	0.043176	0.01143	0.144718	-0.07223	-0.08761	0.530049	0.831365	0.31864	0.281304
C19orf34	-0.02505	-0.19101	0.203818	-0.17358	0.853279	0.158498	0.128332	0.196614	0.181989	-0.33289	0.197121	-0.3364	0.886953	0.011894	0.902839	0.011131
TXNDC8	0.084315	0.023744	0.011496	-0.43625	0.53291	0.862101	0.932362	0.000693	0.015239	-0.17808	0.111682	-0.28711	0.540033	0.118202	0.767425	0.026516
MCOLN2	0.251133	-0.14357	0.168331	0.343188	0.061907	0.295708	0.214925	0.009614	0.315099	-0.2701	0.216891	-0.1028	0.982498	0.036372	0.921344	0.250808
ANKK1	-0.08835	-0.27478	0.17278	-0.43096	0.517319	0.042332	0.202872	0.000914	-0.22216	-0.46219	0.051997	-0.34486	0.068912	0.000611	0.632777	0.009461
LRRC57	-0.04843	0.13615	-0.16998	-0.21764	0.720535	0.317049	0.206197	0.10389	-0.19008	0.257746	-0.19453	-0.00347	0.102881	0.958128	0.10018	0.49088
MYADML2	-0.10899	-0.12431	0.158944	-0.21995	0.419647	0.361324	0.237625	0.10017	0.044437	-0.37445	0.16611	-0.31245	0.61533	0.005177	0.862262	0.017255
GABPB1	0.005571	0.228651	-0.26422	0.107328	0.967192	0.090074	0.047028	0.426812	-0.02036	0.352136	-0.09297	0.279683	0.446584	0.991803	0.271773	0.970113
EPGN	-0.14932	0.222663	-0.17692	-0.05531	0.267603	0.099055	0.187985	0.682823	-0.15206	0.059756	0.08796	-0.12581	0.159338	0.651703	0.714903	0.205114
C3orf46	-0.05815	-0.02724	0.175782	-0.26284	0.670328	0.843477	0.195017	0.050332	0.081381	-0.30936	0.202386	-0.30833	0.704592	0.018217	0.908782	0.018548
TMEM211	-0.00746	0.040595	-0.04095	-0.11859	0.956072	0.766423	0.762301	0.379603	0.035305	-0.14667	0.09537	-0.08739	0.592093	0.165354	0.733418	0.281809
C10orf93	-0.11239	-0.20007	0.076038	-0.22467	0.405184	0.139306	0.574001	0.092922	-0.1523	-0.32258	0.038868	-0.26825	0.156149	0.014393	0.600057	0.035736
LOC255374	-0.04421	-0.11233	0.227204	-0.14203	0.744023	0.409796	0.089195	0.29192	0.09165	-0.31729	0.188781	-0.26804	0.727666	0.015833	0.892872	0.035848
TCP11L2	-0.13861	0.002243	-0.17355	-0.09119	0.303814	0.986912	0.196683	0.499927	-0.16368	-0.06384	0.048661	-0.11338	0.138539	0.336697	0.624541	0.226551
GABRA1	0.027711	-0.07189	0.014414	-0.16094	0.83787	0.598501	0.915253	0.231711	-0.07617	-0.14697	0.000849	-0.24265	0.307433	0.164865	0.502208	0.052098
ZNF718	0.007552	0.004579	-0.18159	-0.00434	0.955537	0.973283	0.176413	0.974426	-0.10901	0.130393	-0.0599	0.284484	0.235407	0.806131	0.347937	0.972328
LOC255411	-0.1169	-0.15047	0.108084	-0.29193	0.386474	0.268308	0.423546	0.027561	0.18734	-0.33946	0.256797	-0.316	0.893748	0.0105	0.955703	0.016201
RASGEF1C	0.070888	0.016878	0.223146	-0.12614	0.600283	0.901739	0.095216	0.349807	0.14881	-0.34057	0.106388	-0.32844	0.838181	0.010278	0.75665	0.012922
RNF144B	-0.00967	0.212073	-0.08483	-0.1086	0.943057	0.116619	0.53041	0.421342	-0.16415	0.39755	-0.16196	0.338471	0.140623	0.996577	0.14678	0.988524
GABRA2	0.36275	-0.12401	0.048384	-0.14591	0.005551	0.362496	0.720787	0.278824	0.099067	-0.23201	0.029867	-0.33321	0.741333	0.062562	0.576308	0.012654
ELMOD2	-0.01912	0.193741	-0.22203	0.028804	0.887756	0.152509	0.096925	0.831569	-0.16832	0.336458	-0.07871	0.235815	0.131747	0.988881	0.303655	0.942683
GABRA3	-0.04961	-0.06868	-0.00228	-0.37718	0.714003	0.614979	0.986556	0.003825	-0.2289	0.171383	-0.10424	-0.04853	0.062988	0.872615	0.247787	0.374379

HIST1H2BA	0.082772	-0.24872	0.16378	-0.3069	0.540455	0.064536	0.223468	0.020229	0.101901	-0.32065	-0.02198	-0.41167	0.749801	0.014905	0.443032	0.002238
COL24A1	0.155671	-0.2603	0.304458	-0.35193	0.247552	0.05268	0.021299	0.007261	0.204581	-0.43003	0.37925	-0.39696	0.913689	0.001428	0.994904	0.003153
GABRA4	0.183788	-0.07381	0.127785	-0.23224	0.171149	0.588744	0.343501	0.082143	0.140968	-0.43405	0.025881	-0.40807	0.824966	0.00129	0.567005	0.002438
OR52B2	0.082797	-0.01073	0.162799	-0.24993	0.540332	0.937435	0.226292	0.060792	0.140229	-0.30441	0.017649	-0.31741	0.823688	0.019848	0.545805	0.015799
PCSK9	-0.07075	-0.20457	0.185266	-0.27589	0.600991	0.130429	0.167674	0.037773	0.131584	-0.42003	0.251694	-0.36528	0.808309	0.00183	0.95233	0.006277
NPNT	0.267744	0.131344	0.013847	-0.16133	0.044055	0.334591	0.918575	0.230575	0.310513	-0.10862	0.098736	-0.12177	0.982147	0.236216	0.740627	0.210076
TCTEX1D2	-0.12641	-0.12807	-0.0843	-0.28763	0.348752	0.346894	0.532996	0.030042	-0.31111	-0.26416	-0.05275	-0.17452	0.017666	0.038031	0.365367	0.12303
C16orf65	0.190208	-0.15303	0.256465	-0.25869	0.156425	0.260182	0.05414	0.052013	0.090478	-0.32557	0.236258	-0.22342	0.725077	0.013625	0.940912	0.067775
C3orf43	0.109419	-0.11036	0.1603	-0.18016	0.417806	0.418128	0.233597	0.179908	0.224653	-0.22957	0.155763	-0.16916	0.933322	0.062422	0.846547	0.130536
GABRA5	-0.01633	-0.08115	0.097468	-0.26059	0.904047	0.552122	0.470734	0.05025	-0.024	-0.4644	0.04996	-0.45087	0.437099	0.000575	0.627755	0.000832
BCL6B	0.316397	-0.29304	0.367743	0.081868	0.016495	0.028393	0.004889	0.544905	0.260081	-0.31285	0.300256	-0.13604	0.959559	0.017134	0.977465	0.18366
GABRA6	0.008665	-0.13396	0.190167	-0.28829	0.948995	0.324969	0.156516	0.02965	-0.04041	-0.28873	0.052413	-0.31415	0.394879	0.025826	0.633802	0.016745
TMEM188	0.084461	0.174507	-0.22496	0.258288	0.532194	0.198326	0.092484	0.052393	-0.05871	0.385424	-0.06394	0.306264	0.349178	0.995918	0.338231	0.980776
ADAM5P	0.248035	-0.16493	0.144483	-0.34881	0.06284	0.224481	0.283589	0.007833	0.126529	-0.38008	0.127743	-0.32976	0.798963	0.004587	0.798492	0.012611
SYT14	0.14676	-0.00448	0.113257	-0.26937	0.275986	0.973859	0.401562	0.042734	0.370384	-0.491	0.201702	-0.31548	0.993868	0.000308	0.905402	0.017385
PAN3	-0.01027	0.17561	-0.19156	0.101272	0.939569	0.195461	0.153449	0.453511	0.081472	0.199543	-0.05903	0.115226	0.704801	0.908165	0.350049	0.777131
GABRB1	0.198577	-0.1737	0.254923	-0.17842	0.138659	0.200448	0.055654	0.184218	0.098696	-0.40024	0.049903	-0.32601	0.742981	0.002925	0.627616	0.013517
ANKRD31	0.124077	-0.19531	0.084196	-0.34152	0.3578	0.149142	0.533489	0.009323	-0.02618	-0.38323	0.114122	-0.0562	0.432217	0.004682	0.769628	0.356919
ZNF549	-0.01547	-0.02397	0.142819	-0.07122	0.909041	0.860824	0.289228	0.59857	0.05696	-0.45844	0.035932	-0.34266	0.646541	0.000678	0.592636	0.009873
COL29A1	0.069202	0.249935	-0.0518	0.378143	0.612302	0.065721	0.704557	0.00406	-0.1406	0.089229	-0.12408	0.201188	0.181335	0.717688	0.213958	0.904826
GABRB2	0.066946	0.048563	0.09109	-0.26675	0.620751	0.722269	0.500389	0.044877	0.019246	-0.18402	0.165556	-0.15821	0.55051	0.110433	0.861449	0.146827
LOC100133	0.092325	-0.35545	0.336206	0.004029	0.494573	0.00718	0.010559	0.976271	0.200464	-0.34494	0.173423	-0.25132	0.909193	0.009446	0.872706	0.046012
SYCE2	0.003868	-0.11779	0.192561	-0.22283	0.977221	0.38726	0.151269	0.0957	0.059027	-0.28022	0.147766	-0.33905	0.651608	0.029633	0.833649	0.010584
TMEM196	-0.14927	-0.12825	0.15454	-0.1974	0.27219	0.346204	0.25544	0.144753	0.016638	-0.5114	0.12086	-0.44191	0.543694	0.000141	0.785483	0.001054
OR4C3	0.059024	-0.02783	0.143938	-0.16965	0.665664	0.840141	0.289889	0.2113	0.154473	-0.38077	0.112761	-0.30164	0.844511	0.004934	0.766928	0.022022
OR4S1	0.11786	-0.13416	0.177923	-0.24422	0.386976	0.328794	0.189547	0.069685	0.018869	-0.34748	0.176566	-0.346	0.549527	0.008987	0.877028	0.009253
HMCN2	-0.07083	-0.13607	0.285334	-0.16055	0.600571	0.317338	0.031441	0.232853	0.092968	-0.45028	0.229559	-0.37907	0.730564	0.000845	0.935358	0.004688
GABRB3	-0.01219	-0.33337	0.172754	-0.45083	0.928288	0.012048	0.198772	0.000433	-0.1357	-0.45793	0.081844	-0.46109	0.184265	0.000687	0.703493	0.00063
MGC87042	0.111234	0.088682	0.120832	-0.1051	0.410081	0.515724	0.370608	0.436519	0.02331	0.076099	-0.06552	-0.06404	0.561103	0.692397	0.334476	0.336223
NAPSB	-0.19727	-0.23855	0.064367	0.124626	0.141324	0.07664	0.634296	0.355658	-0.05934	-0.26675	0.172877	-0.08773	0.347625	0.036562	0.871945	0.28103
NUDT14	-0.12755	-0.17131	-0.00992	-0.19022	0.344395	0.206793	0.941632	0.156402	-0.1899	-0.16866	0.13036	-0.29683	0.105754	0.134027	0.800504	0.023848
PTF1A	-0.05611	-0.15221	0.219302	-0.09628	0.678453	0.262747	0.101207	0.476189	0.017599	-0.57045	0.157929	-0.44776	0.546208	1.74E-05	0.849929	0.000903
GABRD	-0.01608	-0.09367	0.270879	-0.13164	0.905504	0.492278	0.041544	0.32902	0.125974	-0.33447	0.240999	-0.26607	0.797921	0.011546	0.944619	0.036947
MGC33894	-0.07243	-0.11728	0.217572	-0.10608	0.59234	0.389322	0.103996	0.432228	-0.0549	-0.29137	0.196834	-0.35798	0.358535	0.024726	0.902507	0.00729
CCDC110	-0.02753	-0.30869	0.208189	-0.1849	0.838936	0.020627	0.120171	0.168533	-0.01713	-0.53054	0.233887	-0.30704	0.455029	7.45E-05	0.93899	0.018968
C11orf35	0.0549	-0.18124	0.271318	-0.30481	0.685031	0.181298	0.041202	0.021143	-0.08084	-0.37451	0.16585	-0.33761	0.296647	0.005171	0.861882	0.010878
GK5	-0.02298	0.095612	-0.10094	0.162191	0.865243	0.483325	0.454985	0.228054	-0.01592	0.314069	-0.10564	0.075996	0.458175	0.983232	0.244889	0.692156
EML3	0.046143	-0.00207	0.049106	0.106155	0.733229	0.987939	0.716791	0.431915	0.064245	0.124518	-0.0504	0.134242	0.662493	0.792454	0.372619	0.810346
C14orf48	-0.02349	-0.12381	0.042529	-0.09196	0.862322	0.363287	0.753431	0.496299	-0.00182	0.016427	0.162388	0.018094	0.495224	0.543142	0.856737	0.547503
SCML4	0.021174	-0.20482	0.201217	-0.02588	0.875768	0.129955	0.133382	0.848476	-0.00558	-0.29204	0.119962	-0.25877	0.485312	0.024455	0.783751	0.041241
SERPINA11	0.043474	-0.18004	0.212957	-0.18669	0.748133	0.184243	0.111728	0.164369	0.143252	-0.49185	0.147302	-0.36738	0.828882	0.000259	0.83288	0.006008
GABRE	-0.08706	0.53269	-0.24829	0.079768	0.519598	2.38E-05	0.062557	0.555301	-0.05195	0.554746	-0.28711	0.318619	0.365841	0.999968	0.02792	0.98454
ST6GALNA1	0.242111	-0.22738	0.190629	0.209653	0.069601	0.09193	0.155492	0.117529	0.408157	-0.45886	0.239801	-0.38421	0.997568	0.00067	0.9437	0.004193
MFSD8	-0.02508	0.216966	-0.19322	0.202792	0.853087	0.10823	0.149846	0.130306	0.115507	0.197998	-0.02625	0.128268	0.777688	0.906421	0.432042	0.802207
TMEM151A	0.007563	-0.11977	0.241691	-0.15438	0.955471	0.379259	0.070101	0.251544	-0.04652	-0.30799	0.115927	-0.27321	0.379419	0.018656	0.775877	0.033097
GABRG1	0.12435	-0.2312	-0.00303	-0.43048	0.356734	0.086448	0.982127	0.00083	0.17825	-0.39012	0.198006	-0.39971	0.882031	0.003679	0.903856	0.002961
TCERG1L	0.097174	-0.11706	0.243315	-0.27399	0.476173	0.394707	0.070762	0.041016	0.107705	-0.35657	0.220789	-0.28205	0.761911	0.0075	0.927507	0.028776
LYSMD2	0.055129	-0.12102	0.214836	-0.0696	0.683783	0.374273	0.108529	0.606957	0.024139	-0.43201	0.160964	-0.25735	0.563259	0.001359	0.854584	0.042118
GABRG2	0.087824	-0.1671	0.24191	-0.3207	0.515937	0.218357	0.06984	0.015008	0.180304	-0.3776	0.313951	-0.30556	0.884752	0.00484	0.982145	0.01946
CXorf23	-0.00802	0.159086	-0.13678	-0.00211	0.952812	0.241552	0.310324	0.987552	0.008453	0.196081	0.055225	0.126278	0.522231	0.904225	0.640692	0.798491

C15orf55	-0.01661	-0.22656	0.28716	-0.17018	0.90327	0.096247	0.031884	0.209862	-0.04849	-0.38394	0.210853	-0.25427	0.374468	0.004218	0.917786	0.044072
MAMDC2	0.177316	-0.11237	0.083306	0.273406	0.191087	0.414019	0.541595	0.041464	0.175147	-0.01603	0.180312	0.177198	0.877837	0.457904	0.882046	0.88062
GABRG3	0.191718	-0.20265	0.196438	-0.32905	0.153101	0.134165	0.143049	0.012445	0.016819	-0.2343	0.220915	-0.14717	0.544167	0.058525	0.927625	0.164534
GLIPR1L1	-0.12239	-0.12977	0.034637	-0.014	0.368854	0.345035	0.799938	0.918433	0.13561	-0.28433	0.116046	-0.27998	0.812787	0.029182	0.773415	0.03125
MAP7D2	-0.08899	-0.08555	0.063328	-0.30672	0.510358	0.530732	0.639789	0.020305	-0.11458	-0.25229	-0.14175	-0.14598	0.224161	0.045371	0.176492	0.166514
WDR72	-0.11666	0.177884	-0.18387	-0.17148	0.387455	0.189646	0.170955	0.202146	-0.01408	0.223295	0.01657	0.22506	0.462996	0.932109	0.543017	0.933682
GABRP	0.005214	0.453221	-0.15038	0.072517	0.969578	0.000452	0.268625	0.59533	-0.12458	0.696354	-0.16916	0.41891	0.20742	1	0.136169	0.997909
C10orf67	-0.16455	-0.12429	0.021331	-0.32792	0.221275	0.361424	0.874853	0.012768	-0.25214	-0.42778	0.018189	-0.28485	0.045468	0.001511	0.547201	0.027507
OR51F1	0.137616	-0.00519	0.258217	-0.12332	0.311816	0.970008	0.054673	0.365207	0.022953	-0.32769	0.16507	-0.24806	0.560173	0.013104	0.860733	0.048235
GABRR1	-0.03838	0.006773	0.208163	-0.1772	0.776846	0.960489	0.120219	0.187283	-0.11853	-0.19421	-0.02883	-0.20255	0.216356	0.097956	0.425446	0.088514
NPB	0.015574	-0.08707	0.251672	-0.15892	0.908461	0.523411	0.058958	0.237709	0.102843	-0.51991	0.192814	-0.39284	0.749292	0.000126	0.895073	0.0038
KANK3	0.018258	-0.19558	0.274073	-0.10016	0.892767	0.148571	0.039108	0.458494	0.214137	-0.429	0.268044	-0.33419	0.9235	0.001466	0.962481	0.011606
C17orf66	0.07345	-0.21653	0.284384	0.002843	0.587141	0.108957	0.032035	0.983256	0.12892	-0.49853	0.322346	-0.19421	0.803416	0.000211	0.984595	0.097953
SUNC1	-0.04058	-0.21951	0.114449	-0.38442	0.764394	0.104047	0.396594	0.003154	-0.03094	-0.43737	0.105408	-0.34696	0.420042	0.001331	0.752054	0.00977
SERINC5	-0.13159	0.526552	-0.29085	0.032882	0.333662	3.64E-05	0.029651	0.809879	-0.04031	0.645337	-0.22094	0.331563	0.395128	0.999999	0.072352	0.987806
ALX3	-0.01303	-0.02201	0.253539	-0.22417	0.923334	0.872099	0.057041	0.093671	0.042841	-0.31761	0.10998	-0.34331	0.610042	0.016749	0.761361	0.010475
GABRR2	-0.09148	-0.21478	0.211377	-0.14142	0.498551	0.11192	0.114473	0.294041	0.120656	-0.35957	0.203916	-0.38313	0.787777	0.007058	0.910459	0.004293
PLAC2	-0.03055	0.141813	0.002002	-0.18009	0.821548	0.297146	0.988208	0.180086	-0.01056	-0.02821	-0.08451	-0.08712	0.472234	0.426179	0.290502	0.282406
FRMD3	0.278083	-0.30388	0.31419	0.312412	0.036218	0.022796	0.017306	0.017984	0.242295	-0.27431	0.246674	-0.09407	0.947639	0.03253	0.948821	0.267033
LOC257035	-0.04562	-0.06959	0.08811	-0.26126	0.738498	0.613667	0.518447	0.051787	0.07864	-0.19606	0.055653	-0.28613	0.69829	0.095803	0.641738	0.026944
C1orf101	-0.04073	0.116631	-0.02386	-0.1665	0.763558	0.391982	0.86015	0.215781	0.072429	-0.18815	0.143175	-0.26346	0.683797	0.105252	0.825945	0.038438
TMEM146	0.090585	-0.18789	0.228466	-0.28196	0.502777	0.165522	0.087386	0.033594	-0.04116	-0.34761	0.136671	-0.28911	0.392961	0.008964	0.814667	0.025663
PLCXD2	0.017422	0.04551	-0.0528	-0.00485	0.897654	0.739094	0.696508	0.971428	0.032048	0.140958	0.028604	0.141804	0.583725	0.824949	0.573982	0.826405
GAD1	-0.14959	0.192069	0.010838	-0.04877	0.266744	0.156151	0.936227	0.718667	-0.34314	-0.0397	0.031399	0.050023	0.009781	0.396681	0.581119	0.629353
ZNF683	0.030597	-0.17906	0.266312	0.151434	0.82125	0.186691	0.045243	0.260813	-0.04134	-0.12967	0.0178	0.017188	0.392513	0.195192	0.546196	0.545135
C21orf86	-0.02077	0.01077	0.212398	-0.02765	0.878093	0.937209	0.112695	0.838203	0.204798	-0.33211	0.137601	-0.293	0.913921	0.012069	0.816307	0.02407
ARHGAP30	-0.16347	-0.15518	-0.09863	0.341943	0.224366	0.253442	0.465435	0.00923	-0.16047	-0.06804	0.005352	0.009898	0.143357	0.326607	0.513918	0.526026
GCET2	0.030159	-0.23692	0.088551	0.060333	0.823771	0.07873	0.512452	0.65573	-0.11206	-0.08986	0.080319	-0.00917	0.231816	0.278601	0.697867	0.476155
RNF214	0.009099	0.158129	-0.09654	-0.04983	0.946443	0.24443	0.475011	0.712824	0.073334	0.154682	-0.016	-0.00923	0.685927	0.847655	0.458462	0.475723
C9orf43	-0.04979	-0.07233	0.119481	-0.47327	0.713019	0.596261	0.37602	0.000201	-0.17787	-0.41252	0.13575	-0.37323	0.118477	0.002193	0.813035	0.005313
C1orf192	-0.09732	-0.18291	0.042944	-0.17466	0.471409	0.177246	0.751106	0.19378	-0.19423	-0.25721	0.080115	-0.16115	0.097929	0.042204	0.699564	0.142336
NEGR1	0.155587	-0.18222	0.068914	0.006065	0.247811	0.178901	0.610492	0.964285	0.297963	-0.53784	0.311278	-0.27481	0.977848	5.79E-05	0.9813	0.032279
GAD2	-0.05792	-0.07078	0.154139	-0.25398	0.668696	0.60422	0.252294	0.056597	0.011754	-0.27149	0.059093	-0.26246	0.530898	0.033994	0.650099	0.039021
GPX6	-0.00037	0.038967	0.026906	-0.20049	0.997834	0.775544	0.843953	0.138449	0.232011	-0.26589	0.184425	-0.36825	0.939612	0.037045	0.887394	0.0059
DSCR9	-0.01624	0.050851	0.202545	-0.15791	0.904567	0.709749	0.130786	0.240741	0.159527	-0.24378	0.199304	-0.20743	0.855197	0.051271	0.905335	0.083294
SHPRH	0.081257	0.181551	-0.13903	0.116185	0.547921	0.180531	0.302337	0.389422	0.169844	0.223323	-0.09799	0.082876	0.870437	0.932135	0.260968	0.708006
CCDC96	-0.26863	-0.20237	-0.0243	-0.37023	0.043332	0.13472	0.857582	0.004587	-0.35956	-0.38462	-0.03643	-0.23902	0.007059	0.004155	0.406115	0.054824
KLHL34	-0.01422	-0.21447	0.239364	-0.16635	0.916392	0.112443	0.072926	0.216186	0.173968	-0.59114	0.22481	-0.40172	0.876217	7.61E-06	0.93119	0.002826
UTS2D	0.126794	-0.13802	0.000253	-0.087	0.347287	0.310376	0.998509	0.519918	0.234312	-0.1772	0.301968	-0.14014	0.939338	0.122118	0.976822	0.179257
C21orf87	-0.09791	-0.26952	0.102449	-0.19277	0.468705	0.044562	0.448249	0.150819	-0.03308	-0.42911	0.163446	-0.28498	0.413612	0.001462	0.858322	0.02745
LOC257358	-0.03391	0.080718	0.134862	-0.24162	0.802246	0.554266	0.31721	0.07019	-0.05035	-0.2609	-0.07669	-0.30521	0.369819	0.039949	0.308294	0.019576
SNX33	0.091806	-0.07361	-0.0616	-0.04816	0.500985	0.593261	0.651968	0.72449	0.05562	0.208331	-0.02382	0.126085	0.64324	0.917641	0.438295	0.798129
MAP3K7IP3	-0.09556	0.359914	-0.22837	-0.12632	0.479519	0.006439	0.087519	0.349096	0.033626	0.292055	-0.05993	0.027241	0.587784	0.975551	0.347869	0.571307
C11orf41	-0.00568	-0.1271	0.149239	-0.24261	0.966532	0.350564	0.267869	0.06901	0.096402	-0.38951	0.137056	-0.36138	0.738043	0.003729	0.815347	0.006802
SHC2	0.033137	-0.07041	0.334789	0.008072	0.806684	0.606071	0.010911	0.95248	0.181255	-0.38713	0.271936	-0.30186	0.885998	0.003931	0.964626	0.020734
ANKS4B	0.045743	0.087215	0.186902	-0.13046	0.735456	0.522721	0.163887	0.333393	0.08498	-0.30986	0.062625	-0.27279	0.712778	0.018059	0.658614	0.033313
CXorf27	-0.1127	-0.03396	-0.05784	-0.35357	0.408259	0.805555	0.671971	0.007514	-0.0157	-0.33196	0.138042	-0.33552	0.459245	0.012947	0.81423	0.012125
HYPK	-0.13733	0.031225	0.109377	-0.33487	0.308337	0.819294	0.417989	0.01089	-0.18464	0.034616	-0.13603	-0.02861	0.10965	0.590327	0.186472	0.425136
PRPF40B	-0.09298	-0.20619	0.070776	-0.34356	0.491524	0.127355	0.600861	0.008882	-0.11379	-0.26468	0.039305	-0.30114	0.225735	0.037733	0.601157	0.02099
SLC24A2	0.115622	-0.14788	0.211336	-0.24518	0.39612	0.281269	0.117925	0.068566	-0.01353	-0.46924	-0.00079	-0.33398	0.464452	0.000502	0.497933	0.011653

C22orf31	0.012082	-0.20427	0.166087	-0.16371	0.928926	0.131021	0.216925	0.223671	0.055869	-0.33234	0.103613	-0.27894	0.643855	0.012017	0.750901	0.030242
TBC1D22A	-0.2218	0.354999	-0.10529	0.10887	0.097285	0.007259	0.4357	0.42016	-0.34227	0.426889	-0.11696	0.270735	0.009947	0.998455	0.2221	0.965608
C22orf24	0.076309	-0.21946	0.258213	-0.34649	0.572634	0.104141	0.052465	0.008283	0.16228	-0.24935	0.126269	-0.24308	0.859374	0.047348	0.795745	0.051784
CBY1	-0.18784	-0.14712	-0.07734	-0.24222	0.161744	0.279239	0.567416	0.069472	-0.37412	-0.18733	-0.14333	-0.11267	0.005214	0.106263	0.173786	0.227982
UNC84B	0.118045	-0.16227	0.07802	0.254049	0.381826	0.232136	0.56403	0.056527	0.350305	-0.119	0.073741	-0.19061	0.991499	0.21544	0.684887	0.10224
DSTYK	0.038591	0.052248	-0.23745	-0.04542	0.775638	0.70214	0.075321	0.737244	0.111096	0.107522	-0.02981	0.20328	0.766245	0.758979	0.423833	0.909764
RASGRP3	0.114138	-0.19734	0.03716	0.444953	0.397887	0.144888	0.783752	0.000524	0.059921	-0.07291	0.2228	0.233197	0.653791	0.315072	0.929367	0.940583
RAB3GAP2	0.047451	0.227288	-0.13824	0.27455	0.72596	0.092059	0.305127	0.038755	0.046493	0.386674	-0.09091	0.312204	0.620509	0.996029	0.276294	0.98267
RAD54B	0.026228	0.171671	-0.21669	-0.12666	0.846442	0.205831	0.105444	0.347819	-0.12689	0.179622	-0.06168	0.109027	0.200365	0.883854	0.343647	0.764626
TMEM59L	-0.15023	-0.09685	0.126103	-0.27157	0.264653	0.477654	0.349943	0.041004	-0.08122	-0.34446	0.049852	-0.31264	0.295773	0.009534	0.62749	0.017197
CCDC19	-0.15789	-0.16461	0.041916	-0.299	0.240791	0.225389	0.756878	0.02386	-0.23973	-0.31836	0.053035	-0.24048	0.054283	0.015533	0.63533	0.053718
NGEF	-0.29072	0.037567	-0.14842	-0.43822	0.028246	0.783408	0.270524	0.000651	-0.24956	-0.34414	0.030295	-0.24462	0.047204	0.009594	0.578303	0.050667
CIZ1	-0.01782	-0.09964	0.061727	-0.00144	0.89532	0.465017	0.648289	0.991536	0.028919	0.008098	-0.03247	-0.02769	0.575652	0.521298	0.416156	0.427528
FBXO7	-0.07267	0.068442	-0.20647	0.253711	0.591134	0.616226	0.123324	0.056868	0.08994	0.23255	-0.1203	0.207584	0.719245	0.935627	0.221115	0.911827
FSCN2	-0.08443	-0.04867	0.138578	-0.15731	0.532363	0.721668	0.303935	0.242553	0.116607	-0.25941	0.037545	-0.36842	0.779866	0.040847	0.596716	0.00588
PGLS	-0.044	-0.01682	-0.04647	-0.05433	0.745174	0.902105	0.731406	0.688128	-0.11306	0.180921	-0.23185	0.022495	0.227204	0.885562	0.062704	0.558981
QPCT	-0.04968	-0.03936	-0.17299	-0.03526	0.716135	0.775408	0.202309	0.796395	-0.32915	0.07301	0.095007	0.042213	0.012753	0.685167	0.732633	0.609703
BRI3	0.076077	-0.28635	0.332507	0.019243	0.577336	0.03239	0.012286	0.888052	0.219437	-0.50565	0.281521	-0.44596	0.928576	0.000169	0.969496	0.000948
ZNF324	-0.06095	-0.13401	0.102207	-0.16582	0.655451	0.329347	0.453519	0.221941	-0.1204	-0.12549	-0.06519	-0.2331	0.212725	0.202992	0.335248	0.059497
AMBN	0.13736	-0.2251	0.207291	-0.19745	0.312726	0.098462	0.12529	0.144666	-0.00254	-0.26108	0.035618	-0.21168	0.49331	0.03984	0.591841	0.078944
GAK	-0.06223	-0.02135	0.035007	-0.03064	0.64865	0.877046	0.797846	0.82263	-0.16737	0.346833	-0.12584	0.149823	0.133118	0.990897	0.205055	0.839842
SLC39A6	0.168748	0.279797	-0.2443	0.047595	0.209546	0.036753	0.067041	0.725156	0.009791	0.409406	-0.16444	0.24724	0.525746	0.997638	0.140203	0.951194
GCA	-0.07939	-0.12085	-0.13033	0.125945	0.557172	0.374955	0.333878	0.35055	-0.13978	-0.24773	0.062252	-0.17873	0.177101	0.048467	0.657719	0.117323
SVIP	0.076299	0.147826	-0.03167	0.084705	0.572681	0.276921	0.815087	0.531007	0.120159	0.264225	0.021563	0.199577	0.786815	0.962004	0.555906	0.908202
LMOD1	0.404877	-0.23134	0.396423	0.015711	0.001967	0.089251	0.002489	0.908504	0.425567	-0.45658	0.385385	-0.26977	0.998403	0.000713	0.99553	0.034911
SPDEF	-0.0591	0.132815	0.116758	0.092	0.662312	0.329158	0.387075	0.496096	-0.04175	0.064207	-0.16249	-0.08945	0.391473	0.66419	0.143116	0.277205
LSM4	-0.21425	0.029712	-0.20593	-0.40914	0.109519	0.827915	0.124332	0.001577	-0.46705	0.317728	-0.28663	0.155055	0.000534	0.984291	0.028134	0.848244
BAMBI	0.121822	0.069283	-0.19171	-0.21868	0.366672	0.611888	0.153115	0.102204	0.393178	-0.13309	0.21926	-0.19191	0.996565	0.188948	0.926069	0.10068
VAX2	0.007101	-0.17108	0.252251	-0.14373	0.958189	0.207413	0.058358	0.286144	0.311886	-0.54161	0.223027	-0.4702	0.981495	6.10E-05	0.927194	0.000559
RHBDD3	-0.00167	-0.12769	0.221141	-0.10248	0.990146	0.348318	0.098306	0.448091	0.072353	-0.27915	0.055544	-0.2491	0.68362	0.030142	0.641472	0.047516
TLL1	-0.19473	-0.15506	-0.11188	-0.34637	0.146623	0.253825	0.407338	0.008307	-0.37625	-0.1716	-0.02747	-0.11084	0.004982	0.127083	0.428925	0.231684
GALC	-0.09082	-0.04204	-0.08209	-0.04194	0.501678	0.758337	0.543791	0.756764	-0.20185	-0.0584	0.081945	-0.01345	0.089275	0.349933	0.703723	0.464665
SAMM50	-0.05081	0.203454	-0.19019	0.088994	0.709997	0.136269	0.160322	0.514242	-0.23691	0.644546	-0.27176	0.450445	0.056457	0.999999	0.035469	0.999159
ATXN10	0.106298	0.22192	-0.27196	0.104405	0.431292	0.100216	0.040704	0.439586	-0.06853	0.42474	-0.20568	0.292015	0.325434	0.99837	0.087639	0.975535
TNFAIP8	-0.07938	0.069098	-0.2165	0.084949	0.557245	0.612839	0.105758	0.52982	-0.25372	0.348507	-0.06604	0.337072	0.044434	0.991192	0.33322	0.98901
FAM19A5	0.189035	-0.33083	0.31573	-0.0332	0.159042	0.01276	0.016736	0.806347	0.137929	-0.44022	0.361888	-0.38433	0.816882	0.001238	0.992107	0.004572
KLK5	0.019253	-0.11804	0.225139	-0.26758	0.887999	0.390737	0.09526	0.046179	0.027899	-0.39068	0.278833	-0.28017	0.573013	0.003633	0.968188	0.029655
CCRN4L	0.049528	0.143445	0.175443	0.091724	0.71698	0.296116	0.195893	0.501367	-0.03628	0.177175	-0.11392	-0.00851	0.405412	0.880589	0.228104	0.477626
GALE	-0.11675	0.108952	0.032862	-0.01861	0.387104	0.424108	0.80826	0.890689	-0.08131	0.33352	-0.13332	0.15256	0.295575	0.988246	0.191316	0.844273
ARIH1	0.047702	0.160168	-0.21312	0.012788	0.724566	0.238325	0.111445	0.924782	0.008202	0.237791	-0.04746	0.196396	0.521571	0.944231	0.378443	0.904588
MTO1	0.149621	0.184415	-0.18877	0.339456	0.266631	0.173635	0.159633	0.009787	0.08741	0.457197	-0.14037	0.347736	0.718245	0.999299	0.178862	0.991057
DNAJB5	0.266643	-0.24865	0.156486	-0.0189	0.046979	0.067172	0.249431	0.890034	0.436341	-0.41666	0.35472	-0.27213	0.998783	0.001986	0.991596	0.033654
TPSG1	0.107927	-0.25877	0.374999	-0.21682	0.424221	0.054139	0.004051	0.105225	0.104535	-0.33017	0.134637	-0.19279	0.755335	0.012515	0.811053	0.09963
PRDX5	-0.13748	-0.13076	-0.09829	-0.10776	0.307813	0.336774	0.467001	0.424946	-0.40884	-0.04303	-0.18492	-0.0065	0.002393	0.388225	0.111973	0.482898
BACE2	0.10032	0.103198	0.307449	-0.01739	0.457786	0.449129	0.019996	0.897839	0.005407	0.402984	-0.10815	0.222189	0.514226	0.997255	0.239742	0.93111
FBXL2	-0.1696	-0.09509	-0.05549	-0.32043	0.207215	0.485739	0.681837	0.015096	-0.12629	-0.38362	0.074831	-0.26922	0.201485	0.004247	0.687417	0.035207
TXN2	-0.0215	0.345659	0.08758	0.157544	0.873844	0.009073	0.517106	0.241837	-0.09679	0.456971	-0.1687	0.18199	0.263538	0.999199	0.136824	0.884248
TMEM184F	0.049265	0.123937	0.083808	0.137436	0.715918	0.362794	0.53538	0.307976	-0.08664	0.444801	-0.16884	0.380162	0.283493	0.999023	0.133781	0.995421
B4GALNT1	0.062373	0.083162	0.215079	-0.10113	0.644854	0.542295	0.108119	0.45414	0.112291	-0.19642	0.12106	-0.32099	0.771255	0.095379	0.785868	0.014811
SULT4A1	-0.05472	0.057145	0.132959	-0.22642	0.686003	0.675705	0.324152	0.09034	-0.08312	-0.22114	-0.05468	-0.0856	0.291437	0.069848	0.360633	0.285815

HECTD1	-0.06975	0.231957	-0.28732	-0.05307	0.606137	0.085395	0.03023	0.695021	-0.12092	0.340451	-0.18281	0.178201	0.211713	0.989697	0.114683	0.881965
POU2F3	-0.00726	-0.03235	0.095622	-0.23483	0.957268	0.812872	0.479218	0.07869	-0.08381	-0.15669	0.104394	-0.25181	0.289881	0.149183	0.752525	0.045689
MGAT4C	0.067724	-0.00573	-0.03609	-0.09984	0.616688	0.966541	0.789817	0.459947	0.123354	-0.29435	0.013296	-0.1325	0.79025	0.02484	0.534131	0.192784
NIPBL	0.037007	0.202816	-0.20275	0.073938	0.784625	0.133839	0.130386	0.584655	0.08904	0.326617	0.007757	0.226783	0.721886	0.986634	0.520168	0.935192
RAB26	-0.11771	-0.07282	0.05811	-0.19047	0.387578	0.593802	0.670541	0.159687	0.224961	-0.39064	0.184002	-0.26662	0.933595	0.003636	0.886851	0.036638
COG4	-0.13512	0.114605	-0.22328	0.073199	0.316266	0.400315	0.095017	0.588425	-0.30583	0.464284	-0.322	0.288361	0.01937	0.999424	0.015499	0.974018
GALK1	-0.00205	-0.18202	0.190789	-0.00096	0.987909	0.179389	0.155139	0.994316	0.159292	-0.24204	0.201118	-0.17418	0.854838	0.052553	0.907374	0.123492
METTL7A	-0.04105	-0.00788	-0.05623	-0.09114	0.76386	0.954476	0.6806	0.504119	-0.03322	-0.06319	0.067142	-0.08264	0.413251	0.338266	0.669387	0.292525
ABTB2	0.160672	-0.34965	0.307726	-0.07268	0.232498	0.008255	0.019879	0.591052	0.147759	-0.40302	0.290712	-0.22279	0.833636	0.003026	0.972217	0.070645
ASF1A	0.071063	0.159949	-0.21585	0.147127	0.599379	0.238974	0.106837	0.274775	-0.04228	0.240028	-0.0965	0.298801	0.390133	0.945944	0.264161	0.978159
MOBK13	0.036561	0.2388	-0.24593	0.207227	0.787156	0.07632	0.065181	0.121932	0.087697	0.398786	-0.04927	0.317652	0.718888	0.996976	0.373955	0.98427
YIPF3	-0.01484	0.115509	-0.01535	0.052867	0.913569	0.401034	0.910586	0.698779	-0.087	0.336888	-0.22919	0.133847	0.282676	0.988971	0.064957	0.812411
LOC25845	0.03107	-0.17165	0.134648	0.056518	0.818533	0.205889	0.317985	0.676251	0.146954	-0.13056	0.100447	-0.03268	0.835112	0.193565	0.744256	0.414641
ANAPC13	-0.11532	0.173752	-0.17715	0.231006	0.39298	0.200305	0.187407	0.08383	-0.13301	0.222166	-0.0628	0.249518	0.189099	0.931089	0.340971	0.952768
DKFZP564C	0.197874	-0.106	0.257109	0.365141	0.140091	0.436835	0.053518	0.005225	0.203469	-0.01445	0.118345	0.168541	0.912491	0.462038	0.780614	0.868574
GALK2	-0.09451	-0.00913	-0.11095	-0.00715	0.484372	0.946732	0.411268	0.957891	-0.15851	0.059095	-0.05659	0.05006	0.14637	0.651773	0.355986	0.629446
ZNF345	-0.038	0.18301	-0.13634	0.06168	0.778982	0.176994	0.311898	0.648541	-0.14755	0.171871	-0.0279	0.032902	0.163891	0.8733	0.42782	0.585923
TECPR1	0.064099	-0.18575	0.267625	-0.06345	0.63571	0.170499	0.044152	0.639143	0.02909	-0.2378	0.138331	-0.28223	0.576094	0.055762	0.817587	0.028694
ARMC8	0.063568	0.191589	-0.17015	0.199281	0.63852	0.157208	0.205738	0.137237	0.105805	0.274881	-0.19182	0.241779	0.755448	0.966184	0.106124	0.945212
WDR40A	-0.14626	0.106046	-0.39163	0.053882	0.28209	0.436644	0.002837	0.693282	-0.2545	0.087987	-0.24769	0.036172	0.045795	0.717267	0.052499	0.593244
FAM149A	-0.19967	-0.12769	-0.02184	-0.31507	0.136462	0.348314	0.871878	0.016979	-0.34116	-0.19689	-0.01705	-0.19379	0.010163	0.094847	0.455752	0.098452
BRMS1	-0.06698	-0.07092	-0.04711	0.037223	0.620574	0.603483	0.727875	0.783393	-0.25841	0.185926	-0.19392	0.097706	0.04146	0.891981	0.100909	0.740856
C11orf20	0.147565	-0.14108	0.32856	0.033606	0.273333	0.299684	0.012585	0.804001	0.025926	-0.09994	-0.00808	0.054027	0.5679	0.254359	0.478991	0.639307
PART1	-0.04298	-0.1437	-0.13206	-0.01815	0.755382	0.29525	0.336515	0.895377	0.122004	-0.2508	-0.03716	-0.40673	0.790375	0.046366	0.40426	0.002515
DFNB31	-0.09303	-0.32912	0.180047	-0.38732	0.495257	0.014146	0.184231	0.003187	-0.27124	-0.43955	0.076522	-0.33694	0.034127	0.00112	0.691326	0.011017
USP49	-0.12942	0.233265	-0.14795	-0.56056	0.33731	0.083599	0.272085	5.76E-06	0.03639	-0.29227	-0.16198	-0.44062	0.594871	0.024363	0.143871	0.00109
ABHD14A	0.159398	-0.24133	0.246988	-0.187	0.236272	0.073166	0.063995	0.163667	0.150419	-0.15556	0.402331	-0.25087	0.838	0.153773	0.996609	0.048233
PRKD2	-0.04662	-0.2147	0.086918	0.12885	0.730596	0.112063	0.520289	0.339461	-0.2056	0.173372	-0.07489	0.15711	0.085221	0.875393	0.312452	0.851465
GALR1	-0.19346	-0.03256	0.095993	-0.08836	0.153113	0.811726	0.481577	0.51724	0.147014	-0.39749	0.17949	-0.30462	0.835213	0.003115	0.880957	0.019778
SUMF2	-0.04326	-0.04105	-0.05209	0.050238	0.749328	0.763885	0.700397	0.710546	-0.1934	0.324307	-0.1978	0.10704	0.09891	0.986055	0.096385	0.76054
C3orf17	-0.00144	0.302393	-0.14577	0.245423	0.991512	0.023502	0.27929	0.065753	0.068975	0.432259	-0.0824	0.270239	0.675617	0.99865	0.295252	0.965343
RPL36	0.055298	-0.13455	0.15415	-0.03545	0.682865	0.322819	0.252259	0.79348	0.15708	-0.12291	-0.04903	-0.10171	0.851419	0.207898	0.374551	0.250606
BRP44	-0.2755	0.030115	-0.20321	-0.00329	0.038056	0.825618	0.129491	0.98063	-0.28621	-0.00327	-0.18116	-0.0443	0.026908	0.491391	0.116835	0.385023
LETMD1	0.035655	0.180649	-0.12631	0.240286	0.79231	0.182745	0.349159	0.071797	-0.04021	0.41765	-0.25433	0.322234	0.396554	0.997845	0.047855	0.984564
SPEF1	-0.20981	-0.25451	0.068125	-0.34741	0.117253	0.058371	0.614598	0.008101	-0.32072	-0.37037	-0.03709	-0.25588	0.014885	0.005644	0.404443	0.043041
MXRA5	0.359401	-0.00657	0.08829	0.424954	0.006038	0.961643	0.513702	0.000984	-0.14859	0.632336	-0.04939	0.642002	0.162179	0.999999	0.373664	0.999999
WDSOF1	-0.07074	0.030062	0.026329	0.076332	0.604396	0.827525	0.84726	0.576061	-0.23192	0.356591	-0.07621	0.161203	0.060461	0.992503	0.309397	0.857749
GALNS	-0.25109	-0.10074	0.021703	-0.25453	0.059568	0.460067	0.872688	0.056046	-0.24524	-0.24706	0.058202	-0.36952	0.05222	0.050902	0.64627	0.006242
TMEM186	0.177901	0.097475	-0.16315	0.024019	0.189603	0.4748	0.229594	0.860522	0.068083	0.417965	-0.15576	0.193207	0.673493	0.998076	0.153454	0.900864
CHRD12	0.117219	0.024073	0.283149	-0.0646	0.385187	0.860208	0.032822	0.633081	0.112078	-0.24426	0.209767	-0.15181	0.770826	0.050926	0.916669	0.156926
POLR1A	0.074501	0.299466	-0.01819	0.273366	0.585273	0.026342	0.894122	0.041495	0.006588	0.650309	-0.18708	0.509441	0.517329	0.999999	0.109249	0.99985
WDR51A	-0.20611	0.028017	-0.07599	-0.27279	0.123995	0.837592	0.57422	0.04007	-0.28072	0.308607	-0.25223	0.19214	0.029396	0.981543	0.04731	0.899596
ZNF473	-0.22569	0.048517	-0.17019	-0.35531	0.091405	0.722524	0.205615	0.006683	-0.36609	-0.0867	-0.1654	-0.17395	0.006172	0.283344	0.138785	0.123807
GALNT1	-0.06426	0.346677	-0.4397	0.105089	0.634849	0.008858	0.000621	0.436579	-0.04164	0.493209	-0.1358	0.400197	0.391743	0.999752	0.186878	0.997072
ABI3BP	0.336463	-0.15382	0.201734	0.296855	0.01123	0.262194	0.135971	0.026303	0.202864	-0.10408	0.296675	0.257508	0.911834	0.245619	0.97609	0.95798
DKFZP586F	0.13296	-0.2069	0.172086	-0.22575	0.324145	0.126014	0.200542	0.091314	-0.30519	-0.21552	-0.04929	-0.0773	0.019584	0.075147	0.373908	0.304809
TRIM58	-0.02765	-0.33115	0.210289	-0.18474	0.83821	0.012668	0.116395	0.168898	0.02333	-0.52003	0.107055	-0.44494	0.559743	0.000148	0.752787	0.001238
PLEKHG4	0.187689	-0.08818	0.10837	-0.18603	0.162087	0.518107	0.422313	0.165889	0.195801	0.117073	0.186174	-0.15167	0.901306	0.778128	0.886861	0.159968
FAM119B	0.046398	-0.12902	0.260981	0.086134	0.731809	0.343302	0.049897	0.524075	0.379975	-0.19778	0.163889	-0.10891	0.995402	0.093832	0.858982	0.235624
INTS7	-0.00397	0.341742	-0.26754	0.263387	0.976631	0.009943	0.044222	0.047751	-0.14186	0.697439	-0.22937	0.461768	0.173495	1	0.0648	0.999382

RNF19A	0.062834	-0.03063	-0.01977	0.330378	0.642408	0.82267	0.883966	0.012075	0.198598	0.183479	0.103905	0.234245	0.9071	0.888875	0.751508	0.94143
RCHY1	0.077332	0.12971	-0.15113	0.262402	0.567478	0.340692	0.261795	0.04862	0.062778	0.331245	-0.07167	0.287016	0.660737	0.987734	0.319945	0.973442
AMBP	-0.10305	-0.14387	0.110304	-0.13751	0.445598	0.290132	0.414031	0.307698	0.068113	-0.3104	0.130803	-0.21201	0.673563	0.01789	0.804126	0.078608
GALNT2	0.067081	0.07388	-0.07437	0.545401	0.620041	0.58841	0.582462	1.15E-05	0.176382	0.469696	0.0254	0.353389	0.879517	0.999505	0.565772	0.992005
IFFO1	0.056077	-0.2521	0.340516	0.321152	0.678641	0.060872	0.009546	0.014857	0.147272	-0.36871	0.266039	-0.03473	0.832829	0.006346	0.959552	0.410408
CCDC28A	-0.1154	0.048458	-0.15189	-0.09624	0.392656	0.722847	0.25935	0.476368	-0.37653	0.203385	-0.17448	0.068136	0.004952	0.9124	0.125824	0.673619
MTHFD1L	-0.03244	0.124649	-0.01862	0.34486	0.810654	0.36002	0.890636	0.008612	0.031531	0.22997	0.03276	0.257146	0.582393	0.937914	0.584584	0.957754
OLFML2B	0.287864	-0.29589	0.239262	0.320367	0.029904	0.026819	0.073052	0.015118	0.067581	0.096643	0.203055	0.339556	0.672292	0.738564	0.909517	0.989519
CNOT10	-0.06283	0.108381	-0.24645	-0.04244	0.64245	0.426552	0.06459	0.753934	-0.2531	0.38099	-0.13396	0.298527	0.044835	0.995502	0.190157	0.978058
C11orf51	-0.12479	0.116631	-0.05243	-0.38247	0.355036	0.391981	0.698496	0.003324	-0.30379	-0.01023	-0.12942	-0.09471	0.020061	0.473097	0.198417	0.265639
TMEM158	0.139781	-0.2079	0.341906	-0.12741	0.299713	0.124163	0.009238	0.344942	0.239239	-0.59732	0.310025	-0.51787	0.943264	7.40E-06	0.979722	0.000134
AHCTF1	0.090637	0.049442	-0.15262	0.101392	0.50253	0.717451	0.257045	0.452971	0.189909	-0.0268	0.02068	-0.07071	0.89426	0.430626	0.552998	0.322206
GALNT3	-0.08215	0.291795	-0.17868	-0.15935	0.543519	0.029104	0.183562	0.236412	-0.01007	0.121193	-0.13811	0.027427	0.473834	0.786123	0.185646	0.57097
RP11-52911	-0.14741	-0.19431	-0.0056	-0.26742	0.273837	0.15129	0.967032	0.044319	-0.27828	-0.25781	-0.02715	-0.14826	0.030558	0.041829	0.429735	0.162732
C1orf43	-0.05493	0.18257	-0.27616	0.187399	0.684878	0.178056	0.037578	0.162748	-0.12949	0.535185	-0.34064	0.428804	0.195537	0.999936	0.011017	0.998527
POT1	0.099461	0.113667	-0.12864	0.121987	0.461664	0.404206	0.340238	0.366017	0.170913	0.277962	0.007064	0.236891	0.871952	0.969285	0.518367	0.94353
RTTN	-0.03668	0.090914	-0.1907	0.066647	0.786498	0.505173	0.155334	0.622311	-0.10401	0.335068	-0.22039	0.062863	0.248275	0.987773	0.075279	0.659184
C3orf60	-0.10861	-0.28199	-0.03223	-0.01917	0.421282	0.035241	0.811876	0.887442	-0.23588	-0.11711	-0.10739	-0.12516	0.057269	0.219138	0.241285	0.203608
THUMP3	-0.04215	0.336599	-0.38302	0.209636	0.755568	0.011195	0.003274	0.11756	-0.095	0.622529	-0.20496	0.436553	0.264998	0.999998	0.088414	0.99879
ALS2CL	-0.11454	0.093011	-0.12793	-0.10942	0.396227	0.49536	0.342965	0.417808	-0.1331	0.301947	-0.29365	0.079174	0.188935	0.979296	0.025125	0.699522
NCR3	0.063914	-0.2201	0.212386	-0.20952	0.636688	0.103101	0.112714	0.117773	0.098925	-0.24349	0.067779	-0.19192	0.743471	0.051484	0.670897	0.100666
GALT	0.124127	-0.07515	0.148924	0.232854	0.357605	0.582007	0.26889	0.081314	0.167335	-0.10679	0.156748	0.002546	0.86405	0.242531	0.845212	0.506622
COBRA1	-0.04117	-0.05277	-0.02424	-0.01442	0.76105	0.69929	0.857948	0.915242	-0.16089	0.272869	-0.26146	0.099337	0.142726	0.966728	0.041377	0.744352
ZDHC5	-0.07169	0.341344	-0.1033	0.165139	0.599562	0.010759	0.448678	0.223877	-0.07489	0.695367	-0.30578	0.429749	0.310415	1	0.020538	0.998562
LY6G6F	0.051384	-0.19566	0.262248	-0.20975	0.704245	0.14842	0.048758	0.117349	0.111214	-0.46305	0.222763	-0.49143	0.76908	0.000597	0.929333	0.000262
HSPA12A	0.129201	-0.13264	0.21145	-0.30362	0.338136	0.329817	0.114345	0.021677	0.215261	-0.65116	0.238465	-0.5245	0.924598	4.79E-07	0.942661	9.14E-05
ATL3	0.096601	0.233129	-0.23498	0.358297	0.47471	0.083783	0.078496	0.006207	0.095927	0.474521	-0.07642	0.381359	0.737015	0.999569	0.3089	0.995538
SGMS1	-0.05513	0.344438	-0.2876	0.060537	0.683803	0.009337	0.030061	0.654636	-0.04944	0.447692	-0.20637	0.297769	0.372094	0.999095	0.0869	0.977776
NALCN	0.075719	-0.23529	0.211152	-0.21907	0.575614	0.080874	0.114869	0.10157	0.192381	-0.5478	0.252807	-0.45979	0.899883	4.07E-05	0.953081	0.000653
DSCR10	0.0552	-0.25013	0.216345	-0.28105	0.683399	0.062989	0.10601	0.034193	0.226146	-0.32901	0.255636	-0.29064	0.934637	0.012788	0.954952	0.025027
TMIE	-0.10619	-0.19107	0.14198	-0.19552	0.43174	0.15835	0.292101	0.14497	0.035829	-0.39735	0.098645	-0.36312	0.593435	0.003125	0.740434	0.006563
WFDC11	0.019557	-0.25825	0.053866	-0.29462	0.886241	0.05695	0.693366	0.027512	-0.17411	-0.3606	0.158789	-0.28992	0.126344	0.007479	0.848381	0.026689
MYRIP	0.24501	-0.38027	0.347343	0.055331	0.066223	0.003841	0.008115	0.68269	0.21148	-0.55694	0.167303	-0.42657	0.920858	2.91E-05	0.864004	0.001557
WFDC9	0.037514	-0.22342	0.084481	-0.4202	0.783704	0.101081	0.535888	0.001263	0.003536	-0.33298	0.138251	-0.32718	0.509304	0.011875	0.817448	0.013228
MRGPRX1	0.120619	0.034483	0.200452	-0.26422	0.371455	0.800807	0.134895	0.047025	0.279716	-0.31423	0.146342	-0.41077	0.970129	0.016721	0.831283	0.002287
ZNF521	0.378281	-0.21932	0.173224	0.333806	0.003716	0.104365	0.197535	0.011162	0.468935	-0.20778	0.33766	0.055769	0.999494	0.082932	0.988349	0.64361
NOL11	0.01673	0.319698	-0.3014	0.204272	0.901699	0.016313	0.022707	0.127465	0.016476	0.510201	-0.19249	0.392782	0.543271	0.999854	0.102609	0.996534
ASPM	-0.0942	0.302663	-0.22617	-0.0787	0.489815	0.024703	0.093716	0.564261	-0.12425	0.677735	-0.23366	0.357249	0.205328	1	0.061197	0.992602
CNRIP1	0.363999	-0.27527	0.288225	0.220153	0.005379	0.040038	0.029689	0.099857	0.372965	-0.34928	0.227312	-0.08404	0.994657	0.008675	0.933411	0.289355
SOSTDC1	0.270702	0.074797	-0.04734	0.08774	0.041682	0.583779	0.726599	0.516339	-0.04877	0.399601	-0.06929	0.431785	0.37378	0.997032	0.325528	0.998634
BOD1L	0.137195	0.080591	-0.09607	0.037524	0.308834	0.55489	0.477144	0.781685	0.166855	-0.03408	0.183095	-0.08724	0.866137	0.411045	0.885683	0.282145
TAS2R39	0.04966	-0.21443	0.11183	-0.11923	0.713736	0.112518	0.407561	0.377032	0.022932	-0.42527	0.029046	-0.38117	0.560119	0.001608	0.575111	0.00448
TAS2R40	-0.05143	-0.00368	0.160165	-0.18994	0.703967	0.978545	0.233996	0.157013	-0.03229	-0.21574	0.033699	-0.21207	0.41564	0.074938	0.586972	0.07855
TAS2R41	-0.08372	0.121649	0.087546	-0.1547	0.535825	0.371789	0.517271	0.250557	0.098913	-0.28006	0.120057	-0.31173	0.743445	0.029709	0.783936	0.017475
TAS2R43	-0.06006	0.08635	-0.02717	0.178863	0.657166	0.52687	0.840968	0.183112	0.116607	-0.03348	-0.19451	0.150583	0.777214	0.413574	0.102897	0.838266
GEMIN5	0.112891	0.112783	-0.21152	0.246382	0.407444	0.412315	0.117594	0.067175	-0.08665	0.401246	-0.31893	0.270536	0.283457	0.997142	0.016367	0.965502
TAS2R44	0.174375	0.129155	-0.09132	-0.01295	0.194527	0.342779	0.49928	0.923858	0.209788	0.162783	-0.13941	0.122533	0.91669	0.85733	0.183387	0.788688
TAS2R46	0.136232	0.018815	-0.09183	0.039706	0.316754	0.891549	0.500879	0.771397	0.115654	0.200681	-0.1877	0.084211	0.775338	0.906886	0.111217	0.708836
TAS2R48	0.130411	0.232969	0.022613	0.173159	0.333589	0.084002	0.8674	0.197707	0.169359	0.251097	-0.20946	0.181864	0.866971	0.951922	0.086192	0.884083
TAS2R49	0.160994	0.173408	-0.07967	0.089027	0.231552	0.201213	0.555788	0.510179	0.18218	0.18561	-0.13595	0.172894	0.884496	0.888903	0.189456	0.87197

TAS2R50	0.211454	0.157471	-0.04294	0.02178	0.114338	0.246426	0.751126	0.872242	0.110485	0.127304	-0.21371	0.00624	0.765012	0.797676	0.081816	0.516224
GAMT	0.046296	0.027981	0.180188	-0.1237	0.732375	0.837802	0.179837	0.359256	0.088207	-0.1395	0.084298	-0.0763	0.720028	0.177572	0.709031	0.307129
PTPN23	-0.02798	-0.02887	0.154614	-0.10633	0.836337	0.832704	0.250816	0.431147	-0.00065	0.029808	0.033961	-0.02463	0.4983	0.577949	0.587636	0.435465
IL4I1	-0.06856	-0.05384	0.224567	-4.62E-05	0.612327	0.693524	0.093072	0.999728	0.008262	-0.15475	0.139285	-0.14215	0.521731	0.152239	0.819252	0.173004
CLIC4	0.307802	-0.21649	0.140387	0.311318	0.019847	0.109033	0.297605	0.018412	0.484715	-0.43376	0.291809	-0.21326	0.99968	0.0013	0.974112	0.077361
NIPSNAP3A	0.057806	0.220778	-0.20668	0.108947	0.669295	0.102021	0.122949	0.419833	-0.01607	0.497738	-0.18541	0.300114	0.457779	0.999784	0.111355	0.97864
NSL1	0.047876	0.153244	-0.15235	0.152348	0.723603	0.259497	0.2579	0.257912	-0.05776	0.422366	0.003055	0.362202	0.351493	0.998272	0.507946	0.993312
WWTR1	0.323137	-0.02341	0.148681	0.26903	0.014216	0.864014	0.269683	0.04301	0.399018	0.087403	0.242666	0.208348	0.996992	0.718229	0.94588	0.91766
HEATR5A	-0.07387	0.182414	-0.23689	0.084802	0.584974	0.178434	0.076029	0.530535	-0.14975	0.337369	-0.14535	0.233291	0.160278	0.989072	0.170379	0.940659
SAMHD1	-0.14474	-0.24143	-0.08735	0.269144	0.282722	0.073037	0.518211	0.042918	-0.04764	-0.06925	0.064325	0.125772	0.376616	0.323727	0.662682	0.797539
FAM98A	0.04504	0.229828	-0.20998	0.159306	0.739377	0.088385	0.11695	0.236546	0.045597	0.298402	-0.10688	0.302186	0.618254	0.978012	0.242334	0.97938
C18orf10	-0.08925	0.158524	-0.22917	-0.09696	0.509101	0.243242	0.086392	0.47306	-0.1922	0.084395	0.043419	0.046996	0.102959	0.70925	0.610203	0.620409
SIN3A	-0.00528	0.272217	-0.29739	-0.07209	0.969174	0.042392	0.02602	0.59748	-0.15359	0.471758	-0.21453	0.25396	0.154086	0.999533	0.078507	0.955724
C20orf194	0.029603	-0.01994	0.024091	-0.11597	0.826965	0.884023	0.858819	0.390287	-0.16907	-0.0566	-0.03179	-0.05393	0.130669	0.354333	0.41788	0.360922
PVRL3	0.242812	-0.19967	0.065317	0.152186	0.068771	0.140104	0.629293	0.258426	0.375593	-0.37498	0.11165	-0.0775	0.994948	0.005119	0.767361	0.304338
ZNF385A	0.03872	0.062502	-0.09366	-0.21881	0.774906	0.647223	0.488346	0.101987	-0.03679	0.077216	0.112988	0.037169	0.405183	0.692925	0.767379	0.595766
KBTBD2	0.085617	0.131703	-0.17575	0.380837	0.526579	0.333259	0.190988	0.003472	0.109743	0.455065	-0.06703	0.424365	0.766089	0.999257	0.330887	0.998355
SYF2	-0.04042	0.098112	-0.28634	-0.0328	0.765283	0.471908	0.030824	0.808624	-0.35602	0.151303	-0.16079	0.160171	0.007585	0.842248	0.14568	0.856182
GANC	-0.13224	0.161927	-0.16877	0.104748	0.326783	0.23314	0.209473	0.438076	0.162165	0.235663	-0.07631	0.228943	0.859201	0.942563	0.309172	0.937046
RWDD3	0.192432	-0.07681	0.010026	0.072288	0.151548	0.57366	0.940993	0.593087	0.191412	0.083089	-0.01173	-0.02232	0.898724	0.708491	0.469516	0.441485
PNKD	-0.24146	-0.13613	0.101284	-0.15936	0.070372	0.317137	0.453454	0.236388	-0.22415	-0.39257	0.227458	-0.28657	0.069409	0.003823	0.931213	0.028163
SEC31B	0.058763	-0.13775	0.173943	0.14584	0.664143	0.311325	0.195652	0.279043	0.154941	-0.23024	0.049351	-0.19548	0.848065	0.06186	0.62625	0.096467
SFRS18	0.088054	0.074409	0.008337	0.059004	0.514832	0.585735	0.950923	0.66285	0.353574	-0.13972	0.227566	-0.1501	0.991405	0.179992	0.93131	0.162527
KANK2	0.374843	-0.30641	0.282548	0.093497	0.004068	0.02163	0.033211	0.489086	0.424413	-0.42432	0.378303	-0.23403	0.998357	0.001647	0.994801	0.058742
GAP43	0.200304	-0.27463	0.22499	-0.36665	0.138827	0.042443	0.095485	0.005447	0.173298	-0.36828	0.299336	-0.42661	0.87529	0.005897	0.977118	0.001556
GPR124	0.299529	-0.24893	0.268106	0.205934	0.023602	0.064312	0.043759	0.124331	0.207373	-0.11703	0.210858	0.09804	0.916645	0.219292	0.91779	0.741574
NUDT13	-0.08003	0.018693	-0.04738	-0.32893	0.55399	0.891234	0.726353	0.012478	-0.17853	-0.21167	0.105369	-0.21201	0.117589	0.078948	0.754547	0.078614
KIAA1429	0.043736	0.107048	-0.20089	0.040077	0.746663	0.432299	0.134034	0.767239	0.038495	0.148262	-0.01076	0.20113	0.60025	0.837279	0.472029	0.909932
TMEM87A	0.001715	0.333266	-0.23701	0.164687	0.989896	0.012077	0.075873	0.220881	-0.0567	0.519471	-0.17029	0.363965	0.354091	0.999892	0.131694	0.99355
C2CD2	0.016266	0.009727	0.169467	0.054116	0.90441	0.94328	0.207581	0.689298	0.183607	0.144607	-0.04256	0.041187	0.889038	0.831179	0.390674	0.607101
SH2B1	0.054644	-0.0971	0.160383	-0.01233	0.68642	0.476511	0.23335	0.927468	0.04321	-0.01528	0.030786	-0.08572	0.612229	0.459848	0.579554	0.285549
UNC50	0.07092	0.154891	-0.13615	0.241857	0.600118	0.254349	0.312566	0.069903	0.047938	0.322435	-0.17798	0.13394	0.624137	0.985571	0.121063	0.812578
PARS2	-0.17255	-0.07745	0.073368	-0.07597	0.199309	0.57049	0.587557	0.574318	0.043049	0.12906	-0.12662	0.059132	0.611821	0.803674	0.203599	0.651863
MMACHC	-0.17582	-0.12219	0.013202	0.159086	0.190806	0.36965	0.922356	0.237203	-0.02086	0.067522	-0.04633	0.164773	0.445288	0.672152	0.381248	0.863086
EGFL6	0.168334	0.265706	-0.16395	-0.15138	0.210681	0.047788	0.222976	0.260983	-0.1309	0.439057	0.051804	0.439821	0.192942	0.998865	0.632304	0.998888
TIPARP	-0.06209	0.226171	-0.29442	-0.12738	0.649418	0.096835	0.027624	0.349521	0.042364	0.189514	-0.03181	0.011759	0.610086	0.896426	0.417836	0.530911
NECAP1	0.07197	0.088796	-0.10531	0.301871	0.594717	0.515182	0.435595	0.022483	-0.09652	0.436991	-0.00525	0.312041	0.261702	0.998803	0.486361	0.98262
CHMP2B	-0.02654	0.218025	-0.2721	0.096215	0.844627	0.106475	0.040599	0.476483	-0.12127	0.405346	-0.11298	0.306822	0.211034	0.997402	0.229974	0.980961
DHRS7B	-0.15665	-0.04279	0.000968	-0.16351	0.244568	0.7542	0.994297	0.224229	-0.52241	0.14432	-0.30346	0.193831	9.80E-05	0.830694	0.021361	0.901601
C20orf4	-0.01665	0.155918	-0.26027	-0.00028	0.90219	0.251175	0.050543	0.998335	-0.131	0.570792	-0.23797	0.233643	0.19275	0.999983	0.057726	0.940944
DNAH1	-0.12619	-0.24743	0.074568	-0.28679	0.349612	0.065985	0.581449	0.030549	-0.25838	-0.35152	0.002013	-0.28361	0.041481	0.008299	0.505234	0.028064
NGDN	-0.06258	0.271716	-0.32496	0.270525	0.643732	0.042789	0.013647	0.041821	-0.03913	0.545674	-0.19605	0.327533	0.398131	0.999956	0.098403	0.986858
KRT23	-0.08117	0.22519	-0.23023	-0.15748	0.548332	0.095183	0.0849	0.24204	-0.09323	0.430236	-0.19644	0.161962	0.26886	0.998579	0.097951	0.858896
TSKU	-0.02935	0.104242	-0.00426	0.155187	0.830004	0.448817	0.975122	0.25343	0.15932	0.194364	-0.1124	0.087495	0.854881	0.902227	0.231135	0.718435
HINFP	-0.179	0.164643	-0.07729	0.023542	0.182772	0.225289	0.567704	0.862005	-0.13541	0.362639	-0.24109	0.11137	0.184797	0.993372	0.055311	0.769394
ULK3	-0.20104	0.147754	-0.07368	-0.16806	0.133734	0.277156	0.585968	0.211423	-0.28674	0.240535	-0.23483	-0.01932	0.026679	0.946326	0.060244	0.449294
SNED1	-0.01939	-0.4098	0.033686	-0.27726	0.887197	0.001889	0.805321	0.038566	0.130854	-0.47505	0.129032	-0.38676	0.806976	0.000425	0.800876	0.003964
HIGD1A	-0.00947	0.057141	-0.25138	-0.02496	0.944287	0.675729	0.059258	0.853769	0.017445	0.082906	-0.16686	0.045829	0.545806	0.708074	0.136641	0.618838
REXO2	-0.05484	0.272897	-0.34353	0.094473	0.685376	0.041859	0.00889	0.484542	0.156071	0.257325	-0.06706	0.325899	0.849842	0.957866	0.3308	0.986456
IBTK	-0.05473	0.353869	-0.20797	0.1123	0.685981	0.00746	0.120566	0.405581	0.095153	0.430689	-0.06538	0.317963	0.735336	0.998595	0.334791	0.984357

CLIP3	0.333224	-0.28657	0.366526	0.036681	0.011313	0.032251	0.005044	0.786475	0.419486	-0.53771	0.325535	-0.37947	0.998146	5.82E-05	0.98545	0.004648
ABP1	-0.11531	-0.11051	0.114782	-0.14367	0.393019	0.417459	0.395214	0.286326	0.003581	-0.07063	0.086311	-0.18269	0.509422	0.320453	0.713539	0.112145
TBC1D10B	-0.16211	-0.12098	-0.12581	-0.19689	0.228286	0.374433	0.351079	0.142124	-0.37329	0.098711	-0.24402	-0.09548	0.005306	0.743013	0.053116	0.263947
RNF167	-0.01379	0.033919	0.059673	-0.15359	0.918911	0.803998	0.65926	0.254005	-0.20874	0.175195	-0.26651	0.072872	0.081939	0.877902	0.038395	0.684841
MOXD1	0.2704	-0.17404	0.172712	0.297181	0.043845	0.203805	0.203054	0.026131	0.376166	-0.33627	0.287726	0.010513	0.995009	0.011158	0.972353	0.527642
GORASP2	0.10273	0.321351	-0.16871	0.275489	0.447002	0.015737	0.209645	0.038066	0.100394	0.520707	-0.1171	0.407875	0.746605	0.999896	0.221825	0.997551
C2CD3	-0.13926	0.001227	-0.11232	-0.249	0.301555	0.992839	0.405507	0.061793	-0.32643	-0.02246	-0.06265	0.013212	0.013412	0.441117	0.341319	0.534722
DAK	-0.12054	0.099703	-0.13027	-0.19919	0.371788	0.464713	0.334117	0.137423	-0.33966	0.404402	-0.06721	0.079159	0.010459	0.997344	0.330444	0.699488
ZZZ3	0.013174	0.226664	-0.15199	0.229304	0.922519	0.09298	0.259038	0.0862	0.076837	0.385962	-0.04196	0.346009	0.694114	0.995966	0.392155	0.99075
LOC26010	0.044711	0.084853	-0.13724	0.04425	0.741212	0.534084	0.308682	0.743788	-0.05366	0.468668	-0.08352	0.41417	0.361592	0.99949	0.292728	0.997892
ODZ4	-0.14924	0.389458	-0.27457	-0.30161	0.267857	0.003009	0.038742	0.022603	-0.30251	0.549449	-0.16422	0.249336	0.020506	0.999962	0.140525	0.952644
NELF	-0.00577	-0.00629	0.139152	-0.19709	0.966026	0.963303	0.301917	0.141703	0.214879	0.012561	-0.0347	-0.15815	0.924226	0.533016	0.41049	0.146916
L3MBTL	-0.15893	-0.09747	0.086477	-0.35445	0.237681	0.474837	0.522417	0.006826	-0.2605	-0.11391	-0.03324	-0.15818	0.041969	0.228124	0.415199	0.149681
RPAP1	0.016857	-0.00673	0.225398	-0.08061	0.901863	0.96109	0.09487	0.554774	-0.11421	0.15938	-0.06272	0.116788	0.224897	0.854972	0.341156	0.780223
FAM32A	-0.13038	0.240033	-0.23102	0.030972	0.338165	0.077538	0.086703	0.820736	-0.17338	0.521741	-0.22989	0.349397	0.124597	0.9999	0.064361	0.991345
LRIG1	0.037825	-0.15982	0.037123	-0.05372	0.779982	0.239367	0.783964	0.691456	-0.23765	0.168697	-0.14552	0.135561	0.055879	0.868798	0.1701	0.81548
UPF2	0.012656	0.133523	-0.16307	0.049648	0.925558	0.326563	0.225499	0.713802	0.051042	0.167052	-0.03979	0.156034	0.631894	0.866423	0.397618	0.849784
LRP10	-0.11784	0.221413	-0.12151	0.114155	0.387077	0.104256	0.372327	0.402179	-0.12809	0.439994	-0.176	0.222773	0.198114	0.998893	0.123741	0.931639
TMEM98	0.114004	-0.3621	0.089447	0.148282	0.398445	0.006101	0.508178	0.270983	0.136546	-0.27894	0.076083	-0.03449	0.81723	0.030244	0.690313	0.409996
PTCD1	-0.1389	-0.0306	0.045262	-0.16988	0.302787	0.822871	0.73814	0.206456	-0.21892	0.050394	0.016257	-0.08361	0.071905	0.630278	0.542207	0.290316
PCDHGA12	0.037208	0.012489	0.081988	0.052336	0.78348	0.927211	0.544315	0.699021	0.17561	0.10492	-0.11309	0.123604	0.878468	0.75614	0.229747	0.793435
ACOT11	0.08214	-0.00894	0.172106	-0.12793	0.543562	0.947889	0.200488	0.342933	0.087474	-0.09394	0.121171	-0.20131	0.716129	0.269686	0.783337	0.092408
CYP4X1	0.245043	-0.45592	0.292679	-0.0308	0.068723	0.000469	0.028598	0.821707	0.277935	-0.36756	0.194394	-0.34263	0.969272	0.005987	0.899654	0.00988
PLEKHG3	0.013924	-0.03444	-0.03793	0.010383	0.918124	0.801028	0.779381	0.938896	0.073206	0.139647	-0.09144	0.056873	0.685628	0.822676	0.275121	0.646325
OSBPL3	-0.17223	0.135362	-0.21078	-0.12411	0.200147	0.319882	0.115527	0.357664	-0.1789	0.092777	-0.08598	-0.00265	0.117101	0.730145	0.287207	0.493037
SUSD5	0.161509	-0.21791	0.277346	-0.3192	0.230042	0.10666	0.036736	0.015513	0.19855	-0.33465	0.159941	-0.36882	0.904478	0.012321	0.850151	0.006331
ATRNL1	0.20104	-0.12314	0.036287	0.182158	0.133731	0.365898	0.788716	0.175044	0.092424	-0.16484	0.173409	0.030813	0.72937	0.136813	0.872686	0.580542
IPCEF1	-0.15939	-0.03288	-0.23102	0.005697	0.236296	0.809876	0.083815	0.966454	-0.15176	-0.08915	0.089263	0.07128	0.157022	0.277872	0.72009	0.681087
GLCE	-0.03837	0.401765	-0.15857	-0.00287	0.776898	0.002147	0.238761	0.983081	0.12232	0.306363	-0.10308	0.218857	0.788281	0.979662	0.252764	0.925687
ZNF451	0.069687	0.201195	-0.13287	0.107771	0.606486	0.137041	0.324478	0.424894	0.018523	0.223056	-0.03774	0.06639	0.548622	0.931895	0.402797	0.66944
SIPA1L1	0.033022	0.298609	-0.18158	-0.04891	0.807342	0.025387	0.176433	0.717871	-0.10442	0.38597	-0.16041	0.237238	0.244904	0.995967	0.146254	0.9438
CHD5	0.117653	-0.30575	0.249272	-0.19408	0.387818	0.0232	0.06393	0.151773	0.222787	-0.54824	0.247928	-0.50598	0.929355	4.84E-05	0.94767	0.000196
SS18L1	-0.11879	0.026118	0.030343	-0.01882	0.378801	0.848467	0.82271	0.889471	0.043707	0.010827	-0.0859	-0.1071	0.613486	0.528465	0.287386	0.239337
SETBP1	0.261777	-0.49708	0.285674	0.09516	0.049179	9.73E-05	0.03123	0.481355	0.322779	-0.41893	0.328309	-0.17232	0.985661	0.00188	0.986161	0.126066
MAGI3	0.044362	0.234651	-0.16551	-0.16392	0.745447	0.084634	0.222827	0.227361	-0.1163	0.673942	-0.15246	0.337584	0.220745	1	0.158696	0.989116
PRSS33	-0.05398	-0.12241	0.225692	-0.1515	0.690032	0.368797	0.091403	0.260601	0.086003	-0.36829	0.140419	-0.36308	0.715086	0.005895	0.821219	0.006569
UBXN7	0.141937	0.092425	-0.13607	0.004996	0.292249	0.498091	0.312843	0.970577	-0.01639	0.102625	-0.07624	0.103186	0.456961	0.751329	0.309318	0.752509
PYDC1	-0.19234	-0.09713	0.006429	-0.22967	0.155549	0.476367	0.962495	0.08861	0.000629	-0.26936	-0.00244	-0.26307	0.501655	0.035131	0.493652	0.038663
C4orf7	0.040525	-0.28296	0.270456	0.260286	0.766814	0.036322	0.0438	0.052696	0.176658	-0.37768	0.220015	-0.26467	0.877153	0.005268	0.924364	0.039459
LRRTM2	0.054685	-0.03339	0.027173	0.092136	0.6862	0.807011	0.840978	0.49546	0.150237	-0.42	0.19112	-0.34119	0.840518	0.001831	0.895737	0.010157
RNF160	0.035042	0.299861	-0.26566	0.256116	0.795806	0.02475	0.04579	0.05448	0.131858	0.42309	-0.13775	0.29264	0.808809	0.998303	0.183432	0.975787
CNTNAP2	-0.13099	0.149529	0.066661	-0.24318	0.331429	0.27136	0.62224	0.068341	-0.02054	-0.17582	0.146079	-0.18733	0.446721	0.123992	0.82797	0.108937
ZNF500	0.000468	-0.29674	0.189775	-0.02451	0.997243	0.026363	0.157389	0.856416	-0.08093	-0.29181	0.05789	-0.16134	0.296444	0.024548	0.647182	0.142041
FAM169A	-0.01529	0.250178	-0.26613	-0.22058	0.910132	0.062938	0.045393	0.099177	-0.28085	0.243288	-0.06886	0.038292	0.029338	0.948368	0.326543	0.599731
SLITRK5	0.198661	-0.24593	0.336067	-0.05253	0.138489	0.067694	0.010593	0.697949	0.238459	-0.29354	0.170246	-0.21743	0.944747	0.023855	0.868237	0.073321
PPP1R16B	-0.01622	-0.34303	0.134145	0.393099	0.9047	0.00965	0.319815	0.002487	0.112983	-0.43109	0.170755	-0.32666	0.772649	0.001391	0.868959	0.013355
DNM3	0.294022	-0.3151	0.200232	-0.0496	0.026422	0.018011	0.135334	0.714055	0.190277	-0.57617	0.203339	-0.30193	0.897354	1.39E-05	0.909828	0.020711
AUTS2	-0.09841	0.196803	-0.0057	-0.25177	0.466459	0.146006	0.96645	0.058858	-0.04225	0.068855	0.136632	0.08097	0.390195	0.675332	0.814598	0.703652
SENP6	0.015852	0.167725	-0.15546	0.106831	0.906834	0.216606	0.248215	0.428969	0.206793	0.169098	-0.01767	0.196534	0.916037	0.869372	0.454132	0.904747
RAB11FIP5	0.144673	-0.16261	0.303957	0.096357	0.282947	0.231156	0.021524	0.475831	0.113218	-0.06518	0.310823	-0.04882	0.770502	0.335288	0.979992	0.375074

ANKRD17	0.054749	0.341765	-0.22432	0.275656	0.685849	0.009938	0.093445	0.037945	0.209486	0.476546	-0.15989	0.324015	0.918833	0.999593	0.14705	0.985981
GIGYF2	0.195843	0.106282	-0.14123	0.070162	0.144288	0.435616	0.294668	0.604028	0.121989	0.268887	-0.04268	0.092308	0.790347	0.964613	0.390352	0.729115
ERC2	0.051622	-0.14212	0.226739	-0.22801	0.70294	0.296087	0.08987	0.088033	0.066892	-0.54207	0.147009	-0.44992	0.670644	4.99E-05	0.832393	0.000853
APPL1	0.138961	0.220625	-0.19205	0.25167	0.302589	0.102265	0.152388	0.05896	0.161592	0.417245	-0.11356	0.352775	0.858337	0.998042	0.228808	0.991906
HACL1	-0.08391	0.129119	-0.20406	-0.00716	0.534894	0.342914	0.127865	0.957847	-0.1628	0.287068	-0.0746	0.257682	0.139849	0.973464	0.313123	0.958088
DECR2	0.051073	0.018939	0.219461	-0.03358	0.705952	0.889809	0.100953	0.804159	0.006179	0.332154	-0.02494	0.144471	0.516253	0.987941	0.435396	0.830949
RAI14	0.003334	0.160653	-0.07029	0.213186	0.980364	0.236886	0.603365	0.111335	0.067481	0.256579	0.071544	0.275416	0.672054	0.957398	0.679759	0.968028
LSM14A	0.045933	0.209591	-0.26112	0.197608	0.734397	0.121061	0.04977	0.140635	0.113804	0.306029	-0.12903	0.25403	0.774295	0.980698	0.199127	0.955769
FAM127B	0.002484	0.201446	0.00885	-0.1289	0.985367	0.136542	0.947904	0.339273	0.257351	-0.04406	0.111069	-0.14274	0.957882	0.385619	0.766192	0.171999
POLDIP2	0.020346	0.099581	-0.06232	0.123829	0.881681	0.469463	0.648207	0.363215	-0.05675	0.576799	-0.35854	0.376101	0.353965	0.999986	0.007792	0.995002
C20orf26	-0.06155	-0.15155	0.077285	-0.24738	0.649222	0.264878	0.567715	0.063562	-0.16548	-0.3027	0.053554	-0.23009	0.135876	0.020439	0.636602	0.061987
TBC1D29	-0.01052	-0.21105	0.248386	-0.11205	0.938101	0.118427	0.062456	0.406646	0.096127	-0.54008	0.27788	-0.23738	0.737448	5.35E-05	0.967714	0.056089
SGEF	-0.08865	0.132775	-0.2865	-0.02857	0.511982	0.329306	0.030723	0.832943	0.171236	-0.32171	0.087752	-0.32548	0.872408	0.01462	0.716746	0.013649
KLK13	-0.02071	0.339578	-0.1677	-0.40004	0.879556	0.0112	0.216684	0.002252	-0.08599	0.560743	-0.16458	0.184562	0.284938	0.999975	0.139994	0.890256
GP5M1	0.106985	-0.14936	0.297091	-0.03401	0.432571	0.276444	0.026179	0.803496	0.196154	-0.29286	0.300909	-0.20601	0.901717	0.025449	0.976417	0.08728
GGA1	-0.1286	-0.09384	0.112503	-0.24536	0.344877	0.495573	0.40907	0.068356	-0.23089	-0.05059	0.106644	-0.25176	0.063511	0.370691	0.754588	0.047628
ABHD12	0.097312	0.227664	-0.08376	-0.06738	0.475542	0.094592	0.539372	0.621743	0.09066	0.22351	0.153596	0.186916	0.723166	0.930015	0.840237	0.89055
HERC4	0.032377	0.194037	-0.17331	0.225427	0.811036	0.151872	0.197311	0.091794	0.115218	0.333832	-0.07231	0.294862	0.777114	0.988315	0.31845	0.976665
TOR1AIP1	0.231568	-0.00155	-0.05204	0.103113	0.083059	0.99098	0.700663	0.4453	0.332549	-0.16112	0.2666	-0.07852	0.98803	0.142372	0.961659	0.301976
CCDC9	-0.01488	-0.24599	0.261737	-0.10927	0.912513	0.067621	0.049215	0.418442	0.080641	-0.29784	0.153457	-0.22925	0.702897	0.022197	0.842896	0.062695
WDR21A	0.003815	0.300791	-0.11685	0.137049	0.977531	0.024285	0.386688	0.309353	0.017804	0.364172	-0.00539	0.24932	0.546744	0.993578	0.485977	0.952633
C1orf77	-0.15684	-0.02043	0.249414	-0.14196	0.243966	0.88119	0.061345	0.292179	-0.10001	-0.04501	-0.08352	-0.0796	0.254213	0.383237	0.292711	0.299487
C10orf137	0.003837	0.169905	-0.11608	0.250179	0.977403	0.210605	0.389869	0.060528	0.211943	0.012773	-0.06129	-0.09524	0.921324	0.53357	0.344607	0.264473
C1orf144	-0.18027	0.46598	-0.26189	0.230784	0.179642	0.000295	0.049074	0.084135	0.210127	0.527597	0.043814	0.439956	0.919488	0.999918	0.612476	0.998891
WIPI2	-0.12368	0.342027	-0.24023	0.06082	0.363808	0.010592	0.074529	0.656117	-0.29208	0.471723	-0.23287	0.244545	0.025775	0.999465	0.0641	0.947275
LRIT1	0.008734	-0.11152	0.261039	-0.32378	0.948589	0.41319	0.049845	0.014014	-0.04631	-0.36902	0.173107	-0.45182	0.379956	0.005806	0.872266	0.000811
PYGO1	0.225349	-0.06552	0.096946	-0.13087	0.09191	0.63139	0.473126	0.331863	0.055473	-0.17221	-0.00852	-0.14343	0.641299	0.128991	0.478102	0.173629
CCDC69	-0.2127	-0.26229	-0.02833	-0.05828	0.115511	0.053046	0.835804	0.66965	-0.16297	-0.48062	0.121877	-0.27757	0.139599	0.000361	0.787434	0.030907
TANC2	-0.05481	0.449039	-0.05522	0.099703	0.688252	0.000518	0.686076	0.464715	-0.06044	0.616159	-0.02441	0.492481	0.344948	0.999997	0.436769	0.999746
WSB1	0.291167	-0.02579	0.116653	0.164515	0.027991	0.850335	0.387504	0.221368	0.553858	-0.15934	0.24321	-0.16604	0.999967	0.145085	0.946286	0.135051
LDLRAP1	-0.00303	0.256884	-0.00965	-0.0167	0.982173	0.05598	0.943212	0.901858	-0.12604	0.478796	-0.23569	0.298493	0.201959	0.999619	0.059546	0.978045
PRPF31	-0.06998	0.062929	-0.09121	-0.01305	0.608322	0.648084	0.50379	0.923979	-0.23994	0.3131	-0.10359	0.113107	0.054125	0.982942	0.249153	0.772898
EPC2	0.06595	0.123761	-0.13838	0.18015	0.625964	0.363479	0.304635	0.179929	0.064175	0.258802	0.0056	0.200093	0.664113	0.95878	0.514561	0.90878
TCTN3	0.06832	-0.03256	-0.15377	0.170769	0.613583	0.811732	0.253438	0.204062	-0.20177	0.357651	-0.18795	0.482079	0.091902	0.992069	0.110899	0.999601
FGFR10P2	0.117695	0.095657	-0.11667	0.289366	0.38325	0.483116	0.387432	0.029021	0.196462	0.235045	0.028063	0.195504	0.904664	0.942071	0.572598	0.903557
KIAA1279	0.030562	0.166317	-0.16355	0.059906	0.821452	0.220544	0.224126	0.658011	0.129324	0.205483	0.086263	0.214762	0.804164	0.914652	0.713433	0.924112
GAPVD1	-0.09067	0.014223	-0.21926	-0.1451	0.502393	0.917136	0.101274	0.281499	-0.29129	0.08457	-0.01911	0.095641	0.024761	0.71185	0.450412	0.736395
TRPC4AP	-0.18997	0.163067	-0.14184	0.296515	0.164771	0.238734	0.3016	0.027935	-0.03165	0.392291	-0.1851	0.25466	0.418235	0.996154	0.114505	0.954313
SERBP1	0.078398	0.394143	-0.11397	0.25003	0.562134	0.00265	0.398593	0.060686	0.170144	0.505631	0.026492	0.42894	0.870863	0.999831	0.568572	0.998532
TES	-0.08867	0.304678	-0.31376	0.180787	0.511868	0.022421	0.017466	0.178369	-0.07143	0.516628	-0.18302	0.324053	0.31855	0.999881	0.114411	0.98599
ZBTB20	0.274141	-0.31432	0.253094	0.19659	0.039057	0.018312	0.057493	0.142733	0.458958	-0.44443	0.452641	-0.11824	0.999332	0.000987	0.999102	0.216916
TLL3	-0.14337	-0.09089	0.025262	-0.24	0.287368	0.505278	0.852029	0.072141	-0.22575	-0.22083	-0.07676	-0.19619	0.065714	0.070129	0.308114	0.095646
IRF2BP1	0.083419	-0.16826	0.205703	-0.1148	0.537287	0.215116	0.124763	0.395131	0.138704	-0.33217	0.126304	-0.29556	0.821032	0.012057	0.79581	0.023065
TRAF3IP1	-0.14062	-0.09168	-0.03026	-0.26345	0.296793	0.501597	0.823203	0.047698	-0.2292	-0.25472	0.027188	-0.23778	0.062739	0.043787	0.570357	0.055776
PHF19	0.226789	0.06038	0.043265	0.275696	0.089797	0.658447	0.749307	0.037916	0.204068	0.219627	-0.07209	0.107148	0.913138	0.928752	0.318965	0.760763
C10orf12	-0.10055	0.379002	-0.29289	-0.13131	0.456763	0.00397	0.027035	0.330237	-0.03802	0.318918	-0.20212	0.223245	0.400965	0.984623	0.091516	0.932064
LRRC32	0.203844	-0.17308	0.177849	0.318555	0.128282	0.202076	0.185648	0.015734	0.296548	-0.2645	0.153662	-0.11697	0.977315	0.037836	0.843222	0.219411
RIBC2	-0.25645	-0.18491	-0.0258	-0.28863	0.054153	0.172455	0.848939	0.029452	-0.265	-0.23542	-0.06312	-0.14098	0.037552	0.057632	0.340208	0.175021
NAT9	-0.0138	-0.0718	0.151639	0.102189	0.918863	0.599007	0.260159	0.449411	0.153933	0.00558	-0.04664	0.025196	0.846466	0.514679	0.380487	0.566005
ZNF337	0.026752	-0.04968	-0.03203	-0.05914	0.843412	0.716148	0.813051	0.662114	0.145244	-0.10049	-0.03442	0.020021	0.829443	0.255654	0.412238	0.55193

KIF26A	0.081438	-0.19283	0.279622	-0.139	0.547027	0.154495	0.035156	0.302459	0.082384	-0.33851	0.171551	-0.30267	0.706884	0.010694	0.870086	0.02045
ABCA12	-0.0368	0.305977	-0.36513	-0.1402	0.78772	0.023095	0.005657	0.302717	-0.15395	0.490964	-0.14629	0.291183	0.156326	0.999692	0.171683	0.973849
NOC2L	-0.02663	0.048424	-0.07239	0.130112	0.844094	0.723036	0.592558	0.334712	-0.15943	0.453336	-0.24692	0.325161	0.144955	0.999222	0.051004	0.986272
RSL1D1	0.059022	0.295873	-0.28951	0.241044	0.662752	0.026829	0.028936	0.070878	0.176707	0.483559	-0.06291	0.334601	0.879958	0.999668	0.340696	0.988483
GIMAP2	-0.01177	-0.07967	-0.07576	0.489518	0.930751	0.559419	0.575393	0.000111	-0.10609	-0.14495	0.160865	0.022605	0.24397	0.171049	0.85156	0.558588
IFT172	-0.11346	-0.16911	0.008415	-0.22033	0.400715	0.21279	0.950464	0.099572	-0.22793	-0.24431	0.054902	-0.20441	0.063819	0.05089	0.639904	0.086495
GTPBP5	-0.10062	-0.05664	0.067628	0.206134	0.456452	0.678415	0.617187	0.123957	-0.11327	0.051099	-0.14621	0.03683	0.226781	0.632037	0.168939	0.595997
RGS22	-0.03121	-0.16245	0.053878	-0.27822	0.817701	0.23161	0.690595	0.036125	-0.17017	-0.34766	0.080697	-0.27588	0.129094	0.008957	0.700888	0.031738
PCDHB5	0.310687	-0.05701	0.138701	0.025626	0.018662	0.676452	0.303502	0.849921	0.36044	-0.34492	0.375897	-0.03413	0.993066	0.009449	0.994532	0.410926
SENP3	-0.15274	-0.06447	-0.09592	0.106596	0.256665	0.636877	0.47785	0.429992	-0.17149	0.215886	-0.34267	-0.00855	0.127235	0.925203	0.010604	0.477506
GARS	0.063798	0.284563	-0.13987	0.223649	0.637301	0.033536	0.299415	0.094453	0.016384	0.470044	-0.19151	0.383874	0.543029	0.99951	0.103796	0.995776
TIPRL	-0.00421	0.266991	-0.31099	0.052566	0.975231	0.04668	0.018541	0.697765	-0.1013	0.495392	-0.23743	0.348622	0.251478	0.999768	0.058156	0.991212
STEAP2	-0.04689	0.218161	-0.07449	0.352236	0.729073	0.106252	0.581823	0.007207	0.088755	0.179674	0.10584	0.157821	0.72125	0.883923	0.75552	0.852571
INTS1	0.012337	-0.11158	0.077504	-0.04481	0.927428	0.412962	0.566617	0.74065	0.029454	0.138673	0.127661	-0.02953	0.576155	0.818184	0.795546	0.423647
NPHP4	-0.13964	-0.33747	0.059572	-0.26652	0.304689	0.011747	0.662741	0.047081	-0.36642	-0.06627	-0.10409	-0.15277	0.00613	0.330836	0.248116	0.155388
C14orf109	-0.07057	-0.1358	0.065075	-0.16551	0.605263	0.322853	0.633718	0.222813	0.173985	-0.2827	-0.09424	-0.19628	0.873487	0.029946	0.271426	0.098133
GART	-0.01874	0.432535	-0.31431	0.164865	0.88993	0.000871	0.01726	0.220375	-0.01525	0.637847	-0.16647	0.408209	0.45994	0.999999	0.137215	0.997571
OR1F2P	-0.0805	0.04802	-0.12403	-0.14573	0.559054	0.730233	0.366948	0.288394	0.072059	-0.09539	0.044425	-0.14829	0.680964	0.266534	0.61269	0.165494
OR1C1	0.149606	-0.19642	0.036207	-0.40822	0.266679	0.1468	0.789173	0.00162	0.147285	-0.17707	0.163492	-0.1967	0.835661	0.119552	0.85839	0.095059
OR1A2	0.082934	-0.1648	0.047233	-0.34224	0.543404	0.229217	0.729582	0.00983	0.098883	-0.29864	0.022517	-0.39423	0.743382	0.021901	0.558362	0.003354
GAS1	0.154208	-0.06059	0.300757	-0.06705	0.252077	0.657317	0.02301	0.620216	0.422685	-0.39525	0.337475	-0.38723	0.998286	0.003278	0.988308	0.003922
FBXW2	0.007564	0.339737	-0.16608	0.334062	0.955467	0.010416	0.216943	0.011096	0.122342	0.425982	-0.24491	0.277654	0.791024	0.99842	0.052458	0.969135
PTPN22	-0.01551	-0.23523	-0.01354	0.505566	0.90968	0.083844	0.921113	7.05E-05	-0.13684	-0.17835	0.012398	0.131917	0.182253	0.117838	0.532212	0.808916
AMD1	0.092263	0.2024	-0.15001	0.297236	0.494863	0.134656	0.265374	0.024744	0.22996	0.411578	-0.1066	0.297432	0.937906	0.997757	0.242911	0.977649
GAS2	0.001414	-0.31147	-0.01535	-0.64129	0.991673	0.019454	0.909797	7.68E-08	-0.05631	-0.52234	0.102547	-0.47954	0.355048	9.82E-05	0.748673	0.000373
GMEB2	0.014263	-0.24675	0.156694	-0.19446	0.916137	0.066758	0.244419	0.147202	0.134227	-0.32677	0.122854	-0.22413	0.813094	0.013327	0.789299	0.067143
SPAG8	-0.20738	-0.13842	0.037859	-0.29069	0.121657	0.308972	0.779789	0.028261	-0.20264	-0.3794	0.059193	-0.27929	0.088412	0.004656	0.650341	0.030075
PITPNC1	0.022327	0.011048	-0.02565	0.599338	0.869059	0.935588	0.849777	8.40E-07	0.216775	0.337867	0.015708	0.380132	0.926058	0.989175	0.540786	0.995418
GAS6	0.292442	-0.21468	0.265959	0.167995	0.028733	0.115491	0.047568	0.215855	0.351845	-0.09241	0.139437	-0.02828	0.991755	0.270662	0.819516	0.425998
OR2F1	0.11377	-0.20724	0.265199	-0.28615	0.39942	0.12539	0.046184	0.030938	0.170504	-0.35579	0.206999	-0.40451	0.871374	0.007619	0.913771	0.002649
OR2B6	0.141909	-0.02685	0.02776	-0.33659	0.292345	0.844261	0.837588	0.010465	0.18402	-0.21357	0.154508	-0.20743	0.889566	0.07706	0.844567	0.083299
OR1J4	-0.08124	0.012023	0.082219	-0.30249	0.551703	0.930578	0.546896	0.023453	0.078656	-0.16271	0.188986	-0.13855	0.69623	0.142778	0.890391	0.182035
GAS8	-0.19365	-0.2108	0.002564	-0.33639	0.148918	0.118882	0.984895	0.010514	-0.30749	-0.32918	0.019885	-0.26755	0.018821	0.012748	0.551579	0.036117
DGCR5	-0.05014	-0.03369	0.152911	-0.30903	0.711105	0.805273	0.256136	0.019335	0.105104	-0.34453	0.336919	-0.30823	0.753997	0.010235	0.987336	0.019703
FBXL21	-0.08346	0.096315	0.092065	-0.26514	0.540843	0.484232	0.499771	0.048283	0.077541	-0.39652	0.017941	-0.23601	0.693671	0.003503	0.546012	0.059287
FBXL3	0.068223	0.18536	-0.17433	0.199088	0.614087	0.171404	0.194638	0.137626	0.138355	0.330465	-0.00944	0.303315	0.820419	0.987554	0.475464	0.979775
ARL5A	-0.10933	0.255219	-0.23321	0.309714	0.418188	0.057646	0.080837	0.019055	0.11696	0.316697	-0.10487	0.373877	0.780561	0.983998	0.246497	0.99476
PHGDH	0.18847	-0.20274	0.037658	-0.01313	0.160316	0.133993	0.780927	0.922792	0.086432	0.08316	-0.00639	0.079237	0.716049	0.708651	0.483375	0.699669
STAP1	-0.1333	-0.08677	-0.0945	-0.03933	0.322916	0.524838	0.484393	0.771448	-0.13251	-0.21577	0.24	-0.0602	0.190003	0.074908	0.943854	0.345533
B3GAT3	0.039771	-0.05501	-0.00199	-0.00437	0.771037	0.689979	0.988397	0.974473	-0.0289	0.136955	-0.10401	0.100292	0.424387	0.817954	0.248264	0.746389
GATA1	0.073252	-0.18986	0.308671	-0.34584	0.591596	0.165022	0.020634	0.009035	0.181474	-0.41153	0.231303	-0.42652	0.886283	0.002246	0.93684	0.001559
TIAM2	0.041766	-0.18443	0.259084	-0.12614	0.759882	0.177664	0.053838	0.35427	0.255704	-0.16275	0.16129	-0.14329	0.954996	0.142717	0.852207	0.173862
LRRC29	-0.00226	-0.15326	0.058183	-0.23216	0.9867	0.259454	0.667264	0.08225	0.079842	-0.18865	0.082861	-0.29058	0.701062	0.104629	0.705793	0.02505
FBXO2	0.006892	-0.18533	0.083957	-0.09338	0.959418	0.171482	0.534653	0.489623	0.129458	-0.2054	0.061636	-0.25467	0.801661	0.087931	0.654485	0.045681
FBXL6	-0.02607	-0.04924	0.129828	0.028394	0.847346	0.718548	0.335775	0.833929	0.065422	0.071716	0.077119	0.051107	0.667117	0.682117	0.692702	0.632057
FBXL5	0.048021	0.060679	-0.13988	0.20708	0.722798	0.656864	0.299381	0.122204	0.14349	0.117423	0.033922	0.135496	0.829287	0.781474	0.587538	0.815364
FBXL4	0.067821	0.190012	-0.08709	0.162457	0.616179	0.160716	0.519481	0.227281	0.149141	0.244779	0.006767	0.185495	0.838726	0.949449	0.517594	0.891438
C6orf123	0.006935	-0.35076	-0.01214	-0.34041	0.959543	0.00865	0.92926	0.010256	-0.05228	-0.31639	0.167526	-0.20474	0.365026	0.016091	0.864327	0.086138
LCE2B	-0.02967	-0.20611	0.080438	-0.21216	0.826608	0.127502	0.551972	0.113111	0.023534	-0.24174	0.132456	-0.29737	0.561687	0.052771	0.80713	0.022375
GATA2	0.168463	-0.28873	0.211767	0.237926	0.210327	0.030921	0.113792	0.074717	0.140944	-0.23842	0.198874	-0.00563	0.824925	0.055283	0.904847	0.485192

FAM50B	-0.02928	-0.09781	0.005098	-0.22837	0.82883	0.47328	0.96998	0.087523	-0.28939	-0.11188	-0.04183	-0.13202	0.025549	0.229571	0.392505	0.19089
OR2M4	0.201922	-0.07819	0.376976	-0.2296	0.139307	0.574128	0.004554	0.091747	0.120684	-0.28946	0.240294	-0.38227	0.787832	0.025519	0.94408	0.004374
OR2L2	0.220754	-0.38081	0.289727	-0.2482	0.102059	0.004128	0.030319	0.065124	0.159292	-0.48324	0.287193	-0.31274	0.852032	0.000386	0.970636	0.018233
OR2K2	-0.06412	-0.08165	0.126925	-0.21726	0.635622	0.549702	0.346783	0.104501	-0.06002	-0.33696	0.08454	-0.3869	0.345974	0.011013	0.709575	0.003951
KLHL3	0.120291	0.076192	0.085916	-0.04078	0.377188	0.580343	0.528954	0.765405	0.260391	0.018422	0.104279	0.066573	0.959746	0.548358	0.752287	0.66988
GATA3	-0.00807	-0.08886	0.168033	0.192461	0.952504	0.514877	0.211512	0.151486	0.214923	-0.35716	0.235067	-0.24939	0.924269	0.007411	0.939952	0.047321
KCNG2	-0.07882	-0.06202	0.259189	-0.28038	0.56004	0.649755	0.051548	0.034647	0.041119	-0.36631	0.327202	-0.39651	0.606929	0.006144	0.985881	0.003185
CLEC4E	-0.17075	-0.39889	0.024372	-0.01772	0.208303	0.002556	0.858492	0.896864	-0.01002	-0.63007	-0.04814	-0.42402	0.47427	2.29E-06	0.379589	0.002063
OPTC	0.014912	-0.13719	0.143194	-0.25946	0.912335	0.313339	0.287952	0.051291	0.003629	-0.33477	0.178745	-0.3369	0.509547	0.01148	0.879964	0.011026
PTTG3	0.068426	0.147381	0.061441	-0.21824	0.613029	0.278386	0.649811	0.102911	0.026639	-0.16953	0.062839	-0.18664	0.569747	0.130015	0.659128	0.107122
CABYR	-0.06398	0.223886	0.012061	-0.3944	0.639477	0.100347	0.929698	0.002631	-0.22274	-0.08219	0.104922	-0.00246	0.068386	0.29356	0.75362	0.493516
NKX2-8	-0.06585	0.002606	0.058385	-0.22559	0.626488	0.984793	0.666177	0.091559	-0.00333	-0.32	0.037213	-0.40715	0.491241	0.01508	0.595878	0.002491
PLDN	0.038295	0.082735	-0.09977	0.332062	0.777318	0.544377	0.46026	0.011619	0.199139	0.283425	-0.03156	0.25511	0.907711	0.971851	0.418472	0.956465
FBXW8	0.179344	0.012308	0.278544	0.073597	0.181919	0.928262	0.035897	0.58639	0.261742	0.280709	0.054221	0.204138	0.958792	0.969106	0.636667	0.9107
GATA4	-0.10598	-0.14753	0.14713	-0.17535	0.432659	0.277896	0.274765	0.192004	-0.02861	-0.44287	0.055557	-0.47196	0.425997	0.001157	0.639899	0.000532
FBXO25	0.090216	0.291579	0.02369	0.130031	0.508459	0.030779	0.862411	0.339487	0.059803	0.412541	0.072236	0.153245	0.653502	0.997808	0.681377	0.845369
FBXO24	-0.00757	-0.1103	0.173225	-0.27273	0.955437	0.418378	0.197534	0.040115	0.101937	-0.41964	0.239971	-0.33329	0.749877	0.001847	0.943831	0.011804
TSPAN17	-0.08279	0.243276	-0.08257	-0.05597	0.540392	0.070809	0.541459	0.679237	-0.24068	0.518215	-0.39314	0.22694	0.053564	0.999887	0.003775	0.935327
FBXO22	-0.02904	0.248394	-0.20418	0.119074	0.83023	0.064902	0.127647	0.377661	0.133593	0.240852	-0.1646	0.136469	0.811952	0.946565	0.139968	0.817093
SLC13A4	-0.15521	-0.16234	0.21344	-0.33547	0.253351	0.236354	0.114227	0.011486	-0.19375	-0.51535	0.103582	-0.47295	0.098496	0.000124	0.750835	0.000451
FBXO10	0.187647	-0.15487	0.325902	0.027619	0.162182	0.254401	0.013363	0.838401	0.184366	-0.3873	0.194634	-0.25584	0.890007	0.003916	0.899937	0.043066
FBXO9	0.041437	0.314385	-0.21264	0.350045	0.761719	0.019408	0.115623	0.008177	0.288373	0.254559	-0.05173	0.268027	0.974024	0.956111	0.36788	0.964143
FBXO8	-0.06878	0.145064	-0.23707	-0.07103	0.611201	0.286095	0.075806	0.599558	-0.206	0.214693	-0.14121	0.144295	0.084801	0.924045	0.177408	0.830651
GATA6	0.033368	0.00553	0.087476	-0.06317	0.807122	0.967734	0.521474	0.643685	0.283377	-0.23923	0.211273	-0.25761	0.971829	0.054662	0.918215	0.041959
FBXO6	-0.31261	-0.171	-0.1539	0.05559	0.017908	0.20764	0.253035	0.68128	-0.38295	-0.01326	-0.12724	0.070129	0.00431	0.465147	0.202449	0.678359
FBXO5	0.07692	0.349012	-0.21193	0.33924	0.569552	0.008381	0.113513	0.009837	-0.07991	0.62071	-0.23527	0.365685	0.298774	0.999998	0.059882	0.993776
FBXO4	-0.02739	0.178721	-0.21316	0.119725	0.839738	0.187538	0.111377	0.375037	-0.03373	0.354271	-0.13442	0.140126	0.411947	0.992145	0.189344	0.823508
FBXO3	0.028736	0.173631	-0.26327	0.136967	0.831957	0.200625	0.047857	0.309646	-0.10925	0.401617	-0.0823	0.234907	0.234921	0.997167	0.295475	0.941961
HIBCH	0.076798	0.124613	-0.14623	0.136557	0.570166	0.360159	0.277731	0.311111	0.110968	0.354586	-0.05953	0.292302	0.768581	0.992194	0.348854	0.975651
VPS33B	-0.24613	0.005721	-0.25306	0.03417	0.064956	0.96662	0.057528	0.800781	-0.29235	0.438084	-0.34867	0.271583	0.02433	0.998837	0.009454	0.966057
TINF2	-0.07362	0.065896	-0.09032	0.35941	0.589714	0.632653	0.507964	0.006519	-0.0284	0.354922	-0.20304	0.291606	0.426531	0.99163	0.093113	0.974027
SACS	0.265722	-0.13188	0.029593	0.242174	0.04574	0.332598	0.827022	0.069525	0.36506	-0.25622	0.166705	-0.09508	0.993695	0.042826	0.863133	0.264817
PLA2G2D	0.001309	-0.12472	0.248109	-0.19187	0.992361	0.364269	0.06522	0.156587	0.163069	-0.34616	0.157909	-0.28199	0.860555	0.009222	0.849897	0.028805
GATM	0.212425	-0.14478	-0.00589	0.104869	0.112647	0.287032	0.965315	0.437545	0.160734	-0.16085	0.070101	-0.0627	0.857038	0.142786	0.676375	0.339455
IL1RAPL2	0.121353	-0.09168	0.153495	-0.32573	0.36853	0.501581	0.254303	0.013414	0.032629	-0.27065	0.379928	-0.23869	0.585221	0.034439	0.994977	0.055079
FGF20	0.042232	-0.2622	0.259622	0.038508	0.7551	0.050915	0.051145	0.77611	0.182858	-0.29966	0.206913	-0.14627	0.888076	0.021526	0.913679	0.166031
ERAL1	-0.13454	0.160213	-0.24225	0.091055	0.322844	0.242627	0.072039	0.504509	-0.16181	0.567841	-0.37181	0.328945	0.141338	0.999981	0.005954	0.987197
CLDN17	-0.15609	0.012844	-0.01411	0.008181	0.250641	0.925147	0.917778	0.952283	0.158309	-0.09485	0.254268	-0.07617	0.853325	0.265323	0.954055	0.307445
ARFGAP3	0.102766	0.105108	-0.0467	0.102669	0.45104	0.445037	0.732511	0.451469	0.044598	0.330163	-0.25999	0.187982	0.615737	0.987484	0.042281	0.894543
ANKRD2	0.044093	-0.15708	0.268091	-0.22632	0.744667	0.247616	0.043771	0.09048	0.141095	-0.42341	0.298213	-0.30491	0.825185	0.001684	0.976688	0.019679
AK5	0.259976	-0.18899	0.124376	0.077017	0.050817	0.163022	0.356633	0.569064	0.249422	-0.34423	0.324775	-0.28441	0.950765	0.010295	0.984261	0.029148
GBA	-0.22785	0.09363	-0.33214	0.031087	0.091241	0.496553	0.012387	0.820083	-0.36768	0.333146	-0.30836	0.241513	0.005972	0.988163	0.019659	0.947059
GALNT8	0.099715	-0.1177	0.240264	-0.2099	0.460517	0.387612	0.071823	0.117087	0.016314	-0.37309	0.207399	-0.33202	0.542847	0.005328	0.914194	0.01209
FGF21	0.024636	-0.14734	0.213279	-0.16068	0.855656	0.278534	0.111175	0.232484	0.199645	-0.36808	0.270159	-0.30366	0.908279	0.005921	0.963659	0.020107
MYCBP	-0.09695	0.038449	-0.16275	-0.31437	0.473127	0.778448	0.226446	0.017239	-0.33564	0.113387	-0.15298	0.039412	0.012098	0.770839	0.160753	0.601427
SERGEF	0.190065	-0.06004	-0.06488	0.240147	0.156743	0.660247	0.631592	0.071966	0.27914	0.029807	-0.06402	0.022203	0.969854	0.577945	0.338045	0.558221
EHF	0.080426	0.058593	-0.03551	0.106848	0.552032	0.667963	0.793143	0.428895	0.180573	0.167428	-0.14003	0.044833	0.882391	0.864185	0.182319	0.615021
GBAP	-0.30324	0.044837	-0.06458	0.012585	0.02185	0.742818	0.633183	0.925974	-0.33206	0.444787	-0.2101	0.277776	0.012081	0.999023	0.082985	0.969195
GBGT1	-0.00272	-0.17928	0.051423	0.099785	0.983959	0.186149	0.704033	0.4602	0.070643	-0.11277	0.071055	-0.06446	0.679579	0.227775	0.678614	0.335191
GBAS	0.044316	0.060723	-0.19463	-0.06282	0.743422	0.656629	0.146834	0.642458	-0.10009	0.20105	-0.02494	0.165132	0.254049	0.909843	0.435399	0.863615

GBE1	0.046941	0.122814	-0.24281	0.128938	0.728791	0.367193	0.068777	0.339128	-0.10131	0.412538	-0.18802	0.35164	0.25145	0.997808	0.108071	0.991721
GBP1	-0.03999	-0.23406	0.146577	0.507413	0.769819	0.085442	0.281043	6.57E-05	-0.10597	-0.17533	0.177462	0.143067	0.244219	0.124666	0.875429	0.825763
GAPDHS	-0.03704	-0.06402	0.147565	-0.18038	0.786382	0.642372	0.277777	0.183417	0.000405	-0.30656	0.10331	-0.16276	0.501067	0.019127	0.750268	0.139901
OR7A17	-0.22012	-0.04163	0.00089	-0.13088	0.103074	0.762821	0.994804	0.336306	-0.13943	-0.25141	-0.17232	-0.21192	0.180503	0.047866	0.131668	0.081124
OR5L2	0.157606	-0.14824	0.123427	-0.33605	0.241649	0.275557	0.360342	0.010596	0.109129	-0.28656	0.17402	-0.30217	0.764835	0.026754	0.873535	0.020624
OR5K1	-0.11078	-0.19393	-0.07061	-0.11395	0.411984	0.1521	0.601723	0.39869	-0.0469	-0.3089	0.013608	-0.31519	0.37848	0.018362	0.535349	0.016439
GBP2	0.067882	-0.21407	0.048817	0.569696	0.61586	0.113133	0.718391	3.74E-06	0.369957	-0.26408	0.276399	-0.04682	0.993814	0.039811	0.965331	0.380032
OR5H1	-0.06119	-0.27603	-0.08832	-0.07302	0.654153	0.041359	0.517452	0.592777	-0.07332	-0.07398	0.05557	-0.17658	0.316099	0.314559	0.639932	0.122953
GBP3	-0.18713	0.267676	-0.08654	0.220194	0.163364	0.046099	0.522096	0.099792	-0.22722	0.299147	-0.04222	0.339866	0.064434	0.978287	0.391507	0.989581
HSPB8	0.239845	0.122145	0.011911	0.121513	0.075003	0.374337	0.930573	0.372325	0.316765	0.176582	0.124855	0.042209	0.984018	0.879788	0.79309	0.609695
GNL3	-0.07445	0.358695	-0.17781	0.248686	0.582065	0.006634	0.185753	0.06213	0.035721	0.555847	-0.23379	0.350168	0.593159	0.99997	0.061088	0.991476
FAM162A	0.098438	0.306361	-0.19677	0.04274	0.470428	0.022915	0.14608	0.754459	-0.06557	0.593278	-0.246	0.374755	0.332516	0.999993	0.051663	0.994856
GBX1	-0.11789	-0.18447	0.1841	-0.14229	0.386859	0.17759	0.174386	0.295497	-0.01321	-0.34389	0.096402	-0.22012	0.465279	0.009641	0.735639	0.070786
GBX2	0.000606	-0.10017	0.304954	-0.15723	0.996431	0.462617	0.021078	0.242788	0.115984	-0.44576	0.169773	-0.28587	0.778635	0.000952	0.867562	0.02706
GC	0.060171	-0.18268	0.02346	-0.18814	0.656593	0.177788	0.862481	0.161067	0.027232	-0.26381	0.116772	-0.21775	0.571286	0.038236	0.777539	0.073017
GCDH	0.016006	-0.02765	0.082054	-0.06536	0.906793	0.841156	0.547704	0.632251	0.129715	-0.07675	-0.08595	-0.17731	0.804884	0.30608	0.28727	0.119224
GCG	-0.03532	-0.16119	0.031502	-0.13171	0.796101	0.239728	0.81772	0.333226	-0.05165	-0.33072	0.142224	-0.24312	0.368081	0.013244	0.82146	0.053783
GCH1	-0.05459	0.147835	-0.19178	0.393356	0.686706	0.276891	0.152957	0.00247	0.161459	0.316147	-0.01308	0.023952	0.855336	0.982815	0.466427	0.562053
GCHFR	0.005593	-0.09302	0.191304	-0.29699	0.967062	0.495324	0.154008	0.024868	0.156875	-0.56692	0.157411	-0.42477	0.848289	2.45E-05	0.846246	0.001816
GCK	-0.00519	-0.26015	0.152168	-0.25365	0.969459	0.052828	0.258483	0.056933	0.074322	-0.35167	0.085354	-0.37399	0.688245	0.008273	0.711399	0.005228
GCKR	-0.05102	-0.04828	0.160067	-0.08347	0.70626	0.723851	0.234285	0.537032	-0.0304	-0.16099	-0.01011	-0.24847	0.420531	0.142572	0.473718	0.047954
LHX6	0.145119	0.046606	0.163664	-0.1418	0.28145	0.73304	0.2238	0.292726	0.104279	-0.08182	0.021818	0.003495	0.7548	0.294399	0.556561	0.509196
PTPN18	-0.26877	0.11203	-0.07618	-0.14794	0.043218	0.411055	0.573262	0.27209	-0.03491	0.37917	-0.2089	-0.02464	0.408921	0.995321	0.084231	0.435435
BLOC1S1	-0.07827	-0.17748	-0.00219	-0.20156	0.56277	0.190675	0.987103	0.132713	-0.40022	0.060092	-0.11512	-0.03531	0.002926	0.654207	0.22572	0.407895
SEZ6L2	-0.06857	-0.18404	0.200686	-0.10055	0.612299	0.174535	0.134431	0.456749	-0.10978	-0.06046	-0.0704	-0.13844	0.233831	0.344884	0.322917	0.17944
NUPR1	0.030992	-0.24335	0.246981	-0.28798	0.818983	0.070723	0.064002	0.029832	0.197637	-0.41668	0.193525	-0.33311	0.90601	0.001985	0.898625	0.011845
OR10J1	-0.04825	-0.20271	0.097743	-0.41346	0.721509	0.134052	0.469478	0.00139	0.037268	-0.12994	-0.12966	-0.24197	0.596016	0.197453	0.200775	0.054645
KAT2A	0.126076	-0.11488	0.127761	0.107875	0.350047	0.399162	0.343589	0.424447	0.094841	0.105448	-0.06926	0.142492	0.734655	0.757238	0.325605	0.827585
NR6A1	-0.38214	0.209833	-0.13624	-0.2553	0.003353	0.120622	0.312232	0.055283	-0.31012	-0.10919	-0.12156	-0.3087	0.017975	0.23505	0.213169	0.018429
OR8G2	0.175072	-0.23419	0.137966	-0.26171	0.196856	0.085267	0.310574	0.051365	0.106991	-0.09519	0.077304	-0.08564	0.760439	0.26459	0.693127	0.285738
OR8B8	0.016327	-0.11706	0.058115	-0.18941	0.904051	0.39023	0.667631	0.158205	0.17138	-0.33186	0.060562	-0.37455	0.869844	0.012971	0.651922	0.005625
OR8G1	0.016499	-0.04967	-0.00145	-0.07981	0.903046	0.71623	0.991483	0.555092	-0.30719	-0.10729	-0.1637	-0.11593	0.018916	0.238937	0.141301	0.221466
OR10A3	0.067127	-0.07357	0.096931	-0.17826	0.619803	0.589974	0.473195	0.184629	0.111996	-0.25785	0.11473	-0.31024	0.77066	0.041808	0.773511	0.017937
PLEK2	-0.2236	0.38114	-0.24796	0.114306	0.094528	0.003754	0.062919	0.397189	-0.02417	0.612868	-0.26212	0.533276	0.436659	0.999997	0.040982	0.999932
AMELX	0.01062	-0.17197	0.14933	-0.15809	0.937506	0.205039	0.267572	0.24018	0.082998	-0.31646	0.07327	-0.26496	0.708283	0.01607	0.68379	0.037574
GCNT1	-0.32317	0.102531	-0.06584	0.296795	0.014206	0.45208	0.626569	0.024969	0.057761	0.2873	-0.05085	0.413373	0.648507	0.973564	0.370054	0.997851
NARF	-0.27748	-0.1399	0.047529	-0.00548	0.036644	0.303785	0.725522	0.967716	-0.35798	0.101143	-0.10921	-0.07592	0.00729	0.748196	0.237569	0.308023
SLC17A5	0.018414	0.314507	-0.23127	-0.06781	0.891857	0.018239	0.083466	0.616219	0.041962	0.232225	-0.06821	0.101808	0.609066	0.939788	0.32808	0.749605
CNNM4	-0.22183	-0.01689	-0.06416	-0.19826	0.097241	0.901674	0.635369	0.139305	-0.3805	0.246787	-0.14544	0.177826	0.004546	0.950877	0.170229	0.881463
CNNM3	0.000733	0.044512	0.073609	-0.00437	0.995685	0.744617	0.586328	0.97424	-0.21665	0.340765	-0.10451	-0.00408	0.074065	0.989759	0.247225	0.489275
CNNM1	0.119243	-0.09327	0.200078	-0.19066	0.376979	0.494156	0.13564	0.15542	0.12083	-0.03062	0.066686	-0.09999	0.788114	0.419955	0.668306	0.254263
HEYL	0.106095	-0.22585	0.216461	0.189617	0.432174	0.094197	0.105819	0.157739	0.045336	-0.28442	0.227622	-0.10722	0.617597	0.027702	0.933682	0.239096
MYOF	0.039671	0.546748	-0.21101	0.100272	0.771593	1.30E-05	0.118511	0.462158	-0.09377	0.713627	-0.26605	0.495015	0.267685	1	0.038656	0.999765
GCNT2	-0.1495	0.406739	-0.14689	-0.01188	0.267019	0.001866	0.275561	0.930127	-0.03225	0.385936	-0.10634	0.27486	0.416719	0.995583	0.246029	0.966173
CHIC2	-0.10353	0.175376	-0.17461	0.121964	0.443439	0.196067	0.193914	0.366106	-0.20923	0.206076	-0.16213	0.076969	0.081431	0.915281	0.143659	0.69442
INTS6	0.135119	0.245683	-0.09926	0.061467	0.316281	0.06798	0.462597	0.649672	0.325288	0.200902	-0.10082	0.146372	0.986303	0.909679	0.254947	0.834142
FXC1	-0.11522	-0.15683	0.023684	-0.07496	0.397759	0.252843	0.862448	0.582981	-0.12434	-0.30213	-0.01727	-0.24626	0.205169	0.020641	0.455181	0.049496
TIMM13	-0.03777	0.145866	-0.10319	0.009132	0.780293	0.283409	0.444968	0.94625	-0.27816	0.589111	-0.32884	0.330765	0.030617	0.999992	0.013707	0.987623
TIMM10	-0.27971	0.135569	-0.13134	0.079603	0.035095	0.319137	0.330119	0.556123	-0.23101	0.357352	-0.27723	0.1982	0.061219	0.992617	0.032611	0.90665
TIMM9	-0.04321	0.262013	-0.34767	0.17646	0.749626	0.051089	0.008052	0.189164	-0.06935	0.481523	-0.29705	0.324385	0.323489	0.999648	0.023762	0.986075

TIMM8B	-0.10213	0.073165	-0.29424	-0.02635	0.449687	0.592038	0.026307	0.845714	-0.31556	0.346576	-0.17757	0.130021	0.016328	0.990852	0.12162	0.805448
EIF2C1	0.029124	0.165884	-0.22688	0.035664	0.831267	0.226134	0.092654	0.79413	-0.03982	0.303627	0.005769	0.235298	0.396372	0.979883	0.515002	0.942273
LATS2	0.284638	-0.10769	0.309877	0.052288	0.031875	0.429543	0.018989	0.699289	0.400257	-0.37495	0.395597	-0.26993	0.997076	0.005122	0.996425	0.034821
IL1F5	0.048864	-0.15412	0.250577	-0.23685	0.71813	0.256739	0.060106	0.076085	0.091192	-0.37917	0.212542	-0.35495	0.726657	0.004679	0.919502	0.007748
TSPAN16	0.233574	-0.22255	0.145535	-0.09264	0.083178	0.10245	0.284515	0.497092	0.395522	-0.33723	0.431492	-0.24798	0.996419	0.011745	0.998275	0.050246
DAZAP1	-0.07982	0.148462	-0.07739	0.024044	0.555052	0.274837	0.567205	0.859093	-0.06457	0.409631	-0.18825	0.166143	0.334929	0.997651	0.10779	0.865098
OR12D2	0.114707	-0.10705	0.150704	-0.30541	0.395526	0.432306	0.263146	0.020875	0.196779	-0.39016	0.243689	-0.3313	0.905029	0.003675	0.946642	0.012254
OR11A1	-0.07106	-0.02682	0.056956	-0.38524	0.599409	0.844467	0.673885	0.003085	0.043355	-0.34963	0.035585	-0.32749	0.612595	0.008615	0.591758	0.013154
OR10H3	-0.03502	-0.26217	0.087453	-0.22232	0.795921	0.050949	0.517716	0.096481	0.206108	-0.44303	0.156096	-0.1808	0.915315	0.001023	0.84707	0.114603
OR10G3	-0.01553	0.09462	0.12999	-0.06109	0.909581	0.491989	0.339642	0.654662	-0.04861	-0.17552	0.15269	-0.30084	0.374182	0.121656	0.841669	0.021098
OR10G2	0.078487	-0.06714	0.13774	-0.17659	0.561688	0.622985	0.306896	0.18882	-0.014	-0.26168	0.090773	-0.20509	0.463203	0.039486	0.723413	0.085768
OR10H2	-0.22911	0.056813	0.079884	-0.19383	0.086475	0.677486	0.554726	0.148546	-0.16214	-0.32481	-0.01932	-0.26806	0.143636	0.01474	0.450472	0.037508
OR10H1	0.024439	0.140312	0.098758	-0.22124	0.858103	0.306899	0.468978	0.101293	0.084869	-0.23976	0.17943	-0.16061	0.712527	0.054263	0.880878	0.143151
ITGB1BP2	-0.02497	0.134649	0.069512	-0.16294	0.85371	0.322463	0.607393	0.225888	-0.08212	0.13037	-0.03699	0.153706	0.295881	0.803333	0.405793	0.843293
GDF1	-0.10552	-0.05645	0.104553	-0.02443	0.434672	0.679443	0.438934	0.856862	0.130127	-0.25642	0.2147	-0.08688	0.805642	0.0427	0.921656	0.28294
AATF	0.07785	0.12035	-0.15008	0.196048	0.568472	0.38145	0.269581	0.147591	-0.0707	0.385212	-0.14961	0.13153	0.320293	0.995899	0.163322	0.808212
RGS17	0.070291	0.104936	-0.02149	-0.06117	0.603362	0.441487	0.873954	0.651261	0.127306	-0.25903	0.242695	-0.31304	0.800416	0.041079	0.945902	0.017076
SRPK3	-0.0561	-0.17778	0.142845	-0.16626	0.678537	0.189905	0.289141	0.216442	0.062723	-0.39752	0.224716	-0.37817	0.660603	0.003113	0.931105	0.004781
PCOLCE2	0.352353	-0.31654	0.326821	-0.27113	0.007738	0.018548	0.013953	0.043255	0.439987	-0.35264	0.299114	-0.32371	0.998754	0.008753	0.975718	0.015033
OSTF1	-0.05627	0.485422	-0.38364	0.190086	0.677581	0.000149	0.00322	0.156695	-0.0965	0.634819	-0.269	0.376123	0.261741	0.999999	0.036985	0.995005
MYEOV	-0.11357	0.031521	-0.03278	-0.03671	0.400255	0.81761	0.808714	0.786307	0.04813	0.070211	0.00795	-0.01768	0.624618	0.678556	0.520668	0.453569
GDF2	0.030824	-0.15245	0.360039	-0.14647	0.819947	0.262003	0.005943	0.276963	0.128303	-0.5007	0.355213	-0.31821	0.802273	0.000197	0.991677	0.015574
BSCL2	-0.29295	-0.09684	-0.08887	-0.11359	0.028446	0.481855	0.514832	0.404509	-0.38718	-0.02459	-0.14673	0.004819	0.003927	0.435558	0.168079	0.512679
GREM1	0.074238	-0.06099	0.164397	0.043856	0.5866	0.658266	0.225994	0.748256	0.087619	-0.16224	0.05183	0.128194	0.718713	0.140686	0.632367	0.80207
CKAP2	-0.07684	0.428646	-0.35193	0.067137	0.569939	0.000981	0.007261	0.619753	-0.18051	0.717478	-0.20981	0.482831	0.114981	1	0.083291	0.999661
MRPL46	-0.09167	0.075144	-0.26214	0.030727	0.501633	0.585577	0.050971	0.822128	-0.08662	0.511788	-0.25131	0.354745	0.283522	0.999861	0.047933	0.992219
AMELY	0.120826	-0.01319	0.171789	-0.2354	0.370629	0.923154	0.201331	0.077947	0.224695	-0.30369	0.182662	-0.2149	0.933359	0.020097	0.885123	0.075757
MSTN	0.104625	-0.1851	0.09892	-0.12798	0.438619	0.172017	0.464119	0.342746	0.048955	-0.32553	0.17121	-0.31484	0.626684	0.013636	0.869604	0.016539
TBL2	0.112851	0.209149	0.266158	0.085256	0.403266	0.121866	0.045372	0.528331	-0.05142	0.163824	-0.14579	0.118586	0.367176	0.861681	0.169632	0.783752
VCX	0.021054	0.012025	0.15406	-0.19014	0.876467	0.929907	0.252539	0.15658	-0.03501	-0.3679	0.119202	-0.30028	0.408658	0.005944	0.782279	0.021299
GDF9	-0.12321	-0.11734	0.110573	-0.35731	0.361185	0.389086	0.412886	0.00636	-0.1119	-0.30992	0.097747	-0.23204	0.232146	0.019141	0.736054	0.062542
ELP4	0.139071	0.175984	-0.19027	0.076063	0.3022	0.194495	0.156277	0.573876	-0.11803	0.461891	-0.19328	0.370138	0.217341	0.999384	0.10167	0.994328
GDF10	0.385925	-0.28606	0.286333	0.102412	0.003028	0.032576	0.030826	0.448415	0.299411	-0.30323	0.154075	-0.05173	0.978384	0.020255	0.843879	0.366402
GDI1	-0.0897	-0.22964	0.030004	-0.086	0.510917	0.091688	0.826252	0.528556	-0.16145	-0.20378	0.047106	-0.18363	0.141874	0.087169	0.620684	0.110931
OR7E24	0.167991	-0.18891	0.177798	-0.20589	0.211626	0.163204	0.185776	0.124422	0.150121	-0.39499	0.131713	-0.44593	0.840328	0.003297	0.805783	0.000948
GDI2	-0.02127	0.327512	-0.31831	0.254258	0.875209	0.013741	0.015819	0.056317	-0.05919	0.525091	-0.16827	0.452562	0.347982	0.99991	0.134596	0.999205
OFCC1	0.1468	0.064615	0.300241	-0.14142	0.275854	0.636125	0.023257	0.294023	0.013199	-0.16872	0.083183	-0.28543	0.534288	0.13394	0.704304	0.028677
OR7C2	-0.09334	-0.16708	0.132598	-0.14177	0.489821	0.218391	0.325479	0.292833	0.068044	-0.2762	0.118425	-0.19472	0.673398	0.031582	0.78077	0.097353
OR7A5	0.042712	-0.14282	0.172617	-0.14659	0.754616	0.298249	0.203307	0.280993	-0.01163	-0.2895	-0.04259	-0.2831	0.469427	0.0255	0.390592	0.028296
SEC14L3	-0.11995	-0.4159	-0.02618	-0.21917	0.374123	0.001433	0.846745	0.101418	-0.40843	-0.27314	-0.11466	-0.16392	0.002674	0.03473	0.229309	0.140979
OR7C1	0.101966	-0.10734	0.29511	-0.18512	0.450406	0.431042	0.025843	0.168013	0.037823	-0.22616	-0.04916	-0.28705	0.598534	0.065353	0.374223	0.026545
NCRNA000	-0.24337	-0.1496	-0.01421	-0.20005	0.068119	0.271131	0.916455	0.135692	-0.22199	-0.25068	-0.05539	-0.19898	0.069068	0.046446	0.358904	0.092466
BEST4	-0.22257	-0.21209	0.075791	-0.18949	0.09609	0.116583	0.575246	0.158017	-0.0752	-0.2973	0.020281	-0.18446	0.31172	0.023667	0.551981	0.112558
HS6ST3	0.108544	-0.34385	0.277268	-0.12142	0.421563	0.009465	0.036791	0.368247	0.397339	-0.55668	0.104407	-0.55627	0.996874	2.94E-05	0.752551	2.98E-05
MDGA1	0.031783	-0.00873	0.237071	0.099842	0.817816	0.950071	0.081382	0.468293	-0.11232	0.279577	-0.01563	0.122595	0.231289	0.968555	0.459889	0.788806
NPAS4	-0.06498	-0.12452	0.152144	-0.31698	0.631081	0.360507	0.258557	0.016286	0.105686	-0.28728	0.086238	-0.38432	0.755203	0.027845	0.711102	0.004574
RGL4	-0.17986	-0.24623	0.083062	-0.10653	0.180646	0.067353	0.539032	0.430295	0.074215	-0.35962	0.140901	-0.22791	0.687996	0.007051	0.822051	0.063835
GDNF	0.215323	-0.01782	0.256454	-0.04732	0.107711	0.896294	0.054151	0.726665	0.294993	-0.16195	0.148347	-0.18981	0.97542	0.143917	0.831731	0.105862
NAP1L5	0.196623	-0.16509	0.151131	-0.1232	0.146383	0.228385	0.266201	0.365679	0.191554	-0.55204	0.269101	-0.13573	0.898895	3.49E-05	0.963073	0.184226
OR4E2	0.118042	-0.30116	0.134739	-0.33316	0.381839	0.0241	0.317658	0.01133	0.219139	-0.40967	0.124513	-0.38461	0.928297	0.002347	0.792444	0.004156

OR4D1	0.040248	-0.01513	0.203432	-0.26232	0.766275	0.91188	0.129072	0.048698	-0.00496	-0.31166	0.09752	-0.31545	0.487097	0.018577	0.735573	0.017397
GEM	0.3777	-0.22832	0.235692	0.161996	0.004107	0.093616	0.080342	0.232938	0.493574	-0.30736	0.366899	-0.1548	0.999754	0.018864	0.993414	0.152162
OR2W1	0.080502	-0.11548	0.082732	-0.31926	0.551659	0.396692	0.540651	0.015491	0.071104	-0.33215	0.133391	-0.26024	0.68067	0.01206	0.808818	0.040347
OR2T1	-0.05689	-0.19809	0.208464	-0.12993	0.674246	0.143339	0.119672	0.335408	0.003833	-0.27216	0.037612	-0.2391	0.509967	0.035254	0.595761	0.05684
PIPSL	-0.12296	0.21859	-0.08072	-0.00412	0.362185	0.10555	0.55058	0.97574	-0.26695	0.090877	-0.29784	-0.07655	0.036455	0.725961	0.023456	0.306563
GPR110	-0.2796	0.452109	-0.31809	-0.02665	0.035171	0.000469	0.015895	0.843984	-0.31102	0.567942	-0.26401	0.309925	0.017695	0.999981	0.039848	0.981963
AMFR	0.117956	0.062071	-0.30549	0.185262	0.386586	0.65257	0.022047	0.171635	0.016912	0.234417	-0.03814	0.318129	0.543899	0.939424	0.402922	0.983402
GFAP	-0.02399	-0.18634	0.251058	-0.19079	0.859379	0.169111	0.059599	0.155148	0.073752	-0.39069	0.175575	-0.43618	0.686909	0.003632	0.875676	0.001222
PGBD2	0.002493	0.427571	-0.1277	0.105884	0.985453	0.00113	0.348276	0.437348	-0.04378	0.567263	-0.2525	0.22532	0.386318	0.99998	0.047123	0.933912
PGBD3	-0.00325	0.390191	-0.1781	0.049566	0.980843	0.00295	0.185024	0.714253	0.044218	0.185086	-0.18884	0.013052	0.614777	0.890921	0.107056	0.534303
DAOA	0.037429	-0.07661	0.083087	-0.257	0.784184	0.57826	0.542658	0.055861	-0.09378	-0.36292	-0.01837	-0.28372	0.267661	0.00659	0.452325	0.028014
OR2J2	-0.00049	-0.23776	0.064051	-0.18113	0.997094	0.077643	0.635966	0.177545	-0.03264	-0.43057	0.202245	-0.13975	0.414755	0.001409	0.908625	0.177143
GFER	-0.08224	-0.20193	0.121218	-0.13789	0.543077	0.135577	0.369069	0.306363	-0.16521	-0.25773	0.006016	-0.16871	0.136268	0.041881	0.515643	0.131178
OR2H1	0.015549	0.1519	0.078379	-0.30625	0.908605	0.263749	0.562232	0.020508	-0.16713	-0.19002	0.003778	-0.38171	0.133459	0.102955	0.509826	0.004428
GFI1	-0.13464	-0.23161	0.216493	0.271479	0.317999	0.085872	0.105766	0.041077	-0.04209	-0.30168	0.0254	-0.21502	0.390614	0.020799	0.565772	0.075639
GFPT1	0.039057	0.032573	-0.04038	0.034582	0.773001	0.811632	0.765511	0.798429	-0.08711	0.16409	-0.16256	0.153295	0.282422	0.862075	0.142999	0.845449
OR1L3	0.008236	-0.05608	0.240538	-0.25394	0.951516	0.681427	0.07149	0.056636	0.06048	-0.32891	0.116807	-0.13757	0.655154	0.012811	0.777607	0.180961
OR1L1	0.045804	-0.01592	-0.03534	-0.42322	0.735114	0.907281	0.794106	0.001038	0.169762	-0.3025	0.138105	-0.33032	0.867547	0.021706	0.814341	0.013341
GFRA1	0.289507	-0.14173	0.102724	0.323099	0.028939	0.297416	0.447027	0.014229	0.033755	0.035496	0.071662	0.307234	0.588115	0.592584	0.680035	0.981097
OR1J2	-0.08443	0.119583	-0.05822	-0.13278	0.53237	0.380026	0.667057	0.324793	0.051095	-0.08562	0.221939	0.100323	0.632027	0.285778	0.928575	0.746454
NUFIP1	-0.10509	0.21686	-0.04501	0.017439	0.436564	0.108406	0.739544	0.897551	-0.05057	0.004799	-0.12543	-0.0072	0.369283	0.512625	0.205823	0.481075
GFRA2	0.207455	-0.3729	0.26882	0.064759	0.121514	0.004648	0.04318	0.63223	0.071585	-0.05455	0.013933	-0.02285	0.681807	0.359397	0.53619	0.440087
RPS6KC1	0.198257	0.12623	-0.00733	0.130899	0.13931	0.353911	0.956844	0.331768	0.25061	0.047769	-0.03763	0.031468	0.953508	0.623713	0.403076	0.582232
SH3YL1	0.053199	0.148085	-0.1744	0.100899	0.694302	0.276069	0.194468	0.455183	0.058937	0.423737	-0.1778	0.184033	0.651386	0.998329	0.12131	0.889582
GFRA3	0.064612	0.245107	-0.05	0.215068	0.636138	0.071289	0.714373	0.111426	-0.10913	0.154769	0.055112	0.033179	0.237731	0.84498	0.638824	0.58565
HAVCR1	0.058495	-0.24562	0.208943	-0.18185	0.665587	0.068058	0.118805	0.175797	0.090653	-0.36031	0.028188	-0.23343	0.725464	0.006953	0.572918	0.05923
SNORD81	0.074226	0.264988	-0.13032	0.33349	0.583186	0.048416	0.333932	0.011244	0.10329	0.529865	-0.06036	0.388545	0.752728	0.999924	0.346827	0.99619
GGCX	0.100733	0.198326	-0.08282	0.126806	0.460093	0.14664	0.543937	0.351704	0.19034	0.549488	-0.18304	0.403607	0.894787	0.999954	0.117166	0.997014
SNORD102	0.073809	0.182293	-0.12012	0.266955	0.58531	0.178727	0.373455	0.044706	0.106855	0.428552	-0.12405	0.129776	0.760157	0.998518	0.208431	0.804997
SNORD4B	-0.0198	0.291435	-0.07108	0.102431	0.883755	0.029312	0.599295	0.448332	-0.03817	0.217718	-0.17739	0.206473	0.401697	0.924598	0.124665	0.913212
SNORD4A	-0.11868	0.336307	-0.21451	0.314728	0.379257	0.01127	0.109072	0.017105	-0.05209	0.559522	-0.16822	0.179006	0.365485	0.999974	0.134673	0.883038
SNORD80	0.041711	0.243178	-0.23066	0.343334	0.758028	0.070926	0.084312	0.008931	-0.02874	0.595125	-0.09601	0.322825	0.424807	0.999994	0.265197	0.985673
SNORA71B	-0.11384	-0.07968	0.173881	-0.05549	0.399119	0.559411	0.195814	0.681843	0.141232	-0.43174	0.075148	-0.35831	0.822621	0.001532	0.686095	0.007828
SNORA71A	0.016454	0.080368	0.036222	-0.03406	0.903307	0.555988	0.789086	0.801418	0.159714	0.006748	0.008781	-0.0467	0.855483	0.517751	0.522826	0.378976
SNORA70	0.049266	-0.00623	0.051606	0.365206	0.718417	0.963988	0.705636	0.005647	0.149457	0.273814	-0.07009	0.14461	0.836431	0.965626	0.3256	0.828377
SNORA69	-0.14344	0.054447	-0.23443	0.117885	0.291591	0.692984	0.082018	0.386877	-0.2696	0.343982	-0.18504	0.127511	0.035001	0.990377	0.111828	0.800799
GGT1	-0.04056	-0.01445	0.231843	0.017603	0.766612	0.916636	0.085554	0.897541	0.044491	-0.16671	0.156855	-0.13981	0.615465	0.134073	0.848259	0.177037
SNORA68	-0.01075	-0.15519	0.183007	0.048427	0.937332	0.257898	0.177001	0.723016	0.052856	-0.21313	-0.05874	-0.16356	0.636405	0.077489	0.350743	0.13872
SNORA67	-0.01221	0.131475	-0.00218	0.236221	0.928163	0.334103	0.987153	0.076886	0.069085	0.205058	-0.03853	0.146555	0.675881	0.914199	0.400797	0.834448
SNORA66	0.090026	-0.09276	0.085149	0.134417	0.509356	0.500568	0.532656	0.323305	-0.03719	0.047731	0.238239	-0.00845	0.403077	0.623619	0.942484	0.477776
SNORA65	-0.14143	0.002566	0.006206	-0.00619	0.29399	0.985026	0.963455	0.963529	0.10317	-0.11415	-0.09353	0.006929	0.752475	0.225015	0.270558	0.518226
SNORA64	0.083352	-0.25174	0.055232	0.221723	0.537615	0.06126	0.683227	0.097401	0.107383	-0.17718	0.026574	-0.16805	0.761248	0.119404	0.568783	0.132133
SNORD63	0.270654	0.164783	0.029553	0.160135	0.04172	0.224889	0.827253	0.234083	0.188388	0.339909	-0.02184	0.19173	0.895044	0.98959	0.44338	0.899105
SNORD61	0.012444	0.111131	-0.00031	0.226153	0.926798	0.414843	0.998161	0.090725	0.046046	0.040514	0.088423	-0.03878	0.619385	0.605391	0.718233	0.399021
SNORD60	-0.00128	-0.13627	0.129449	0.318998	0.99244	0.316618	0.337202	0.015581	-0.03746	0.238545	-0.1375	0.208525	0.402403	0.944813	0.18387	0.917843
SNORD59A	-0.0366	0.290788	-0.07219	0.338368	0.786956	0.02969	0.593566	0.01004	0.223587	0.292519	-0.04348	0.164209	0.930085	0.974409	0.389655	0.859458
SNORD58A	0.011168	0.225629	-0.04619	0.264702	0.934288	0.094522	0.73296	0.04661	0.040757	0.308756	-0.13664	0.191315	0.606009	0.981591	0.185395	0.898607
SNORD57	-0.06943	-0.11161	0.191648	0.067598	0.611146	0.417231	0.157076	0.620588	0.07969	0.052586	-0.04895	0.167795	0.700711	0.635736	0.374754	0.8675
SNORD56	-0.1644	0.156918	0.03499	0.279665	0.221683	0.248109	0.796103	0.035127	-0.11059	0.46388	-0.11106	0.317522	0.234785	0.999335	0.23647	0.983224
SNORD54	-0.05353	0.32181	-0.04381	0.309014	0.692482	0.01558	0.746253	0.019342	0.198181	0.443275	-0.04435	0.221207	0.906629	0.998983	0.386194	0.930213

SNORD53	-0.00239	0.188233	-0.0864	0.165215	0.985913	0.164743	0.522781	0.219381	0.056832	0.209692	-0.2927	0.221674	0.644611	0.916591	0.02692	0.92833
SNORD52	0.015275	0.195191	-0.20096	0.322904	0.910209	0.149405	0.133891	0.014291	0.104451	0.403844	0.01333	0.230666	0.752643	0.99703	0.534219	0.936302
SNORD51	0.111714	0.111445	-0.09848	-0.09623	0.416787	0.422386	0.474416	0.484631	0.122405	0.285256	-0.05247	0.061608	0.791144	0.972672	0.366055	0.657899
SNORD50A	0.159283	-0.12217	0.20576	0.371504	0.236615	0.369746	0.124655	0.004438	0.149896	-0.00874	0.104583	0.13018	0.839962	0.477022	0.752918	0.805739
AMH	0.016633	-0.1795	0.307028	-0.26603	0.902266	0.185601	0.020175	0.045479	0.134021	-0.53421	0.145184	-0.49243	0.809949	7.85E-05	0.826471	0.000295
SNORD49A	-0.05071	0.365255	-0.17736	0.212617	0.707934	0.00564	0.186885	0.112314	-0.02163	0.628663	-0.16683	0.345382	0.443263	0.999999	0.136689	0.990636
SNORD48	-0.08171	0.07271	0.083669	0.102404	0.545671	0.594346	0.536064	0.448451	0.214875	-0.29213	0.190966	-0.25916	0.924222	0.024419	0.895549	0.040999
SNORD47	0.176223	-0.02213	0.036974	0.293718	0.189768	0.871386	0.784809	0.026585	0.011325	0.320851	0.013061	0.234312	0.529772	0.98515	0.533931	0.941484
SNORD45B	0.069877	0.211407	-0.12753	0.278731	0.605504	0.117798	0.344474	0.035768	0.184047	0.536793	-0.05012	0.287093	0.8896	0.99994	0.371859	0.973475
SNORD45A	-0.01577	0.31615	0.037915	0.193094	0.907308	0.01761	0.779467	0.150119	0.101612	0.47804	-0.13379	0.362094	0.74919	0.99961	0.190464	0.993297
SNORD44	-0.00918	0.308945	-0.15163	0.325458	0.945952	0.020516	0.260194	0.013497	0.150937	0.528266	-0.03447	0.310813	0.841655	0.999919	0.411061	0.982241
SNORD43	-0.15442	-0.10402	-0.05678	0.036581	0.251418	0.445491	0.674838	0.787042	0.167089	-0.22473	0.060997	-0.06703	0.866477	0.066606	0.654698	0.329023
SNORD42B	0.004246	0.395659	-0.02487	0.174579	0.974996	0.002542	0.854273	0.193998	0.147768	0.308188	-0.1467	0.224716	0.833651	0.980284	0.170989	0.931106
SNORD42A	-0.04808	0.256081	-0.00655	-0.08561	0.724938	0.059143	0.961809	0.530437	0.012936	0.024681	-0.04116	-0.08598	0.533998	0.564668	0.39417	0.284967
GGTA1	0.053711	-0.38308	0.109494	0.198223	0.691508	0.003567	0.417487	0.139379	0.134913	-0.50685	0.224896	-0.23561	0.814322	0.000162	0.931267	0.057481
SNORD41	-0.12818	0.076423	0.043433	-0.04091	0.342011	0.575602	0.748364	0.762517	-0.00771	0.120233	0.013148	0.132952	0.479717	0.786959	0.534156	0.810795
SNORD55	0.011503	-0.04023	0.083842	0.210868	0.932321	0.768476	0.535218	0.115369	-0.10779	0.259831	-0.25857	0.20592	0.237919	0.959407	0.043172	0.915116
SNORD37	-0.0981	0.195597	-0.05005	0.314666	0.467868	0.148543	0.711157	0.017128	-0.13987	0.29277	-0.01548	0.308292	0.176931	0.975839	0.459793	0.981441
SNORD36C	-0.09131	0.058517	0.147766	0.369888	0.499367	0.668365	0.272672	0.004627	0.092518	0.228453	0.059583	0.26593	0.729577	0.936629	0.651286	0.962975
SNORD36B	-0.06617	0.312324	-0.08021	0.337339	0.624796	0.019106	0.553097	0.010284	0.072926	0.38979	-0.00489	0.255958	0.684969	0.996294	0.487272	0.957006
SNORD36A	-0.03451	0.395457	-0.11225	0.355142	0.798858	0.002556	0.405798	0.006711	0.159148	0.487064	-0.04469	0.249064	0.854616	0.999701	0.385323	0.952458
SNORD35A	0.039839	-0.12034	0.160897	0.255171	0.76858	0.377	0.231835	0.055408	-0.00271	0.06872	-0.19373	0.163479	0.492941	0.673121	0.103826	0.858372
SNORD34	0.07922	-0.09253	0.01646	0.272785	0.558033	0.497588	0.903275	0.040076	-0.00015	0.227688	-0.2336	0.143428	0.499597	0.935973	0.061247	0.829181
SNORD33	-0.02032	-0.18159	0.276091	0.134411	0.880743	0.180439	0.03763	0.318846	0.10668	-0.16814	-0.02353	-0.02918	0.757251	0.134787	0.43975	0.424542
SNORD32A	-0.00746	-0.10282	0.176463	0.088288	0.956104	0.450817	0.189156	0.513714	0.059549	0.000849	-0.00985	-0.04619	0.652883	0.502233	0.474392	0.38025
SNORD24	-0.07441	0.216825	0.1245	0.267158	0.58224	0.108465	0.356149	0.044538	0.196864	0.194911	-0.00183	0.187015	0.905126	0.902867	0.495229	0.893343
SNORA74A	0.056178	0.023472	-0.06918	-0.15713	0.678096	0.863666	0.609125	0.243103	-0.10645	0.208612	-0.02129	0.117687	0.240672	0.917933	0.444793	0.781993
RNU12	-0.00342	-0.1947	0.254147	-0.18094	0.979856	0.15045	0.056428	0.178	-0.04466	-0.39146	0.202146	-0.33495	0.384097	0.00357	0.908517	0.011442
RNU5F	-0.04628	0.055535	-0.01568	0.093147	0.734816	0.68716	0.908662	0.494724	-0.08395	0.101471	-0.128	0.075139	0.289546	0.74889	0.201029	0.690157
RNU5E	-0.18786	-0.06268	0.005794	-0.07417	0.165588	0.649381	0.966197	0.58694	0.044168	-0.41232	-0.08464	-0.21711	0.613362	0.002442	0.292439	0.075988
B4GALT1	0.156808	0.323453	-0.04099	0.217613	0.244073	0.01503	0.762107	0.103929	0.114496	0.478535	-0.18579	0.325689	0.775677	0.999616	0.110868	0.986404
RNU5D	-0.01897	0.061954	0.053351	0.044488	0.888634	0.650118	0.693473	0.742459	-0.20335	0.316053	-0.25477	0.194287	0.087633	0.983813	0.045612	0.902137
RNU5B-1	0.006837	-0.1099	-0.09422	-0.15409	0.959745	0.420056	0.485697	0.252436	0.191452	-0.17849	0.203748	-0.2701	0.898771	0.117649	0.910276	0.034731
RNU2-2	0.174076	-0.28946	0.245138	0.330153	0.195305	0.030477	0.066077	0.012137	0.336344	-0.20874	0.191914	-0.19219	0.988857	0.081932	0.896696	0.100342
GGT7	-0.02667	-0.21969	0.097039	0.039049	0.843904	0.103762	0.472699	0.773045	0.032144	-0.14177	-0.09245	-0.15077	0.583973	0.173646	0.272916	0.158608
GGT5	0.178714	-0.27378	0.292355	0.216786	0.183485	0.041173	0.027329	0.105283	0.237453	-0.23664	0.206262	-0.16372	0.943968	0.056669	0.912987	0.138476
STEAP1	-0.09633	0.347771	-0.25308	0.136892	0.475948	0.008631	0.057504	0.309913	-0.17688	0.32819	-0.18893	0.236322	0.11981	0.987017	0.106941	0.943083
OPLAH	-0.04063	0.040804	0.153289	-0.21709	0.766238	0.767395	0.259355	0.108015	0.177538	-0.17444	0.164907	-0.3389	0.878344	0.125884	0.857629	0.011385
GH1	0.030167	-0.20443	0.141079	-0.12306	0.823722	0.130704	0.295206	0.361788	-0.08803	-0.38907	-0.05875	-0.34605	0.282639	0.004127	0.352412	0.009943
GH2	-0.13067	-0.13428	0.097176	-0.12688	0.33264	0.323808	0.47207	0.346968	0.127058	-0.02209	0.112459	0.009759	0.797219	0.442748	0.766327	0.525364
AMHR2	0.025146	-0.1815	0.266975	-0.24065	0.852702	0.180664	0.04469	0.071355	-0.03675	-0.26715	0.153677	-0.21338	0.404216	0.036344	0.843247	0.077242
GHR	0.34032	-0.05245	0.029877	0.006091	0.00959	0.701022	0.825387	0.964134	0.047347	0.087769	0.084264	0.096864	0.621282	0.716784	0.706718	0.73663
GHRH	-0.09674	-0.23673	0.214522	-0.16905	0.474062	0.078986	0.109058	0.208716	0.100696	-0.4061	0.183232	-0.28705	0.747248	0.002553	0.88586	0.026544
GHRHR	-0.20376	0.018357	0.091469	-0.02232	0.128448	0.893176	0.498597	0.869076	-0.0515	-0.35948	0.113515	-0.37162	0.368454	0.007648	0.768425	0.005977
GHSR	0.034229	-0.11637	0.264119	-0.24327	0.800446	0.393043	0.047113	0.068233	0.075891	-0.41588	0.211784	-0.39569	0.691911	0.002023	0.918735	0.003246
GIF	-0.09885	-0.09461	0.069246	-0.30964	0.472742	0.49617	0.61542	0.021423	0.13537	-0.3753	0.12501	-0.44309	0.815139	0.005084	0.793381	0.001022
GIP	0.021539	-0.1341	0.197404	-0.10107	0.8748	0.329007	0.144754	0.458575	0.142403	-0.29822	0.095378	-0.30115	0.827433	0.022055	0.733435	0.020989
SMR3A	-0.09249	-0.28005	0.047366	-0.03587	0.493794	0.036577	0.726431	0.791104	0.03474	-0.3588	0.225085	-0.30647	0.590645	0.007169	0.931436	0.019157
RANBP6	0.006808	0.225114	-0.21268	0.183989	0.959915	0.095298	0.112213	0.170674	-0.05458	0.475898	-0.1664	0.372656	0.359338	0.999585	0.137316	0.994622
COPG2	0.06136	0.227115	-0.32477	0.055929	0.650243	0.092314	0.013706	0.679445	-0.25955	0.551604	-0.23486	0.40223	0.040762	0.999965	0.060212	0.997206

HBP1	0.051214	0.177252	-0.22862	0.131611	0.705177	0.19125	0.087169	0.329122	0.07626	0.300746	0.039188	0.213145	0.692771	0.978868	0.600864	0.922522
GIPR	-0.29702	-0.14055	-0.02969	-0.37721	0.024853	0.301512	0.826485	0.003822	-0.32614	-0.36322	-0.08791	-0.4165	0.013484	0.006549	0.282905	0.001994
NBEA	-0.02077	0.02252	0.011175	-0.22098	0.878128	0.869143	0.934249	0.09856	-0.13136	-0.13762	0.035687	-0.12708	0.192092	0.180869	0.592017	0.200007
GJA1	0.202336	-0.09145	0.040612	0.290794	0.131192	0.502669	0.764219	0.028202	0.117339	-0.10873	0.110492	0.035349	0.781309	0.235991	0.765026	0.592207
CHORDC1	-0.02993	0.191952	-0.12907	-0.04799	0.825104	0.156408	0.338626	0.722968	0.121776	0.149516	-0.02913	0.121412	0.789936	0.83934	0.424664	0.789236
ZNF285A	0.156313	-0.15551	0.170586	-0.13346	0.249959	0.25692	0.208756	0.326792	0.293737	-0.24603	0.1014	-0.15161	0.976223	0.049657	0.746265	0.157259
SEC22A	0.038633	0.127593	-0.21034	0.056956	0.775399	0.348695	0.1163	0.673883	0.209857	0.092001	0.070842	-0.04957	0.919212	0.72844	0.678113	0.371783
AP3M1	0.0482	0.311411	-0.29332	0.191269	0.721807	0.019478	0.026802	0.154084	-0.07336	0.513761	-0.28515	0.393138	0.314011	0.99987	0.028807	0.996562
PABPC1	0.104061	0.513072	-0.23619	0.199102	0.441104	5.27E-05	0.076932	0.137598	0.229488	0.611226	-0.08207	0.329716	0.937508	0.999997	0.295991	0.987379
AKAP8L	-0.13176	-0.06126	0.033366	0.022467	0.333036	0.656813	0.807132	0.869452	0.028618	-0.08815	0.077848	-0.12622	0.574874	0.280091	0.694378	0.201619
RNF11	0.033648	0.097984	-0.1722	0.039958	0.803763	0.472487	0.200248	0.767909	0.214605	-0.18674	0.163173	-0.08127	0.923958	0.106996	0.857913	0.295662
TRUB2	-0.03172	0.153371	-0.08768	0.184686	0.816488	0.263596	0.520506	0.172994	-0.28883	0.656169	-0.39244	0.468646	0.025783	1	0.003834	0.99949
GPR160	-0.09993	0.123144	-0.12346	0.072065	0.459531	0.365895	0.360209	0.594228	-0.12572	0.062645	-0.00668	0.133323	0.202565	0.660414	0.482634	0.811466
FETUB	0.108107	0.122775	0.102628	-0.22969	0.427731	0.37186	0.451648	0.088584	-0.14882	0.258873	0.071992	0.23522	0.164606	0.957021	0.678818	0.940076
CYFIP2	-0.09418	-0.28812	0.146417	0.230624	0.485919	0.031292	0.277122	0.084357	-0.10117	-0.31062	0.243041	-0.15762	0.251756	0.01782	0.946161	0.147746
ABL2	-0.19171	-0.0764	-0.04454	0.199301	0.153126	0.575743	0.742185	0.137198	0.042879	-0.23429	-0.08426	-0.03502	0.61139	0.058533	0.291061	0.408644
AMPD1	0.210128	0.013963	0.119497	0.276513	0.116681	0.918648	0.375956	0.037327	-0.0602	0.266292	0.115961	0.199256	0.347228	0.961482	0.773248	0.90528
GJA3	-0.10401	-0.00077	0.184652	-0.15511	0.441336	0.995488	0.169111	0.249292	0.04212	-0.3231	0.125557	-0.30153	0.609467	0.014256	0.794411	0.020851
DNAJC2	-0.06594	0.213834	-0.24366	0.083374	0.626009	0.113545	0.067782	0.537506	0.055503	0.227838	0.017173	0.062757	0.642951	0.936102	0.544576	0.660685
TCL6	0.026781	-0.26268	0.229618	-0.19704	0.843243	0.050479	0.085758	0.141801	0.132312	-0.45751	0.087635	-0.23043	0.809635	0.000695	0.716485	0.061698
USP21	-0.17155	-0.01034	-0.06114	-0.23585	0.206163	0.940297	0.654425	0.080127	-0.38979	0.078502	-0.1319	-0.04465	0.003706	0.697972	0.19388	0.38414
FGF22	-0.07127	-0.05978	0.222436	-0.12018	0.598295	0.661646	0.0963	0.373197	0.103582	-0.42799	0.187132	-0.36758	0.753341	0.001503	0.89082	0.005983
GJA4	0.17111	-0.18984	0.353019	0.115591	0.203145	0.161112	0.00707	0.391869	0.148099	-0.28258	0.197971	-0.07647	0.83701	0.028533	0.903816	0.306745
TPK1	0.010825	-0.05457	0.033409	0.215376	0.936301	0.689574	0.805131	0.107622	-0.05321	-0.0091	0.194377	0.151916	0.362723	0.476071	0.899634	0.843238
KCNV1	0.003354	-0.1941	0.206879	-0.1329	0.980246	0.151738	0.122574	0.324376	0.101798	-0.28424	0.1	-0.16718	0.749582	0.027782	0.743311	0.133397
C2orf24	0.05503	-0.00521	-0.01894	0.019133	0.684325	0.969598	0.888797	0.887661	0.03599	0.225815	-0.00483	0.115484	0.593847	0.934347	0.487432	0.777643
NGFRAP1	0.278814	-0.25283	0.120903	0.076511	0.035711	0.060103	0.370323	0.571611	0.241506	-0.11034	0.177498	-0.01014	0.945005	0.235291	0.875479	0.47364
DNAI1	-0.12635	-0.20207	0.061375	-0.25173	0.348984	0.135314	0.650166	0.058902	-0.13754	-0.3339	0.089832	-0.2617	0.181009	0.011669	0.721345	0.039473
GJA5	0.112356	-0.07514	0.118192	0.030969	0.405344	0.582033	0.381226	0.819114	0.088273	-0.11174	0.315504	0.034279	0.717902	0.232461	0.981519	0.588444
NPTN	0.015155	0.143797	-0.1161	-0.13576	0.91091	0.290368	0.389793	0.313973	-0.20348	0.321378	-0.21894	0.134085	0.087497	0.985291	0.074231	0.812838
FOXD3	-0.04654	-0.10576	0.172969	-0.16458	0.731007	0.437869	0.198207	0.221187	0.092687	-0.33036	0.09945	-0.32421	0.729947	0.01247	0.742144	0.013969
FOXB1	0.075752	-0.10418	0.347118	-0.13418	0.575445	0.444789	0.008159	0.319703	0.137253	-0.47536	0.19713	-0.38914	0.815694	0.000484	0.900184	0.004121
GJA8	-0.04217	-0.1126	0.201024	-0.10434	0.755467	0.408643	0.133764	0.439857	0.012965	-0.35546	0.052251	-0.31456	0.534074	0.007671	0.633403	0.016624
MLH3	0.056032	0.158948	-0.06251	0.206283	0.678884	0.241965	0.644113	0.123679	0.244164	0.167609	0.094955	0.130308	0.949005	0.86723	0.732521	0.805975
NPHP3	0.095573	0.129984	0.104932	0.036659	0.479445	0.339663	0.437269	0.786599	0.425895	-0.16598	0.10442	-0.1773	0.998416	0.135133	0.752579	0.119241
ATP2C1	-0.04437	0.243234	-0.20619	0.131191	0.743143	0.070859	0.123848	0.330681	-0.0859	0.434832	-0.16012	0.386026	0.285155	0.998735	0.146705	0.995972
ZBTB32	0.044807	-0.25874	0.20094	-0.14125	0.740677	0.054169	0.133928	0.294618	0.103532	-0.44362	0.257393	-0.37785	0.753235	0.001008	0.956085	0.004814
ACAD8	-0.19353	-0.16011	-0.01083	0.354772	0.149173	0.238483	0.93628	0.006773	-0.19347	0.25706	-0.22276	0.006784	0.09883	0.9577	0.070673	0.517844
NOX1	-0.14853	-0.24486	0.111455	-0.03783	0.270162	0.068936	0.409144	0.779948	-0.23897	-0.23992	-0.00514	-0.11008	0.054865	0.054137	0.486628	0.233214
SIGLEC7	-0.01209	-0.23909	0.264164	-0.08991	0.929524	0.078742	0.049144	0.509902	-0.05735	-0.3331	0.172794	-0.06998	0.354124	0.012678	0.868995	0.323906
TRMT2A	0.075328	-0.16421	0.245883	-0.15306	0.581102	0.230906	0.067748	0.260075	-0.05378	-0.14472	0.032304	-0.15111	0.361308	0.168631	0.583424	0.158059
PKD2L2	-0.13755	-0.25825	0.038312	-0.22845	0.30757	0.054641	0.777222	0.087404	-0.03263	-0.5358	0.053575	-0.33516	0.414779	6.22E-05	0.636655	0.011396
LAT	-0.05521	-0.31507	0.133083	0.166876	0.683353	0.01802	0.323694	0.214718	0.073604	-0.30936	0.098593	-0.13059	0.686562	0.018215	0.740324	0.193502
C1orf107	-0.17911	0.292955	-0.31128	0.135629	0.182503	0.028441	0.018426	0.31444	-0.1206	0.344058	-0.11007	0.209568	0.21233	0.990391	0.235825	0.918917
PELP1	0.041467	0.057897	-0.00148	-0.10083	0.761554	0.674586	0.991372	0.459677	-0.16821	0.408071	-0.09287	0.258428	0.131899	0.997563	0.272004	0.95855
SND1	0.141578	0.085276	-0.00925	0.360505	0.293483	0.532043	0.94554	0.005874	0.159672	0.419343	-0.12863	0.324443	0.855419	0.998139	0.199858	0.98609
GJB1	0.016968	-0.23525	0.147579	-0.14445	0.900305	0.080927	0.273286	0.283707	0.157464	-0.35434	0.205899	-0.30207	0.852016	0.007845	0.9126	0.020661
GJB2	0.001183	0.230358	-0.06569	0.169101	0.993095	0.09065	0.630513	0.212805	-0.04747	0.572152	-0.20222	0.409045	0.377025	0.999984	0.091397	0.997618
ANKRD1	-0.02667	-0.23559	0.181723	-0.23623	0.843885	0.080471	0.176094	0.076877	-0.01802	-0.50289	0.219592	-0.41499	0.452679	0.000184	0.926383	0.002067
D4S234E	0.144241	0.273176	0.08058	-0.06817	0.288867	0.043596	0.554945	0.617607	0.010987	0.532726	-0.16206	0.326914	0.528886	0.999931	0.143758	0.986707

STAU2	-0.0155	0.216829	-0.20998	0.052339	0.908884	0.108458	0.116942	0.699008	-0.03612	0.32422	-0.06995	0.266792	0.405823	0.986033	0.323978	0.963459
PPA2	0.097708	0.259861	-0.28523	0.024417	0.469636	0.053097	0.031503	0.856925	-0.0308	0.392486	-0.18673	0.243831	0.419498	0.996511	0.109682	0.948764
GHITM	0.053821	0.296716	-0.33315	0.172738	0.690906	0.026378	0.011333	0.198814	-0.1382	0.504899	-0.23688	0.410581	0.179854	0.999827	0.058594	0.997703
GJB3	-0.02455	0.157571	-0.02212	-0.06013	0.857444	0.250583	0.871473	0.659798	-0.09203	0.490728	-0.10807	0.298773	0.271498	0.999732	0.239897	0.978149
DAPP1	-0.31961	0.164246	-0.28501	0.008964	0.015373	0.226427	0.031642	0.947237	-0.44995	0.259129	-0.12038	0.164569	0.000852	0.95898	0.215448	0.862785
VPS41	0.064247	0.165604	-0.16733	0.032726	0.634929	0.222557	0.213444	0.809038	-0.06533	0.331901	-0.07433	0.279656	0.333102	0.987883	0.313736	0.9701
LAMP3	-0.2285	-0.19816	-0.00356	0.27962	0.090296	0.146976	0.979203	0.036877	-0.46876	0.14557	-0.07275	0.312345	0.000581	0.829992	0.319417	0.981641
TSPAN13	0.069093	0.200639	0.024641	-0.06771	0.609566	0.138153	0.855626	0.616773	-0.05824	0.146158	-0.03969	0.117824	0.350328	0.833784	0.397881	0.782262
LYPD3	-0.04024	0.294933	-0.15131	-0.19481	0.7705	0.030388	0.270158	0.15409	-0.039	0.613606	-0.20097	0.221989	0.398462	0.999997	0.092789	0.930928
B9D1	-0.17281	-0.18826	0.105146	-0.40106	0.198637	0.164685	0.436326	0.001989	-0.30193	-0.39718	0.010742	-0.31067	0.020712	0.003137	0.527915	0.017805
RPUSD2	-0.12033	0.017073	0.01321	-0.12435	0.372596	0.900612	0.922305	0.356752	-0.11764	-0.10374	-0.02138	-0.04109	0.218109	0.246331	0.444561	0.393143
MTBP	0.123925	0.177931	-0.06558	-0.01959	0.358394	0.189527	0.627923	0.884999	0.025361	0.337256	-0.02624	0.20344	0.565671	0.988261	0.43288	0.909939
FOXP1	0.054744	-0.18337	0.30803	-0.06451	0.68588	0.176122	0.019751	0.633567	0.337	-0.19854	0.072291	-0.24779	0.988995	0.09297	0.681505	0.048421
B3GAT1	-0.18189	-0.29855	0.170662	-0.07071	0.179698	0.025417	0.20855	0.604546	0.083472	-0.54088	0.219966	-0.44903	0.70936	5.21E-05	0.926736	0.000873
UQCRQ	0.051447	0.067543	-0.1017	0.110896	0.7039	0.620877	0.451593	0.411513	-0.42395	0.52139	-0.50551	0.433074	0.001853	0.99988	0.000232	0.998518
GJB5	-0.01309	0.414068	-0.04502	0.004468	0.923707	0.001674	0.741789	0.973929	-0.20614	0.702366	-0.30457	0.398866	0.084654	1	0.020964	0.996981
ST6GALNA1	-0.03666	-0.11593	0.135765	0.012984	0.786579	0.39487	0.313949	0.923629	-0.18327	0.246716	-0.07477	0.122014	0.111394	0.950826	0.312728	0.790394
CACNG5	0.066717	0.01303	0.137083	-0.22125	0.621949	0.924066	0.309233	0.098133	0.228246	-0.41249	0.213358	-0.39744	0.936452	0.002195	0.920321	0.003119
CACNG4	-0.11466	-0.08731	0.030211	-0.56439	0.400099	0.526166	0.825068	5.89E-06	-0.14527	-0.49584	0.250239	-0.26391	0.170504	0.000266	0.94932	0.039911
KCNMB3	-0.07673	-0.33659	0.181563	-0.13192	0.570517	0.011198	0.176481	0.327974	0.042229	-0.44207	0.118505	-0.43645	0.608507	0.001181	0.778206	0.001362
TRAPPC3	0.090463	0.07197	-0.29199	0.293634	0.503353	0.598116	0.027533	0.026631	-0.00242	0.491942	-0.23729	0.312833	0.493638	0.999742	0.058262	0.982862
TAF5L	-0.15759	0.332259	-0.13282	0.013797	0.241707	0.012355	0.324676	0.918866	-0.00451	0.311566	-0.08414	0.030559	0.488128	0.982474	0.291326	0.579886
CLUL1	0.151063	-0.1808	0.21358	-0.20401	0.261997	0.182368	0.11066	0.127958	-0.10865	-0.23248	0.154586	-0.12095	0.236138	0.060005	0.844691	0.211653
C7orf54	0.155343	0.171115	0.031839	0.171705	0.248562	0.207328	0.814122	0.201554	0.32219	0.162945	0.050877	0.17506	0.985506	0.86037	0.63002	0.877718
AMPD2	0.054657	-0.14574	0.015407	0.041162	0.686352	0.283814	0.909436	0.761118	-0.03116	-0.15611	-0.00735	-0.10907	0.418574	0.150093	0.480898	0.235293
CACYBP	0.470219	-0.07255	0.290318	-0.32091	0.000255	0.598618	0.029967	0.01589	0.201769	-0.14178	-0.0388	-0.02925	0.910635	0.173643	0.400125	0.423484
EIF2AK1	-0.08271	0.231027	-0.23202	-0.01139	0.540747	0.086691	0.082441	0.93296	-0.08334	0.144233	-0.01154	0.024803	0.290935	0.830547	0.470007	0.564983
ARRDC2	0.17984	-0.05699	0.047241	0.014056	0.184745	0.679399	0.729541	0.918105	0.312863	-0.094	0.115896	-0.29584	0.98287	0.267185	0.775815	0.022957
ZBTB11	0.077768	0.225053	-0.23019	0.247222	0.565293	0.095389	0.084962	0.063736	0.046946	0.298536	-0.21659	0.213475	0.621647	0.978061	0.07649	0.922848
ATP5S	-0.04838	0.344917	-0.19868	0.093352	0.720832	0.009232	0.138448	0.489761	0.169002	0.508055	-0.0824	0.224293	0.869235	0.999844	0.295252	0.933002
SDCBP2	-0.21371	0.365734	-0.17627	-0.09512	0.110429	0.005573	0.189658	0.481556	-0.11503	0.497464	-0.22008	0.241257	0.223259	0.999782	0.073158	0.946868
FAM155B	-0.13246	-0.03514	0.134652	-0.15434	0.325977	0.797115	0.317971	0.251662	0.126824	-0.38182	-0.10523	-0.3338	0.799515	0.004417	0.245737	0.011691
BBC3	-0.04816	-0.09113	0.264435	-0.19882	0.722048	0.504153	0.04684	0.138163	0.042903	-0.43085	0.219125	-0.37392	0.611451	0.001399	0.925941	0.005236
PDE7B	0.124883	-0.09516	0.113855	0.124319	0.354662	0.485391	0.399066	0.356855	0.066917	-0.25156	0.251887	-0.11282	0.668854	0.047764	0.950472	0.2303
GK2	0.037557	-0.23688	0.074772	-0.24285	0.781502	0.078784	0.580413	0.068727	0.156862	-0.39953	0.133363	-0.2957	0.85108	0.002973	0.808766	0.023009
DKKL1	0.053512	-0.30298	0.215157	-0.13527	0.692593	0.02322	0.107989	0.315717	0.164367	-0.40225	0.322645	-0.32863	0.862485	0.002792	0.984677	0.012878
DKK4	-0.024	-0.06406	0.145297	-0.27044	0.859331	0.63904	0.280854	0.041892	-0.1777	-0.20616	-0.13142	-0.37863	0.118711	0.084633	0.194759	0.004734
DKK3	0.227586	0.080939	0.020255	0.147455	0.094709	0.560688	0.883307	0.282679	0.155771	0.173543	-0.05127	0.219558	0.849372	0.875629	0.369009	0.928688
DKK2	-0.09484	-0.06133	0.034494	-0.11471	0.482848	0.653392	0.79893	0.395493	0.026849	-0.30829	0.192635	-0.24764	0.570294	0.018558	0.897562	0.048527
INPP5J	0.099576	-0.30027	0.272372	-0.07342	0.461145	0.024546	0.04039	0.587319	0.238871	-0.37455	0.269292	-0.24639	0.945063	0.005166	0.96318	0.049406
AFF4	-0.00653	0.326078	-0.25823	0.089462	0.961538	0.014185	0.052445	0.508106	0.166625	0.312795	-0.10226	0.139435	0.865802	0.98285	0.251927	0.822308
SMC1B	0.11145	-0.15321	0.223105	-0.35797	0.413497	0.264103	0.098369	0.006754	0.095306	-0.26118	0.081994	-0.31399	0.735666	0.039783	0.703834	0.016792
CYTH4	-0.13128	-0.4235	0.132163	0.477161	0.330353	0.001145	0.327081	0.000175	-0.25078	-0.25874	0.064587	0.017759	0.048298	0.043061	0.661486	0.546091
HSPB7	0.283221	-0.09841	0.310792	0.122004	0.032775	0.470566	0.01862	0.36595	0.366695	-0.2987	0.255086	-0.18538	0.993905	0.021877	0.954593	0.108711
INVS	0.083877	-0.02176	-0.07663	-0.01999	0.535045	0.87351	0.571022	0.882668	0.132443	0.116398	0.109841	0.132468	0.809873	0.779453	0.763708	0.809918
SNX5	-0.03705	0.27244	-0.31905	0.207778	0.784387	0.042217	0.015563	0.120923	0.069063	0.371406	-0.26924	0.282723	0.675827	0.994478	0.03685	0.971532
CPNE7	-0.14693	-0.05004	0.151042	-0.24472	0.275418	0.714197	0.262064	0.066551	-0.12276	-0.2873	0.060638	-0.25925	0.208183	0.026434	0.653833	0.040948
KCNH5	0.01348	-0.13558	0.018873	-0.27753	0.921453	0.323649	0.890195	0.038367	-0.05673	-0.27506	0.084724	-0.23965	0.354034	0.032149	0.709988	0.054343
TJP3	-0.18276	-0.16888	-0.03052	-0.19247	0.177593	0.217735	0.823295	0.155268	-0.43022	0.130931	-0.17477	-0.08413	0.001421	0.807116	0.125427	0.289145
MORC1	0.082281	-0.18192	0.150804	-0.22956	0.54287	0.179627	0.262824	0.085843	-0.01654	-0.33991	0.036108	-0.3279	0.456551	0.01041	0.593083	0.013053

CIDEB	-0.24843	0.206013	-0.30341	-0.13363	0.062405	0.127689	0.021772	0.321688	-0.40272	0.199269	-0.27582	0.101282	0.003047	0.905296	0.034976	0.746016
KIAA1274	0.136043	-0.29856	0.212521	0.140256	0.31295	0.025411	0.112481	0.29806	0.187104	-0.23044	0.172848	-0.07063	0.893454	0.061688	0.871904	0.320448
FILIP1	0.018943	-0.22561	0.067609	-0.26956	0.888773	0.094547	0.617288	0.042589	-0.07516	-0.38711	0.182818	-0.2178	0.309792	0.003933	0.885324	0.072968
FAM184B	-0.04757	-0.0821	0.108195	-0.09636	0.727737	0.551228	0.427351	0.479872	0.124423	-0.38797	0.146577	-0.26867	0.794991	0.003859	0.831674	0.035507
DENND2A	0.318234	-0.20278	0.260129	0.170377	0.015845	0.133903	0.050677	0.205118	0.248239	-0.3592	0.324033	-0.12681	0.951889	0.007111	0.985053	0.200509
STK36	-0.17594	-0.13657	-0.05172	-0.21438	0.194611	0.320095	0.705008	0.112607	-0.27226	-0.18004	-0.08035	-0.16177	0.033587	0.1156	0.29989	0.141393
CPAMD8	-0.05053	-0.2047	0.216	-0.22864	0.711501	0.133829	0.109848	0.090086	0.179128	-0.29932	0.178989	-0.35881	0.880475	0.022889	0.877488	0.007751
INTU	-0.06239	-0.07919	0.024311	-0.29155	0.644778	0.561819	0.85754	0.027778	-0.14395	-0.30674	-0.00166	-0.26953	0.169937	0.019067	0.495671	0.035041
ZNF777	-0.02456	-0.00825	0.110296	-0.05851	0.856086	0.951895	0.414064	0.665501	-0.10892	0.133811	-0.00796	0.028062	0.235587	0.812344	0.479313	0.573433
BRPF3	0.012322	0.077136	0.124725	-0.10982	0.927515	0.572036	0.355275	0.416106	0.061787	0.103162	-0.00262	-0.10304	0.656601	0.749959	0.49327	0.250301
RTDR1	-0.16762	-0.24968	0.006286	-0.24205	0.212657	0.063478	0.962988	0.069669	-0.32838	-0.22301	-0.04191	-0.16163	0.012937	0.068145	0.392296	0.141604
NDOR1	0.033475	-0.21964	0.117469	-0.05269	0.804754	0.103844	0.384168	0.697105	0.085344	-0.0817	0.128679	-0.00434	0.713599	0.294684	0.800225	0.488584
CHIA	-0.0704	-0.04481	0.166039	-0.22409	0.602779	0.742956	0.217059	0.093781	-0.00126	-0.45362	0.076217	-0.38214	0.496694	0.000772	0.690622	0.004387
INGX	-0.10018	-0.18613	0.162158	-0.06822	0.458428	0.169608	0.22815	0.614125	0.100308	-0.31233	0.062886	-0.23512	0.746423	0.017293	0.659239	0.057872
EIF2C2	-0.04287	-0.02615	-0.05235	0.102559	0.751543	0.848309	0.698951	0.447758	0.191751	0.072019	-0.18191	-0.05681	0.89913	0.682832	0.115858	0.353837
NAAA	-0.17286	0.018089	-0.04771	-0.01673	0.202669	0.894726	0.726933	0.902603	-0.12892	-0.12425	-0.0704	-0.17989	0.19658	0.205345	0.322913	0.115798
SALL3	-0.01536	-0.08121	0.210322	-0.15131	0.909707	0.551836	0.116336	0.261215	-0.02839	-0.36548	0.099763	-0.39925	0.426578	0.006778	0.740314	0.003295
GLS2	0.122368	-0.0331	-0.06056	-0.12491	0.368946	0.81039	0.657514	0.359	-0.28466	0.420833	-0.33227	0.36967	0.027592	0.998206	0.012875	0.994272
PRELID1	-0.05512	0.153813	-0.24146	0.223712	0.683813	0.257709	0.070382	0.094358	-0.14523	0.426326	-0.32961	0.343556	0.167766	0.998433	0.013515	0.990297
GLA	-0.19207	0.01742	-0.38446	-0.0268	0.15233	0.898604	0.00315	0.843156	-0.38362	0.422645	-0.33239	0.278972	0.004247	0.998284	0.012846	0.969774
SLC39A1	0.063466	-0.04284	-0.0025	0.181657	0.642151	0.756113	0.985418	0.180272	0.00117	0.377733	-0.23035	0.348551	0.503079	0.995174	0.063965	0.991199
TUBG2	0.20718	0.033154	0.116512	0.037423	0.125498	0.810102	0.392469	0.784218	0.252269	0.134265	0.049206	0.157641	0.954616	0.81316	0.62589	0.85229
IL1F8	0.138306	-0.26399	0.195621	-0.23018	0.304895	0.049296	0.144754	0.084978	0.060378	-0.23143	0.050421	-0.14872	0.654906	0.060865	0.628894	0.161965
IL1F7	-0.06195	-0.16958	0.193303	-0.1341	0.64708	0.211506	0.149669	0.319971	-0.00843	-0.19966	0.189018	-0.10834	0.47784	0.0917	0.893164	0.236774
IL1F6	-0.08691	0.120565	-0.06507	-0.25296	0.520326	0.376096	0.630585	0.057635	-0.12296	-0.15318	-0.0771	-0.24235	0.210492	0.157553	0.309438	0.054359
SIGLEC9	-0.15138	-0.35652	0.125552	-0.05799	0.260976	0.006996	0.352068	0.668304	-0.22004	-0.36304	-0.09842	-0.21035	0.073194	0.007121	0.26252	0.082734
SIGLEC8	-0.01364	-0.34222	0.189801	-0.18807	0.919811	0.009832	0.157329	0.161213	0.113729	-0.52182	0.183405	-0.33393	0.774145	9.99E-05	0.886083	0.011664
VPS4A	0.094194	-0.10341	0.018319	0.011207	0.485836	0.448194	0.892412	0.93406	0.016677	0.20678	-0.15468	0.130719	0.543797	0.916024	0.155164	0.806728
DISC1	-0.12711	-0.25013	0.208918	-0.06931	0.346076	0.062992	0.11885	0.608417	-0.0722	-0.27016	0.126019	-0.19824	0.316743	0.034698	0.795277	0.093299
IL17C	-0.00612	-0.03726	0.175815	-0.23851	0.963936	0.78515	0.190812	0.07398	0.246425	-0.33079	0.205839	-0.35654	0.950622	0.012371	0.912535	0.007504
GPC3	0.290225	-0.18956	0.026513	0.269477	0.028526	0.161734	0.844792	0.042652	0.089282	0.156315	-0.03122	0.277826	0.722424	0.850224	0.419327	0.969219
IL17B	0.030735	-0.05193	0.331046	-0.09441	0.82046	0.703857	0.011892	0.484821	0.289522	-0.35194	0.174588	-0.31833	0.973138	0.008874	0.871494	0.016539
GPR82	-0.17939	-0.02968	-0.06841	0.104796	0.181805	0.828104	0.613112	0.437867	-0.14667	-0.16533	0.077727	0.008888	0.165366	0.1361	0.694099	0.523374
GPR81	0.002546	-0.0807	0.151204	-0.151	0.985005	0.554365	0.261547	0.262205	0.028429	-0.35197	-0.05223	-0.43002	0.574383	0.008225	0.366636	0.001429
OXGR1	0.067399	-0.17798	0.134435	0.22215	0.6249	0.193603	0.327804	0.103079	0.129408	-0.16169	0.072407	-0.14772	0.804318	0.141518	0.681777	0.163614
AMPD3	-0.28694	0.089607	-0.14319	-0.22604	0.030455	0.511336	0.287948	0.090884	-0.35786	0.078424	-0.00756	-0.04718	0.007308	0.69779	0.480343	0.377766
GLB1	-0.09878	0.210751	-0.23328	0.148661	0.464748	0.11897	0.080738	0.269746	-0.26215	0.490895	-0.31336	0.405122	0.039205	0.999734	0.018039	0.997388
GPR78	-0.15042	-0.13826	0.196074	-0.13108	0.264045	0.309545	0.143807	0.331103	0.084855	-0.41591	0.089451	-0.45469	0.712496	0.002022	0.720505	0.00075
GPR77	-0.26573	-0.09113	-0.07034	-0.25456	0.047764	0.508164	0.606444	0.058319	0.087182	-0.5379	0.09506	-0.55159	0.71548	6.93E-05	0.730326	4.29E-05
TUBGCP4	0.09994	0.423785	-0.22071	0.298791	0.4595	0.001135	0.098973	0.023965	0.03245	0.600592	-0.14427	0.316116	0.58476	0.999995	0.172192	0.983831
SERP1	0.183151	-0.0413	0.043665	0.136493	0.172664	0.76247	0.747065	0.311339	0.109879	0.216042	-0.01215	0.193978	0.763784	0.922975	0.468804	0.899162
ITGB1BP3	0.027619	-0.18351	0.274873	-0.23096	0.838402	0.175794	0.038516	0.083898	0.164374	-0.43331	0.275871	-0.34827	0.862496	0.001315	0.966695	0.00885
GNMT	-0.07342	-0.44572	0.265959	-0.28449	0.587303	0.000576	0.04554	0.03197	0.19857	-0.54959	0.091422	-0.48717	0.904501	4.61E-05	0.722473	0.000344
SULT1C4	0.431117	-0.24151	0.30245	-0.03669	0.00091	0.075674	0.023474	0.788324	0.446097	-0.3476	0.225792	-0.16602	0.999056	0.008966	0.932068	0.135078
COQ2	0.008741	0.469088	-0.08883	0.191653	0.949019	0.000303	0.515044	0.157067	0.014215	0.513789	-0.40331	0.260113	0.537351	0.99987	0.003006	0.959578
ARFIP1	-0.09096	0.198603	-0.31595	0.118757	0.500984	0.142281	0.016658	0.378938	-0.23036	0.488752	-0.26053	0.355243	0.061756	0.999716	0.041948	0.992297
ARHGEF16	-0.08154	0.104159	0.033758	-0.00573	0.54654	0.444894	0.803136	0.966274	-0.03327	0.334785	-0.14132	0.180741	0.413121	0.988523	0.177229	0.885326
GPKOW	-0.10478	-0.02166	-0.02986	-0.22219	0.437924	0.874092	0.825512	0.096682	-0.15878	-0.12452	0.176396	-0.14963	0.145946	0.204822	0.876796	0.16048
GPR162	-0.15801	-0.285	0.087348	-0.25766	0.240445	0.033255	0.518222	0.052991	-0.2705	-0.36947	0.021148	-0.21492	0.034517	0.005752	0.554836	0.075732
SIT1	-0.2247	-0.11968	0.055072	0.157107	0.092877	0.379654	0.684093	0.243162	0.064413	-0.26948	0.108016	-0.12649	0.664686	0.035065	0.759991	0.201114

BBS9	-0.05574	-0.06017	-0.01139	-0.14835	0.680456	0.659585	0.933007	0.270763	-0.14817	-0.21421	0.061214	-0.09424	0.162881	0.076428	0.655222	0.266643
TNFRSF21	-0.29963	0.537176	-0.31643	0.119591	0.023555	1.97E-05	0.016484	0.375576	-0.26255	0.767795	-0.17649	0.541801	0.040723	1	0.125892	0.999939
CHMP2A	-0.20242	0.019683	-0.29353	-0.09776	0.131025	0.885514	0.026686	0.469379	-0.33976	0.332299	-0.22834	0.15563	0.010441	0.987973	0.065695	0.84915
SESN1	0.035979	-0.03573	-0.10684	-0.07999	0.790465	0.793743	0.428936	0.554212	0.18537	-0.28652	0.179668	-0.16266	0.89128	0.026775	0.881193	0.14006
AHDC1	0.001819	-0.09043	0.066686	-0.23226	0.989283	0.507465	0.62211	0.082118	0.065047	-0.03757	0.140157	-0.13752	0.666214	0.402101	0.820766	0.181051
RNF115	0.059554	0.239673	-0.10987	0.229879	0.659899	0.075219	0.415891	0.085392	0.127606	0.346073	-0.1185	0.18332	0.800976	0.990761	0.219087	0.88867
NFU1	0.031652	0.121594	-0.17212	-0.01714	0.815191	0.372006	0.200438	0.899295	-0.05654	0.164155	-0.11179	0.097179	0.354484	0.862172	0.232356	0.739722
C2orf30	0.006847	0.283857	-0.10154	0.187313	0.960059	0.035711	0.456473	0.166857	-0.043	0.289751	-0.05386	0.29578	0.388312	0.974604	0.362651	0.977021
MMADHC	0.0552	0.175458	-0.28171	0.198653	0.683397	0.195854	0.033755	0.138505	-0.06725	0.451596	-0.16624	0.365109	0.328488	0.999184	0.137544	0.993701
PDCD4	0.19286	0.183467	-0.23071	0.13247	0.150623	0.175898	0.08424	0.325948	0.052767	0.457551	-0.1231	0.346399	0.636184	0.999306	0.210228	0.99082
KLHL20	0.038282	0.169007	-0.24368	0.259187	0.777391	0.213063	0.067751	0.05155	0.000579	0.451936	-0.12742	0.329755	0.501524	0.999192	0.202117	0.987388
PCDH17	0.168714	-0.08812	0.270003	0.26789	0.209638	0.518401	0.042234	0.043936	0.013932	-0.25554	0.124237	0.108073	0.536608	0.043262	0.791923	0.762669
CSDC2	-0.03465	-0.12775	0.23581	-0.22113	0.798027	0.348087	0.077416	0.098319	0.154771	-0.34411	0.20841	-0.30424	0.847795	0.009599	0.915256	0.019906
CNTN6	0.202734	-0.24313	0.339901	-0.27573	0.130419	0.070978	0.009685	0.037888	0.199929	-0.48907	0.238204	-0.41029	0.908597	0.000281	0.942456	0.002313
LSM1	-0.17607	0.267884	-0.33442	0.126825	0.190162	0.045924	0.011005	0.347168	-0.14552	0.278323	-0.20439	0.191909	0.167279	0.96946	0.089027	0.89932
LSM3	0.02826	0.123597	-0.28065	0.104999	0.834701	0.364123	0.034461	0.436973	-0.27392	0.51047	-0.33877	0.423844	0.032732	0.999855	0.011413	0.998334
TINAG	-0.00609	-0.30769	0.270199	-0.19382	0.964486	0.0223	0.044009	0.152349	-0.03788	-0.34813	0.131031	-0.2655	0.401308	0.008874	0.804542	0.037267
SULT1B1	-0.10685	-0.31579	-0.09634	-0.2221	0.428868	0.017745	0.475913	0.096811	-0.18172	-0.46061	-0.03294	-0.35765	0.116101	0.000726	0.415948	0.007931
TEKT2	-0.17175	-0.25335	0.059856	-0.26415	0.201448	0.059564	0.658283	0.047088	-0.17882	-0.36819	0.062631	-0.32052	0.117213	0.005908	0.658627	0.014939
SRPX2	-0.14158	0.426636	-0.38831	-0.14335	0.293493	0.001042	0.002838	0.287408	-0.13118	0.612756	-0.1793	0.420344	0.192424	0.999997	0.1193	0.998184
VENTX	-0.00035	-0.21163	0.298717	-0.07717	0.997946	0.117398	0.024001	0.568279	0.05345	-0.45396	0.169856	-0.27568	0.637877	0.000765	0.867681	0.03184
RBMXL2	-0.03436	-0.16706	0.234385	-0.17571	0.799671	0.21846	0.079276	0.191072	0.144599	-0.42588	0.206109	-0.32482	0.831165	0.001584	0.912824	0.013815
RND1	-0.12001	0.007208	0.21561	0.061457	0.373911	0.957953	0.107231	0.64973	0.058586	-0.12921	0.119347	-0.03113	0.650528	0.196054	0.78256	0.418644
GCLC	-0.1381	0.503937	-0.30921	-0.13407	0.305631	7.51E-05	0.01926	0.320089	-0.09822	0.446672	-0.19981	0.203042	0.260461	0.99895	0.09673	0.909503
SPINK4	-0.13816	0.045437	0.093004	-0.41437	0.305416	0.739494	0.49139	0.001353	0.003617	-0.21034	0.184089	-0.18164	0.509516	0.0803	0.886963	0.113498
C10orf28	-0.18609	0.294097	-0.21507	0.142909	0.165759	0.027801	0.108129	0.288923	-0.11555	0.290877	-0.16755	0.221374	0.22223	0.97507	0.135643	0.930366
DIMT1L	-0.0299	0.349104	-0.27971	0.200115	0.825275	0.008363	0.035096	0.135566	-0.09843	0.504793	-0.18788	0.446865	0.257591	0.999827	0.108252	0.999075
SMPDL3B	-0.14666	-0.18276	-0.01088	0.053093	0.280767	0.177586	0.936596	0.697552	0.167828	-0.21271	0.167342	-0.18288	0.867547	0.077911	0.864061	0.111895
DHDH	-0.04478	-0.21235	0.180399	-0.23211	0.740838	0.116133	0.179318	0.082321	0.051115	-0.38912	0.13345	-0.28513	0.632076	0.003762	0.808924	0.027386
PDLIM3	0.314541	-0.20197	0.310527	0.182993	0.018226	0.139211	0.019845	0.177036	0.392807	-0.3419	0.288546	-0.15401	0.996536	0.01002	0.972714	0.15341
TP53TG5	-0.10436	0.007974	0.081113	-0.30534	0.439765	0.953485	0.548633	0.020909	-0.16319	-0.26587	-0.03989	-0.31306	0.139267	0.037061	0.397371	0.01707
CRCP	-0.00803	0.244212	-0.2259	0.183941	0.952744	0.069697	0.091096	0.170789	-0.08615	0.413051	-0.36336	0.316462	0.284592	0.997834	0.007076	0.983931
ADAMDEC:	-0.21636	-0.10803	-0.09427	0.312585	0.109235	0.432433	0.489523	0.019001	-0.02066	-0.11352	-0.01781	0.11111	0.445806	0.226273	0.453766	0.768868
AMPH	0.130771	-0.15316	0.303053	-0.19767	0.332247	0.259774	0.021935	0.140501	0.214137	-0.45657	0.254098	-0.42665	0.9235	0.000713	0.953943	0.001554
GCLM	-0.07401	0.241416	-0.26212	-0.10038	0.58431	0.07306	0.048869	0.457537	-0.09841	0.182559	-0.14694	0.147369	0.260076	0.884989	0.170594	0.83299
ZNF544	-0.20809	-0.21489	-0.17156	-0.21794	0.120357	0.111739	0.201939	0.103397	-0.34255	0.15655	-0.23646	0.00972	0.009894	0.850592	0.058923	0.525559
APEX2	-0.12465	0.359516	-0.19983	0.014719	0.355551	0.006502	0.13613	0.913464	-0.25965	0.639287	-0.31792	0.40988	0.040704	0.999999	0.01666	0.997665
BMP10	0.154661	-0.14508	0.201077	-0.2562	0.250671	0.286054	0.133658	0.054401	-0.06493	-0.27287	0.156181	-0.23835	0.334068	0.033269	0.847205	0.055335
RBMS3	0.228214	-0.12161	0.010286	0.359173	0.087745	0.37193	0.939467	0.006073	0.319911	0.004858	0.117195	0.210565	0.984896	0.51278	0.778367	0.919933
MOCS3	-0.14313	0.297444	-0.23848	-0.049	0.288155	0.025993	0.074023	0.717399	0.118782	0.128518	0.027068	0.149881	0.781464	0.799928	0.569228	0.837123
PGDS	0.083223	-0.13597	0.054868	0.355429	0.538244	0.317705	0.685205	0.006664	-0.30523	0.021058	-0.07895	0.448527	0.01957	0.555237	0.303086	0.999115
ZNF330	0.132784	0.076122	-0.19825	0.23651	0.324792	0.577115	0.139321	0.076515	0.048145	0.29327	-0.11211	0.20325	0.624657	0.976038	0.231717	0.912253
GLDC	0.121932	-0.10331	0.277726	0.026914	0.366236	0.448626	0.036468	0.842474	0.00778	-0.09654	0.311148	-0.20837	0.520463	0.26165	0.981259	0.08232
RAB30	0.228266	0.04516	0.04413	0.484228	0.087671	0.741029	0.744463	0.000135	0.203476	0.436138	-0.00091	0.526022	0.912498	0.998777	0.497639	0.999913
FRAG1	-0.32709	0.300969	-0.41883	-0.1002	0.013871	0.02556	0.001315	0.462474	-0.36538	0.646051	-0.46586	0.265237	0.006264	0.999999	0.00063	0.962583
RBMX	-0.06712	-0.07449	0.071816	-0.03311	0.62308	0.585321	0.598901	0.808602	0.081639	-0.16431	-0.00075	-0.11688	0.705184	0.137594	0.49805	0.21959
BHLHE22	0.138771	-0.36541	0.349071	-0.16101	0.307732	0.006083	0.008369	0.235831	0.162188	-0.48209	0.228944	-0.32001	0.859236	0.000346	0.934829	0.015076
TOX3	0.001864	-0.02106	0.313946	-0.03013	0.989023	0.87755	0.017397	0.823914	0.072335	-0.14181	0.224102	-0.18734	0.683577	0.173581	0.930552	0.106248
TNRC6A	0.201934	-0.00235	0.079241	0.091993	0.131975	0.986271	0.557924	0.49613	0.419229	-0.1466	0.121504	-0.09979	0.998134	0.165476	0.786719	0.254687
PCDH11X	0.080041	-0.10778	0.16053	-0.25185	0.557603	0.433472	0.237251	0.061139	0.148673	-0.35389	0.053503	-0.42213	0.837956	0.007916	0.636479	0.001738

ANGPTL3	0.068477	-0.19826	0.125376	-0.32497	0.612765	0.142987	0.35275	0.013647	-0.14516	-0.2474	0.135905	-0.20943	0.167886	0.048691	0.813311	0.081225
GLE1	-0.04989	0.264503	-0.05576	-0.07153	0.714974	0.051002	0.683148	0.60038	-0.36553	0.380512	-0.35946	0.213587	0.006245	0.995455	0.007651	0.922959
RPS6KA6	-0.01307	0.076233	-0.11365	-0.19415	0.923134	0.576556	0.399931	0.147868	-0.13401	-0.14105	-0.01406	-0.10827	0.187304	0.174895	0.463469	0.236925
ZNF638	0.049654	0.162003	-0.12621	0.121063	0.713767	0.232917	0.349518	0.369686	0.31437	0.144399	0.053857	0.152048	0.983321	0.830828	0.637345	0.84345
GOLIM4	0.392531	-0.03892	0.025576	0.153949	0.002527	0.775795	0.85021	0.252885	0.506998	-0.02584	0.363607	0.149274	0.999838	0.432332	0.99296	0.838944
P2RY10	-0.16872	-0.04006	-0.2004	0.462141	0.213848	0.771506	0.138633	0.000336	-0.17231	-0.06213	-0.04223	-0.1107	0.128854	0.342587	0.39275	0.234544
EIF3K	0.044819	0.175278	-0.23121	0.046489	0.740612	0.196321	0.083548	0.731301	-0.22958	0.579354	-0.47802	0.316995	0.062413	0.999988	0.000448	0.984083
HTATSF1	0.254936	-0.08126	-0.12875	0.065099	0.055641	0.551603	0.339854	0.630439	-0.00419	0.245293	0.005941	0.201426	0.488983	0.949817	0.515449	0.910258
PRPF19	-0.03288	0.098837	-0.19167	0.155544	0.808184	0.468622	0.153203	0.247942	-0.21645	0.514927	-0.35029	0.358252	0.07425	0.999875	0.009163	0.992751
GLG1	0.260814	0.084783	-0.09686	0.208322	0.05005	0.534425	0.473534	0.11993	0.052815	0.32887	-0.05135	0.280111	0.636304	0.987179	0.368809	0.970316
UTP20	0.018039	0.27042	-0.21364	0.426838	0.894048	0.043829	0.110564	0.000929	-0.07516	0.577449	-0.13406	0.544891	0.309803	0.999987	0.189977	0.999955
RRP7A	-0.00216	-0.21684	0.127764	-0.19481	0.987281	0.108445	0.343581	0.146462	-0.10749	-0.00827	-0.01028	-0.07991	0.238531	0.478246	0.473284	0.298774
RABGEF1	0.13017	0.230885	-0.31963	-0.01715	0.334493	0.086891	0.015365	0.899216	0.101991	0.270918	-0.10817	0.113124	0.749991	0.965705	0.239687	0.772931
POLL	-0.13676	-0.13863	0.063472	-0.10204	0.310376	0.308238	0.639024	0.450063	-0.13012	-0.01438	-0.13076	-0.06655	0.194372	0.462215	0.195948	0.330177
PCSK1N	-0.04962	-0.10946	0.243661	-0.17456	0.713949	0.42192	0.067778	0.194051	0.085986	-0.589	0.204058	-0.43169	0.712813	1.04E-05	0.908015	0.001534
KCNMB4	0.084094	-0.04206	0.160389	0.281321	0.533987	0.75826	0.233333	0.034015	0.299994	-0.35517	0.123755	-0.24757	0.978596	0.007714	0.79101	0.048577
TMEM97	0.089553	0.053079	-0.15893	-0.10922	0.507671	0.697629	0.237678	0.418681	-0.04098	0.28803	-0.07113	0.235061	0.393425	0.973877	0.321214	0.942084
STK39	0.213924	0.021527	0.021332	-0.10353	0.110073	0.874865	0.874846	0.443464	0.482393	-0.11645	0.121703	-0.19344	0.999657	0.220446	0.787101	0.098863
TOR1B	0.135143	0.162293	0.035683	0.249247	0.316192	0.232071	0.792151	0.061524	-0.02903	0.587911	-0.0947	0.428824	0.424072	0.999991	0.268021	0.998528
MCAT	-0.22164	-0.08463	-0.09116	-0.28462	0.097537	0.535158	0.500077	0.03189	-0.43357	-0.00384	-0.14541	0.050673	0.001306	0.48989	0.170273	0.630974
GLI1	0.167292	-0.01883	0.266819	0.029445	0.213561	0.890458	0.04482	0.827878	0.103407	-0.2629	0.262223	-0.06177	0.752973	0.038765	0.959082	0.341711
APOBEC3C	0.084689	0.006114	-0.15915	0.160542	0.531087	0.964327	0.237009	0.232882	-0.26892	0.446834	-0.10733	0.46068	0.035371	0.999074	0.241422	0.999363
PPPDE2	-0.03829	0.157019	0.055781	0.093231	0.777335	0.247802	0.680246	0.490326	0.047846	0.235395	0.060481	0.23045	0.623907	0.94235	0.653455	0.938317
SGSM3	-0.10615	-0.0575	0.114857	-0.05371	0.431917	0.673821	0.394902	0.691514	-0.17089	0.110943	-0.13383	-0.08592	0.128084	0.76853	0.1904	0.285112
GLI2	-0.00549	0.216896	0.09613	-0.2745	0.967677	0.108347	0.476874	0.038792	0.205722	0.064308	0.061945	-0.09016	0.914906	0.664434	0.656979	0.275623
GLI3	0.174738	0.171712	-0.07564	0.042514	0.197725	0.210011	0.579548	0.755715	0.189712	0.352604	0.078949	0.274976	0.896667	0.991879	0.6969	0.967806
GLI4	0.038003	-0.16884	0.335959	-0.1594	0.778968	0.213509	0.01062	0.236269	0.160831	-0.40588	0.245928	-0.29166	0.857186	0.002566	0.948283	0.02461
GLO1	-0.0038	0.221374	-0.32853	0.098613	0.977599	0.101075	0.012593	0.465513	-0.1968	0.355531	-0.17454	0.315026	0.094947	0.992341	0.125746	0.983514
BIN1	-0.01424	-0.15092	0.299134	0.109286	0.916289	0.266865	0.023796	0.418376	0.185149	-0.33404	0.158605	-0.25924	0.891001	0.011639	0.850974	0.040953
GLP1R	0.059323	-0.054	0.189471	-0.14249	0.661139	0.692658	0.158066	0.290339	0.086686	-0.40518	-0.03066	-0.3309	0.716622	0.002608	0.420766	0.012346
GLRA1	0.069499	-0.0816	0.309638	-0.23756	0.610774	0.553681	0.02022	0.077906	-0.01904	-0.32425	0.135798	-0.18928	0.450026	0.01396	0.813121	0.103864
GLRA2	-0.01673	-0.07124	0.013306	-0.21471	0.90171	0.60182	0.921747	0.108743	-0.05519	-0.14649	0.07826	-0.22589	0.357831	0.165669	0.695322	0.065588
HTRA2	-0.06972	-0.07077	-0.09019	0.241331	0.606313	0.604251	0.504636	0.070532	-0.00286	0.105105	-0.13255	0.011975	0.492476	0.756525	0.192703	0.531479
GLRB	-0.01783	-0.24644	0.022853	-0.21436	0.895297	0.067114	0.866005	0.10934	-0.05965	-0.4107	0.093834	-0.23338	0.346863	0.002291	0.730094	0.059268
MAT2B	-0.0405	0.107217	-0.23193	0.197983	0.764878	0.431567	0.082564	0.13987	-0.18346	0.291586	-0.02106	0.28487	0.111146	0.97536	0.445391	0.9725
TOR2A	-0.09598	-0.04095	0.182336	-0.17807	0.47755	0.764415	0.174617	0.185084	-0.026	-0.17865	0.060632	-0.24438	0.431908	0.117429	0.653819	0.050842
POLM	-0.01115	-0.01975	0.032593	0.007838	0.934388	0.885136	0.8098	0.953854	-0.05274	0.146028	-0.09594	0.017071	0.363894	0.833567	0.265362	0.544828
EML4	-0.06347	0.369103	-0.31813	0.362703	0.639037	0.00512	0.015879	0.005558	-0.06578	0.681686	-0.15737	0.501238	0.332025	1	0.150934	0.999806
CECR6	0.040905	-0.14576	0.273236	-0.08396	0.762566	0.283759	0.039735	0.53462	0.140116	-0.38612	0.181758	-0.3751	0.820696	0.0044	0.88116	0.005561
GLS	0.268833	-0.09582	-0.00913	0.303938	0.043169	0.482364	0.946244	0.021533	0.56167	-0.09323	0.135306	0.037721	0.999976	0.26887	0.812247	0.598275
CECR5	-0.15086	0.102128	-0.04214	0.072849	0.262638	0.453868	0.755602	0.590212	-0.33385	0.368784	-0.34236	0.215557	0.011681	0.994165	0.010666	0.924885
CECR2	0.018982	-0.09692	0.148929	-0.27687	0.88854	0.477354	0.268874	0.037076	0.248893	-0.49085	0.2598	-0.46824	0.95234	0.000267	0.957599	0.000516
PCLO	0.044831	0.102646	0.177993	-0.30444	0.740542	0.451569	0.185286	0.021309	-0.1232	0.090236	-0.09109	-0.01762	0.207336	0.724542	0.275891	0.453748
GLRX	-0.24958	0.136633	-0.13661	0.363717	0.061163	0.315319	0.310908	0.005417	-0.12604	0.224455	-0.1464	0.2416	0.201959	0.933146	0.168614	0.947123
GLUD1	-0.03834	0.477081	-0.34574	0.201549	0.777034	0.000201	0.008433	0.13273	0.178535	0.504551	-0.15713	0.365059	0.882411	0.999825	0.151315	0.993694
GLUD2	-0.02283	0.096187	0.01198	-0.13732	0.866145	0.480684	0.929522	0.308387	-0.07306	0.081737	0.107017	-0.0328	0.314713	0.705407	0.757943	0.414349
AMT	-0.03103	-0.04509	0.034106	0.003174	0.818779	0.74144	0.801148	0.981307	-0.0439	-0.05915	-0.03217	-0.19109	0.386019	0.348081	0.416922	0.101667
GLUL	0.093508	0.287064	-0.24427	0.101852	0.493046	0.031944	0.069627	0.455096	-0.09019	0.51091	-0.21247	0.212777	0.275565	0.999857	0.080575	0.922156
GM2A	-0.08724	0.50445	-0.34852	0.232639	0.518727	7.36E-05	0.007887	0.081604	-0.1855	0.764619	-0.3453	0.543498	0.108555	1	0.010087	0.999953
GMDS	-0.07828	0.23211	0.044138	0.08002	0.56274	0.085183	0.744415	0.55405	-0.077	0.528233	-0.28156	0.310125	0.305516	0.999919	0.030484	0.982026

GMFB	0.049425	0.152323	-0.18328	0.228063	0.715031	0.262404	0.172367	0.08796	0.018936	0.208894	-0.11345	0.206369	0.549702	0.918224	0.229024	0.915591
GML	-0.11589	-0.26669	0.050461	-0.15027	0.390656	0.046936	0.709319	0.26454	-0.0207	-0.42919	0.052856	-0.27262	0.445701	0.001459	0.634891	0.0334
GMPR	0.209176	-0.56751	0.314904	-0.21463	0.118385	5.09E-06	0.01704	0.108878	0.268131	-0.6515	0.168116	-0.59758	0.96253	6.27E-07	0.862328	7.32E-06
GNA11	-0.06294	-0.119	-0.00245	-0.03978	0.641839	0.382384	0.985561	0.768896	-0.18763	0.137627	-0.13885	0.042836	0.105893	0.81914	0.181506	0.611283
GNA12	0.047568	-0.05277	0.052317	0.390499	0.725307	0.699321	0.699129	0.002672	0.241004	0.069593	-0.05392	0.108285	0.946678	0.677089	0.36251	0.763105
GNA15	-0.2803	0.236331	-0.29358	0.027784	0.0347	0.079502	0.026658	0.837451	-0.35509	0.626449	-0.3077	0.359253	0.007727	0.999998	0.019882	0.992897
GNAI1	0.019279	0.346986	-0.35021	-0.00372	0.886812	0.008793	0.007572	0.978102	0.008065	0.448704	-0.21371	0.245943	0.521213	0.999119	0.079331	0.95028
GNAI2	0.111291	-0.13333	-0.05477	0.325539	0.40984	0.327258	0.685763	0.013472	-0.10391	0.139428	0.05771	0.260324	0.245965	0.822296	0.646745	0.959706
GNAI3	0.019601	0.324244	-0.34241	0.205305	0.88493	0.01477	0.009128	0.12551	-0.06359	0.558201	-0.19562	0.39337	0.337302	0.999972	0.098904	0.99658
GNAL	0.065205	0.286593	-0.18991	-0.17036	0.633042	0.032239	0.160953	0.20938	-0.02103	0.327319	-0.09944	0.210033	0.444824	0.986806	0.257878	0.919392
GNAO1	0.102356	-0.2364	0.26605	0.101641	0.452857	0.079411	0.047489	0.456034	0.117242	-0.33647	0.318817	-0.02159	0.781117	0.011116	0.983601	0.443381
GNAQ	-0.01465	0.181622	-0.13474	0.111723	0.91389	0.180359	0.317643	0.408014	-0.08023	0.356744	-0.02289	0.242622	0.29805	0.992526	0.440672	0.94788
GNAS	0.295274	-0.25755	0.218421	0.015927	0.027153	0.057652	0.105826	0.907254	0.246368	-0.09133	0.26898	-0.1226	0.950581	0.273032	0.963006	0.208486
GNAT1	-0.01576	-0.06965	0.247791	-0.20572	0.907359	0.609999	0.063108	0.124726	0.021133	-0.38527	0.177828	-0.39703	0.555434	0.004096	0.878734	0.003148
GNAT2	0.031814	-0.03077	0.17394	-0.19952	0.814267	0.821895	0.19566	0.136757	0.120706	-0.26844	0.064	-0.29282	0.787873	0.035631	0.661907	0.024141
GNAZ	0.160515	-0.23209	0.379172	-0.2161	0.232962	0.085215	0.003629	0.106422	0.166047	-0.66332	0.261981	-0.6059	0.864958	2.53E-07	0.958937	4.06E-06
GNB1	0.081198	0.177598	-0.18171	0.301745	0.54821	0.190371	0.176115	0.022542	-0.01939	0.4812	-0.13367	0.305147	0.449126	0.999645	0.19068	0.980402
GNB2	-0.01326	-0.02777	0.030095	-0.08146	0.922758	0.840512	0.825731	0.550637	-0.07158	0.174642	0.03522	-0.07531	0.320163	0.874394	0.589775	0.311478
GNB3	0.116964	-0.29966	0.28213	-0.07093	0.386231	0.024853	0.033483	0.60009	0.300341	-0.42271	0.203095	-0.27874	0.978722	0.001713	0.909561	0.030336
GNG3	-0.18078	-0.04267	0.148364	-0.16532	0.182422	0.75706	0.275155	0.223364	-0.02129	-0.35929	0.015983	-0.39743	0.444149	0.007098	0.541497	0.003119
GNG4	0.096489	0.147206	0.105245	-0.07622	0.475222	0.278961	0.435892	0.573073	-0.01846	0.149782	0.024499	0.05814	0.451554	0.839774	0.563458	0.649436
GNG5	-0.01315	0.198545	-0.07445	-0.01936	0.922684	0.1424	0.582025	0.886312	-0.22743	0.293669	-0.07904	0.126873	0.064253	0.976197	0.302887	0.799606
GNG7	0.114261	-0.30799	0.292148	0.095094	0.397378	0.020931	0.027443	0.481658	0.245969	-0.2183	0.225797	-0.13045	0.950298	0.072495	0.932073	0.193769
GNG10	0.037668	0.143148	0.12807	-0.15785	0.782839	0.297127	0.346884	0.245264	0.019424	-0.18347	-0.058	-0.19654	0.550975	0.111131	0.35254	0.095247
GNG11	0.215074	-0.29761	0.120705	0.275057	0.108128	0.025906	0.371112	0.038382	0.259118	-0.37173	0.272293	0.011126	0.958974	0.005484	0.964818	0.529249
GNGT1	-0.07157	-0.10246	-0.11506	-0.22326	0.600146	0.456632	0.398437	0.09813	-0.00391	-0.21195	0.068521	-0.21526	0.48984	0.081095	0.670737	0.077788
GNGT2	-0.04044	-0.1992	0.148831	0.278695	0.765186	0.141069	0.269192	0.035793	0.175727	-0.27543	0.168504	0.100735	0.878628	0.031965	0.865742	0.747331
GNL1	0.120669	-0.0123	0.062319	-0.16205	0.371259	0.928318	0.645143	0.228473	-0.14097	0.061573	-0.12815	-0.0552	0.17503	0.657814	0.20075	0.357796
GNRH1	0.151282	-0.13252	0.221196	-0.00853	0.261299	0.330229	0.09822	0.949775	0.281099	-0.20838	0.252902	-0.39129	0.970781	0.082306	0.953146	0.003584
GNRH2	-0.01605	-0.13923	0.222135	-0.26558	0.905668	0.306115	0.096764	0.045864	0.170532	-0.34547	0.325108	-0.35384	0.871414	0.009348	0.985338	0.007924
GNRHR	-0.08199	-0.18767	0.050694	-0.16849	0.544314	0.166033	0.708038	0.210241	0.044074	-0.16856	-0.02833	-0.096	0.613127	0.134182	0.427575	0.265233
GNS	-0.02565	0.092999	-0.2103	0.191844	0.849812	0.495413	0.116379	0.152827	-0.23636	0.283529	-0.13926	0.343861	0.056884	0.971898	0.180785	0.990354
ABO	-0.20306	0.255079	-0.03699	-0.28621	0.129787	0.057788	0.784704	0.030899	-0.08846	0.286388	-0.05896	0.08978	0.281681	0.971756	0.351909	0.721231
AMY2B	-0.04621	0.0008	-0.10002	0.092118	0.732877	0.995332	0.459146	0.495543	0.161144	-0.06004	0.05454	-0.1022	0.857659	0.345917	0.639019	0.249559
GOLGA1	-0.08368	0.301811	-0.11254	-0.11296	0.535997	0.023784	0.404565	0.402797	-0.14008	0.369074	0.111389	0.072298	0.176569	0.9942	0.766835	0.683489
GOLGA2	0.032778	-0.0267	0.048917	-0.25533	0.810472	0.846564	0.720329	0.057539	-0.14171	-0.07695	0.12749	-0.10835	0.173764	0.30563	0.798021	0.236755
GOLGA3	0.046658	0.068786	0.145934	0.035158	0.730362	0.614446	0.278728	0.795141	0.098116	0.28348	-0.13772	0.081001	0.741737	0.971876	0.183483	0.703722
GOLGA4	0.091729	0.217417	-0.00251	0.050956	0.497374	0.107481	0.985208	0.706597	0.201804	0.283249	-0.03557	0.195394	0.910675	0.971771	0.408274	0.903429
GOLGB1	0.088281	0.160988	-0.0928	-0.0302	0.513747	0.235897	0.492334	0.823528	0.149087	0.213838	0.096642	0.116119	0.838637	0.923206	0.736153	0.778902
GOT1	0.265364	0.165923	0.035508	0.172004	0.048086	0.226022	0.795015	0.204941	-0.07009	0.736254	-0.35198	0.411247	0.321737	1	0.008866	0.997739
GOT2	0.01266	0.252431	-0.09866	0.040883	0.926214	0.062983	0.469435	0.764815	-0.0935	0.579855	-0.22601	0.34281	0.268271	0.999988	0.067734	0.990156
C11orf31	-0.33471	0.09957	-0.00186	-0.12598	0.010932	0.465314	0.989055	0.350419	-0.48371	0.257809	-0.20553	0.145061	0.00033	0.958167	0.087799	0.831944
C14orf19	-0.07282	0.061291	-0.22989	-0.08863	0.590341	0.653621	0.085382	0.512082	0.244479	-0.0825	-0.27433	-0.19699	0.949233	0.292855	0.034104	0.094734
SSX6	-0.21912	0.136273	-0.07471	-0.27272	0.101492	0.316608	0.58072	0.040124	0.075554	-0.26647	-0.04652	-0.38447	0.691127	0.036721	0.380774	0.004169
SSX7	-0.0654	-0.14849	0.179289	-0.18018	0.628868	0.274733	0.182054	0.179861	0.077745	-0.40327	0.110287	-0.19204	0.69622	0.002727	0.764611	0.100527
SSX8	0.135839	-0.18208	0.28571	-0.27979	0.318167	0.183357	0.032798	0.036758	0.092129	-0.28569	0.146616	-0.26608	0.728722	0.027136	0.83174	0.036937
SSX9	-0.0069	-0.28437	0.159868	-0.19458	0.959346	0.033662	0.234875	0.146936	0.216772	-0.4058	0.188711	-0.41818	0.926056	0.002571	0.892786	0.001914
WFDC10B	0.039567	0.075082	0.130682	-0.27678	0.770115	0.582342	0.332578	0.037136	0.164575	-0.18143	0.146416	-0.3253	0.862793	0.113769	0.831405	0.013695
SFN	-0.06077	0.423137	-0.13685	0.093805	0.656356	0.001288	0.314535	0.491666	-0.04434	0.70448	-0.29562	0.41623	0.384909	1	0.024329	0.997993
GP1BA	-0.06503	-0.20068	0.132831	-0.26976	0.63078	0.138061	0.324618	0.04243	-0.13123	-0.43529	0.107521	-0.36125	0.195097	0.001402	0.756378	0.007382

GP2	0.035566	-0.14266	0.200138	-0.00782	0.796572	0.298805	0.142909	0.954834	0.240917	-0.3246	0.241868	-0.16201	0.946614	0.01387	0.94528	0.141039
GP5	-0.03845	-0.23557	0.191285	-0.27324	0.776427	0.080505	0.15405	0.039733	0.220927	-0.51289	0.15171	-0.53287	0.927636	0.000158	0.837212	8.21E-05
GP9	-0.01806	-0.09822	0.291497	-0.25059	0.893941	0.47142	0.027806	0.060093	0.148534	-0.36366	0.233589	-0.38766	0.837727	0.006491	0.938744	0.003885
GPC1	0.024402	0.256464	-0.08154	-0.10716	0.857012	0.056397	0.546546	0.427547	-0.00233	0.450025	-0.17803	0.218188	0.493882	0.999149	0.120996	0.927402
GPD1	0.195012	-0.29708	0.293873	-0.06877	0.146034	0.026186	0.026502	0.611216	0.163839	-0.37303	0.204583	-0.24681	0.861703	0.005335	0.911183	0.049108
GPD2	0.036629	0.292589	-0.20952	0.125672	0.788688	0.030178	0.121194	0.356059	-0.09217	0.678206	-0.27478	0.474733	0.271182	1	0.033866	0.999571
GPI	-0.00881	0.268193	-0.10683	0.10082	0.948635	0.047735	0.433249	0.459703	-0.19307	0.654485	-0.37555	0.414094	0.099299	1	0.005508	0.997888
GPLD1	-0.02105	0.085511	-0.04556	0.041433	0.876469	0.530906	0.736454	0.759592	-0.08642	-0.1338	0.02449	-0.10304	0.286209	0.190449	0.562692	0.250299
GPM6A	0.173665	-0.16909	0.209063	0.03836	0.200533	0.217168	0.122022	0.778949	0.370286	-0.26651	0.383153	-0.14892	0.993856	0.03839	0.994874	0.164457
SLCO4A1	0.10858	-0.14122	0.253601	0.087306	0.42141	0.299198	0.056979	0.518424	0.278018	-0.40574	0.149251	-0.24621	0.969313	0.002574	0.836093	0.049529
SLCO3A1	0.08058	0.101088	-0.20698	0.128411	0.551268	0.458504	0.122389	0.34112	-0.14424	0.504608	-0.1757	0.39933	0.169439	0.999826	0.12415	0.997013
SLCO1B3	-0.35397	-0.14742	0.04886	0.257596	0.007443	0.282793	0.720643	0.055279	0.056542	-0.03036	0.125091	-0.18453	0.645511	0.420623	0.793534	0.10979
GPM6B	0.144701	-0.04639	-0.11016	0.027184	0.282855	0.734235	0.414642	0.840914	0.177323	-0.30268	0.100533	-0.23353	0.880788	0.020448	0.744438	0.059145
GPR1	0.092414	-0.19892	0.055668	-0.21182	0.494155	0.141636	0.680858	0.113705	0.079041	-0.34037	0.240274	-0.35134	0.699215	0.010319	0.944065	0.008328
CCR10	0.077807	-0.26693	0.200943	-0.11578	0.565095	0.046736	0.133923	0.39109	0.312966	-0.25759	0.174428	-0.19364	0.982902	0.041969	0.874099	0.098629
IL28A	-0.02687	-0.00608	0.308176	-0.09839	0.842736	0.964515	0.01969	0.466509	0.087609	-0.06704	0.053518	-0.16776	0.716429	0.330858	0.634962	0.135338
IL28B	0.143443	-0.11315	0.270817	-0.25426	0.291569	0.410784	0.043508	0.058628	0.10107	-0.20632	0.163174	-0.39018	0.745569	0.086949	0.855047	0.004028
IL29	-0.03997	-0.23713	0.204632	-0.18943	0.767846	0.078464	0.126781	0.158165	0.128156	-0.39402	0.208388	-0.31042	0.802	0.00337	0.915234	0.017881
AQP11	0.173065	-0.27852	0.280962	-0.28629	0.206385	0.039489	0.037721	0.034091	-0.06529	-0.33312	0.304026	-0.24414	0.333193	0.011842	0.978843	0.051014
GPR3	0.164637	-0.10821	0.363257	-0.09199	0.221023	0.427281	0.005481	0.496152	0.15669	-0.30574	0.236105	-0.17146	0.850811	0.019399	0.94079	0.127274
OR51B5	-0.03994	-0.1633	-0.05496	-0.29228	0.768004	0.229135	0.684704	0.027372	0.067594	-0.35354	0.150092	-0.25404	0.672324	0.007972	0.837469	0.044223
OR10AG1	0.037406	-0.09311	0.136367	-0.25789	0.782356	0.494875	0.31179	0.052775	0.187228	-0.37613	-0.03957	-0.31516	0.890941	0.005442	0.399348	0.017482
OR5J2	0.081321	-0.18903	0.217148	-0.41948	0.547604	0.162941	0.104689	0.001162	0.097824	-0.27011	0.218682	-0.33786	0.741111	0.034724	0.925521	0.010827
GPR4	0.080437	-0.13312	0.269469	0.170937	0.551981	0.328048	0.042658	0.203608	0.119153	-0.25761	0.198975	-0.03234	0.784859	0.041954	0.904961	0.415521
RAB40AL	0.031991	-0.07243	0.145253	-0.16829	0.813247	0.595747	0.281003	0.210796	0.338373	-0.25115	0.271544	-0.31721	0.989279	0.046129	0.964414	0.015856
WDR51B	-0.16976	0.30707	-0.24493	-0.10032	0.206793	0.021336	0.066309	0.457781	-0.15255	0.203135	-0.12458	0.055096	0.155736	0.912129	0.207424	0.641949
ZNF311	0.02381	0.071153	0.157329	-0.21303	0.861722	0.605702	0.246858	0.114943	-0.15468	0.078379	0.111698	0.055568	0.152354	0.697686	0.767458	0.643112
XCR1	0.07464	-0.17036	0.162176	0.052777	0.581082	0.209381	0.228098	0.696608	-0.04908	-0.26964	0.099505	-0.11224	0.372992	0.034979	0.742261	0.228838
C10orf53	0.046699	-0.1727	0.209754	-0.41672	0.730132	0.203078	0.117348	0.001262	-0.02312	-0.54006	0.26451	-0.32151	0.439381	5.36E-05	0.960445	0.014673
C10orf125	0.030752	-0.24337	0.245262	0.119269	0.820357	0.070701	0.065936	0.376873	0.203698	-0.27493	0.301431	-0.12696	0.912738	0.032218	0.977902	0.200234
JAKMIP3	-0.0062	0.065658	0.288162	-0.20785	0.963519	0.630673	0.029726	0.120794	0.00345	-0.29039	0.060656	-0.28554	0.509077	0.025132	0.653877	0.027201
STK32C	-0.0686	-0.15302	0.2167	-0.20682	0.612121	0.260208	0.105424	0.12269	-0.00398	-0.49303	0.229078	-0.33349	0.489541	0.00025	0.934945	0.011761
BLOC1S2	-0.20042	0.513524	-0.45819	0.061389	0.134966	5.18E-05	0.000338	0.650088	-0.10801	0.564829	-0.33556	0.446169	0.237459	0.999978	0.012115	0.999058
ANG	0.017349	0.048494	0.155701	-0.10609	0.898077	0.722648	0.247458	0.432201	-0.04045	-0.10086	0.084347	-0.20323	0.39477	0.252395	0.709142	0.087767
GPR6	-0.02155	0.037463	0.182991	-0.14151	0.873558	0.78399	0.173047	0.293725	0.038665	-0.33075	0.020427	-0.21694	0.600684	0.012381	0.552976	0.073782
FLJ37201	0.099372	0.198629	0.0162	-0.19533	0.462068	0.142227	0.904794	0.14536	-0.07364	0.07678	-0.09857	0.057609	0.315344	0.691921	0.262206	0.646502
MKX	-0.19777	-0.13369	0.060393	-0.49837	0.140307	0.325952	0.655405	7.97E-05	-0.1008	-0.44209	0.076545	-0.37022	0.25254	0.001049	0.691378	0.005662
OR4C13	0.022542	0.064344	0.04977	-0.16785	0.867812	0.637545	0.71313	0.212027	0.056591	-0.18888	0.010218	-0.06537	0.645632	0.104354	0.526556	0.333015
OR4C12	0.214262	-0.25243	0.105785	-0.28017	0.112807	0.062981	0.437781	0.036493	-0.09887	-0.27664	0.082621	-0.1075	0.256642	0.031361	0.705253	0.238515
NPBWR1	-0.01179	0.201852	-0.01021	-0.08971	0.931298	0.135737	0.940482	0.510861	-0.19363	0.163597	-0.01259	0.127414	0.098634	0.861343	0.467288	0.800616
CSNK2A1P	0.00955	0.199655	-0.15964	-0.03097	0.944311	0.140137	0.239899	0.820762	-0.12808	0.452375	-0.16316	0.308662	0.198143	0.999201	0.142101	0.98156
OR51V1	0.040285	-0.03505	0.107455	-0.32207	0.766063	0.797616	0.426264	0.014559	0.148486	-0.23476	0.206139	-0.38896	0.837649	0.058156	0.912855	0.003775
H19	-0.00606	0.288733	-0.14398	-0.23531	0.964303	0.030917	0.285297	0.078069	-0.00631	0.517161	0.074992	0.373747	0.483388	0.999883	0.687791	0.994745
C11orf85	-0.10624	0.003317	0.020322	-0.39108	0.431551	0.980644	0.880732	0.00263	-0.27761	-0.29508	0.084998	-0.3166	0.032421	0.024543	0.708351	0.017049
SLC25A45	0.033465	-0.17087	0.247657	0.058262	0.804812	0.207998	0.063255	0.66684	0.067701	-0.23899	0.116158	-0.33292	0.67258	0.054847	0.776332	0.011887
C11orf72	0.141644	-0.05149	0.221315	-0.17743	0.302286	0.711547	0.104413	0.194994	0.159064	-0.41426	0.166104	-0.38602	0.851681	0.002334	0.859393	0.00441
BCL9L	0.056399	-0.1905	0.252434	-0.22729	0.676899	0.159627	0.05817	0.089066	0.097337	-0.19635	0.113438	-0.17053	0.740062	0.095465	0.770941	0.128591
FOXR1	-0.19526	-0.01717	0.065616	-0.23637	0.149267	0.900982	0.630892	0.079453	0.157586	-0.41175	0.123204	-0.33852	0.849397	0.002475	0.787204	0.011467
CCDC153	-0.17965	-0.22618	0.01833	-0.32025	0.181151	0.093697	0.89235	0.015159	-0.31518	-0.35119	0.045027	-0.26369	0.01644	0.008354	0.615505	0.038304
OR8D1	0.142464	-0.03782	0.136534	-0.26177	0.290441	0.781985	0.311191	0.049182	0.216294	-0.19661	0.170635	-0.10306	0.92322	0.097748	0.865945	0.250256

CDH20	0.060516	-0.14748	0.117507	-0.28322	0.654751	0.27806	0.384013	0.032776	-0.09258	-0.14453	0.102294	-0.16617	0.272636	0.171765	0.745613	0.137644
OR8D2	0.061583	-0.2142	0.108976	-0.28639	0.649055	0.112909	0.419705	0.03079	0.128755	-0.39289	0.150531	-0.35403	0.800365	0.003795	0.835304	0.008518
OR8B4	-0.18915	-0.17863	0.039981	-0.20951	0.162659	0.191953	0.769858	0.121208	0.206827	-0.34943	0.265418	-0.24734	0.913588	0.009317	0.959183	0.050705
PRR10	0.029347	-0.00755	0.106747	-0.03993	0.828441	0.955945	0.429335	0.76804	-0.11223	-0.14415	0.184325	-0.03142	0.228869	0.169602	0.887266	0.417897
C11orf44	-0.04181	-0.07852	0.143244	-0.28001	0.757445	0.565153	0.287782	0.034892	0.070184	-0.25816	0.19551	-0.32192	0.678491	0.041614	0.900966	0.014566
LOC283174	0.280341	-0.38867	0.200198	0.07196	0.03467	0.003073	0.1354	0.594765	0.319846	-0.36581	0.162822	-0.17587	0.984878	0.006208	0.857388	0.121183
OR9G4	0.153453	-0.04282	0.177674	-0.16205	0.254436	0.754034	0.186088	0.228462	0.015988	-0.16388	-0.02617	-0.06209	0.541993	0.138243	0.432264	0.340925
C11orf64	0.093868	0.006726	0.125651	0.100614	0.491375	0.961132	0.356143	0.460626	0.098811	-0.0739	-0.14311	-0.07986	0.743227	0.312732	0.174159	0.29889
NPBWR2	0.100537	-0.09261	0.17366	-0.19129	0.456811	0.497232	0.196392	0.154031	0.105777	-0.47086	0.264829	-0.31364	0.757923	0.000479	0.960633	0.016896
P4HA3	0.039909	-0.27055	0.288618	-0.09824	0.768186	0.043721	0.029457	0.467226	0.090992	-0.46114	0.195041	-0.2908	0.726214	0.000629	0.900417	0.024961
PGM2L1	-0.24728	0.056348	-0.17288	-0.00896	0.063675	0.67998	0.198446	0.947259	-0.20943	0.099394	-0.01084	0.13214	0.081223	0.744474	0.471825	0.809323
KLHL35	0.026153	-0.16873	0.261026	-0.13652	0.846874	0.213834	0.049857	0.311239	0.097808	-0.2907	0.225834	-0.24284	0.741075	0.025004	0.932106	0.051963
DKFZp434E	-0.02018	-0.06563	0.198385	-0.1453	0.881543	0.630809	0.13905	0.280835	-0.018	-0.38488	0.172019	-0.27728	0.452738	0.004132	0.870744	0.031045
KCTD21	-0.10834	0.123458	-0.04787	0.016216	0.422423	0.364664	0.723608	0.904701	0.171899	0.16107	0.103163	-0.03027	0.873339	0.857548	0.749961	0.420857
EFCAB4A	-0.07826	-0.10513	0.153084	-0.12709	0.562829	0.440635	0.255593	0.346172	0.108916	-0.26605	0.148598	-0.27635	0.764398	0.036958	0.835021	0.031504
TMEM80	-0.37046	0.153497	-0.11298	-0.0057	0.00456	0.258699	0.402742	0.96641	-0.13051	0.129415	-0.13782	-0.00561	0.193662	0.80433	0.183317	0.485248
CCDC88B	-0.20918	-0.18114	0.109306	0.075725	0.118386	0.181538	0.41829	0.575583	-0.00101	-0.33819	0.133435	-0.23346	0.497355	0.010758	0.808896	0.059206
TTC9C	-0.19417	0.288139	-0.24477	0.116765	0.147822	0.031279	0.066497	0.387045	-0.27851	0.571339	-0.38869	0.356761	0.03045	0.999983	0.004161	0.992529
SLC22A24	0.079069	-0.09953	0.104243	-0.16808	0.562414	0.469713	0.444525	0.215624	0.164062	-0.07622	0.084925	-0.13334	0.862034	0.307311	0.710438	0.18851
RCOR2	0.037661	-0.1794	0.236201	-0.2278	0.780908	0.185842	0.076912	0.088332	0.142198	-0.40987	0.22183	-0.36903	0.827081	0.002336	0.928475	0.005805
HARBI1	-0.27727	0.008691	-0.14245	0.116249	0.036785	0.94931	0.29049	0.38916	-0.45423	0.225173	-0.18622	0.046791	0.00076	0.933782	0.11033	0.621258
IGSF22	0.055431	-0.19261	0.195129	-0.34252	0.682146	0.154965	0.145787	0.009104	0.155733	-0.40342	0.266556	-0.36954	0.849311	0.002718	0.961634	0.005743
LOC100133	-0.1235	-0.02765	0.106004	-0.09063	0.360054	0.839672	0.432573	0.50255	-0.10385	-0.35535	0.117634	-0.28975	0.246104	0.007687	0.779226	0.025398
OR10A4	0.106904	-0.1065	0.110228	-0.24004	0.428655	0.434675	0.414352	0.072091	0.139738	-0.44404	0.300811	-0.27446	0.822835	0.000996	0.977672	0.032456
OLFML1	0.315167	-0.19386	0.105012	0.295036	0.016943	0.152246	0.436917	0.025882	0.364152	-0.00209	0.195274	0.236925	0.993037	0.494563	0.898008	0.941445
CXCR3	-0.163	-0.09869	0.162973	0.231924	0.225706	0.4693	0.225788	0.082572	-0.25969	0.004665	-0.02105	0.011675	0.040681	0.512274	0.445406	0.530692
C11orf36	-0.03446	0.123593	-0.02586	-0.19769	0.799146	0.364136	0.84857	0.140475	0.308201	-0.48387	0.398605	-0.31526	0.981412	0.000329	0.996657	0.016416
C12orf64	0.214464	-0.29557	0.112029	-0.09265	0.109156	0.026992	0.406723	0.493055	0.237972	-0.59504	0.14722	-0.43421	0.944371	6.46E-06	0.832743	0.001285
UNQ2963	-0.09569	0.248893	0.117289	0.184245	0.478922	0.064348	0.384903	0.17007	-0.02831	0.240725	0.008683	0.265867	0.425929	0.946469	0.522572	0.96294
CD163L1	0.11808	-0.12431	0.182379	0.314362	0.386084	0.365865	0.178518	0.018296	-0.11729	0.194048	0.023315	0.387363	0.218783	0.901856	0.560414	0.996089
LOC100133	-0.16652	0.071536	-0.08065	-0.03639	0.219969	0.603757	0.554612	0.790046	-0.11289	0.209642	-0.06543	0.111638	0.227532	0.918992	0.334682	0.769937
ZNF740	0.204193	-0.03524	-0.03339	0.12102	0.127616	0.796511	0.805211	0.369858	0.103795	0.248284	-0.0669	0.10239	0.753787	0.95192	0.331192	0.750833
RPL13P5	0.078841	0.196021	0.115219	-0.17427	0.559923	0.147647	0.393404	0.194808	0.034756	0.129232	0.053127	0.113509	0.590685	0.803992	0.635556	0.773705
RASSF3	0.273581	-0.29433	0.172663	0.061554	0.039475	0.02767	0.199012	0.649209	0.152924	-0.38272	0.276505	-0.2474	0.842043	0.004733	0.965386	0.050659
B4GALNT3	-0.26715	0.037661	-0.02834	-0.22506	0.044544	0.782877	0.834219	0.092332	-0.28509	0.181426	-0.12601	0.039023	0.0274	0.886221	0.204741	0.601595
OR6C6	-0.01722	-0.28097	0.097472	-0.178	0.898852	0.035936	0.470718	0.185279	-0.02834	-0.48267	-0.02176	-0.39846	0.425851	0.00034	0.443576	0.003047
ANKRD52	-0.14949	0.207097	-0.04476	-0.03814	0.267059	0.125653	0.740962	0.778183	-0.30499	0.492186	-0.28231	0.305276	0.019652	0.999744	0.030129	0.980445
SLC39A5	-0.03367	-0.12174	0.20733	-0.06392	0.805404	0.375935	0.125217	0.639767	0.074161	-0.21244	0.156718	-0.14896	0.687867	0.078177	0.848045	0.161568
SPRYD4	-0.12007	0.419568	-0.10374	0.092593	0.378064	0.001429	0.44675	0.497306	-0.11679	0.465366	-0.28169	0.237146	0.21977	0.999441	0.030424	0.943729
GPR133	0.215311	-0.1826	0.105985	0.219294	0.111013	0.182103	0.436911	0.104403	0.436718	-0.38599	0.258965	-0.08242	0.998795	0.004032	0.957078	0.293035
MORN3	-0.17102	-0.22514	0.044104	-0.33808	0.203391	0.095254	0.744606	0.010108	-0.27195	-0.37523	0.022319	-0.27636	0.033752	0.005092	0.557851	0.0315
LOC283392	-0.10652	-0.1073	0.149482	-0.36309	0.430317	0.431199	0.267079	0.005503	0.233392	-0.4145	0.222339	-0.483	0.940741	0.002092	0.928944	0.000337
LOC283398	-0.00483	0.162829	-0.05099	-0.20712	0.971789	0.23492	0.709018	0.125604	0.118299	-0.01432	0.053707	-0.23543	0.783191	0.462374	0.636978	0.057625
PRLHR	-0.01853	0.028511	0.127043	-0.2109	0.891208	0.834771	0.346333	0.115311	0.028181	-0.17925	0.163615	-0.21474	0.573742	0.116643	0.858574	0.075908
RPL29P12	0.024169	0.116477	0.126008	-0.1882	0.858365	0.392611	0.350307	0.160925	0.19429	-0.23347	0.084431	-0.23629	0.902141	0.059198	0.70933	0.056941
C12orf61	0.013816	-0.16771	0.212377	-0.0586	0.918754	0.21664	0.11273	0.665015	0.027448	-0.39223	0.086081	-0.37989	0.571845	0.003509	0.713025	0.004606
DPY19L2	-0.00453	-0.10702	0.052369	-0.18368	0.973336	0.432422	0.698842	0.171409	0.034089	-0.32704	0.063506	-0.12575	0.588974	0.013262	0.660725	0.202504
CLEC9A	-0.03529	-0.10476	0.187657	-0.17214	0.794398	0.442255	0.162159	0.200388	0.061102	-0.2121	-0.04766	-0.08419	0.654953	0.080949	0.379329	0.291209
C12orf36	-0.20093	0.295662	-0.04029	-0.19193	0.137569	0.02841	0.768102	0.156454	-0.06424	0.274739	-0.08709	0.040862	0.33752	0.96611	0.284717	0.605075
GAS2L3	0.151021	0.186858	-0.10942	0.173828	0.262129	0.167907	0.417819	0.195952	0.128911	0.229785	-0.06275	0.101306	0.803399	0.937758	0.341076	0.748541

MYO1H	-0.14636	0.068274	-0.13932	-0.22237	0.28178	0.620399	0.305816	0.099506	-0.05013	-0.41135	0.059424	-0.20523	0.370379	0.002255	0.650901	0.085618
C12orf51	-0.17692	0.340863	-0.16793	-0.13723	0.192104	0.010877	0.216033	0.31318	-0.0569	0.192103	-0.12862	0.036955	0.353618	0.899552	0.199878	0.596318
KSR2	-0.01847	-0.13369	0.300186	-0.24144	0.891537	0.325964	0.023284	0.070399	-0.06348	-0.42245	0.117022	-0.34089	0.337566	0.001724	0.778028	0.010217
NME2P1	0.001973	0.083442	0.050302	-0.00427	0.988379	0.540928	0.710197	0.974836	0.162289	0.218137	0.02072	0.246459	0.856587	0.925	0.5531	0.948667
GATC	-0.18652	0.181661	-0.08156	0.331982	0.164765	0.180263	0.546422	0.01164	0.040185	0.284191	-0.23862	0.126294	0.604555	0.972197	0.057217	0.798521
C12orf27	0.018092	-0.30839	0.115038	-0.25119	0.894711	0.021982	0.398527	0.061851	-0.23722	-0.32123	0.032783	-0.3353	0.056213	0.014749	0.584642	0.011365
C12orf40	-0.08949	-0.03581	-0.029	-0.26006	0.507965	0.793321	0.830445	0.050739	0.011021	-0.22403	0.083023	-0.29201	0.528975	0.067229	0.706159	0.024466
GLT8D3	0.037837	0.137201	-0.13674	0.263901	0.779912	0.313293	0.310456	0.047302	0.085074	0.148412	-0.08099	0.0975	0.712991	0.837527	0.298453	0.740412
TMPRSS12	-0.00355	-0.00063	0.143696	-0.11224	0.979102	0.996303	0.286246	0.405832	0.214074	-0.33944	0.116456	-0.3383	0.923438	0.010504	0.776919	0.010737
C13orf29	0.087828	-0.01934	0.117961	-0.22283	0.515914	0.887503	0.382165	0.095695	0.009563	-0.2161	0.026264	-0.20255	0.525148	0.074587	0.56799	0.088509
ZNF828	-0.01451	0.304147	-0.16906	0.207035	0.914702	0.022668	0.208702	0.122286	0.097655	0.363258	-0.13703	0.383514	0.740747	0.993456	0.184703	0.995743
GPR12	-0.28486	0.047995	-0.08916	-0.15582	0.031737	0.725391	0.509549	0.24709	-0.10231	-0.17489	-0.06638	-0.20059	0.249338	0.122517	0.332425	0.090668
SUGT1L1	-0.26704	0.035455	-0.03661	-0.08755	0.044635	0.795315	0.786893	0.517257	-0.30257	-0.02195	-0.0741	-0.02897	0.020483	0.442445	0.314273	0.424219
SIAH3	-0.12558	-0.27942	0.164503	-0.41707	0.356429	0.038832	0.22569	0.001385	-0.13919	-0.39601	-0.02298	-0.34164	0.178113	0.003222	0.440455	0.010069
KCNRG	-0.13968	-0.06656	-0.03381	-0.11077	0.300072	0.625999	0.802812	0.412065	-0.18098	-0.13647	0.072619	-0.09527	0.114367	0.182897	0.682273	0.264414
RP11-327P	-0.08937	-0.07747	-0.04638	-0.30321	0.50855	0.570367	0.73193	0.021863	-0.17164	-0.08854	0.182558	-0.1597	0.127026	0.27923	0.884988	0.144542
RP11-484H	-0.02825	0.15178	0.06204	-0.18958	0.836236	0.268639	0.649661	0.161681	0.011424	-0.07567	0.036777	-0.06531	0.530032	0.308602	0.594776	0.33316
SLC46A3	-0.08463	0.164061	-0.15938	0.082661	0.531366	0.226956	0.236327	0.541	-0.1817	-0.0491	-0.02983	0.078281	0.113423	0.372946	0.422888	0.69746
C14orf182	-0.04692	-0.16232	0.25029	-0.30297	0.72888	0.232005	0.060409	0.021974	-0.00589	-0.4845	0.366821	-0.37724	0.484507	0.000322	0.993404	0.004877
GPR137C	0.099182	0.032149	0.165123	-0.30118	0.467062	0.815756	0.223922	0.024091	0.231182	-0.44644	0.049127	-0.25574	0.938927	0.000935	0.625696	0.043134
PROX2	-0.11827	0.032217	0.022022	-0.08016	0.380893	0.813653	0.870834	0.553353	0.082427	-0.21674	-0.09547	-0.15901	0.706982	0.073978	0.266362	0.145593
ZDHHC22	0.105947	-0.1494	0.252905	-0.22621	0.432822	0.271773	0.057686	0.090639	0.069736	-0.30061	0.119668	-0.16182	0.677428	0.021182	0.783182	0.141321
TMED8	-0.18079	0.008718	-0.0847	-0.15417	0.178372	0.949156	0.531036	0.2522	0.042944	0.048647	0.034378	0.035611	0.611555	0.625913	0.588696	0.592877
C14orf178	-0.01823	-0.10969	0.22753	-0.27932	0.892951	0.420956	0.088725	0.035363	-0.01448	-0.4125	0.179906	-0.34079	0.461961	0.002194	0.881508	0.010236
LOC283588	0.116827	-0.02168	0.057235	-0.14147	0.386791	0.873964	0.672376	0.293858	0.191268	-0.25308	-0.03493	-0.09123	0.898551	0.044849	0.409904	0.273251
SNHG10	-0.05367	-0.39537	0.274036	0.054398	0.69444	0.002812	0.040978	0.690488	-0.04124	-0.43057	0.07986	-0.28368	0.392762	0.001409	0.698982	0.028035
C14orf177	0.03999	-0.13444	0.215987	-0.15499	0.769807	0.327772	0.10987	0.254035	0.075609	-0.40456	0.114665	-0.27712	0.691253	0.002647	0.773381	0.031126
C14orf68	0.029925	-0.1583	0.231544	-0.23128	0.825111	0.243906	0.08309	0.083458	0.110697	-0.29379	0.211593	-0.27051	0.768031	0.023755	0.918541	0.034511
TSSK4	-0.1323	-0.28691	0.046041	-0.14434	0.326576	0.032039	0.733794	0.284081	0.013062	-0.28269	0.111904	-0.23106	0.53433	0.028485	0.767871	0.061172
FAM177A1	0.005754	0.193564	-0.24173	0.041456	0.966114	0.152892	0.07005	0.759465	0.029595	0.237782	-0.0153	0.164039	0.577399	0.944224	0.460273	0.861999
KIAA0284	-0.12934	-0.06023	0.014356	-0.20353	0.337593	0.65927	0.915594	0.128876	-0.23035	0.051707	-0.16723	-0.08189	0.06177	0.63355	0.136108	0.29424
C14orf80	-0.25506	-0.12279	0.016209	-0.15118	0.05552	0.3673	0.904745	0.261626	-0.00235	-0.12101	-0.02459	-0.08352	0.493823	0.211546	0.436295	0.290532
C15orf21	-0.09293	-0.07077	0.023662	-0.04056	0.491713	0.60426	0.861305	0.76453	0.026638	-0.22398	0.092559	-0.30224	0.569745	0.067281	0.727322	0.0206
SLC24A5	-0.00059	-0.11807	-0.02012	-0.19908	0.996509	0.386109	0.881882	0.137644	0.085526	-0.46363	0.103484	-0.3858	0.71401	0.000587	0.750631	0.004049
PRTG	0.057995	-0.09917	0.133597	-0.20692	0.671153	0.471316	0.326292	0.125984	-0.11433	-0.23222	0.010252	-0.21791	0.227286	0.062387	0.526331	0.075214
C15orf60	0.15884	-0.1863	0.226936	-0.30078	0.237939	0.169202	0.089584	0.023001	0.151519	-0.36731	0.160027	-0.32512	0.842596	0.006017	0.853157	0.013739
LOC283685	-0.06135	-0.21188	0.162717	-0.15094	0.650314	0.116968	0.226527	0.262384	0.075786	-0.33652	0.201465	-0.23205	0.691666	0.011106	0.907761	0.060356
C15orf37	0.010055	-0.02159	0.207749	-0.20274	0.940824	0.874492	0.120975	0.130403	0.115765	-0.39179	0.094678	-0.4144	0.778201	0.003544	0.731924	0.002097
OR4N4	-0.02672	-0.1102	0.152466	0.007512	0.845015	0.423168	0.261951	0.956182	-0.11239	-0.12114	0.027104	-0.07919	0.231162	0.21397	0.56932	0.302554
UTS2R	-0.01556	0.074994	0.196569	-0.03953	0.90854	0.582786	0.142777	0.770347	0.178013	-0.20727	0.069762	-0.1703	0.881715	0.083463	0.675576	0.128911
LOC283711	0.046104	-0.07762	0.161862	-0.18024	0.733443	0.569634	0.229013	0.179701	-0.0236	-0.21796	0.026051	-0.20576	0.438155	0.072813	0.567443	0.085058
FAM154B	-0.07538	-0.09575	0.063548	-0.10294	0.577347	0.482679	0.638623	0.446075	-0.08733	-0.24438	0.145682	-0.15382	0.281931	0.050841	0.830179	0.153709
FAM98B	0.137538	0.009155	-0.13998	0.008296	0.307615	0.946609	0.299037	0.951162	-0.10234	0.1351	-0.05969	0.070522	0.249273	0.814657	0.348468	0.679292
PLA2G4D	-0.02514	-0.22383	0.176816	-0.12962	0.852763	0.097257	0.188258	0.336563	0.142288	-0.37512	0.1576	-0.38326	0.827236	0.005103	0.849418	0.004281
FAM169B	-0.08829	-0.0755	0.153292	-0.27624	0.51372	0.580232	0.254939	0.037525	0.001782	-0.21644	0.111062	-0.22996	0.504688	0.074262	0.766177	0.062093
IGHV7-81	0.288043	-0.05785	0.316766	0.005141	0.029797	0.671938	0.016363	0.969727	0.220141	-0.29686	0.343071	-0.27329	0.92923	0.022567	0.989477	0.033054
GPR15	-0.02577	-0.01082	-0.16888	0.473189	0.850437	0.937492	0.213417	0.00023	-0.18241	-0.04292	0.132096	0.098096	0.112502	0.388507	0.806478	0.741694
FBXL22	0.108807	0.056078	0.254033	-0.24112	0.420431	0.681433	0.056543	0.070782	0.187129	-0.31955	0.266891	-0.29549	0.893485	0.015202	0.961826	0.023092
CCDC79	0.007066	-0.09812	-0.01321	-0.37078	0.95878	0.476058	0.922996	0.004907	-0.14615	-0.22537	0.048384	-0.12277	0.166227	0.066048	0.623854	0.208153
CES8	-0.11785	-0.19506	0.048667	-0.31371	0.382637	0.149683	0.719219	0.017487	-0.25012	-0.25178	-0.01792	-0.27265	0.04682	0.045708	0.453502	0.033387

EXOC3L	-0.01715	-0.07845	0.274504	-0.11204	0.899266	0.565481	0.038789	0.406664	0.088017	-0.34605	0.12045	-0.23178	0.719603	0.009244	0.784693	0.06058
C16orf81	-0.13323	-0.26357	0.261788	-0.1448	0.323159	0.049677	0.049169	0.282528	0.08133	-0.33729	0.056014	-0.23978	0.704476	0.010944	0.642618	0.054242
NPW	0.014247	-0.05479	0.224899	-0.20665	0.916229	0.688346	0.092577	0.122997	0.087967	-0.33478	0.232016	-0.33477	0.719491	0.011478	0.937439	0.011479
C16orf79	-0.0067	-0.26197	0.163211	-0.15493	0.960566	0.051131	0.225103	0.249841	0.155131	-0.34305	0.16406	-0.38682	0.848364	0.009799	0.859236	0.003958
PGP	-0.11486	0.029896	0.014587	-0.14084	0.394908	0.826864	0.914235	0.296048	-0.01382	0.138869	-0.01259	-0.18955	0.463679	0.821319	0.467286	0.10353
FLJ39639	0.017824	-0.02278	0.246177	0.079363	0.895301	0.867632	0.064901	0.557319	0.119395	-0.18873	0.367245	-0.22527	0.78533	0.104541	0.993461	0.066136
C16orf54	-0.20695	-0.41803	0.086084	-0.05971	0.122435	0.001346	0.524317	0.659056	-0.21587	-0.37748	0.077283	-0.24076	0.074814	0.004852	0.69308	0.053502
INO80E	-0.04708	-0.30519	0.121923	-0.18227	0.728018	0.022183	0.36627	0.17478	-0.10264	-0.3692	0.032013	-0.24643	0.248642	0.005784	0.582682	0.049374
NUDT7	-0.11624	-0.03563	-0.15931	-0.20406	0.389209	0.794331	0.236541	0.127876	-0.35731	0.027432	-0.13788	0.006118	0.007389	0.571803	0.183208	0.516095
NCRNA000	-0.11101	-0.08026	0.155103	-0.23238	0.415374	0.560233	0.25369	0.084812	-0.0693	-0.1719	-0.05009	-0.20902	0.325508	0.12942	0.373378	0.08411
ZNF843	0.002351	-0.08524	0.273015	-0.17742	0.986151	0.532202	0.039901	0.186721	0.088578	-0.30863	0.153879	-0.28785	0.720856	0.018451	0.843568	0.026201
FLJ36208	-0.16402	-0.29858	0.080167	-0.13875	0.222794	0.025402	0.553321	0.303341	-0.14222	-0.43152	0.013675	-0.25916	0.172875	0.001375	0.535522	0.041
C16orf91	-0.06236	0.002631	0.092084	-0.188	0.644948	0.984648	0.495705	0.161375	0.060471	-0.01716	0.056707	-0.11629	0.655132	0.45493	0.644308	0.22075
PDXDC2	-0.23561	0.183004	0.094269	-0.0663	0.077669	0.177009	0.48549	0.62415	0.073099	-0.06793	0.043666	-0.09137	0.685377	0.32688	0.612105	0.272957
FADS6	0.034906	-0.04236	0.215095	-0.25936	0.796579	0.756556	0.108092	0.051392	0.141553	-0.25574	0.085856	-0.2416	0.825973	0.043136	0.712522	0.052874
C17orf28	0.12118	-0.10828	0.2515	-0.0264	0.36922	0.427007	0.059137	0.845454	0.166091	-0.12419	0.071145	-0.1286	0.865023	0.205451	0.678823	0.197173
TSEN54	-0.08453	-0.0592	0.142285	0.125154	0.531872	0.664706	0.291055	0.353609	-0.06548	0.030923	-0.12245	0.05756	0.332735	0.580826	0.21148	0.648012
FAM100B	-0.01275	-0.16904	-0.01517	-0.17242	0.925028	0.212981	0.910847	0.199655	-0.09961	-0.2117	-0.06036	-0.29953	0.255072	0.078922	0.346837	0.021572
ANGPT1	0.196486	-0.35508	0.09017	0.111543	0.142949	0.007245	0.504744	0.408771	0.207575	-0.46302	0.295592	-0.19121	0.916856	0.000597	0.97566	0.101523
GPR17	0.12557	-0.02283	0.2733	-0.21716	0.351999	0.867336	0.039686	0.104662	-0.07246	-0.22677	0.101757	-0.12248	0.316136	0.064817	0.747016	0.208715
CCDC57	-0.1914	-0.26226	0.068896	-0.28801	0.153798	0.050867	0.610589	0.029819	-0.29056	-0.38624	-0.05832	-0.27691	0.02506	0.00401	0.351761	0.031229
HEXDC	-0.06787	-0.14759	0.211285	-0.03739	0.619191	0.282241	0.118016	0.784424	-0.09956	-0.055	-0.02413	-0.06672	0.255167	0.358294	0.437501	0.329779
LOC284005	-0.03463	0.079972	0.199114	-0.21357	0.798163	0.557946	0.137575	0.110681	0.188468	-0.45313	0.196648	-0.4323	0.895142	0.000783	0.902292	0.001349
VMO1	-0.14184	-0.17188	-0.00051	0.142603	0.29257	0.205265	0.996969	0.289966	-0.26055	0.085151	-0.09963	0.083494	0.04016	0.713165	0.257481	0.709412
C17orf58	-0.18631	-0.03861	0.001551	-0.17494	0.165244	0.777551	0.990863	0.193072	0.013834	-0.28286	-0.0929	-0.32175	0.536352	0.028408	0.271936	0.014611
C17orf60	-0.04415	-0.24312	0.343451	0.216526	0.744367	0.070998	0.008906	0.105711	0.017602	-0.14724	0.083978	-0.05001	0.546216	0.164418	0.708312	0.370667
LOC284023	-0.09333	-0.00252	0.044317	-0.28433	0.49387	0.98542	0.745698	0.033685	0.284514	-0.235	0.167603	-0.37192	0.970902	0.060105	0.861583	0.00594
C17orf44	-0.11609	-0.0379	-0.14071	0.079688	0.38982	0.781529	0.296473	0.5557	-0.06232	0.164819	-0.18096	0.10997	0.340366	0.863154	0.117098	0.766551
CDRT4	-0.28381	-0.06496	-0.10462	-0.13459	0.03403	0.637527	0.442879	0.322663	-0.30989	-0.03086	-0.07561	-0.0397	0.018048	0.419343	0.310791	0.396681
KIAA1267	0.021513	0.261042	-0.12624	0.143778	0.876113	0.056575	0.358403	0.294984	0.289731	0.1403	0.072024	0.087764	0.973228	0.821014	0.678892	0.716773
RPL29P31	0.04356	0.035355	0.022865	-0.32651	0.74765	0.795876	0.865934	0.013181	0.079866	-0.17217	0.127405	-0.25008	0.701116	0.126284	0.797864	0.046848
LOC284067	0.081893	-0.1265	0.184812	-0.15598	0.544781	0.352884	0.168737	0.246603	-0.0952	-0.25269	0.126321	-0.18353	0.264573	0.045105	0.795843	0.111055
FAM171A2	-0.1243	-0.00689	0.143358	-0.11103	0.356947	0.959832	0.287395	0.410953	-0.03949	-0.20799	-0.02849	-0.1721	0.397201	0.08271	0.42632	0.126383
FLJ35848	-0.17093	0.075118	0.027659	-0.34794	0.203635	0.582159	0.838171	0.007999	-0.22712	-0.29669	-0.27211	-0.24921	0.064513	0.022633	0.035281	0.04744
TTLL6	-0.15784	-0.24345	-0.00331	-0.41306	0.240956	0.070605	0.980478	0.001406	-0.21856	-0.40163	0.065147	-0.33781	0.07225	0.002832	0.664644	0.010837
C17orf47	0.132207	-0.32012	0.154952	-0.32302	0.32692	0.016162	0.249767	0.014253	0.044959	-0.48844	0.147927	-0.53585	0.616646	0.000287	0.833915	6.21E-05
FLJ40504	0.090291	0.249778	0.071086	0.011048	0.508107	0.065896	0.60263	0.935593	-0.09955	0.129474	-0.00312	0.181687	0.255202	0.804439	0.491897	0.88656
NEK8	-0.06136	-0.19723	0.07241	-0.35002	0.650224	0.145119	0.592461	0.007607	-0.17255	-0.14349	0.096046	-0.17278	0.125748	0.170714	0.734873	0.125436
PIGW	-0.14527	0.401006	-0.26136	0.264147	0.285412	0.002413	0.051692	0.04916	-0.13207	0.665472	-0.26505	0.50542	0.190805	1	0.039238	0.99983
C17orf78	-0.08374	0.054852	-0.04796	-0.28153	0.535732	0.688036	0.723147	0.033879	-0.08283	-0.21472	0.159724	-0.22027	0.292105	0.075932	0.852693	0.070648
GPR18	0.047158	-0.16081	0.018373	0.169008	0.727584	0.236419	0.892096	0.208835	-0.12002	-0.3646	0.06779	-0.14929	0.213454	0.006365	0.670923	0.161029
GSDMA	0.047217	-0.0581	0.251301	-0.26318	0.727256	0.670593	0.059344	0.047934	0.13234	-0.53374	0.295241	-0.41522	0.809684	6.68E-05	0.97552	0.002056
SLC13A5	0.025014	-0.09526	0.127458	-0.17722	0.853469	0.484932	0.344746	0.187227	0.030616	-0.17018	0.145499	-0.13998	0.57912	0.131855	0.826999	0.179535
TMEM102	-0.12285	0.05832	0.065107	-0.00564	0.362614	0.669416	0.630396	0.966784	-0.24514	0.207737	-0.10786	0.036466	0.050289	0.917025	0.240329	0.595067
PTRF	0.404601	-0.18011	0.211832	0.054704	0.002185	0.192501	0.120522	0.691609	0.384327	-0.094	0.273816	0.01329	0.995818	0.267183	0.965627	0.534926
FAM27L	-0.2561	-0.12348	0.088878	-0.225	0.054495	0.364592	0.510892	0.092421	0.047388	-0.34982	0.140823	-0.36976	0.622757	0.008583	0.821917	0.005717
SLC26A11	0.010566	-0.14417	0.164353	-0.00425	0.937826	0.289117	0.22183	0.974944	0.119286	-0.09509	0.143323	-0.13717	0.785118	0.264798	0.826198	0.181661
FLJ35220	-0.05885	-0.05342	0.174231	-0.19925	0.663672	0.695803	0.194902	0.137294	-0.10694	-0.22752	-0.04451	-0.19569	0.239667	0.064169	0.385786	0.096232
GDPD1	-0.06108	0.126687	-0.2081	-0.36539	0.65176	0.352158	0.120333	0.005192	-0.26889	0.047509	-0.08757	-0.06668	0.035386	0.623062	0.283664	0.329862
C17orf55	0.051195	-0.08807	0.178253	-0.19824	0.705282	0.518659	0.184635	0.139352	-0.0022	-0.35022	0.186849	-0.28287	0.494223	0.008516	0.890465	0.028404

TMEM105	-0.00072	-0.21062	0.279135	-0.09099	0.995754	0.119199	0.035489	0.500844	0.221989	-0.36129	0.097216	-0.38279	0.930928	0.006814	0.737384	0.004325
GPR19	0.041243	-0.08006	-0.11715	-0.0725	0.760663	0.5575	0.385477	0.592012	0.149561	-0.21275	-0.01593	-0.16465	0.839414	0.07787	0.458634	0.137103
METRNL	0.051287	0.008402	0.167341	-0.06266	0.704779	0.950997	0.213425	0.64331	0.109844	-0.09487	0.169905	-0.14571	0.766294	0.265282	0.86775	0.166964
LAMA1	0.027766	-0.26893	0.121152	-0.08292	0.839027	0.04505	0.373758	0.543454	0.193836	-0.36771	0.227561	-0.2899	0.901607	0.005968	0.933629	0.025334
RPL36AP49	0.106582	0.146959	-0.06963	-0.063	0.430053	0.279779	0.606757	0.641515	-0.01985	0.152926	0.108225	0.204576	0.447923	0.844859	0.760419	0.913684
KCTD1	-0.11308	0.214379	-0.21158	-0.27118	0.406655	0.112606	0.117498	0.043219	-0.4262	0.379409	-0.32812	0.312342	0.001572	0.995346	0.013887	0.982712
C18orf26	0.028626	-0.14259	-0.05483	-0.31169	0.832592	0.294478	0.685436	0.018266	0.142556	-0.26371	0.020552	-0.17899	0.824892	0.040024	0.552671	0.119704
SIGLEC15	-0.05557	-0.09967	0.225649	-0.29561	0.681368	0.464848	0.091466	0.025583	-0.16674	-0.29881	0.143522	-0.18585	0.134028	0.021836	0.826535	0.108114
ZADH2	0.016334	0.421125	-0.13376	0.173581	0.904015	0.001229	0.32123	0.196598	0.129883	0.424027	-0.06596	0.257768	0.805194	0.998341	0.33341	0.958141
C18orf62	-0.03146	-0.18168	0.16119	-0.12795	0.8163	0.180207	0.230975	0.342865	0.037014	-0.2238	0.003407	-0.25498	0.596468	0.067439	0.50886	0.043616
LOC284288	-0.01631	-0.10051	-0.02578	-0.10711	0.904168	0.461074	0.849019	0.427743	0.105108	-0.35608	0.039718	-0.27498	0.756531	0.007575	0.602198	0.03219
LOC100133	0.066565	-0.15615	0.164337	-0.24848	0.622741	0.250452	0.221875	0.06235	-0.06232	-0.20475	0.151873	-0.13211	0.340368	0.086127	0.840356	0.19073
LOC284297	0.130007	-0.26686	0.360399	-0.11711	0.335104	0.046791	0.005889	0.385653	0.131555	-0.46002	0.281329	-0.32468	0.808256	0.000649	0.969405	0.01385
GPR20	0.015074	-0.04689	0.216814	-0.13644	0.911388	0.731447	0.105236	0.311517	0.156824	-0.3926	0.210192	-0.30364	0.85102	0.00348	0.917107	0.020112
ZNF547	0.113878	0.314955	0.046326	-0.09094	0.398969	0.018066	0.732208	0.501088	-0.12322	0.280107	-0.06454	0.10467	0.207289	0.970314	0.336797	0.755618
ZIK1	0.171514	-0.21243	0.017765	-0.07783	0.202064	0.115988	0.89565	0.564994	0.012291	-0.2578	0.000133	-0.09443	0.532307	0.041837	0.500345	0.26624
ZNF776	-0.04874	0.311293	-0.22805	0.003302	0.71881	0.019527	0.08798	0.980552	0.073092	0.392524	-0.02181	0.166635	0.68536	0.996514	0.443454	0.865816
ZSCAN1	0.097386	-0.2504	0.243928	-0.3294	0.471109	0.062696	0.067468	0.012345	0.148492	-0.31945	0.174886	-0.35519	0.837658	0.01523	0.87473	0.007712
LOC100133	0.169794	-0.05468	0.280349	-0.183	0.206693	0.68894	0.034664	0.173014	0.259768	-0.30584	0.330005	-0.23932	0.95937	0.019364	0.986581	0.054591
IGHV3-35	-0.03295	-0.04086	0.186758	0.130432	0.807736	0.764963	0.164218	0.333512	-0.04975	-0.01697	0.164017	0.037336	0.371333	0.455429	0.859173	0.597292
ZNF780A	-0.07481	0.179214	-0.21443	0.117771	0.580216	0.186304	0.109213	0.38294	-0.14433	0.401289	-0.19473	0.251528	0.169292	0.997145	0.099946	0.954124
C19orf54	-0.00438	-0.09604	0.08063	-0.37112	0.974182	0.481349	0.551021	0.004482	-0.07837	-0.15108	-0.05095	-0.19894	0.302335	0.158106	0.369807	0.092518
PRR19	-0.0101	-0.1386	0.138124	-0.29285	0.940538	0.308352	0.305537	0.027056	-0.03514	-0.418	0.003119	-0.43972	0.408341	0.001922	0.508113	0.001115
TMEM145	-0.06426	-0.26325	0.165845	-0.13107	0.634882	0.049963	0.217606	0.331129	0.160515	-0.37614	0.110002	-0.35566	0.856706	0.004994	0.764034	0.007639
IGHV3-33	-0.01088	-0.03164	-0.02527	0.342819	0.936566	0.818612	0.85333	0.009697	-0.23507	0.190197	-0.18132	0.202274	0.060042	0.894612	0.119414	0.908657
CXCL17	0.129393	-0.07249	0.211185	0.028485	0.341882	0.598936	0.118195	0.834918	-0.18225	0.248187	-0.14265	0.155593	0.112708	0.951853	0.174954	0.849092
ZNF575	0.042524	-0.22012	0.278383	-0.16645	0.753463	0.103065	0.036009	0.215908	-0.00329	-0.3701	0.148894	-0.2254	0.491348	0.005676	0.835508	0.066021
LYPD5	0.034944	-0.17293	0.193737	0.104681	0.796362	0.202467	0.14874	0.438372	0.006292	0.11833	0.189275	0.21984	0.516551	0.783253	0.893482	0.928951
ZNF283	-0.06249	0.307301	-0.08192	0.139591	0.644247	0.021233	0.544669	0.300377	-0.0949	0.305194	-0.10567	0.195729	0.267587	0.979256	0.247404	0.901222
LRRC68	-0.08069	0.012481	0.143965	-0.08974	0.55075	0.927255	0.285335	0.506786	-0.07225	-0.00085	-0.04519	-0.02887	0.316633	0.497768	0.384092	0.424474
NKPD1	0.063242	-0.14823	0.283959	-0.09218	0.640246	0.275608	0.032304	0.495244	0.03583	-0.31643	0.156183	-0.33531	0.593438	0.016078	0.847207	0.011364
TPRX1	-0.04285	-0.0861	0.141899	-0.06249	0.751651	0.52806	0.292379	0.64421	0.068764	-0.29836	0.155073	-0.24511	0.675117	0.022005	0.845461	0.050317
FLJ36070	0.042346	-0.28385	0.203305	-0.14158	0.754463	0.034	0.129317	0.293486	-0.01982	-0.37758	0.048129	-0.24335	0.448596	0.005278	0.621812	0.053611
IZUMO1	-0.02859	-0.03643	0.140588	-0.17608	0.832827	0.789828	0.296906	0.190138	-0.1068	-0.30654	0.059229	-0.22071	0.239952	0.019131	0.650429	0.070241
C19orf63	-0.01235	-0.18219	0.124764	-0.02438	0.927361	0.178982	0.355124	0.857168	-0.19292	0.168866	-0.06638	0.078791	0.099482	0.86904	0.332416	0.698638
MGC45922	-0.19563	-0.0336	0.084753	-0.2145	0.144736	0.8058	0.530773	0.109096	-0.04654	-0.30858	0.202573	-0.37391	0.379369	0.018467	0.908988	0.005237
KLK9	-0.05714	-0.15873	0.19311	-0.1901	0.672876	0.242618	0.150083	0.15666	0.119442	-0.26344	0.066033	-0.22724	0.785423	0.03845	0.666754	0.064414
SIGLECP3	0.017032	-0.12909	0.089945	-0.0166	0.899929	0.34304	0.50581	0.902465	-0.13762	-0.20229	-0.04394	-0.1376	0.180869	0.088789	0.387212	0.180913
FLJ40235	0.17156	-0.18988	0.354115	-0.26988	0.20613	0.164975	0.007416	0.044271	0.180304	-0.38734	0.184065	-0.31273	0.884752	0.003913	0.886932	0.017169
ZNF615	0.160362	0.067267	-0.13037	0.234136	0.23775	0.625579	0.338218	0.082417	0.108448	0.13941	0.004034	0.159678	0.763438	0.822264	0.510492	0.855429
ZNF841	-0.00932	0.095572	-0.10951	0.244911	0.945125	0.48351	0.417426	0.066336	0.201037	0.105989	0.005037	0.17614	0.909829	0.758363	0.513097	0.879189
LOC284375	0.176359	-0.06119	0.177406	-0.13168	0.189421	0.654177	0.186764	0.328872	0.221901	-0.31863	-0.01919	-0.21099	0.930848	0.015458	0.450225	0.079638
MGC33407	0.023479	-0.20475	0.255033	-0.10369	0.862367	0.130097	0.055545	0.44276	0.194369	-0.42043	0.193148	-0.28715	0.902233	0.001812	0.898175	0.026499
OR2Z1	-0.04332	0.066299	0.046338	-0.23359	0.749013	0.627334	0.732141	0.080335	0.187458	-0.14035	-0.00623	-0.20973	0.893894	0.176097	0.483796	0.080921
ZNF763	-0.04499	0.002261	-0.00964	-0.20319	0.739656	0.986803	0.943247	0.129532	-0.02087	-0.35675	0.171455	-0.17751	0.445243	0.007472	0.86995	0.118954
ZNF844	0.109756	-0.16116	-0.00174	-0.25957	0.416365	0.235387	0.989725	0.051191	0.120632	-0.11999	0.068993	-0.04971	0.787731	0.213523	0.673765	0.371438
RPL10P16	0.011899	0.155708	-0.01399	0.096173	0.930644	0.2563	0.918508	0.480752	-0.08345	0.198075	-0.1377	0.100912	0.290688	0.906508	0.183513	0.747707
GPR21	0.145606	0.105378	-0.07638	0.183437	0.279822	0.439553	0.572276	0.171984	0.144111	0.187742	-0.08925	0.117856	0.83034	0.894247	0.279947	0.782324
SCGBL	-0.16031	0.02868	0.080112	-0.40446	0.233555	0.833805	0.553591	0.001806	-0.28209	-0.19107	0.051245	-0.27979	0.028758	0.101683	0.630925	0.029834
WDR62	0.021649	-0.08652	0.176834	-0.14798	0.874165	0.529959	0.192315	0.276408	-0.05377	-0.05828	0.109182	-0.0952	0.361323	0.350216	0.762369	0.264554

ZFP82	0.067814	-0.14832	-0.06297	-0.04393	0.616219	0.275297	0.641671	0.745583	0.181704	-0.32623	0.094352	-0.28836	0.886583	0.013461	0.731216	0.025981
VSTM1	0.046008	-0.23468	0.143018	-0.26527	0.733977	0.08169	0.288552	0.046126	-0.12774	-0.40284	0.062974	-0.28516	0.201514	0.003039	0.657667	0.028802
TMEM224	-0.01391	-0.14675	0.178907	-0.12941	0.918196	0.280462	0.183004	0.337358	-0.017	-0.24508	0.275229	-0.28926	0.455345	0.050338	0.966364	0.0256
FAM71E2	-0.02431	-0.2258	0.271771	-0.20067	0.857562	0.09426	0.040851	0.134459	0.018385	-0.38961	0.183199	-0.33335	0.548263	0.003721	0.885817	0.011792
LOC284422	-0.15409	-0.2259	0.130773	-0.12343	0.252435	0.094111	0.332238	0.360341	-0.04168	-0.42406	0.147347	-0.32312	0.391658	0.001657	0.832954	0.014249
C19orf30	-0.0495	-0.13297	0.218447	-0.15008	0.714607	0.328588	0.102577	0.26514	0.17919	-0.28847	0.219809	-0.26466	0.883282	0.025937	0.926588	0.037746
SLC25A41	0.045806	-0.05489	0.181898	-0.2413	0.735102	0.687832	0.175672	0.070574	0.271704	-0.27605	0.366669	-0.37065	0.96612	0.031653	0.993384	0.00561
OR10H5	0.031551	-0.13556	0.330823	-0.22988	0.815775	0.319157	0.011953	0.085397	0.176033	-0.39464	0.221075	-0.38103	0.879044	0.003324	0.927774	0.004494
NWD1	-0.09935	-0.24765	0.000868	-0.23832	0.462185	0.06573	0.994886	0.074222	-0.22032	-0.26589	0.09293	-0.21224	0.0706	0.037047	0.728129	0.078377
SLC25A42	0.12768	-0.29006	0.294852	-0.06109	0.343898	0.030123	0.025979	0.651686	0.066138	-0.29751	0.198952	-0.23039	0.668838	0.022323	0.904935	0.06173
ZNF493	0.004268	0.133991	0.009603	0.078751	0.974861	0.324855	0.943477	0.560374	0.129946	-0.06326	0.060514	0.031561	0.80531	0.338092	0.653533	0.582472
ODF3L2	-0.05815	-0.11331	0.193831	-0.26422	0.667446	0.405692	0.148538	0.047025	0.024358	-0.38327	0.188681	-0.34406	0.563827	0.00428	0.892748	0.009609
HKR1	-0.15759	0.049491	0.082058	-0.06308	0.246065	0.719724	0.547684	0.644172	-0.0366	0.047369	-0.13535	-0.04254	0.404601	0.62271	0.187668	0.389468
FAM19A3	-0.05194	-0.1928	0.264414	-0.22811	0.701179	0.154556	0.046857	0.087886	0.064612	-0.35578	0.169622	-0.3438	0.665167	0.007621	0.867347	0.009657
NCRNA001	-0.19	-0.14989	0.064627	-0.28148	0.156888	0.270196	0.632927	0.033912	-0.22813	-0.40448	0.017431	-0.32243	0.063645	0.002651	0.545242	0.01443
THEM5	-0.04974	-0.05422	0.145653	-0.22838	0.71331	0.691477	0.279666	0.087503	0.0997	-0.40346	-0.00506	-0.25297	0.745126	0.002715	0.486855	0.044921
IGHV3-13	-0.09009	-0.10872	0.022738	0.46301	0.505101	0.425098	0.866673	0.000287	-0.07288	0.155459	-0.16875	0.195475	0.315134	0.848881	0.133903	0.903523
C1orf167	0.056441	-0.15743	0.305662	-0.1758	0.676669	0.24656	0.020766	0.190855	0.120604	-0.41183	0.308033	-0.45669	0.78499	0.002471	0.979034	0.000807
GPR22	0.2339	-0.30665	0.17943	-0.40891	0.082737	0.022779	0.185764	0.001754	0.076674	-0.3389	0.074637	-0.31984	0.693734	0.010613	0.686968	0.015124
IGHV3-9	0.084769	0.079597	0.196438	0.529347	0.530695	0.559798	0.14305	2.30E-05	-0.11276	0.178657	0.105833	0.344881	0.230409	0.879847	0.752927	0.989833
OR2L13	0.129298	-0.104	0.146414	-0.21788	0.33777	0.445596	0.277134	0.103494	0.033062	-0.10173	0.185556	-0.1479	0.585352	0.253042	0.886074	0.166133
SLC9A11	-0.06905	0.031991	0.014587	-0.1962	0.609793	0.814941	0.91424	0.14354	-0.11861	-0.22635	0.036266	-0.18845	0.216203	0.065183	0.593481	0.10488
OR14A16	-0.09843	0.074305	0.078692	-0.33383	0.470474	0.589785	0.564283	0.011925	0.104069	-0.44231	0.171663	-0.49099	0.754361	0.001043	0.870243	0.000266
CYP4A22	-0.19604	-0.10757	0.064223	-0.15576	0.143884	0.43006	0.635058	0.24727	-0.2652	-0.23388	-0.07545	-0.21094	0.037437	0.058862	0.311146	0.079685
IGHV2-5	-0.13159	-0.16852	0.045429	0.439555	0.333688	0.218751	0.739539	0.0007	-0.14007	-0.03105	-0.01256	-0.0475	0.179383	0.419762	0.467766	0.378343
C1orf157	-0.08827	-0.21207	0.063078	-0.1271	0.513811	0.116623	0.641115	0.346102	0.1778	-0.47592	0.039466	-0.31996	0.881428	0.000414	0.601563	0.01509
LPAR4	0.26101	-0.17672	0.122128	-0.37569	0.049871	0.192614	0.36546	0.003978	0.216958	-0.36673	0.190692	-0.28934	0.926234	0.006091	0.895216	0.02557
IGHV1-69	0.191786	-0.095	-0.00263	0.556474	0.156773	0.490235	0.984679	8.45E-06	-0.12554	0.31122	0.032408	0.472643	0.202904	0.982368	0.583687	0.999545
FAM102B	0.073138	0.381979	-0.28182	0.27053	0.588733	0.003672	0.033685	0.041817	-0.05864	0.678706	-0.19617	0.486454	0.349337	1	0.098259	0.999696
SYPL2	0.141967	-0.2044	0.345429	-0.16975	0.292143	0.130761	0.008496	0.206807	0.203035	-0.44593	0.292727	-0.3424	0.91202	0.000948	0.974495	0.009922
CYB561D1	-0.02513	-0.02681	0.044354	0.074914	0.852801	0.844479	0.743206	0.579691	-0.30816	0.2635	-0.31426	0.09419	0.018603	0.961584	0.017759	0.733238
ANKRD34A	-0.07624	-0.02196	0.198033	-0.22337	0.572966	0.872398	0.139767	0.094869	0.07088	-0.26136	-0.01807	-0.34983	0.678204	0.041444	0.453655	0.009244
C1orf104	-0.05187	0.150906	0.296211	-0.29179	0.701576	0.266922	0.025269	0.027645	0.178212	-0.23518	0.086468	-0.3226	0.88198	0.057822	0.713889	0.014387
RSPO1	0.131312	-0.13222	0.350329	0.047179	0.330235	0.331357	0.00755	0.727469	0.370808	-0.37786	0.306056	-0.34696	0.994408	0.004813	0.979556	0.00908
EPHA10	0.002744	-0.23959	0.213317	-0.18318	0.983836	0.075325	0.11111	0.172602	0.130069	-0.37055	0.149344	-0.36073	0.805536	0.005622	0.836245	0.006893
IGHV1-45	0.121315	-0.13793	0.242246	0.104067	0.373111	0.315279	0.072048	0.445298	-0.09507	0.017274	-0.22524	-0.11995	0.264855	0.545357	0.068422	0.213587
IGHV1-24	0.027235	0.015909	0.03555	0.471447	0.842071	0.90822	0.794778	0.000245	-0.08316	0.457046	-0.10588	0.331579	0.293542	0.999201	0.246973	0.986962
IGHV1-18	0.110633	-0.0896	0.10165	0.593877	0.412628	0.511375	0.451816	1.12E-06	-0.01218	0.268535	0.082819	0.479777	0.467989	0.964422	0.7057	0.99963
C1orf111	-0.06925	-0.05143	0.178514	-0.15047	0.60876	0.706575	0.183982	0.263881	0.007854	-0.37303	0.230565	-0.22547	0.520657	0.005336	0.936216	0.065952
ZNF326	-0.11538	0.337048	-0.26005	0.140269	0.392727	0.01108	0.050749	0.298015	-0.03504	0.510968	-0.1167	0.412986	0.40858	0.999858	0.222601	0.997831
BTBD8	-0.03005	0.191027	-0.14654	-0.14467	0.824376	0.158451	0.276727	0.28297	0.003183	-0.06135	0.080251	-0.06117	0.508375	0.342725	0.699873	0.343177
MCHR1	-0.14462	0.039017	0.061561	-0.25674	0.283121	0.77526	0.649175	0.053873	0.104884	-0.37777	0.112487	-0.33968	0.756065	0.004822	0.76904	0.010457
RIMKLA	0.097723	0.039439	0.304802	-0.2977	0.469567	0.772896	0.021145	0.02451	-0.03475	-0.20724	0.172589	-0.23672	0.40933	0.083494	0.871542	0.056605
SLC25A34	0.128133	-0.06261	0.208829	-0.25134	0.342177	0.646665	0.119011	0.059305	0.215737	-0.20012	0.233772	-0.26353	0.92506	0.091187	0.938895	0.038396
PRR17	-0.01309	-0.11182	0.224768	-0.23881	0.923033	0.411919	0.092773	0.073617	0.156037	-0.39236	0.159381	-0.38185	0.84979	0.003499	0.852168	0.004415
C20orf197	0.19422	0.123911	0.233229	-0.2254	0.151479	0.367417	0.083647	0.094859	0.188174	-0.39368	0.243704	-0.36209	0.894781	0.003396	0.946654	0.006703
LOC284757	0.126124	-0.16503	0.06047	-0.14442	0.349862	0.224195	0.654994	0.283784	0.008987	-0.11647	0.105979	-0.03993	0.523635	0.220395	0.755808	0.396104
SIRPB2	0.028499	-0.28792	0.254487	-0.08366	0.833323	0.031415	0.056088	0.536095	0.077985	-0.51979	0.285469	-0.33681	0.694692	0.000126	0.969835	0.011839
GPR25	-0.04488	-0.20487	0.296921	0.00929	0.740246	0.129868	0.024904	0.945321	0.096458	-0.41299	0.14583	-0.20154	0.738165	0.002169	0.830427	0.089611
FAM182A	0.023847	-0.05327	0.226047	-0.1442	0.860232	0.696617	0.090881	0.28453	0.058499	-0.5121	0.202907	-0.30851	0.650316	0.000137	0.909355	0.018489

FRG1B	0.018511	0.086924	-0.1745	0.009431	0.891292	0.524114	0.1942	0.94449	-0.02361	0.263097	-0.09888	0.070577	0.43883	0.959608	0.26155	0.677493
LOC284805	0.168344	0.241088	0.180038	-0.00974	0.210654	0.073462	0.180204	0.942661	-0.1294	0.048434	-0.09521	-0.12179	0.195689	0.625379	0.266932	0.21003
KRTAP13-4	-0.00972	0.05456	0.177848	-0.1619	0.942794	0.689615	0.18565	0.2289	0.03101	-0.26522	0.123764	-0.1566	0.581051	0.037427	0.791028	0.149324
C21orf125	0.16674	-0.2608	0.303316	-0.07674	0.215098	0.052209	0.021815	0.570441	-0.27833	-0.22058	-0.03535	-0.24507	0.030535	0.070365	0.40884	0.050341
LOC284837	0.013197	-0.23374	0.246086	-0.24727	0.922382	0.082955	0.065004	0.063684	0.13445	-0.24176	0.182982	-0.16366	0.813494	0.05276	0.885536	0.138568
GPR26	0.045325	-0.27444	0.276666	-0.30616	0.737788	0.040668	0.037218	0.020549	0.188273	-0.39296	0.22458	-0.39003	0.894902	0.003452	0.930983	0.003686
LOC284900	0.019906	-0.13451	0.106577	-0.15239	0.883156	0.322965	0.430076	0.257788	0.148773	-0.29405	0.115219	-0.27899	0.838121	0.023653	0.774479	0.03022
SEC14L4	-0.08882	0.040709	0.218902	-0.28273	0.511145	0.765787	0.101847	0.03309	0.118019	-0.48885	0.195386	-0.32644	0.782643	0.000283	0.900821	0.013409
LOC284912	-0.09487	-0.014	0.110858	-0.00421	0.486729	0.919197	0.415997	0.975423	-0.0007	-0.24101	0.109497	-0.21037	0.498147	0.053321	0.76301	0.080265
RPL23AP82	0.188255	-0.02821	-0.13109	-0.29169	0.164695	0.83798	0.335519	0.029163	-0.04804	-0.00945	-0.1044	0.021945	0.376988	0.475443	0.250028	0.556889
LOC100133	-0.09263	-0.12311	0.063106	-0.2006	0.493128	0.366044	0.640965	0.134598	-0.0644	-0.28001	0.131185	-0.23202	0.335342	0.029731	0.804821	0.060379
SH2D6	0.010738	-0.29277	0.160113	-0.2514	0.936813	0.028544	0.234148	0.059245	0.069387	-0.37731	0.232615	-0.3119	0.676599	0.00487	0.937939	0.017424
NT5DC4	-0.12033	-0.10533	0.058414	-0.29601	0.372612	0.439782	0.666019	0.025372	0.112467	-0.35009	0.21107	-0.28907	0.771612	0.008538	0.918008	0.025681
CCDC150	0.062645	0.109278	-0.02835	-0.23234	0.646472	0.42708	0.835694	0.084862	0.045448	0.115679	0.002787	-0.0667	0.61788	0.77803	0.507248	0.329823
RNF149	-0.16285	0.078313	-0.30191	0.376547	0.226138	0.566166	0.022466	0.00389	-0.09358	0.289009	-0.08258	0.072767	0.268106	0.974293	0.294849	0.684595
ANGPT2	0.224513	-0.20112	0.258173	0.161815	0.093154	0.137196	0.052502	0.229148	0.34158	-0.2045	0.095229	-0.01871	0.989175	0.088906	0.730688	0.451463
GPR27	0.032605	-0.09478	0.269222	-0.18561	0.809731	0.487173	0.042856	0.166879	0.123486	-0.38916	0.177074	-0.4742	0.790501	0.004119	0.874903	0.0005
FAM150B	-0.10815	0.005633	0.116478	0.146619	0.423262	0.967133	0.388219	0.276452	0.201147	-0.18979	0.272067	-0.13322	0.90995	0.103233	0.964696	0.188729
CCDC141	0.058158	-0.34542	0.200432	0.22634	0.670284	0.009796	0.138568	0.09346	-0.11326	-0.36437	0.08926	-0.10661	0.229417	0.006933	0.717757	0.242886
LOC285033	0.046389	0.359621	0.027946	-0.00571	0.731857	0.006485	0.836516	0.966361	0.090466	0.358424	-0.10235	0.08305	0.725051	0.992776	0.251737	0.7084
C2orf61	-0.09935	-0.04459	0.177131	-0.20288	0.462157	0.744161	0.18746	0.130132	-0.00916	-0.32243	0.151117	-0.20192	0.475901	0.014432	0.839133	0.089201
RPL18AP6	-0.05351	-0.02635	0.163231	0.02655	0.692595	0.847147	0.225045	0.844578	0.150852	-0.15504	-0.05275	-0.09784	0.841517	0.151774	0.365366	0.258857
C2orf85	-0.03185	-0.08674	0.173122	-0.24925	0.814081	0.524977	0.197805	0.061526	0.128817	-0.20648	0.04754	-0.19662	0.803225	0.084293	0.621761	0.09515
FLJ38379	0.188255	0.06699	0.114573	-0.02414	0.160801	0.623746	0.396079	0.858531	0.080188	-0.22727	-0.05376	-0.21004	0.701856	0.064385	0.362882	0.080603
NKIRAS2	-0.101	0.262174	0.051706	0.006706	0.458908	0.053156	0.705087	0.96088	-0.05881	0.455615	-0.10146	0.142638	0.348924	0.999268	0.253618	0.827834
NKIRAS1	0.032499	0.147616	-0.12852	-0.10959	0.810338	0.277611	0.340696	0.417061	0.012044	0.088349	0.113679	0.089912	0.53166	0.720345	0.771421	0.723824
DNAJC5G	0.044532	-0.1013	0.168271	-0.31445	0.742215	0.457575	0.210856	0.017209	0.059104	-0.25404	0.098859	-0.38439	0.651795	0.044226	0.740889	0.004176
CDH19	0.197413	0.037107	-0.10343	0.266249	0.141036	0.785995	0.443894	0.045295	0.467256	-0.30317	0.190624	-0.31339	0.99947	0.020274	0.895133	0.01697
DLL1	0.103861	-0.0569	0.144436	0.054592	0.441984	0.677045	0.283744	0.686704	0.098632	-0.08702	0.082657	-0.08928	0.742843	0.282632	0.705332	0.277583
IAH1	-0.11571	-0.03939	-0.17194	0.146815	0.391385	0.773197	0.200917	0.275807	0.016336	0.146429	-0.13299	0.090435	0.542904	0.834237	0.191903	0.724981
FLJ33534	0.164047	0.140216	0.087805	0.052411	0.222704	0.302675	0.516024	0.698611	0.15034	-0.00902	0.219223	0.123795	0.837871	0.476563	0.923606	0.791086
C2orf58	0.221103	0.181648	0.049072	-0.00827	0.101504	0.184421	0.71948	0.951767	0.190579	0.094269	0.083495	-0.06922	0.897719	0.733409	0.707224	0.323806
TRDV2	-0.10012	0.050269	-0.09343	-0.06977	0.462851	0.715504	0.49341	0.609356	-0.13846	-0.25923	0.120098	-0.16594	0.179389	0.040956	0.784015	0.135195
FAM126B	0.015802	0.271109	-0.20549	0.236448	0.907126	0.043273	0.125162	0.076594	0.110263	0.274869	-0.13526	0.153245	0.767148	0.967752	0.187841	0.84537
C2orf21	0.078913	-0.13717	0.255204	-0.2651	0.559561	0.313406	0.055375	0.046269	0.092542	-0.336	0.127093	-0.27431	0.729629	0.011215	0.797283	0.03253
RUFY4	-0.00544	-0.15713	0.224125	-0.04905	0.96827	0.251934	0.096799	0.719589	0.123445	-0.22844	0.232432	-0.05282	0.793131	0.063385	0.937787	0.363675
DUSP28	-0.10127	0.08673	0.055648	-0.20686	0.453512	0.525046	0.680967	0.122616	-0.08895	0.081314	0.002957	-0.07883	0.278324	0.704438	0.507689	0.301268
SLC9A9	0.112691	0.241882	-0.19018	0.170009	0.403938	0.07249	0.156497	0.206111	0.101761	0.386642	-0.03122	0.355814	0.749504	0.996026	0.419333	0.992385
GPER	0.199674	-0.31369	0.388996	-0.17508	0.136448	0.018558	0.002785	0.192703	0.272656	-0.374	0.360865	-0.2141	0.966618	0.005226	0.992561	0.076539
C3orf64	0.116493	0.145246	-0.15644	0.354031	0.388157	0.285482	0.245181	0.006897	0.214188	0.282862	-0.09026	0.204768	0.92355	0.971595	0.277713	0.913889
EPHA6	0.06551	-0.29042	-0.04975	-0.22023	0.63145	0.031478	0.715777	0.102895	0.000786	-0.46409	0.093531	-0.24005	0.502069	0.00058	0.729437	0.054042
FBXW12	-0.01454	-0.20653	0.170151	-0.21245	0.915304	0.130311	0.209937	0.115953	-0.0331	-0.42935	0.125353	-0.34201	0.413564	0.001453	0.794027	0.009997
C3orf38	0.011572	0.247162	-0.24145	0.205004	0.931915	0.066286	0.070386	0.126077	-0.04442	0.443564	-0.15809	0.307476	0.384708	0.998991	0.14982	0.981176
HTR3E	0.037252	0.145551	0.235543	-0.04486	0.78323	0.284463	0.077762	0.740397	0.215711	-0.32603	0.134258	-0.27786	0.925035	0.013512	0.810374	0.030765
TRDC	-0.14715	-0.14931	0.065227	0.06813	0.274699	0.272072	0.629768	0.614572	-0.187	-0.37189	-0.0764	-0.32339	0.109339	0.005944	0.311033	0.01512
LOC100133	0.071223	-0.04363	0.107023	-0.13347	0.601933	0.751782	0.432404	0.32676	0.235424	-0.16472	0.135133	-0.17141	0.942373	0.136992	0.811937	0.127343
ZNF619	0.018632	0.012262	-0.03787	0.065819	0.890586	0.928532	0.779737	0.626654	-0.00959	0.438827	-0.0503	0.222791	0.47508	0.998717	0.372883	0.929359
ZNF621	0.001396	0.176585	0.012902	0.208363	0.991777	0.192952	0.924115	0.119855	0.171891	0.144707	0.179141	0.161695	0.873328	0.831347	0.880492	0.858493
RABL3	-0.05481	0.16522	-0.30483	0.115597	0.685492	0.223646	0.021134	0.391844	-0.08079	0.426133	-0.15122	0.379813	0.296762	0.998426	0.160702	0.995386
FRG2C	-0.02864	-0.33375	-0.0298	-0.30371	0.832506	0.011944	0.825817	0.021637	0.046602	-0.43978	0.011087	-0.31155	0.620783	0.001114	0.528812	0.017531

GPR31	0.055649	-0.09662	0.324362	-0.26342	0.680959	0.478686	0.013833	0.047723	0.116155	-0.40076	0.249729	-0.37434	0.778973	0.00289	0.950979	0.005189
C3orf56	0.099199	-0.23859	0.227969	-0.22998	0.466984	0.079398	0.091063	0.088169	0.068141	-0.3668	0.173559	-0.32271	0.67363	0.006081	0.872895	0.014358
IGSF10	0.008298	-0.17004	-0.03675	-0.31665	0.951151	0.210231	0.786067	0.016405	-0.26599	-0.27371	-0.07146	-0.16084	0.038693	0.034431	0.32241	0.145601
C3orf33	0.231738	-0.06232	0.204797	0.144282	0.082826	0.648167	0.126469	0.284265	0.177985	-0.14216	0.188729	-0.00668	0.881676	0.17299	0.892808	0.482418
C3orf53	0.052089	-0.29185	0.14525	-0.35986	0.700377	0.029072	0.281012	0.005969	0.072446	-0.44162	0.191887	-0.54793	0.683839	0.001062	0.896663	4.05E-05
CCDC66	-0.06963	-0.05198	-0.07238	-0.22701	0.606784	0.703619	0.592592	0.089482	0.007016	-0.36373	-0.01794	-0.32441	0.518455	0.006481	0.453433	0.013919
SLC9A10	0.24735	-0.23731	0.200627	-0.29872	0.063593	0.078222	0.134549	0.024002	0.066518	-0.38335	0.118191	-0.35107	0.667907	0.00467	0.777597	0.009024
C3orf23	-0.08197	0.328069	-0.20022	0.04701	0.544382	0.013572	0.135366	0.728406	-0.02893	0.491492	-0.11723	0.335125	0.424324	0.999738	0.221573	0.988596
ZNF852	0.070233	0.038766	0.049014	0.174145	0.603663	0.77667	0.7173	0.195125	0.090016	0.086955	0.007579	0.116296	0.72175	0.714975	0.519471	0.776604
ZNF660	0.210804	-0.18169	0.155254	-0.04045	0.115483	0.180199	0.248836	0.765136	0.055559	-0.09846	-0.04361	-0.07548	0.643091	0.257518	0.388041	0.309037
SUMF1	-0.24128	0.034722	-0.44914	0.037723	0.070589	0.799453	0.000457	0.780557	-0.38486	0.471864	-0.16283	0.273146	0.004133	0.999534	0.1426	0.966872
RPUSD3	-0.05206	0.199269	0.024791	0.152383	0.703189	0.144689	0.856081	0.262214	-0.09086	0.500834	-0.1769	0.232805	0.27408	0.999804	0.122526	0.940263
PRRT3	-0.17995	-0.1422	0.163426	-0.31255	0.180426	0.295802	0.224485	0.01793	-0.20025	-0.30441	0.088103	-0.22711	0.091041	0.019848	0.717525	0.064526
DPH3	-0.07728	0.349027	-0.23703	-0.03674	0.56772	0.008378	0.075856	0.786155	-0.08744	0.111482	-0.18781	-0.02082	0.281684	0.769622	0.108332	0.44539
C3orf70	0.431387	-0.14739	0.298687	-0.08468	0.000807	0.27835	0.024016	0.531131	0.544652	-0.51754	0.34742	-0.36047	0.999954	0.000115	0.990315	0.006929
TPRG1	0.095645	0.24588	-0.10909	0.087402	0.483175	0.070373	0.423536	0.521827	-0.03257	0.500073	-0.17928	0.313172	0.415901	0.999765	0.119323	0.981902
GPR32	0.074265	-0.17007	0.182177	-0.14472	0.582988	0.210153	0.175	0.282802	0.041393	-0.36294	0.162831	-0.26788	0.607624	0.006587	0.857402	0.035939
WDR21B	-0.03083	-0.27704	0.298455	-0.0399	0.819904	0.038729	0.024132	0.76824	0.052966	-0.31099	-0.08335	-0.24557	0.63516	0.018791	0.295311	0.051979
CYP4V2	0.101343	-0.04652	-0.06122	0.098816	0.45319	0.733488	0.650974	0.464593	0.254183	0.006897	0.231102	0.177104	0.955868	0.518141	0.936671	0.880493
LOC285453	-0.15692	0.283135	-0.27794	0.020349	0.243722	0.034474	0.036315	0.88057	-0.08559	0.229102	-0.16425	0.312818	0.285841	0.937182	0.140486	0.982857
LOC285456	-0.20233	-0.08491	0.000975	-0.22082	0.131208	0.533808	0.994256	0.09881	-0.11201	-0.31978	0.088117	-0.03892	0.229312	0.015141	0.717556	0.39867
CRIPAK	-0.22994	-0.02282	-0.21003	0.212438	0.088222	0.868656	0.120263	0.115977	-0.1378	0.350379	-0.10727	0.073158	0.180549	0.991511	0.241528	0.685514
DOK7	-0.00295	-0.2193	0.268264	-0.12883	0.982604	0.104399	0.04363	0.339533	0.17037	-0.3326	0.130029	-0.30823	0.871184	0.01196	0.802708	0.01858
FLJ35424	0.048056	-0.05693	0.196803	-0.09348	0.722602	0.67688	0.142292	0.48915	0.003564	-0.18466	0.166018	0.019137	0.509378	0.109625	0.862127	0.550226
RNF212	0.092258	0.162375	-0.00596	0.008518	0.494884	0.231833	0.9649	0.949858	-0.13913	0.196399	-0.09061	0.148393	0.178232	0.904592	0.276948	0.837495
GPRIN3	0.014189	-0.18646	0.141454	0.586598	0.916567	0.16882	0.293908	1.63E-06	-0.08487	-0.15175	0.217326	0.158584	0.289678	0.159849	0.92177	0.850942
COX18	0.12664	0.160691	-0.05068	0.311351	0.347878	0.236775	0.708118	0.018398	-0.16929	0.412674	-0.16712	0.464381	0.130358	0.997815	0.136258	0.999425
YIPF7	0.096066	0.048301	0.259691	-0.35408	0.48124	0.726198	0.053258	0.007422	0.150998	-0.20573	0.177319	-0.26115	0.841754	0.085084	0.878048	0.0398
FRYL	0.011387	0.219051	-0.20054	0.283359	0.933005	0.104798	0.134713	0.032687	0.146979	0.347153	-0.03175	0.349263	0.835154	0.990954	0.417997	0.991322
RNF175	0.123358	0.300922	-0.08693	0.001108	0.360614	0.02422	0.520253	0.993474	0.194565	0.044291	0.043246	0.069753	0.902462	0.614962	0.611055	0.677468
LOC28555C	-0.14788	0.228847	-0.2449	0.152315	0.272304	0.08979	0.066354	0.258017	-0.06237	0.386577	-0.05986	0.241563	0.34025	0.99602	0.348043	0.947096
C4orf37	-0.05561	-0.01283	0.153313	-0.09995	0.683965	0.925953	0.259279	0.463602	-0.10793	-0.35603	0.002603	-0.342	0.237616	0.007583	0.506769	0.01
TRBV28	-0.07714	-0.20569	0.08313	-0.03647	0.568458	0.128301	0.538699	0.787687	0.005963	-0.12321	0.247319	-0.1725	0.515687	0.207323	0.949283	0.125815
SH3PXD2B	-0.10493	0.223638	-0.00597	0.303184	0.437258	0.097547	0.96482	0.021875	-0.04524	0.500933	-0.33274	0.351639	0.382643	0.999804	0.012763	0.991721
ARL10	0.131838	-0.10373	0.10716	0.000504	0.328281	0.446779	0.427543	0.997031	0.118769	-0.00688	-0.00229	0.048075	0.78411	0.481913	0.494039	0.624481
TRBV27	-0.11368	-0.0679	0.045415	0.209486	0.399808	0.61902	0.737286	0.117828	0.058241	-0.0479	0.173353	-0.03516	0.649684	0.375958	0.872609	0.40829
C5orf36	-0.14026	-0.02474	-0.08016	-0.14779	0.29804	0.856382	0.553335	0.272597	-0.17545	-0.1719	-0.01516	-0.11494	0.121746	0.126654	0.460626	0.223431
GPR150	-0.04906	-0.14017	0.17772	-0.11689	0.71952	0.302847	0.190062	0.390936	0.11799	-0.50559	0.214873	-0.51962	0.779922	0.000198	0.919348	0.000127
DTWD2	-0.10287	0.374393	-0.30969	0.064877	0.446386	0.004473	0.019065	0.631609	-0.19998	0.530809	-0.27957	0.188105	0.091351	0.999926	0.031446	0.894695
RELL2	-0.02851	0.025448	0.167701	-0.14953	0.834782	0.853681	0.216673	0.271343	0.107686	-0.26555	0.268287	-0.20072	0.761872	0.03724	0.962618	0.090524
TRBV25-1	-0.08399	-0.17019	-0.04936	-0.04715	0.53447	0.209834	0.715411	0.727617	0.007744	-0.12197	0.09278	-0.09844	0.520134	0.212383	0.725418	0.26001
NBPF22P	0.046992	-0.24782	0.083727	-0.1446	0.730909	0.065549	0.539542	0.287644	0.201326	-0.44363	0.329948	-0.32418	0.910148	0.001007	0.986567	0.013977
C5orf51	0.012184	0.330058	-0.1499	0.086295	0.928325	0.012982	0.265734	0.523298	0.13273	0.257671	-0.06726	0.192068	0.810392	0.958081	0.330333	0.89951
SLC36A3	-0.01522	-0.16285	0.29702	-0.1766	0.910544	0.230453	0.024854	0.188807	-0.00058	-0.43017	0.104901	-0.31664	0.498467	0.001423	0.753578	0.016017
KIF4B	-0.09677	0.003917	-0.03835	-0.19634	0.473926	0.977146	0.777021	0.143245	-0.18548	0.079832	-0.09415	-0.05547	0.108586	0.701038	0.269227	0.35712
OR2V2	-0.03913	0.042779	-0.05328	-0.20499	0.772614	0.754239	0.693879	0.126108	0.199918	-0.30528	0.127438	-0.35671	0.908585	0.019555	0.797924	0.007479
FLJ37543	0.061373	-0.12422	0.243263	-0.11288	0.653186	0.366195	0.070824	0.407505	0.024834	-0.33668	0.069928	-0.26977	0.565064	0.011072	0.675967	0.03491
RNF180	0.191972	-0.0255	0.118088	0.131767	0.152548	0.852034	0.381648	0.328544	0.405041	-0.25058	0.173282	-0.07971	0.997383	0.04651	0.87251	0.29925
SFRS12IP1	-0.00955	0.250703	-0.18415	0.153404	0.943803	0.06237	0.170288	0.25459	-0.15616	0.38486	-0.11199	0.307253	0.150017	0.995867	0.231952	0.981103
ZNF454	0.069598	-0.21924	0.134673	-0.3275	0.610266	0.107786	0.322376	0.013744	0.103685	-0.50322	0.199595	-0.22051	0.753557	0.000182	0.905664	0.070425

TRBV19	-0.03683	0.137158	0.183703	0.00842	0.789525	0.322662	0.17942	0.951348	0.095895	-0.15331	0.064994	-0.1562	0.736944	0.154522	0.664281	0.149956
LOC285696	-0.27877	-0.04625	0.074203	-0.1962	0.035743	0.735006	0.583302	0.143554	0.128237	-0.3926	0.029484	-0.42938	0.799408	0.00382	0.575341	0.001623
LOC285697	-0.07654	-0.17889	0.089205	-0.23037	0.575027	0.191298	0.513242	0.087622	0.207981	-0.30761	0.205899	-0.33664	0.917279	0.018779	0.912599	0.011081
GPR34	-0.14076	-0.18673	-0.019	0.251526	0.300768	0.172245	0.889444	0.061487	-0.33139	-0.01798	-0.07188	0.244437	0.012234	0.452791	0.319443	0.949202
RGMB	0.205428	0.195924	0.304044	0.120885	0.125279	0.147852	0.021485	0.370397	0.137831	0.212965	-0.03174	0.027617	0.819499	0.922343	0.418	0.572282
LOC285735	-0.07787	-0.28654	0.003348	-0.16691	0.564761	0.032275	0.980282	0.214623	-0.32391	-0.32788	-0.00118	-0.25352	0.014048	0.013059	0.496943	0.04456
C6orf182	0.119606	0.057428	0.017476	0.080503	0.375518	0.674189	0.897338	0.551653	-0.04568	0.152282	0.216451	0.091451	0.381536	0.843827	0.923373	0.727228
FLJ37396	-0.04494	-0.02099	0.113467	-0.25954	0.739918	0.877967	0.400685	0.051219	-0.1935	-0.18771	0.048619	-0.17341	0.098794	0.105797	0.624439	0.124558
PPIL6	-0.06641	-0.13839	0.016647	-0.13697	0.623544	0.309092	0.902181	0.30965	-0.14491	-0.24462	0.094344	-0.13474	0.168307	0.050664	0.731201	0.18599
FLJ34503	0.108884	-0.13961	0.387925	0.086075	0.424399	0.30936	0.003136	0.528192	0.038767	-0.38145	0.185697	-0.18968	0.600943	0.004453	0.889013	0.103374
DCBLD1	0.009893	0.378312	-0.09651	0.306645	0.942313	0.004401	0.479212	0.021525	0.034975	0.601357	-0.26036	0.434036	0.591247	0.999995	0.042051	0.99871
CAGE1	-0.00659	-0.14444	0.088194	-0.28136	0.96122	0.288177	0.514163	0.033987	-0.07862	-0.43351	0.057261	-0.31122	0.301764	0.001308	0.645655	0.017631
PRR18	-0.0463	-0.14292	0.243256	-0.35573	0.732373	0.293344	0.06825	0.006614	0.108834	-0.54327	0.213881	-0.40145	0.76423	4.78E-05	0.920843	0.002844
RP3-377H1	-0.05355	-0.03338	0.224094	-0.09499	0.692405	0.807046	0.093781	0.482136	0.093763	-0.18472	0.178682	-0.12803	0.732305	0.10954	0.87988	0.198237
PNPLA1	0.081966	0.09167	0.169267	-0.23732	0.544421	0.501624	0.208129	0.075488	0.038227	-0.21175	0.145144	-0.23435	0.599565	0.078874	0.829276	0.058483
TREML4	0.124727	-0.19854	0.426339	-0.19434	0.359718	0.146199	0.001052	0.151228	0.164601	-0.29016	0.267885	-0.239	0.862832	0.025227	0.962391	0.054839
DKFZp564N	0.145874	-0.20174	0.427063	-0.03491	0.278928	0.135962	0.000923	0.796545	0.16603	-0.39296	0.191936	-0.34724	0.864933	0.003452	0.896723	0.00903
CNPY1	-0.03947	-0.23569	0.137442	-0.20109	0.770687	0.080344	0.307955	0.133637	0.046484	-0.36977	0.216331	-0.3743	0.620487	0.005715	0.923256	0.005194
TRBV7-9	0.019517	-0.15708	0.064647	-0.12148	0.885422	0.24763	0.632823	0.36804	0.053875	-0.11274	0.164934	0.0082	0.63893	0.227839	0.860531	0.521567
GPR35	-0.21379	-0.07185	0.140711	0.043694	0.110294	0.598745	0.296478	0.746898	-0.24963	-0.17113	-0.02232	-0.15093	0.049089	0.130504	0.442817	0.161171
LOC285908	-0.10983	0.004347	0.071475	-0.21391	0.416051	0.974636	0.59726	0.110098	-0.15003	-0.09876	-0.11021	-0.16847	0.159823	0.256872	0.235548	0.131525
LOC285943	0.181902	-0.17063	0.304804	-0.08952	0.175663	0.208631	0.021145	0.507815	0.046701	-0.22196	0.193522	-0.07336	0.621033	0.069101	0.898622	0.314004
SPDYE1	-0.1332	-0.22386	-0.01745	-0.16412	0.323261	0.097207	0.897505	0.222507	-0.10543	-0.06297	-0.10908	-0.02394	0.242793	0.338788	0.23784	0.437258
ZNF775	0.007343	-0.1973	0.29276	-0.18901	0.956769	0.14497	0.027106	0.159089	0.073715	-0.44196	0.196676	-0.34025	0.686823	0.001052	0.902324	0.010341
ATG9B	-0.03992	-0.13462	0.205432	-0.3958	0.770228	0.327143	0.12879	0.002532	-0.15369	-0.36183	-0.00887	-0.4335	0.153925	0.006739	0.476954	0.001308
ZNF789	-0.05971	0.059507	-0.06803	-0.14498	0.659039	0.663091	0.615104	0.281918	-0.06716	-0.01174	-0.15663	-0.05377	0.32872	0.46915	0.152093	0.361334
ANK1	0.096532	-0.13376	0.186259	-0.06463	0.475025	0.325706	0.165368	0.632893	0.120791	-0.31822	0.156233	-0.24551	0.78535	0.016571	0.844407	0.05202
C7orf53	-0.04658	0.261884	-0.17204	0.087775	0.730793	0.051207	0.200671	0.516171	0.265631	-0.0569	0.06104	-0.20736	0.962806	0.353598	0.654802	0.083368
tcag7.1015	-0.25646	0.091176	0.025264	-0.14155	0.054142	0.50394	0.852017	0.293573	-0.149	0.03614	0.060498	-0.13733	0.161513	0.594233	0.653496	0.18139
FLJ40288	-0.18798	0.000949	-0.05963	-0.03149	0.161431	0.994464	0.659468	0.816104	0.040327	-0.15684	-0.10655	-0.01959	0.604916	0.148954	0.243014	0.448587
hCG_19905	-0.17244	-0.15029	0.087989	-0.29046	0.199604	0.268912	0.515144	0.028389	-0.03672	-0.28752	0.320948	-0.32765	0.40538	0.02774	0.983173	0.014006
XKR6	-0.18237	-0.03603	0.051508	0.0656	0.17853	0.792063	0.706169	0.630979	-0.08905	-0.23451	0.121581	0.042294	0.278087	0.058358	0.786867	0.609908
NSMCE2	0.015018	0.208542	-0.33019	0.110867	0.911711	0.122976	0.012127	0.411635	0.057742	0.345192	-0.00868	0.163664	0.648459	0.990601	0.477428	0.861443
ZNF707	-0.10546	-0.1821	0.08711	-0.10929	0.434961	0.179199	0.519366	0.418344	-0.16054	-0.0059	-0.05209	-0.05882	0.143252	0.484473	0.367	0.348896
BREA2	-0.06948	0.093212	-0.01274	-0.05494	0.607543	0.494422	0.925064	0.684817	0.103467	-0.0393	0.174621	-0.15051	0.753099	0.397705	0.874365	0.159031
FAM83H	-0.02235	0.243201	-0.08804	-0.19739	0.868908	0.070898	0.514896	0.141086	-0.12336	0.448232	-0.15619	0.170584	0.207024	0.999108	0.152784	0.871488
EFHA2	0.181182	-0.02174	0.124397	0.131469	0.177407	0.873665	0.356551	0.32965	0.261235	-0.29967	0.293521	-0.19015	0.960252	0.021521	0.974823	0.102801
GPR37	0.027565	0.062632	0.009447	0.063836	0.840181	0.649635	0.944911	0.640206	0.078239	0.170061	0.068829	0.106524	0.697363	0.870745	0.673377	0.759473
ZNF252	-0.04046	0.269246	-0.11516	0.169097	0.767165	0.046835	0.39802	0.212815	-0.08136	0.490027	-0.09945	0.361821	0.295452	0.999727	0.257846	0.993259
TMED10P	-0.01155	0.141855	-0.00113	-0.03506	0.932043	0.297	0.993332	0.795726	-0.03201	0.013375	-0.10583	-0.16745	0.416366	0.53515	0.244498	0.132993
C8orf77	-0.15731	-0.16742	0.088685	0.001612	0.242558	0.217454	0.511813	0.990507	-0.0815	-0.20476	-0.18702	-0.26497	0.297278	0.088626	0.112069	0.039283
C8orf31	-0.12875	-0.2921	0.171102	-0.19506	0.339821	0.028927	0.203167	0.145935	0.129033	-0.18059	0.229769	-0.18727	0.803625	0.114878	0.935538	0.106337
ZFP41	-0.00584	-0.26487	0.062748	-0.34874	0.965633	0.048521	0.642862	0.007846	-0.11709	-0.26566	-0.025	-0.14902	0.219183	0.037179	0.43526	0.161476
SCARA5	0.25677	-0.3132	0.213183	0.25661	0.056092	0.019894	0.114674	0.056251	0.177406	-0.08169	0.15907	-0.03764	0.878165	0.296866	0.848814	0.403056
TRBV5-1	0.032734	-0.10661	0.205465	-0.15398	0.80899	0.434178	0.125209	0.252786	0.253716	-0.46418	0.269754	-0.35858	0.955565	0.000578	0.963436	0.007201
RNF5P1	0.017911	0.031947	0.136004	-0.21282	0.895758	0.816892	0.31757	0.11531	-0.01164	-0.20884	0.088929	-0.20222	0.46939	0.08183	0.719352	0.088866
DPY19L4	-0.02574	0.250926	-0.23229	0.160315	0.84924	0.062129	0.082081	0.233551	-0.01938	0.331817	-0.21194	0.336763	0.449146	0.987864	0.081107	0.988945
FBXO43	-0.00028	-0.01709	0.126398	-0.29876	0.998376	0.900525	0.348806	0.02398	0.02439	-0.22522	0.027342	-0.15064	0.563912	0.066178	0.570752	0.158833
NKAIN3	0.046097	-0.23202	0.115878	0.028837	0.735845	0.088282	0.395067	0.832909	0.223808	-0.44483	0.147855	-0.29622	0.932569	0.000976	0.833795	0.022811
LRR67	-0.09269	-0.09797	-0.03164	-0.2409	0.492845	0.47254	0.815236	0.071047	-0.22032	-0.22705	0.049295	-0.09911	0.070608	0.064575	0.626111	0.256134

MLNR	0.012347	0.073223	0.11366	-0.1175	0.928038	0.595227	0.404236	0.388433	0.063751	-0.16965	0.151995	-0.27248	0.663089	0.129837	0.840551	0.033476
CRB2	0.008674	-0.20204	0.222533	-0.17746	0.94894	0.135365	0.096152	0.186617	0.094561	-0.25108	0.215976	-0.28524	0.734046	0.046173	0.92291	0.027336
C9orf126	0.070052	0.115654	-0.17117	-0.05692	0.604597	0.395988	0.202979	0.67408	-0.04024	0.111483	-0.00018	0.025073	0.395299	0.769624	0.499536	0.565684
C9orf117	-0.14649	-0.2502	0.091207	-0.26437	0.276871	0.06292	0.499834	0.046899	-0.11548	-0.40017	0.102723	-0.30566	0.222355	0.002929	0.749042	0.019425
C9orf47	0.062571	-0.19833	0.158064	-0.1436	0.643802	0.142845	0.240266	0.286557	0.006047	-0.54127	-0.02853	-0.37445	0.515908	5.13E-05	0.4262	0.005177
C9orf79	-0.11188	-0.14551	0.090244	-0.1743	0.40735	0.284593	0.504393	0.194716	-0.01817	-0.2807	0.043976	-0.22231	0.452295	0.029409	0.612881	0.068782
LCN12	0.060049	-0.05492	0.194045	-0.31249	0.657246	0.687675	0.148083	0.017955	0.037852	-0.14257	0.242062	-0.40826	0.59861	0.172289	0.945426	0.002426
C9orf142	-0.05214	-0.1234	0.190568	-0.02842	0.700079	0.364876	0.155628	0.833769	0.029893	-0.2632	0.132242	-0.19007	0.578168	0.03859	0.806743	0.102896
C9orf75	-0.06121	-0.00134	0.089677	-0.20723	0.651021	0.992161	0.507085	0.121923	-0.08905	-0.02629	-0.04834	-0.16399	0.278097	0.431169	0.376255	0.138077
GPR39	-0.0738	0.264866	-0.09267	-0.25256	0.585358	0.048523	0.492934	0.058042	-0.46269	0.359644	-0.06538	0.166107	0.000603	0.992953	0.334802	0.865046
LCN1L1	0.225993	0.049731	0.180629	0.033632	0.093978	0.718421	0.182793	0.805625	-0.19926	-0.02733	0.058711	-0.06773	0.094719	0.429273	0.647492	0.329229
TUSC1	0.008178	-0.19733	0.160256	-0.00665	0.951855	0.144901	0.233727	0.960817	0.136345	-0.37561	0.087737	-0.23815	0.816875	0.00505	0.716712	0.055489
FAM78A	-0.11425	-0.13116	0.179639	0.490798	0.397423	0.335279	0.181188	0.000106	-0.03572	-0.28273	0.171789	0.021917	0.406844	0.028466	0.870421	0.557478
C9orf150	0.052747	0.046018	-0.00185	0.334999	0.696774	0.736282	0.989084	0.010859	0.185979	0.231531	0.020615	0.055659	0.892047	0.939216	0.553463	0.643337
hCG_2045C	0.094806	-0.19006	0.283629	-0.27355	0.482996	0.160617	0.032514	0.0395	-0.08806	-0.30673	0.001676	-0.19544	0.280304	0.019071	0.50436	0.096518
OR13C9	-0.15417	-0.0315	-0.05735	-0.37358	0.252194	0.817716	0.671733	0.004204	-0.0006	-0.3604	0.094427	-0.38123	0.498422	0.006939	0.731379	0.004474
OR13D1	-0.02117	-0.14961	0.06518	-0.18697	0.875777	0.271109	0.630014	0.163724	-0.18758	-0.26137	0.032694	-0.19636	0.105951	0.03967	0.584415	0.095451
FFAR1	-0.10308	-0.1062	0.12886	-0.2603	0.445443	0.435969	0.339423	0.050516	0.164322	-0.35184	0.129454	-0.31939	0.862419	0.008246	0.801653	0.015247
ATP11C	0.11996	0.036064	-0.09931	0.30174	0.374096	0.791872	0.462329	0.022545	0.216387	0.137598	0.091476	0.294087	0.925686	0.819089	0.724957	0.976362
H2BFM	0.036404	-0.19534	0.27048	-0.19832	0.788049	0.149082	0.041857	0.139186	0.080079	-0.34648	0.154158	-0.27242	0.701606	0.009166	0.844012	0.033507
YIPF6	-0.0055	0.051197	-0.14615	0.10589	0.967588	0.707864	0.278016	0.433071	-0.15715	0.20822	-0.18299	0.154667	0.148467	0.917527	0.114449	0.84763
CXorf59	-0.09741	-0.12077	0.03993	-0.17952	0.47101	0.375267	0.768068	0.181487	-0.10183	-0.27711	0.097355	-0.21238	0.250355	0.031131	0.73768	0.078243
FAM133A	0.068625	-0.15512	0.118555	-0.32752	0.611998	0.253654	0.379756	0.012885	-0.09434	-0.38623	0.121134	-0.30779	0.266429	0.004011	0.786009	0.018722
MAGEB18	0.150802	-0.20506	0.237084	-0.22732	0.262832	0.129504	0.075782	0.089022	0.094058	-0.3899	0.181555	-0.28928	0.732948	0.003697	0.883681	0.025594
TMSB15B	-0.00033	0.106903	-0.08935	0.145479	0.998048	0.432925	0.508622	0.280245	-0.07098	0.029005	-0.17436	-0.12869	0.319622	0.575874	0.12599	0.197005
LOC286528	-0.14472	0.011551	0.153397	-0.20328	0.287257	0.933293	0.259014	0.13294	0.029334	-0.3218	-0.11177	-0.21843	0.576723	0.014597	0.232406	0.07237
TRAV29DV	-0.06555	0.039327	0.129471	0.028913	0.628091	0.773524	0.337118	0.830939	-0.06833	-0.09557	0.196148	0.092092	0.325928	0.263764	0.901711	0.72864
TRAV27	-0.04754	-0.06211	0.062444	-0.05908	0.72549	0.649286	0.644479	0.662442	0.03322	-0.13076	-0.1022	-0.09325	0.586742	0.193188	0.252049	0.268811
BCORL2	0.112797	-0.20186	0.218754	-0.13482	0.403491	0.135712	0.102084	0.317356	0.032875	-0.31021	0.037703	-0.40434	0.585855	0.017948	0.597117	0.00266
TRAV26-1	-0.13953	-0.10132	-0.08083	0.004082	0.305065	0.46168	0.55371	0.976178	0.084093	-0.11957	0.102346	-0.18901	0.710769	0.214321	0.748251	0.104187
TRAV19	-0.16307	-0.11509	-0.08545	0.362427	0.229812	0.402759	0.531208	0.006051	-0.18749	-0.15077	-0.13136	0.009304	0.106068	0.158623	0.194856	0.524465
TRAV17	0.082943	0.152565	-0.1436	0.068806	0.539618	0.261639	0.286584	0.611057	0.032675	0.312869	-0.04441	0.071709	0.585339	0.982872	0.386027	0.682101
ILDR1	-0.32603	0.302462	-0.25717	0.037285	0.013324	0.023468	0.053459	0.783046	-0.32241	0.631451	-0.20308	0.364909	0.014435	0.999999	0.090459	0.993675
TRAV14DV	-0.15573	0.045579	-0.21292	0.032678	0.247378	0.738707	0.11179	0.809315	-0.09193	0.052459	-0.09392	0.171766	0.271709	0.63542	0.269728	0.873153
FFAR2	-0.18266	-0.27572	0.071193	-0.19505	0.181938	0.043592	0.605498	0.153574	-0.28529	-0.44042	-0.05165	-0.45673	0.028742	0.001232	0.36959	0.000806
TRAV13-2	-0.05116	0.009131	0.023538	0.281671	0.705463	0.94675	0.862027	0.033784	0.10722	-0.05125	0.226887	-0.03687	0.760912	0.367599	0.933037	0.403898
TRAV12-2	0.016198	-0.13735	0.162984	0.078736	0.90481	0.312776	0.225757	0.560447	0.009459	-0.15245	0.091111	-0.14802	0.524874	0.155902	0.724155	0.163128
STON1-GTF	0.171598	0.005183	0.030262	0.265489	0.206028	0.970044	0.824778	0.047977	0.255182	-0.13629	0.231202	0.055541	0.956511	0.18323	0.936755	0.643046
TUSC5	-0.09913	-0.06228	0.170219	-0.23572	0.463157	0.648379	0.205542	0.077535	0.046857	-0.35478	0.194287	-0.40505	0.621425	0.007775	0.899528	0.002616
TRAV10	-0.20785	-0.06853	0.048947	-0.16676	0.120786	0.61579	0.717673	0.215041	-0.26465	-0.25366	-0.02299	-0.14356	0.037754	0.044474	0.440423	0.170599
TRAV9-2	0.212906	-0.04323	0.115627	-0.0478	0.111817	0.751748	0.391721	0.72401	0.052274	-0.02769	0.204439	0.037584	0.63496	0.427522	0.911027	0.597925
GRK4	0.149927	-0.30495	0.169525	-0.10483	0.265642	0.022296	0.207424	0.437696	0.336004	-0.44809	0.218693	-0.39255	0.988785	0.000896	0.925531	0.003484
LIN9	0.035522	0.110283	-0.24204	0.04389	0.796816	0.42727	0.075018	0.750354	-0.14419	0.424337	-0.07441	0.271105	0.169519	0.998354	0.313571	0.965804
TRIM59	0.039663	0.408797	-0.29546	0.10893	0.769576	0.00176	0.025658	0.419903	0.032658	0.567678	-0.14384	0.406474	0.585295	0.999981	0.172918	0.997469
CSN1S2A	-0.02103	-0.21947	-0.00693	-0.00967	0.876617	0.104111	0.959198	0.94308	0.064534	-0.22153	-0.09435	-0.05029	0.663182	0.071801	0.271192	0.371441
TRAV8-3	-0.11244	-0.20053	0.073832	-0.05835	0.409337	0.142105	0.588657	0.669279	-0.15677	-0.05628	-0.00265	-0.08505	0.149066	0.35514	0.493114	0.287074
TRAV5	-0.1578	-0.18681	-0.02005	0.346898	0.241049	0.168029	0.882306	0.008202	-0.20428	0.234906	-0.07927	0.254543	0.086632	0.94196	0.302365	0.956101
GRK5	0.236642	-0.04687	0.219402	0.439928	0.079095	0.733989	0.10423	0.000692	0.485551	-0.19028	0.290206	-0.03844	0.999687	0.102646	0.973433	0.399886
ANK2	0.316382	-0.11262	0.077623	0.192288	0.0165	0.4086	0.566017	0.151861	0.349733	-0.21712	0.407355	-0.02856	0.991402	0.073612	0.997259	0.425278
GRK6	-0.03688	-0.09313	0.000462	0.234321	0.785359	0.49482	0.997281	0.07936	-0.08575	0.313877	-0.01682	0.177654	0.285479	0.983175	0.456346	0.881233

TRIM42	0.086432	-0.19509	0.105826	-0.24776	0.526473	0.153476	0.437599	0.065608	0.158853	-0.37877	0.118741	-0.32087	0.854163	0.004719	0.781385	0.014844
TRAJ41	-0.07561	-0.22746	-0.09894	0.337371	0.576175	0.091807	0.46403	0.010276	-0.16838	-0.09449	-0.07174	0.109918	0.131657	0.266113	0.319792	0.766446
MKNK2	0.020554	0.012157	-0.02505	-0.09331	0.87938	0.929139	0.853284	0.489939	0.032813	0.238531	-0.17874	-0.01341	0.585694	0.944802	0.12004	0.464751
GPS1	-0.00199	-0.00493	0.030637	-0.01095	0.988411	0.971514	0.822641	0.936176	-0.05144	0.202943	-0.03892	-0.06896	0.368598	0.909394	0.400985	0.326313
GPS2	-0.12351	0.230274	-0.04383	0.075863	0.360008	0.087753	0.74614	0.574886	0.093237	0.116084	0.082321	-0.04354	0.731154	0.778832	0.704573	0.386928
GPT	0.016276	-0.12089	0.149113	-0.13846	0.905226	0.374804	0.272712	0.308822	0.349692	-0.45405	0.290453	-0.42828	0.991395	0.000763	0.973538	0.001492
TRAC	-0.10426	-0.02992	-0.04402	0.678449	0.444446	0.828339	0.747335	9.16E-09	-0.32864	-0.0805	-0.06047	0.266047	0.013756	0.299549	0.348301	0.961341
GPX1	0.079957	0.140734	-0.00671	0.052841	0.55802	0.305433	0.960855	0.698922	0.063999	0.11119	-0.125	0.00201	0.663689	0.769032	0.206642	0.505288
GPX2	-0.11559	0.547226	-0.29533	-0.16308	0.391884	1.28E-05	0.025725	0.225494	-0.2499	0.681699	-0.3041	0.406693	0.046969	1	0.021131	0.997482
IGLV9-49	0.052076	-0.03249	0.033074	0.293294	0.700449	0.812115	0.807048	0.026814	0.21787	-0.09979	0.094337	-0.06508	0.927102	0.254674	0.731185	0.333713
IGLV7-46	-0.00977	-0.0031	0.082943	0.438967	0.942518	0.981885	0.53962	0.000636	-0.06839	0.296115	-0.14513	0.291953	0.325769	0.977149	0.170749	0.975509
IGLV6-57	-0.04332	-0.00924	-0.0313	0.612212	0.748998	0.946095	0.817227	4.18E-07	-0.03808	0.264089	-0.00272	0.246286	0.400819	0.961926	0.49293	0.950523
GPX3	0.414635	-0.19747	0.126951	0.049063	0.001487	0.148435	0.351148	0.71953	0.579094	-0.35436	0.317018	-0.34366	0.999985	0.008464	0.981992	0.010406
GPX4	-0.11346	0.07651	-0.16131	-0.26905	0.400706	0.575168	0.230621	0.042991	-0.25892	0.062838	-0.10459	-0.02935	0.041147	0.660882	0.247072	0.423235
ANK3	-0.1902	0.190424	-0.18681	-0.07796	0.156452	0.159795	0.164097	0.564335	-0.06674	-0.0224	0.028656	-0.05975	0.331578	0.441935	0.573246	0.348322
GPX5	-0.09076	-0.02749	0.008241	-0.08111	0.501935	0.840611	0.951486	0.54866	0.069562	-0.31116	0.114655	-0.0735	0.675106	0.018737	0.77068	0.315673
GPX7	0.198918	0.047777	0.013712	0.208969	0.13797	0.726589	0.919367	0.118758	-0.03895	0.201317	-0.08574	0.346004	0.399729	0.907596	0.290003	0.990049
GRB2	-0.023	0.151083	-0.18925	0.365324	0.865129	0.266356	0.158555	0.005201	-0.1118	0.513863	-0.04861	0.332009	0.232334	0.999847	0.377004	0.987064
GRB7	-0.12795	0.228991	-0.00817	-0.21851	0.342856	0.089584	0.951908	0.102475	-0.16446	0.509488	-0.20628	0.233473	0.13738	0.999851	0.086989	0.940807
GRB10	0.133634	0.118948	0.10542	0.354361	0.321677	0.382581	0.435128	0.006841	0.303691	0.136334	0.049586	0.080445	0.979905	0.816854	0.62683	0.702447
GRB14	0.088831	-0.17235	0.149934	-0.04453	0.515016	0.204022	0.270049	0.744537	0.336753	-0.50797	0.192018	-0.44199	0.98815	0.000184	0.894111	0.001184
RAPGEF1	-0.02307	-0.1542	0.164053	0.334092	0.86598	0.260978	0.226979	0.011853	0.004896	-0.04879	-0.0442	0.054208	0.51288	0.373724	0.38657	0.639754
GRIA1	0.223792	-0.10671	0.10126	0.2008	0.100493	0.442497	0.461966	0.141566	0.10692	-0.23138	0.194353	-0.14545	0.760293	0.060913	0.899606	0.167401
IGKV1D-12	0.098708	-0.06651	0.10538	0.464126	0.465081	0.626221	0.435302	0.000276	-0.14162	0.149548	-0.10133	0.350646	0.173915	0.839392	0.253881	0.991556
IGKV1D-8	0.081508	-0.0563	0.063956	0.367763	0.546681	0.680259	0.636469	0.004887	0.199833	-0.26136	0.096147	-0.03911	0.908489	0.039671	0.735089	0.398192
IGKV5-2	0.216811	-0.22861	0.1812	0.167187	0.105242	0.090131	0.177363	0.213853	0.230214	-0.06174	0.087893	-0.01813	0.938119	0.341776	0.717059	0.4524
IGKV4-1	0.028974	-0.13404	-0.00896	0.71769	0.83059	0.324692	0.947251	3.33E-10	-0.13739	0.466363	-0.15804	0.522634	0.181272	0.999456	0.149906	0.999903
GRIA2	0.330779	-0.27802	0.2191	-0.10512	0.012774	0.039857	0.104719	0.440663	0.297447	-0.32187	0.16903	-0.29543	0.975053	0.01656	0.86072	0.025772
IGKV2-40	0.242013	0.038087	0.126305	0.209513	0.072331	0.782491	0.353623	0.121202	-0.01317	0.271443	-0.01756	0.230283	0.465401	0.965983	0.454422	0.938177
GRIA3	0.302253	-0.06458	0.093754	-0.04646	0.023569	0.639501	0.491905	0.733831	0.165273	-0.30021	0.198283	-0.27325	0.861033	0.022553	0.901519	0.034673
GRIA4	-0.03679	-0.14565	0.063805	-0.2904	0.785864	0.284126	0.637267	0.028427	0.101209	-0.53552	0.151305	-0.54168	0.748336	6.28E-05	0.839439	5.06E-05
GRID1	-0.02076	-0.18985	0.21846	0.032111	0.878186	0.161077	0.102556	0.812559	0.048165	-0.09052	0.101309	-0.05055	0.624707	0.274832	0.746074	0.369324
GRID2	0.255107	-0.13059	0.248789	-0.20736	0.055471	0.337399	0.062018	0.121694	0.079197	-0.2021	0.178382	-0.19751	0.697469	0.091533	0.876671	0.096718
TRIB2	-0.01226	-0.02149	-0.01161	0.50224	0.927856	0.875089	0.931667	6.87E-05	0.163503	0.403845	-0.19096	0.328167	0.861203	0.997309	0.104463	0.987011
CCDC22	-0.00483	-0.09373	0.078442	-0.04884	0.971564	0.492009	0.561916	0.718237	-0.0904	0.004107	-0.16099	-0.08215	0.275095	0.510805	0.145381	0.293653
REM1	0.110312	-0.06507	0.340235	-0.28978	0.413997	0.633734	0.00961	0.02878	-0.09279	-0.35328	0.205383	-0.13183	0.269826	0.008013	0.912046	0.191247
DEXI	-0.03949	-0.21196	0.022312	0.144214	0.77058	0.116827	0.869149	0.284496	0.091959	-0.10466	-0.02355	-0.05684	0.728347	0.244404	0.438993	0.353755
ROBLD3	-0.09822	-0.24713	-0.01951	-0.27934	0.467316	0.066323	0.885475	0.035351	-0.11001	-0.35121	-0.0715	-0.23892	0.233364	0.00835	0.320343	0.054904
MRPS28	0.068695	0.26003	-0.21666	0.030311	0.611633	0.052937	0.105489	0.822891	-0.12245	0.555956	-0.24401	0.318677	0.208771	0.99997	0.053121	0.984556
CCDC56	-0.17169	0.228496	-0.14615	-0.16668	0.205775	0.093361	0.282474	0.219516	-0.39546	0.551863	-0.41466	0.294003	0.003262	0.999965	0.002312	0.976329
TMEM176E	0.016866	-0.23406	0.171064	0.535675	0.900899	0.082516	0.203268	1.76E-05	-0.07786	-0.02825	0.212867	0.174508	0.303524	0.426087	0.919829	0.87696
GRN	-0.04881	0.052999	-0.13799	0.277865	0.718456	0.698064	0.306011	0.03637	-0.08237	0.473034	-0.12963	0.382153	0.293141	0.99955	0.198023	0.995615
DCPS	-0.20648	0.043187	-0.09971	-0.11622	0.123322	0.75197	0.460525	0.389269	-0.50828	0.361135	-0.11406	0.166534	0.000155	0.993164	0.227824	0.865669
OSTM1	0.085521	0.050383	-0.07878	0.251789	0.527046	0.712305	0.560217	0.058836	0.1392	0.080725	0.061704	0.1948	0.821897	0.703089	0.656402	0.902737
GIT1	0.005297	0.087656	-0.0847	-0.0919	0.968805	0.520613	0.53104	0.496591	-0.17241	0.41019	-0.21917	0.300745	0.125952	0.997682	0.074013	0.978867
SLC27A6	0.122585	-0.18892	0.084404	-0.00542	0.363654	0.163191	0.532474	0.968077	0.15533	-0.17344	0.103426	-0.17641	0.848678	0.124519	0.750511	0.120438
SNX24	-0.07653	0.300591	-0.26698	-0.04998	0.571495	0.024384	0.044686	0.711984	-0.03611	0.184191	-0.13749	0.039879	0.405842	0.889784	0.183887	0.603777
SLC6A16	0.010211	-0.2548	0.131466	-0.33106	0.939905	0.058075	0.329661	0.011888	-0.02309	-0.51048	0.135039	-0.40407	0.439474	0.000145	0.811771	0.002677
BZW2	-0.09086	0.436307	-0.3036	0.042403	0.505435	0.000869	0.022928	0.756335	-0.14432	0.665738	-0.36379	0.442131	0.169303	1	0.007014	0.998952
GRIK1	-0.09406	-0.10921	0.036384	-0.45111	0.486471	0.423017	0.788161	0.000429	0.119269	-0.3469	0.114851	-0.43406	0.785085	0.00909	0.773749	0.00129

C11orf54	0.037781	-0.00758	-0.1811	0.020909	0.780229	0.955771	0.177599	0.877309	-0.06123	0.170536	-0.11228	0.093118	0.343016	0.87142	0.231374	0.730892
C11orf67	0.221781	-0.18446	0.101072	0.041398	0.097311	0.17352	0.454408	0.759791	0.175937	-0.27919	0.138161	-0.20304	0.878914	0.030123	0.817289	0.087977
SPCS1	0.103931	0.02459	-0.15009	0.124851	0.441678	0.857239	0.265122	0.354785	-0.30769	0.37185	-0.30786	0.277217	0.019883	0.994051	0.021028	0.96738
MRPS18B	-0.11096	0.05484	-0.27008	0.199782	0.411247	0.688104	0.042173	0.136232	-0.24237	0.483635	-0.35484	0.335984	0.052309	0.999669	0.008383	0.98878
C19orf53	-0.2583	0.077599	-0.07417	-0.22463	0.052383	0.569723	0.583456	0.092977	-0.20294	0.095149	-0.26134	-0.02841	0.090614	0.73294	0.043304	0.426525
ACAD9	0.037943	0.12613	-0.09618	0.030944	0.781292	0.358833	0.480716	0.820893	-0.02902	0.511888	-0.1859	0.247904	0.424089	0.999862	0.110728	0.951657
MRPL42	-0.0935	0.270906	-0.19704	0.103319	0.489069	0.043437	0.141812	0.444384	-0.04629	0.410269	-0.07857	0.316025	0.379991	0.997686	0.303966	0.983805
TMEM14A	-0.01494	0.224947	-0.32506	-0.10652	0.912178	0.09555	0.013617	0.43031	-0.25859	0.264855	-0.25125	0.16945	0.04316	0.960648	0.049973	0.867101
GRIK2	-0.25041	0.251385	-0.27048	0.029337	0.060284	0.061637	0.04186	0.828499	-0.17682	0.057086	-0.12194	-0.14555	0.119894	0.64685	0.212451	0.167228
IFT81	-0.05471	-0.13058	-0.05625	-0.16412	0.686076	0.337444	0.677721	0.222503	-0.16635	-0.19237	0.03606	-0.06635	0.134603	0.100127	0.592961	0.330654
FLVCR1	-0.00918	0.147963	-0.20131	-0.05945	0.945992	0.276468	0.133195	0.660445	-0.07104	0.276618	-0.04769	0.199445	0.319483	0.968627	0.377856	0.908054
C13orf15	0.146058	-0.21127	-0.00492	-0.12502	0.278315	0.118039	0.971001	0.354135	0.211127	-0.56198	0.067071	-0.41418	0.920502	2.41E-05	0.669219	0.002108
MCTS1	-0.05521	0.237098	-0.26375	0.168229	0.683333	0.078503	0.047436	0.21097	-0.07235	0.369952	-0.05648	0.315278	0.316386	0.994306	0.356253	0.983588
MAGEH1	0.105136	-0.14427	0.289896	0.024155	0.440611	0.293309	0.030218	0.859736	0.069151	-0.20495	0.304015	0.270383	0.676036	0.085912	0.978839	0.96542
NOB1	-0.20143	0.366832	-0.16396	0.090432	0.136568	0.005873	0.227238	0.50744	-0.28609	0.641811	-0.47857	0.467062	0.02696	0.999999	0.000442	0.999467
DBNL	-0.16434	0.156678	-0.17906	0.075547	0.221871	0.248844	0.182619	0.57648	-0.22541	0.529636	-0.28732	0.307982	0.066005	0.999923	0.027827	0.981341
METTL11A	-0.13036	-0.03539	0.048148	0.078192	0.333784	0.795696	0.722091	0.563166	-0.10871	0.281671	-0.20055	0.12883	0.236022	0.971047	0.093259	0.80325
GRIK3	0.032514	-0.00221	0.116197	0.08113	0.810251	0.987087	0.389374	0.548549	0.231011	-0.29715	0.268185	-0.31251	0.938785	0.022457	0.96256	0.017237
ASTE1	-0.0345	0.227966	-0.30024	0.092331	0.800717	0.091067	0.024558	0.498528	-0.27648	0.321379	-0.19444	-0.00108	0.031443	0.985291	0.100296	0.497153
COMMD5	-0.16576	0.061862	0.031472	0.041746	0.217832	0.6506	0.816227	0.757833	0.001628	-0.02083	0.088178	-0.18126	0.504285	0.445355	0.717692	0.113993
MACROD1	-0.11131	-0.11398	0.044141	-0.22693	0.409749	0.402906	0.744398	0.089593	-0.09012	-0.25399	-0.00759	-0.30798	0.275706	0.044254	0.480264	0.01866
HIPK2	-0.21314	0.122332	-0.01604	0.205232	0.111418	0.369088	0.905704	0.125648	-0.11232	0.266394	-0.04454	0.055633	0.228688	0.963236	0.38571	0.643274
PRO0611	-0.05441	-0.01502	0.026472	-0.08041	0.687699	0.912533	0.845029	0.552107	-0.24049	0.135324	-0.01913	-0.11443	0.053708	0.815058	0.450368	0.224451
MRPL13	-0.21843	0.08636	-0.3059	-0.05508	0.102613	0.526821	0.020663	0.684045	-0.4151	0.189954	-0.37308	0.036286	0.002062	0.896961	0.005799	0.594607
KLF15	0.150888	-0.30608	0.416361	-0.09917	0.26698	0.023048	0.001414	0.467095	0.325433	-0.55438	0.287209	-0.51664	0.985423	3.89E-05	0.970643	0.00014
ABR	-0.03055	0.050317	-0.01092	0.056425	0.821497	0.712665	0.935762	0.676754	-0.04441	0.390871	-0.14662	0.292085	0.384744	0.996383	0.168261	0.975563
ANPEP	-0.16841	-0.16751	0.024596	-0.06102	0.210474	0.217213	0.855888	0.652077	0.200359	-0.52202	0.139558	-0.54994	0.909076	9.93E-05	0.819727	3.76E-05
GRIK4	-0.03115	-0.20246	0.214039	-0.12368	0.818068	0.134528	0.109877	0.359333	0.056701	-0.42743	0.158149	-0.38131	0.645903	0.001524	0.850269	0.004467
GRIK5	0.081652	-0.00678	0.197083	-0.12725	0.545969	0.960433	0.141716	0.345558	0.33218	-0.42704	0.080893	-0.38635	0.987947	0.001539	0.701336	0.004
SLC43A3	0.173629	-0.09764	-0.13622	0.302103	0.200629	0.478229	0.316808	0.023642	0.392178	0.177251	-0.01714	0.137128	0.996487	0.880691	0.455498	0.81826
PRO1768	0.100836	-0.07106	0.100884	-0.33075	0.459631	0.606168	0.459414	0.012781	0.034671	-0.36676	0.289933	-0.34568	0.590466	0.006087	0.973315	0.00931
GRIN1	-0.06459	-0.11236	0.146178	-0.20234	0.633121	0.40967	0.277918	0.131175	0.235277	-0.3389	0.235029	-0.47663	0.940123	0.011385	0.937697	0.000467
LOC100133	0.129918	-0.19524	0.182347	-0.17667	0.335439	0.149295	0.17459	0.188634	-0.06534	0.010846	0.236323	0.039453	0.334887	0.528186	0.938758	0.601531
ATAD2	0.051251	0.343701	-0.29841	0.186512	0.704973	0.009499	0.024152	0.164784	0.087424	0.506711	-0.11768	0.249136	0.718276	0.999837	0.220681	0.952507
GRIN2A	0.158871	-0.19816	0.162915	-0.18787	0.237844	0.143181	0.225957	0.161674	0.025628	-0.39282	0.161473	-0.1987	0.567127	0.003462	0.855356	0.092779
LOC29034	0.076585	-0.10408	0.146023	-0.24116	0.574791	0.445236	0.282886	0.073372	0.032938	-0.2569	0.199964	-0.15589	0.586016	0.0424	0.906081	0.150445
C16orf72	0.025025	0.216122	-0.06301	0.092388	0.853401	0.109642	0.641488	0.494275	0.079235	0.149291	0.043205	0.072584	0.699662	0.838971	0.610953	0.684163
GRIN2B	0.025719	0.038152	0.230588	-0.21153	0.849387	0.780119	0.084407	0.114212	0.192749	-0.41504	0.178817	-0.35843	0.897699	0.002292	0.877256	0.007809
GRIN2C	-0.02078	-0.14661	0.223898	-0.15642	0.878052	0.280924	0.094076	0.245246	0.186753	-0.255	0.166896	-0.2761	0.893016	0.043607	0.863411	0.031628
C20orf30	0.089078	-0.22285	0.129204	0.105613	0.509938	0.098768	0.338124	0.434282	0.360658	-0.1351	0.118816	-0.1809	0.993097	0.185337	0.78153	0.114466
GRIN2D	-0.10047	-0.12884	0.210955	-0.17806	0.457129	0.343954	0.115216	0.185118	0.008875	-0.35044	0.257446	-0.32532	0.52334	0.008479	0.956118	0.013689
WDR91	0.13233	-0.20355	-0.00859	0.095134	0.326465	0.132399	0.949409	0.481476	0.361484	-0.18089	0.230534	-0.09503	0.993213	0.114475	0.93619	0.26493
ZCCHC4	0.009654	0.133858	-0.10417	0.013711	0.943182	0.32534	0.440616	0.919372	-0.05491	0.225052	-0.0543	0.092859	0.358499	0.933675	0.361566	0.730324
ZC3H7A	0.140688	0.132685	-0.05238	0.187316	0.296559	0.329635	0.698796	0.162939	0.172531	0.115363	0.061918	0.224966	0.874223	0.777402	0.656914	0.9336
ZBTB44	0.131304	0.171702	-0.203	-0.06688	0.334739	0.210038	0.13347	0.624325	0.004515	0.274662	-0.17834	0.217455	0.511879	0.967647	0.120583	0.926708
GRINA	0.04527	-0.10782	0.150668	0.043836	0.738092	0.428948	0.263259	0.746106	0.225667	-0.21681	0.159355	-0.26148	0.931956	0.076279	0.849253	0.041367
CCDC113	-0.08384	-0.15252	0.031724	-0.17211	0.535213	0.261765	0.814783	0.20047	-0.18543	-0.22361	0.062779	-0.13748	0.108649	0.067608	0.658982	0.18111
C1GALT1C1	0.005028	0.313154	-0.0946	0.212556	0.97039	0.018773	0.483932	0.112419	-0.13774	0.518092	-0.11454	0.39139	0.180654	0.999887	0.226873	0.996424
SETD2	0.058114	0.146146	-0.10672	-0.07748	0.667634	0.282476	0.429443	0.566759	-0.05429	0.158493	0.009609	0.090315	0.360031	0.853609	0.524977	0.724716
MRPL18	-0.05182	0.225223	-0.25481	0.023969	0.701838	0.095133	0.055769	0.859525	-0.32485	0.498128	-0.382	0.403293	0.013807	0.999786	0.004806	0.997274

HSPC072	-0.00318	-0.04414	0.14453	-0.13182	0.981431	0.748969	0.28789	0.332836	0.058205	-0.13597	-0.06982	-0.0714	0.649596	0.183794	0.324276	0.318631
C6orf66	0.04884	0.311632	-0.25574	0.322011	0.718266	0.019388	0.054848	0.014577	-0.0715	0.500286	-0.35421	0.383669	0.318391	0.9998	0.008488	0.995757
MED4	0.00342	0.318668	-0.29877	0.184825	0.979859	0.01668	0.023977	0.168705	-0.05016	0.510448	-0.17472	0.444708	0.370309	0.999855	0.1255	0.999021
NR3C1	0.16555	0.03244	-0.17234	0.184045	0.218437	0.812387	0.199876	0.170543	0.197849	0.037291	0.115719	0.180064	0.906251	0.597176	0.775467	0.884436
CCDC59	-0.13085	0.18227	-0.36323	0.06455	0.331962	0.178783	0.005484	0.633333	-0.03483	0.203055	-0.1974	0.130067	0.409127	0.912042	0.096837	0.805531
METTL5	-0.12893	0.254429	-0.27349	0.128699	0.339165	0.058451	0.03954	0.340031	-0.0127	0.411991	-0.05331	0.353919	0.466625	0.997779	0.364	0.992089
CHMP4A	-0.15164	0.08352	-0.09	0.007023	0.260157	0.540552	0.505536	0.95865	0.088106	-0.03425	-0.09418	-0.09436	0.719801	0.41062	0.269162	0.266392
GTPBP8	-0.16471	0.433029	-0.45051	-0.0049	0.220802	0.000858	0.000437	0.971126	-0.26588	0.499677	-0.30591	0.362284	0.037054	0.999796	0.020496	0.993323
PHPT1	-0.13807	-0.0201	0.22358	0.033354	0.310217	0.883103	0.097636	0.807204	-0.14667	0.063846	0.139068	0.04372	0.165354	0.66332	0.818874	0.613518
C19orf62	-0.14921	0.184445	-0.0257	-0.07218	0.272409	0.177639	0.850841	0.597062	-0.01534	0.383293	-0.03238	0.184273	0.459693	0.995722	0.41638	0.889888
THYN1	-0.12824	-0.16662	-0.23359	0.097208	0.341755	0.219698	0.080335	0.471923	-0.34787	0.20519	-0.24194	0.203378	0.008919	0.91434	0.054667	0.912392
MRPL15	-0.17143	0.153262	-0.29066	0.170418	0.206484	0.263938	0.029766	0.209212	-0.259	0.617741	-0.35011	0.397865	0.041097	0.999998	0.009195	0.996912
UBE2T	-0.29065	0.01541	-0.27311	-0.13541	0.029771	0.911088	0.041692	0.319699	-0.36526	0.635821	-0.27673	0.481098	0.006279	0.999999	0.032865	0.999644
GRLF1	0.068432	0.319761	-0.22247	0.07622	0.613	0.01629	0.096253	0.573082	0.006604	0.515676	-0.04125	0.483249	0.517372	0.999878	0.393961	0.999665
C18orf55	0.097395	0.371887	-0.23887	0.29384	0.471067	0.00477	0.073539	0.026519	-0.00957	0.541023	-0.21534	0.375388	0.474822	0.999948	0.07771	0.994925
STXBP6	-0.02412	-0.05398	0.124945	-0.13306	0.858629	0.692748	0.35442	0.323774	-0.14881	0.023904	-0.29344	0.113062	0.161819	0.562647	0.02521	0.772807
MRPL22	-0.01182	0.198114	-0.37243	-0.04642	0.930433	0.143286	0.004332	0.731712	-0.17367	0.265016	-0.35566	0.196159	0.124197	0.962457	0.008249	0.904315
HSPC159	0.178668	0.149727	-0.067	0.055066	0.187669	0.275245	0.623716	0.686881	0.182667	0.260375	-0.13822	-0.04199	0.885129	0.957955	0.18546	0.392079
ORMDL2	-0.22192	0.105841	-0.25627	-0.09976	0.100211	0.441849	0.056585	0.464477	-0.34547	0.325753	-0.28786	0.225077	0.009348	0.98642	0.027587	0.933697
CNIH4	-0.01616	0.206303	-0.28292	0.358599	0.905023	0.127142	0.032968	0.00616	-0.10307	0.48285	-0.24558	0.38857	0.247745	0.999661	0.051969	0.996192
RANGRF	0.197839	-0.18945	0.178851	0.004201	0.140163	0.161971	0.183141	0.975257	0.128476	-0.12053	0.237982	-0.04861	0.802593	0.212466	0.942282	0.374183
COMMD9	-0.15591	0.330212	-0.35944	0.12253	0.246829	0.012937	0.006032	0.36387	-0.16263	0.471696	-0.14199	0.264439	0.140104	0.999532	0.17607	0.962126
SLC25A4	0.017786	-0.14664	-0.0601	0.022499	0.895527	0.280844	0.656955	0.868064	0.076211	-0.05885	0.026966	-0.03545	0.692657	0.348814	0.569788	0.407535
TMEM208	-0.07789	0.018441	0.001319	0.074697	0.568253	0.893694	0.9923	0.584285	-0.09548	0.242815	-0.26513	0.210494	0.26396	0.948022	0.03919	0.919862
SSU72	-0.03442	0.121593	-0.07154	-0.03854	0.799352	0.37201	0.596921	0.775919	-0.22217	0.331909	-0.37863	0.129447	0.068903	0.987885	0.005162	0.80439
RNASEN	0.006412	0.174344	-0.23662	-0.00726	0.962245	0.198754	0.076376	0.957279	-0.03214	0.430327	-0.17248	0.243898	0.416044	0.998582	0.128604	0.948812
DNAJC15	-0.24776	0.34959	-0.2841	0.325766	0.065613	0.008892	0.033839	0.014283	-0.08331	0.471416	-0.05029	0.366788	0.2932	0.99946	0.372901	0.993399
N6AMT1	-0.02668	-0.0275	-0.11857	-0.11886	0.843797	0.840573	0.379691	0.378539	-0.06272	-0.06167	-0.17574	-0.19864	0.339406	0.341954	0.124101	0.092854
C16orf80	-0.0843	-0.1244	-0.16294	-0.16363	0.532971	0.361007	0.225895	0.223888	-0.38144	0.032351	-0.0891	0.091517	0.004454	0.584505	0.280267	0.727373
SCG3	-0.0889	0.118715	-0.1193	-0.3148	0.510792	0.383519	0.376748	0.017077	-0.11919	-0.06607	0.142431	0.002515	0.215067	0.331324	0.824678	0.506618
NXT1	-0.1264	0.085327	0.04423	0.004978	0.353263	0.531795	0.746183	0.970956	0.026196	-0.07622	0.065245	-0.16712	0.568599	0.30733	0.664879	0.133478
PYCARD	-0.20538	0.04316	-0.09358	0.127344	0.128888	0.754376	0.492712	0.349645	-0.22817	0.472589	-0.18092	0.274086	0.06361	0.999544	0.117156	0.967354
FHOD1	-0.10945	-0.32801	0.183671	-0.07857	0.417693	0.013589	0.171426	0.561264	-0.10002	-0.27235	0.105038	-0.11512	0.254187	0.033541	0.753861	0.223074
GRM1	-0.00385	-0.14441	0.192938	-0.24513	0.977345	0.288301	0.150454	0.066083	0.051726	-0.24865	0.16179	-0.20608	0.633598	0.04783	0.855836	0.084714
TBK1	-0.09549	0.330258	-0.30754	0.259059	0.479822	0.012924	0.019957	0.051669	-0.04515	0.425977	-0.17643	0.29996	0.382868	0.99842	0.123152	0.978584
C6orf15	-0.04231	-0.12355	0.220268	-0.27649	0.754635	0.364291	0.099675	0.037341	0.002088	-0.3363	0.191904	-0.31632	0.505494	0.011153	0.896684	0.016111
TAGLN3	-0.17638	-0.18665	0.063453	-0.27833	0.19348	0.172432	0.642221	0.037791	-0.27218	-0.30697	-0.05725	-0.20575	0.033628	0.01899	0.354369	0.085059
SAP30BP	-0.05123	-0.06066	-0.17965	0.188858	0.705095	0.656939	0.181162	0.159441	0.301341	0.022303	0.173514	-0.05184	0.977869	0.557811	0.870001	0.367603
MYLIP	0.004337	0.243585	-0.15188	0.279206	0.974456	0.070441	0.259387	0.035441	0.07275	0.505784	-0.29522	0.206455	0.682578	0.999803	0.025859	0.913193
BRD7	-0.22409	0.288488	-0.24068	0.070193	0.093788	0.031066	0.071314	0.60387	-0.27169	0.290822	-0.20903	0.289189	0.033887	0.975047	0.084093	0.974368
DDX25	-0.03162	-0.09676	0.101612	-0.10865	0.815366	0.478059	0.451985	0.421098	-0.08596	-0.24369	0.095426	-0.16098	0.285003	0.051342	0.733538	0.142584
CTNNA3	0.292923	-0.13555	0.235771	-0.0961	0.027017	0.319219	0.077466	0.477023	0.201994	-0.43028	0.27206	-0.29843	0.910882	0.001419	0.964693	0.021977
GRM2	-0.25042	0.073022	0.125294	0.027903	0.062679	0.592764	0.357521	0.838249	-0.0061	-0.20857	0.091495	-0.17724	0.483954	0.082112	0.724998	0.119322
CLEC2D	-0.09339	0.071669	-0.14969	0.297261	0.489564	0.599652	0.266419	0.024731	0.134261	0.050092	0.105714	0.058647	0.813153	0.629526	0.755259	0.650677
TSP50	-0.01898	-0.18852	0.07552	-0.16469	0.888579	0.164085	0.576617	0.220873	0.02184	-0.38423	0.153919	-0.2756	0.557276	0.004191	0.843631	0.031878
ANKRD11	-0.09378	-0.01144	0.032142	-0.11513	0.487782	0.93332	0.812382	0.393769	0.042389	-0.16169	0.094127	0.090395	0.608908	0.144314	0.728322	0.722584
LGALS13	-0.1257	-0.19053	0.001774	-0.26744	0.360496	0.167581	0.989744	0.048387	-0.206	-0.30168	0.004029	-0.36642	0.084801	0.020798	0.510477	0.00613
C11orf21	-0.06007	-0.21027	0.157098	0.03791	0.660076	0.123354	0.247561	0.781477	0.148559	-0.29736	0.200289	-0.22165	0.837768	0.022378	0.906446	0.069384
CD274	0.060419	0.041063	0.174314	0.536138	0.658241	0.765959	0.198832	2.06E-05	-0.08325	0.062757	0.035369	0.209293	0.293329	0.658929	0.590149	0.916177
RACGAP1	-0.03108	0.405233	-0.23788	-0.02987	0.820132	0.002147	0.077496	0.826991	-0.18596	0.700608	-0.30204	0.45988	0.107971	1	0.021873	0.999349

UHRF1	-0.09793	0.038233	-0.02762	-0.03336	0.468618	0.779663	0.838424	0.805425	-0.15077	0.241262	-0.04118	0.121205	0.158617	0.946871	0.394123	0.788838
GRM3	0.02197	-0.13798	0.28381	-0.33156	0.871138	0.310518	0.032399	0.011753	0.047827	-0.39252	0.216963	-0.34856	0.62386	0.003486	0.923869	0.0088
GRM4	0.001492	-0.14668	0.22983	-0.17505	0.991211	0.280687	0.085461	0.192772	0.189565	-0.28578	0.110802	-0.30315	0.896487	0.027099	0.765653	0.020283
GRM5	-0.0669	-0.37323	0.123811	-0.1292	0.620975	0.004609	0.35884	0.338141	-0.22817	-0.41891	0.056612	-0.39865	0.063616	0.00188	0.644075	0.003033
GRM6	-0.12588	-0.21611	0.090153	-0.21233	0.355256	0.113042	0.508757	0.116165	-0.13129	-0.25782	0.096714	-0.27762	0.192221	0.041826	0.736307	0.030882
GRM7	-0.13654	-0.1771	0.081276	-0.41157	0.311165	0.19164	0.547824	0.001469	-0.28398	-0.3389	0.05965	-0.32083	0.027899	0.010614	0.651447	0.014856
GRM8	0.07576	-0.05975	0.217862	-0.22621	0.575406	0.661791	0.103525	0.090637	0.011005	-0.36871	0.320528	-0.1946	0.528933	0.005845	0.98409	0.097497
CXCL1	-0.02401	-0.0572	0.002817	0.204968	0.859259	0.675437	0.983408	0.126145	0.005869	0.232928	0.038766	0.262032	0.51544	0.940364	0.5998	0.960725
SLC25A5	0.062772	0.317464	-0.12848	-0.01053	0.645803	0.018189	0.345331	0.938604	-0.19944	0.609409	-0.33143	0.314794	0.091955	0.999997	0.013073	0.983446
CXCL2	-0.07775	-0.16302	-0.03434	0.154145	0.56898	0.234369	0.801625	0.256671	0.078926	-0.13784	0.024807	-0.00199	0.69685	0.18327	0.563496	0.494832
CXCL3	0.147584	-0.18635	0.290529	0.020425	0.273271	0.169092	0.028352	0.880132	-0.03593	-0.07965	0.186912	-0.10877	0.406302	0.299391	0.890545	0.235906
GRP	-0.1475	0.150661	-0.14716	-0.29497	0.273557	0.267709	0.274676	0.025915	-0.14229	0.005603	0.040356	-0.02705	0.172768	0.51474	0.603805	0.429199
PDIA3	-0.17603	0.21937	0.126275	-0.11413	0.190261	0.104281	0.34928	0.397908	0.14991	-0.12063	-0.02415	-0.23153	0.839983	0.212268	0.437446	0.060787
GRPR	-0.10094	-0.06308	0.166442	-0.11515	0.454986	0.644171	0.21593	0.393702	0.104199	-0.35045	0.026269	-0.30643	0.754633	0.008477	0.568001	0.019168
GRSF1	-0.03278	0.36953	-0.29852	0.101489	0.808716	0.005065	0.0241	0.452538	0.07692	0.449417	-0.17745	0.272263	0.694307	0.999136	0.12178	0.966413
GSC2	0.008235	-0.09838	0.231335	-0.12792	0.951521	0.470712	0.083378	0.343002	0.101884	-0.33531	0.189918	-0.31146	0.749766	0.011364	0.894272	0.01756
GSK3A	0.090944	-0.12997	0.061917	0.037455	0.501078	0.339717	0.647278	0.78208	-0.08166	0.163909	-0.14977	0.039495	0.294764	0.861807	0.163057	0.602798
GSK3B	-0.05852	0.245569	-0.34237	0.0696	0.665441	0.068111	0.009138	0.606934	-0.14237	0.418632	-0.26999	0.264124	0.175427	0.997895	0.03816	0.960218
GSN	0.09526	0.177819	-0.23597	0.087441	0.484945	0.194001	0.079976	0.521642	-0.06193	0.584882	-0.0639	0.372156	0.341317	0.99999	0.338325	0.994565
GSPT1	-0.0182	0.411665	-0.32926	0.087564	0.893131	0.001621	0.012385	0.517182	0.027621	0.336683	-0.10852	0.221185	0.572292	0.988928	0.23899	0.930193
GSR	-0.07809	0.524798	-0.27329	-0.05306	0.563654	3.29E-05	0.039694	0.69507	-0.12875	0.50647	-0.27981	0.333535	0.199648	0.999807	0.032917	0.987422
GSS	-0.07514	0.167095	-0.1462	0.006361	0.578533	0.218361	0.277856	0.962542	-0.33962	0.672872	-0.3647	0.391257	0.010469	1	0.006886	0.996414
GSTA1	-0.07862	0.220569	-0.23924	-0.23447	0.56105	0.102355	0.073075	0.079167	-0.2424	0.016518	-0.13569	-0.08215	0.054317	0.54288	0.189912	0.295806
GSTA2	0.030464	0.013187	-0.0569	-0.24076	0.823628	0.923871	0.677006	0.073863	-0.18294	-0.0865	0.05224	-0.11445	0.111813	0.283796	0.633377	0.224405
GSTA3	-0.24165	-0.13433	-0.05324	-0.22673	0.072779	0.328197	0.696732	0.092878	-0.34388	-0.12148	0.00446	-0.09454	0.009642	0.210631	0.511599	0.266007
GSTA4	-0.09531	0.585483	-0.40476	-0.09331	0.48066	2.14E-06	0.00179	0.48995	-0.00888	0.577949	-0.28615	0.316553	0.476648	0.999987	0.028351	0.983957
GSTM1	0.057182	0.084222	0.215963	-0.17824	0.672666	0.537142	0.106644	0.18467	0.001512	-0.17286	-0.14478	-0.1167	0.503978	0.12532	0.171344	0.219952
GSTM1L	-0.08048	-0.18636	0.044517	0.0026	0.551746	0.169063	0.742299	0.984687	-0.00988	-0.1734	0.047457	-0.08486	0.474021	0.12457	0.621555	0.287503
GSTM2	-0.02057	-0.12987	0.10194	-0.18925	0.880387	0.344647	0.454703	0.162444	-0.10198	-0.33303	-0.07503	-0.3354	0.250034	0.011863	0.312125	0.011344
GSTM3	0.185822	0.366615	-0.20716	0.02166	0.166381	0.005451	0.122062	0.872943	0.026584	0.381017	-0.22784	0.2339	0.569606	0.995505	0.066124	0.941152
GSTM4	0.114442	0.317124	-0.16045	-0.04885	0.400989	0.01832	0.237494	0.720692	-0.19773	0.559674	-0.28328	0.348815	0.093889	0.999974	0.029672	0.991245
GSTM5	0.443947	-0.29082	0.18398	-0.01046	0.000542	0.029674	0.170696	0.938419	0.312884	-0.26328	0.210644	-0.02644	0.982877	0.038543	0.917571	0.430756
GSTP1	-0.12379	0.16926	-0.21841	-0.08919	0.363385	0.216694	0.105852	0.513316	-0.31382	0.529129	-0.38253	0.242979	0.016841	0.999922	0.004752	0.948142
GSTT1	0.073226	-0.0107	0.001304	-0.28506	0.588282	0.937608	0.992322	0.031611	-0.00646	0.286498	-0.25738	0.086985	0.483396	0.970315	0.047837	0.712754
GSTZ1	-0.2448	0.21757	-0.16088	-0.05023	0.066461	0.107227	0.231891	0.710599	-0.28076	0.411933	-0.32986	0.181895	0.029379	0.997776	0.013455	0.886831
MSH6	-0.01351	0.246449	-0.26068	0.170364	0.920543	0.067098	0.050174	0.205152	-0.19191	0.507889	-0.35013	0.274872	0.100675	0.999843	0.009191	0.967753
GTF2A1	0.050936	0.274458	-0.27241	0.158723	0.706705	0.040656	0.04036	0.238289	-0.00061	0.463677	-0.12758	0.309863	0.498398	0.999414	0.201815	0.981943
GTF2A2	-0.09168	0.259808	-0.32049	0.075661	0.497617	0.053147	0.015076	0.575905	-0.03362	0.283446	-0.22765	0.246265	0.41224	0.971861	0.066294	0.950508
GTF2B	-0.06855	0.157158	-0.36076	0.150451	0.612404	0.247379	0.005836	0.263955	-0.1944	0.401254	-0.2046	0.278495	0.097727	0.997143	0.088797	0.969544
GTF2E1	-0.08238	0.216961	-0.22676	0.162457	0.5424	0.108237	0.089842	0.227283	-0.23615	0.385437	-0.31568	0.364346	0.057053	0.995919	0.017326	0.993601
GTF2E2	-0.11103	0.359553	-0.22505	-0.0309	0.415277	0.006496	0.095398	0.821168	-0.22075	0.468347	-0.23802	0.358791	0.070208	0.999486	0.057685	0.99283
GTF2F1	-0.06963	-0.06846	-0.04416	-0.12785	0.606783	0.616136	0.744301	0.343243	-0.28699	0.223254	-0.07961	0.031228	0.026569	0.932073	0.30158	0.581613
GTF2F2	-0.1276	0.192354	-0.39277	0.141598	0.348651	0.159443	0.002751	0.297886	-0.06863	0.467918	-0.35974	0.241008	0.325212	0.999479	0.007608	0.946681
GTF2H1	0.021638	0.275403	-0.23559	0.179706	0.87307	0.039941	0.077705	0.181024	-0.05292	0.404167	-0.23581	0.238431	0.363426	0.997329	0.059448	0.944725
GTF2H3	0.046834	0.311532	-0.27396	0.08139	0.729385	0.019429	0.039194	0.547262	-0.114	0.545827	-0.1817	0.371441	0.225312	0.999956	0.116132	0.994482
GTF2H4	0.124569	0.008605	0.002685	0.171867	0.355882	0.949812	0.984185	0.201124	0.015437	0.273852	-0.1744	0.277732	0.540551	0.967235	0.125946	0.969174
GTF2I	-0.06724	0.462113	-0.31713	0.118104	0.619217	0.000337	0.016232	0.381585	0.007696	0.648941	-0.15384	0.400731	0.520243	0.999999	0.156492	0.997108
GTF3A	-0.13146	0.387701	-0.35928	0.125268	0.329677	0.003154	0.006057	0.353166	-0.22731	0.452142	-0.26022	0.20551	0.064351	0.999196	0.042139	0.914681
BRF1	-0.07691	-0.14932	0.127354	-0.2641	0.569604	0.272025	0.345144	0.047125	-0.21953	-0.20049	0.054979	-0.09565	0.071339	0.090778	0.640092	0.263583
GUCY1B2	0.063844	-0.12146	0.141956	-0.28384	0.637061	0.372523	0.292183	0.032378	-0.00966	-0.1084	0.13121	-0.16396	0.47488	0.239226	0.802051	0.140912

GTF3C1	-0.13755	0.232544	-0.17271	-0.24626	0.312065	0.087545	0.203067	0.067317	-0.41464	0.363121	-0.24841	0.100813	0.002085	0.993437	0.049942	0.747497
GTF3C2	-0.2155	0.343781	-0.33417	0.194042	0.110701	0.010175	0.011833	0.151861	-0.17991	0.609076	-0.26861	0.390802	0.115769	0.999996	0.037203	0.996377
BLNK	-0.0723	0.238296	0.007641	0.451337	0.596435	0.079775	0.955426	0.000481	-0.39594	0.538021	-0.10821	0.509987	0.003227	0.999942	0.239622	0.999853
USP25	-0.01091	0.104755	-0.12835	0.16179	0.935803	0.44228	0.341346	0.229221	0.185299	0.091087	-0.01305	0.129035	0.89119	0.726425	0.466087	0.803628
PAC3IN3	-0.04157	0.133552	-0.02572	-0.05003	0.758817	0.326456	0.849408	0.711682	0.063281	0.246969	-0.04472	0.050318	0.661954	0.951004	0.385255	0.630091
TMOD4	-0.02608	-0.18598	0.117796	-0.2961	0.847299	0.169942	0.382835	0.025326	-0.09105	-0.24057	0.362081	-0.09706	0.273664	0.053648	0.99274	0.260533
TMOD3	-0.08199	0.376228	-0.38101	0.082454	0.544286	0.004267	0.003456	0.542017	-0.10389	0.613602	-0.13184	0.422098	0.246006	0.999997	0.193992	0.998261
TMOD2	0.183447	-0.20722	0.029609	0.323965	0.171961	0.125431	0.826933	0.013956	0.266977	-0.34719	0.199425	-0.23397	0.963562	0.009038	0.905472	0.058791
GUCY1A2	0.206635	-0.23753	0.213594	0.028346	0.123026	0.07794	0.110635	0.834208	0.160992	-0.2745	0.400575	-0.03471	0.857429	0.032436	0.996802	0.409434
POM121L9	-0.01235	-0.14306	0.134005	-0.16848	0.927372	0.292872	0.320326	0.210293	0.090851	-0.22312	0.133964	-0.28117	0.725903	0.068052	0.809847	0.029187
CARD10	0.011036	-0.06932	0.173145	-0.02218	0.935061	0.611705	0.197742	0.86991	0.18254	-0.15933	0.119922	-0.02949	0.887666	0.14511	0.783675	0.422882
ABT1	0.077861	0.176454	-0.12756	0.262662	0.564823	0.193288	0.344371	0.04839	-0.09161	0.58339	-0.12046	0.349631	0.272422	0.99999	0.215286	0.991385
GUCA1A	0.029781	-0.23204	0.239053	-0.2164	0.825942	0.085279	0.073311	0.105922	0.034153	-0.25228	0.189105	-0.13035	0.589138	0.045375	0.893273	0.19394
PARVB	0.328513	-0.26849	0.377979	0.119858	0.012598	0.045414	0.003745	0.374504	0.19816	-0.34019	0.325915	-0.04417	0.906605	0.010354	0.985549	0.385344
NCAPH2	-0.00545	-0.09755	0.054127	0.048516	0.967933	0.474449	0.689239	0.720055	-0.01428	0.131556	-0.00708	0.072591	0.462486	0.808258	0.481588	0.68418
CYP2S1	-0.05246	0.285825	-0.14619	-0.15527	0.700992	0.034396	0.282317	0.253159	-0.23956	0.637501	-0.20153	0.406839	0.054411	0.999999	0.092172	0.997491
OLA1	-0.0086	0.234168	-0.1092	-0.11252	0.949346	0.082374	0.418755	0.404647	-0.0177	0.381493	-0.12701	0.091231	0.453535	0.995551	0.202876	0.726742
GUCA1B	-0.18793	-0.13352	0.081568	-0.15818	0.161531	0.326585	0.546382	0.239915	-0.06418	-0.31486	0.137213	-0.29399	0.335878	0.016535	0.815623	0.023678
UCRC	-0.33571	0.257578	-0.23207	-0.01538	0.011425	0.057624	0.085243	0.910404	-0.30547	0.51068	-0.37593	0.408842	0.01949	0.999856	0.005464	0.997607
C2orf27	0.149925	0.157655	0.024691	0.021477	0.265649	0.245866	0.855336	0.874005	-0.0912	0.249531	0.026956	0.055634	0.27333	0.952777	0.569764	0.643275
YPEL1	-0.01953	-0.22637	0.196638	0.078528	0.885333	0.093416	0.142634	0.561485	0.141271	-0.40625	0.049547	-0.34237	0.825488	0.002544	0.626736	0.009928
GUCA2A	0.057558	-0.21964	0.23091	-0.11687	0.670634	0.103851	0.083962	0.386605	0.11445	-0.28519	0.201447	-0.262	0.775585	0.02736	0.907741	0.039292
ZDHC1	-0.2175	-0.21736	0.02288	-0.35754	0.104115	0.107568	0.865845	0.006324	-0.23962	-0.25778	-0.06859	-0.23055	0.054369	0.041849	0.327178	0.061602
ZDHC8	0.089351	-0.11584	0.208644	-0.01677	0.508635	0.395204	0.119346	0.901476	0.097559	-0.06993	0.059816	-0.10369	0.740539	0.322111	0.65185	0.246429
VPREB3	0.000542	-0.27628	0.175868	-0.13302	0.99681	0.03929	0.190674	0.323912	0.095232	-0.47622	0.272036	-0.33119	0.735505	0.000411	0.96468	0.012279
REPIN1	-0.14118	-0.07816	0.149127	-0.2199	0.299315	0.570573	0.272667	0.103432	-0.24695	0.144817	0.090548	0.044232	0.050981	0.828726	0.720572	0.613521
GUCA2B	-0.00484	0.025704	0.129396	-0.08946	0.971471	0.850841	0.337398	0.508103	0.202265	-0.29887	0.16735	-0.28638	0.91118	0.021813	0.864072	0.026835
GUCY1A3	0.303995	-0.12135	0.169271	0.38316	0.021507	0.372992	0.208116	0.003262	0.17116	0.118314	0.19202	0.351103	0.8723	0.783221	0.896824	0.991632
GUCY1B3	0.315334	-0.07422	0.112899	0.290026	0.016881	0.586704	0.403062	0.02864	0.388498	-0.11652	0.274254	0.080221	0.996186	0.220301	0.965857	0.701932
GUCY2C	0.032858	0.062139	0.130128	-0.25569	0.808284	0.649142	0.334648	0.054901	0.121228	-0.41622	0.061876	-0.43431	0.788882	0.002007	0.656815	0.001281
GRHL1	-0.06977	0.373662	-0.11869	-0.40665	0.609362	0.004953	0.383631	0.00187	-0.27005	0.443315	-0.15467	0.181476	0.03476	0.998984	0.155181	0.886286
TFCP2L1	0.03474	-0.22613	0.099846	0.085439	0.797526	0.093774	0.459924	0.527443	0.421462	-0.14453	0.175153	-0.32495	0.998033	0.171765	0.872274	0.014705
SENP1	0.077158	0.412452	-0.27639	0.176508	0.568357	0.001584	0.037416	0.189041	0.19866	0.51035	-0.17561	0.362997	0.907171	0.999855	0.124274	0.99342
TFPT	-0.15853	-0.08646	0.0502	-0.12185	0.238864	0.52634	0.710756	0.366573	-0.35454	-0.10072	0.053676	-0.0368	0.007812	0.2527	0.636902	0.40407
TRPM5	-0.09662	-0.18948	0.164082	-0.09636	0.474611	0.161904	0.222603	0.47583	0.073734	-0.32127	0.154247	-0.30412	0.686866	0.014738	0.844154	0.019947
ICOS	-0.13814	-0.03478	-0.18855	0.330099	0.305478	0.799141	0.160145	0.012152	-0.13809	-0.18958	-0.0535	-0.12275	0.182827	0.10614	0.365082	0.210904
UBN1	-0.22345	0.011929	-0.04167	-0.10001	0.094759	0.930468	0.758271	0.459202	-0.13565	-0.2328	-0.09272	-0.28723	0.184368	0.059743	0.272325	0.026467
GUCY2F	-0.16032	-0.26781	0.112944	-0.31128	0.237865	0.048062	0.407223	0.019531	-0.06936	-0.35594	0.099662	-0.34889	0.323473	0.007596	0.742594	0.008741
GUK1	-0.02192	-0.17182	0.085584	0.035743	0.871434	0.205431	0.526737	0.791809	0.069502	-0.19052	0.004912	-0.14191	0.676871	0.102346	0.512775	0.17341
ALG5	0.01148	0.212906	-0.0431	0.358514	0.933078	0.118609	0.752467	0.006664	-0.02533	0.343873	-0.14343	0.209255	0.433638	0.990356	0.173618	0.918596
NPC1L1	0.001538	-0.22488	0.190858	-0.14135	0.991023	0.098803	0.158827	0.298736	0.123928	-0.1654	0.180507	-0.13017	0.794051	0.135983	0.882304	0.194286
ANAPC2	-0.09955	-0.09914	0.109213	0.032342	0.461263	0.467237	0.418691	0.811239	-0.10689	0.016872	-0.09269	-0.08609	0.239767	0.544307	0.272396	0.284723
CNOT7	-0.02861	0.306511	-0.21929	0.159378	0.832709	0.021585	0.101226	0.236332	0.085572	0.492155	-0.12601	0.359744	0.714114	0.999744	0.204733	0.992967
SNX8	-0.17393	0.003748	-0.0065	-0.10334	0.195694	0.978127	0.961735	0.444305	-0.14624	0.059761	-0.05205	0.024602	0.166079	0.6534	0.367082	0.56446
SNX10	-0.04816	-0.23722	0.14774	0.151725	0.724486	0.081187	0.277203	0.264305	-0.05527	-0.54274	0.214148	-0.21788	0.357622	4.87E-05	0.921109	0.072889
STRN4	-0.11645	-0.01867	0.031195	-0.05547	0.388344	0.891359	0.817817	0.681911	-0.10222	0.103797	0.09215	0.002515	0.252011	0.751284	0.724054	0.50654
GNL2	-0.10297	0.395523	-0.34729	0.121151	0.44595	0.002552	0.008125	0.369336	-0.02395	0.447826	-0.10823	0.261961	0.437223	0.999098	0.23957	0.960683
RBM15B	-0.0745	-0.0106	-0.01727	0.047659	0.581797	0.938203	0.898565	0.724805	-0.04889	0.286452	-0.16597	0.075998	0.373476	0.973197	0.137939	0.69216
PSMC3IP	-0.26101	0.034267	-0.14039	-0.31234	0.049874	0.802029	0.297587	0.01801	-0.37837	0.052952	-0.14248	-0.02263	0.00476	0.636642	0.175244	0.440668
CPSF1	0.112638	-0.06779	0.146697	0.005424	0.404157	0.619598	0.276197	0.968061	-0.02074	0.187625	-0.06264	0.072678	0.445588	0.894102	0.341348	0.684386

MYLPF	0.011279	-0.15957	0.290131	-0.07993	0.933637	0.240096	0.028579	0.554505	0.111067	-0.46091	0.146525	-0.3539	0.768782	0.000633	0.831588	0.007914
TRA2A	-0.02553	0.149416	-0.23326	0.125493	0.85045	0.271729	0.080776	0.352296	-0.03943	0.398294	-0.26024	0.290052	0.397372	0.996942	0.042129	0.974729
GPSM2	0.001842	0.224048	-0.23377	0.147664	0.98925	0.100093	0.082914	0.277454	-0.00566	0.670933	-0.26794	0.463027	0.485119	1	0.037579	0.999403
GUSB	0.009321	0.173791	-0.1703	0.245243	0.945139	0.200204	0.205332	0.065957	-0.14542	0.620166	-0.29312	0.393486	0.167459	0.999998	0.025342	0.996589
SAC3D1	-0.01173	-0.15401	0.230085	-0.08143	0.931017	0.257084	0.085105	0.547083	0.103488	-0.32356	0.175937	-0.25469	0.753143	0.014137	0.876171	0.043804
C12orf24	0.035764	0.019548	-0.04734	-0.2341	0.793568	0.887352	0.729	0.082466	0.167129	-0.34278	-0.00378	-0.3547	0.863751	0.010582	0.490295	0.008408
CCDC106	-0.14532	0.004674	0.215464	-0.15	0.280789	0.972728	0.107474	0.265415	0.026025	-0.3287	0.153011	-0.27438	0.568156	0.01286	0.842182	0.032496
EEF2K	-0.14178	-0.10084	0.082676	0.007164	0.297258	0.463842	0.544665	0.958208	-0.07655	0.051847	-0.11858	-0.06607	0.306552	0.633898	0.218933	0.331332
ST8SIA5	-0.19619	-0.16723	0.202754	-0.29054	0.143573	0.217996	0.13038	0.028347	-0.12571	-0.53622	0.045505	-0.51126	0.202586	6.13E-05	0.616699	0.000141
SNX15	0.077942	-0.05148	0.123794	0.003793	0.564421	0.706315	0.358904	0.977658	0.010914	0.115287	-0.03243	0.071962	0.528695	0.777252	0.416266	0.682697
GPR171	0.113957	-0.15558	0.065757	0.446859	0.403001	0.256707	0.63016	0.000555	-0.16008	-0.27058	-0.06031	0.079912	0.146755	0.036109	0.348676	0.699101
HOOK2	-0.04994	0.05848	-0.03252	-0.14159	0.714751	0.671491	0.811925	0.297913	-0.02688	0.072857	-0.22876	-0.14906	0.430425	0.682826	0.067637	0.164227
UBIAD1	-0.07826	0.051312	0.023396	0.009545	0.56283	0.707233	0.862849	0.943823	0.02432	0.02806	0.001313	-0.17335	0.563729	0.57343	0.503415	0.124638
HCFC2	0.104795	-0.01114	-0.12072	0.158609	0.437871	0.935032	0.371065	0.238629	0.132927	0.002581	0.128162	0.126636	0.81075	0.506792	0.799268	0.799162
SNX11	-0.08098	-0.05137	-0.0078	0.002774	0.549284	0.706931	0.954062	0.983663	0.077079	0.121605	0.02563	0.054734	0.694675	0.789607	0.566362	0.641056
C18orf8	-0.09622	0.280249	-0.28022	0.225564	0.476478	0.036438	0.034753	0.091591	-0.0169	0.315273	-0.06191	0.123231	0.455631	0.983587	0.34311	0.792724
GYG1	-0.00144	0.231577	-0.18933	0.336534	0.991595	0.088908	0.162245	0.011211	0.120655	0.289233	-0.04882	0.296511	0.787776	0.974387	0.375056	0.977301
PYCR2	-0.05637	-0.06565	0.073263	-0.05852	0.677066	0.630693	0.588097	0.665461	-0.18319	0.055613	0.038708	-0.03841	0.114193	0.641641	0.598498	0.401106
NME7	-0.08806	-0.02257	-0.09643	-0.14667	0.514814	0.868845	0.475505	0.276287	-0.27837	-0.14761	-0.02476	-0.02798	0.030519	0.163801	0.435877	0.42677
HIG2	-0.1811	-0.1098	-0.07892	-0.28314	0.177614	0.420481	0.559512	0.032828	-0.23983	-0.19962	-0.08992	-0.17662	0.054207	0.091744	0.278452	0.120161
EPN1	-0.09663	-0.08396	0.16497	-0.18889	0.474557	0.53842	0.220075	0.159375	-0.0788	-0.23781	-0.00467	-0.26402	0.30343	0.057853	0.488001	0.039843
GMPPB	-0.09014	-0.13927	0.165534	0.055144	0.504862	0.305987	0.218481	0.683701	-0.09493	-0.01283	-0.05095	0.001288	0.265145	0.466267	0.369795	0.50339
GMPPA	-0.00093	-0.00944	0.149689	0.070358	0.994545	0.944974	0.26641	0.603014	0.083067	0.203892	-0.02534	0.092882	0.70844	0.912947	0.434383	0.730376
SEC61A1	0.148642	0.169352	0.045975	0.275044	0.269807	0.212116	0.734163	0.038391	-0.02151	0.465061	-0.26907	0.476213	0.443579	0.999436	0.036946	0.999589
TIMM22	-0.08562	0.171323	-0.20861	0.12905	0.526582	0.206768	0.119412	0.338704	-0.05398	0.438451	-0.24595	0.154799	0.360801	0.998848	0.051702	0.847839
ALG6	0.006673	0.358573	-0.29499	0.183224	0.960706	0.006654	0.025906	0.172491	-0.07335	0.558675	-0.23672	0.365242	0.314033	0.999973	0.058721	0.993718
GYPA	-0.05029	-0.24707	0.074528	-0.1821	0.712837	0.068986	0.585136	0.179193	0.015148	-0.54298	-0.1083	-0.45577	0.539336	5.82E-05	0.242047	0.000827
PCDHB1	-0.09267	-0.27015	0.117589	-0.34658	0.496953	0.046069	0.388078	0.008878	-0.2675	-0.32711	0.055228	-0.25789	0.03615	0.013246	0.640701	0.04178
GPR132	-0.06162	-0.26945	0.090375	0.378803	0.64884	0.044618	0.503768	0.003665	-0.03888	-0.31256	0.198482	-0.17046	0.399907	0.01829	0.901748	0.131462
SNX12	0.001128	0.284046	-0.05068	0.191973	0.993416	0.035583	0.710656	0.156362	-0.15597	0.628532	-0.31747	0.493133	0.15032	0.999999	0.016792	0.999751
RPA4	-0.03528	-0.1376	-0.00696	-0.06206	0.794459	0.311857	0.959038	0.646518	0.336195	-0.40584	0.049125	-0.31536	0.988825	0.002568	0.62569	0.016387
NENF	0.183389	-0.10143	0.152726	0.062058	0.172098	0.456991	0.25672	0.64653	0.257774	0.034359	0.150955	-0.03596	0.958145	0.589667	0.838871	0.406229
GYPB	0.11328	0.020239	0.201798	-0.1162	0.40147	0.8823	0.132242	0.389368	0.044296	-0.41413	0.063376	-0.39245	0.614974	0.00211	0.660414	0.003491
DSE	0.039889	0.258375	-0.33835	0.044956	0.768299	0.05452	0.010044	0.739846	0.114348	0.29616	-0.05436	0.316919	0.775381	0.977166	0.361416	0.984062
PKN3	0.091853	-0.23763	0.253733	0.042664	0.49679	0.077815	0.056845	0.752676	0.135115	-0.22308	0.192635	-0.08843	0.814684	0.068087	0.897562	0.279481
PURG	0.078572	-0.29373	0.214563	-0.1764	0.561266	0.028005	0.108989	0.189305	0.166206	-0.40105	0.144231	-0.26197	0.86519	0.002871	0.827737	0.039311
PADI1	-0.14135	0.323568	-0.13702	-0.19407	0.298745	0.015964	0.313928	0.151812	-0.1412	0.576168	-0.22611	0.301795	0.174639	0.999986	0.067645	0.979242
PNMA3	-0.01196	-0.23151	0.223775	-0.13674	0.929648	0.086018	0.094263	0.310454	0.076861	-0.34157	0.254866	-0.25243	0.694168	0.010083	0.954449	0.045279
ANAPC4	-0.08652	0.105077	-0.12345	0.00348	0.522189	0.440868	0.360267	0.979503	-0.07311	0.225053	-0.0696	0.113672	0.314603	0.933676	0.324808	0.774031
SERTAD3	0.179804	0.144487	-0.041	0.105991	0.180782	0.288034	0.762032	0.432629	0.380566	0.344755	-0.01536	0.138419	0.995461	0.99052	0.460119	0.820532
DNMT3L	-0.07465	-0.07267	0.122255	-0.28278	0.581036	0.59453	0.364958	0.033062	-0.01384	-0.28072	0.073346	-0.31809	0.463634	0.029396	0.683967	0.015606
OSGIN1	-0.02666	0.10829	0.228756	-0.13791	0.843938	0.426944	0.086973	0.306279	-0.02943	-0.08337	0.056654	-0.0634	0.42303	0.290874	0.644178	0.337761
IL19	0.021414	-0.13807	0.130151	-0.18198	0.87437	0.310214	0.334566	0.175466	0.197444	-0.1498	0.021574	-0.21371	0.90579	0.160196	0.555933	0.076921
GYPC	0.081165	-0.32552	0.098671	0.171518	0.548375	0.014361	0.465248	0.202053	0.221736	-0.6298	0.153767	-0.41855	0.928388	1.78E-06	0.840509	0.002109
SERTAD1	0.015165	-0.13546	0.031795	0.021617	0.910851	0.319516	0.814374	0.873191	0.228842	-0.00572	0.065545	-0.07241	0.936961	0.484965	0.665593	0.31624
PDZRN4	0.263555	-0.3121	0.190977	-0.21419	0.047604	0.019198	0.154725	0.109617	0.117656	-0.40468	0.074652	-0.29121	0.779269	0.002914	0.684955	0.026139
DPP7	-0.09848	-0.14854	0.074249	0.008604	0.466114	0.274593	0.583071	0.94935	0.009325	-0.09351	-0.03118	-0.06066	0.524238	0.270617	0.420384	0.346102
TRHDE	0.323062	-0.29377	0.092399	0.09295	0.016139	0.031076	0.502253	0.499696	0.279754	-0.35029	0.396085	-0.09287	0.968641	0.009163	0.996111	0.271998
POMT2	-0.09435	-0.04445	0.160082	-0.17943	0.489158	0.747269	0.23858	0.185772	-0.35914	0.228484	-0.24493	0.14832	0.00712	0.936655	0.052444	0.837375
LASS2	0.048391	-0.01017	-0.1539	0.227788	0.720746	0.940716	0.253024	0.088354	0.053466	0.384142	-0.13122	0.275991	0.637917	0.995801	0.195105	0.968315

SLC25A24	0.061107	0.093072	-0.1736	-0.0949	0.657628	0.499133	0.204969	0.490693	-0.04438	0.308606	-0.03972	0.265976	0.384803	0.981542	0.397803	0.963001
DMGDH	0.071959	-0.13852	0.082802	-0.18942	0.598174	0.313169	0.544049	0.162057	-0.20551	-0.40554	0.129709	-0.23888	0.085324	0.002586	0.802122	0.054931
NRBP1	0.017937	0.118512	-0.16664	0.08199	0.89561	0.388819	0.219643	0.548021	-0.05303	0.508388	-0.26787	0.272955	0.363167	0.999845	0.037615	0.966773
GYPE	-0.12863	-0.03275	0.014492	-0.14834	0.340305	0.810652	0.914792	0.270784	0.04944	-0.4515	0.07641	-0.45633	0.627897	0.000818	0.691068	0.000718
FTSJ2	-0.16459	0.113081	-0.09429	-0.06911	0.22115	0.406651	0.485375	0.609498	-0.25624	0.260067	-0.22551	0.146707	0.042817	0.95955	0.068181	0.834701
PRICKLE4	-0.05309	0.098066	-0.00781	-0.00598	0.694914	0.472113	0.954034	0.964795	0.041666	0.149624	-0.00285	0.122435	0.608318	0.839516	0.492586	0.791203
C16orf5	0.089368	-0.09491	0.132786	-0.06985	0.508555	0.486543	0.324787	0.605657	0.055872	-0.06636	0.026511	-0.14847	0.643862	0.330629	0.568623	0.162384
STRN3	0.067067	0.157242	-0.17712	0.142021	0.620116	0.247121	0.187493	0.291958	0.269129	0.186502	-0.02679	0.161008	0.964745	0.892703	0.430669	0.857453
LRP12	0.202358	-0.27456	0.054503	0.395071	0.134738	0.042496	0.689923	0.002584	0.107857	0.131695	-0.14166	0.1368	0.759666	0.80575	0.179506	0.814896
PSAT1	0.12562	0.145761	-0.08851	0.384339	0.351806	0.283759	0.512628	0.00316	0.005634	0.481575	-0.36426	0.430914	0.51482	0.999649	0.006949	0.998603
MDFIC	0.007538	-0.20783	0.175168	-0.0513	0.955621	0.124291	0.192476	0.704712	0.204904	-0.3215	0.254741	-0.25777	0.911529	0.015638	0.952419	0.043677
GYS1	-0.01655	0.127851	0.000381	0.082331	0.902773	0.347715	0.997757	0.542626	-0.08852	0.374066	-0.16035	0.280622	0.279272	0.994781	0.146348	0.970557
SCHIP1	0.100714	-0.13304	0.156742	-0.04624	0.456013	0.328324	0.244274	0.732696	0.229846	-0.33741	0.13581	-0.31185	0.935604	0.011705	0.813142	0.018518
A1CF	0.011105	-0.23765	0.139094	-0.17404	0.934657	0.077791	0.302121	0.195395	0.080149	-0.36708	0.114718	-0.30709	0.701767	0.006047	0.773487	0.018949
UBQLN2	0.08304	0.25386	-0.18937	-0.05387	0.539142	0.059036	0.158288	0.690657	-0.03358	0.327857	0.023451	0.180056	0.413344	0.986047	0.560052	0.881708
UBQLN1	0.12444	0.264411	-0.22436	0.231458	0.356384	0.048925	0.093377	0.083209	0.045245	0.460076	-0.11491	0.331048	0.617366	0.999352	0.22613	0.987689
GYS2	-0.09622	-0.25659	0.084158	-0.52435	0.476483	0.056267	0.533674	2.83E-05	0.024223	-0.53476	0.086882	-0.391	0.562748	7.71E-05	0.712527	0.003956
DONSON	0.00967	0.374104	-0.18797	-0.20202	0.943087	0.004507	0.161454	0.131799	0.134898	0.229436	0.069348	0.068922	0.811518	0.935253	0.67267	0.673597
NRBF2	0.093162	0.080741	-0.01117	-0.28448	0.490647	0.554151	0.934254	0.031973	0.155367	-0.18044	0.147766	-0.41312	0.848736	0.115071	0.833648	0.002162
RHOD	-0.13597	0.122538	-0.04795	-0.3577	0.317682	0.37279	0.725657	0.006797	-0.19092	0.252076	-0.228	0.002978	0.101871	0.954488	0.065991	0.507835
SLC39A3	0.034877	-0.0629	0.233729	0.002156	0.796744	0.645124	0.080145	0.987303	-0.16564	0.174211	-0.04419	0.16795	0.135644	0.876552	0.386577	0.867723
SLC39A2	-0.00447	0.133739	-0.09952	-0.28018	0.973653	0.325774	0.461379	0.034779	-0.06136	0.096463	-0.09696	-0.07557	0.342713	0.738176	0.263158	0.308828
SLC2A8	-0.02331	-0.01749	0.133165	0.041264	0.863376	0.898218	0.323395	0.760544	-0.04167	0.092148	-0.10865	-0.04736	0.391662	0.728763	0.23872	0.377303
OBP2B	-0.02292	-0.18139	0.163735	0.034703	0.866848	0.185067	0.227892	0.799561	0.20025	-0.3629	0.129142	-0.23264	0.908955	0.006593	0.801078	0.059869
GZMH	-0.05551	-0.23162	0.240983	0.240234	0.681704	0.085868	0.070951	0.07186	0.034107	-0.38336	0.096917	-0.23786	0.589019	0.004271	0.736744	0.055713
PILRB	-0.06602	0.070383	-0.01335	-0.06852	0.62558	0.606232	0.921485	0.612518	-0.0147	0.085453	-0.12297	0.001599	0.461368	0.713846	0.210487	0.504207
OBP2A	0.078919	-0.32914	0.167175	-0.10787	0.559534	0.013251	0.213887	0.424485	0.071309	-0.41752	0.124985	-0.26242	0.681155	0.001945	0.793335	0.039045
PILRA	-0.01899	-0.28501	0.176788	-0.20824	0.888516	0.033248	0.18833	0.120075	0.135192	-0.60023	0.247865	-0.51386	0.812043	6.55E-06	0.947625	0.000153
PACSIN1	0.015156	-0.05449	0.246574	-0.17922	0.910907	0.689989	0.064456	0.182221	0.126819	-0.32716	0.192021	-0.26091	0.799505	0.013232	0.896826	0.039945
BAZ2B	0.077642	0.062814	-0.06903	-0.06788	0.565925	0.645581	0.609896	0.615858	0.131895	0.040477	0.086805	-0.04352	0.806112	0.604109	0.712356	0.388267
LMCD1	0.236454	-0.35655	0.306049	0.226476	0.076587	0.006991	0.020597	0.090253	0.462845	-0.47975	0.296736	-0.31392	0.9994	0.000371	0.976114	0.016812
GLTSCR2	0.098396	0.048979	-0.07144	0.151575	0.470618	0.722508	0.600831	0.264784	0.234978	0.064743	0.008749	-0.04009	0.942018	0.665482	0.522744	0.395692
GLTSCR1	-0.0235	-0.02493	0.216478	-0.20083	0.862266	0.855288	0.105791	0.134153	0.056997	-0.27711	0.193592	-0.37759	0.646631	0.031132	0.898704	0.004841
FSCN3	-0.19381	-0.19241	-0.03128	-0.17123	0.148584	0.155392	0.817333	0.202831	0.012903	-0.28507	0.065143	-0.38306	0.533911	0.027411	0.664636	0.004299
ACAA1	0.070631	-0.0802	0.106662	0.041582	0.604962	0.560553	0.43397	0.760912	-0.02086	0.112012	-0.15477	0.013491	0.445278	0.770694	0.155018	0.535454
GUCY2D	-0.04843	-0.2291	0.188592	-0.22495	0.720507	0.089432	0.160039	0.092502	0.084211	-0.40856	0.191962	-0.30064	0.711037	0.002409	0.896754	0.021172
TNPO2	-0.07691	0.074099	-0.114	0.166352	0.573183	0.590819	0.40281	0.220445	-0.16605	0.396146	-0.15153	0.240113	0.135044	0.996788	0.160206	0.946008
ERO1L	-0.13448	0.367926	-0.215	0.284921	0.323069	0.005717	0.111536	0.033304	-0.11612	0.534611	-0.16706	0.384477	0.221091	0.999935	0.136345	0.995832
EFEMP2	0.1826	-0.26872	0.175055	0.181756	0.173983	0.045223	0.192767	0.176014	0.166451	-0.15161	0.09123	0.032716	0.865548	0.157251	0.724416	0.585445
TBX21	-0.03711	-0.18694	0.284426	-0.03804	0.784062	0.167725	0.032009	0.778767	0.012582	-0.4668	0.132823	-0.31151	0.533071	0.000537	0.807793	0.017544
GZMA	-0.15519	-0.18499	0.027088	0.553453	0.257893	0.180516	0.844366	1.17E-05	-0.05225	-0.35344	0.056042	-0.23244	0.366588	0.008617	0.64107	0.062206
NXPB1	-0.00238	-0.12371	0.144875	-0.13885	0.985979	0.363661	0.282268	0.302982	0.128828	-0.39061	0.198434	-0.35025	0.803246	0.003638	0.904345	0.008511
SH3KBP1	0.001312	-0.16719	-0.00779	0.085125	0.992343	0.222451	0.954575	0.53277	-0.09238	0.204193	0.0574	0.16847	0.273058	0.91076	0.644343	0.865692
TLX3	-0.23343	-0.09691	0.102311	-0.10975	0.080536	0.477356	0.448863	0.416403	0.13161	-0.42637	0.095246	-0.40842	0.808356	0.001565	0.733149	0.002418
GZMB	-0.16359	-0.16263	0.030285	0.487941	0.232705	0.240019	0.826268	0.000158	-0.22309	-0.23969	0.080151	-0.04489	0.070367	0.056384	0.697487	0.384837
GZMK	0.028002	-0.15722	-0.01498	0.446868	0.836194	0.247189	0.911943	0.000493	-0.24895	-0.20821	-0.05385	-0.07982	0.049566	0.08495	0.364228	0.301103
GZMM	-0.00392	-0.13008	0.346912	-0.12335	0.976885	0.339316	0.008199	0.36066	0.178825	-0.38163	0.205997	-0.276	0.882797	0.004436	0.912704	0.03168
H1FO	0.079151	-0.28393	0.02253	-0.15703	0.558372	0.033951	0.86788	0.24339	0.270082	-0.25252	0.355491	-0.18829	0.965259	0.045219	0.991723	0.105075
HIST1H1C	0.029298	-0.01812	-0.18996	0.003764	0.82872	0.894524	0.15697	0.977829	-0.15719	0.353435	-0.18958	0.297659	0.148406	0.992012	0.106139	0.977735
SLC40A1	0.445859	-0.28084	0.137262	0.172506	0.000509	0.036028	0.308594	0.199429	0.590284	-0.23848	0.26576	-0.07814	0.999992	0.055241	0.961175	0.302876

RAX	0.00729	-0.19219	0.220622	-0.14564	0.957079	0.155893	0.099117	0.279707	0.009739	-0.34035	0.167855	-0.20732	0.525608	0.010323	0.864805	0.083412
HIST1H1D	0.054378	-0.14744	-0.06021	0.074719	0.687872	0.278206	0.656379	0.58068	-0.10151	0.29565	-0.05425	0.221579	0.251031	0.976971	0.361691	0.930554
HIST1H1E	0.107757	-0.00188	-0.17456	0.192526	0.424958	0.989049	0.194049	0.151345	-0.1909	0.477424	-0.29607	0.384241	0.101891	0.999603	0.024151	0.99581
HIST1H1B	-0.13994	0.158177	-0.221	0.020319	0.308182	0.253299	0.104925	0.882939	-0.24524	0.640491	-0.28598	0.445757	0.050221	0.999999	0.028429	0.999047
ANXA1	-0.07605	0.339506	-0.28505	-0.1525	0.577471	0.011218	0.03322	0.261832	-0.16135	0.523982	-0.24204	0.249899	0.142024	0.999907	0.054594	0.953027
HIST1H1T	-0.07972	-0.21891	0.04514	-0.24079	0.555526	0.105022	0.738819	0.07119	0.19446	-0.30447	0.132647	-0.3117	0.90234	0.019827	0.807476	0.017485
HIST1H2AE	-0.07198	0.040066	-0.25735	0.079394	0.598053	0.771487	0.055521	0.5608	-0.33238	0.614673	-0.34743	0.432194	0.012008	0.999997	0.009683	0.998648
H2AFX	-0.15601	-0.01475	-0.00718	-0.14935	0.246506	0.914105	0.95771	0.267516	-0.11591	0.093228	-0.07276	0.071395	0.22151	0.731134	0.317408	0.681359
H2AFZ	0.012672	0.02255	-0.26062	0.041578	0.926148	0.870194	0.052385	0.760935	-0.17692	0.590151	-0.33829	0.399593	0.11976	0.999992	0.011514	0.997031
HIST1H2BD	-0.1687	-0.00793	-0.32733	-0.21181	0.20968	0.953731	0.01294	0.113712	-0.25742	0.285673	-0.30855	0.208484	0.042073	0.972855	0.019594	0.9178
HIST1H2BB	0.03798	0.078813	-0.07071	-0.30631	0.781085	0.567349	0.604578	0.021676	-0.12795	0.25181	-0.19555	0.080707	0.198387	0.954312	0.098985	0.703049
ANXA2	-0.21196	0.412181	-0.34249	-0.03353	0.113461	0.001597	0.009111	0.804452	-0.16705	0.474475	-0.16094	0.324467	0.136358	0.999504	0.148324	0.985168
H3F3B	-0.02023	0.135087	-0.32027	0.221838	0.881284	0.320876	0.01515	0.097222	-0.03401	0.311519	-0.16541	0.32039	0.411227	0.98246	0.138761	0.985026
HIST1H1A	0.0344	0.023317	0.012251	-0.06924	0.803103	0.86709	0.929263	0.615428	-0.20346	0.56542	-0.20532	0.472462	0.087517	0.999979	0.088025	0.999542
HABP2	0.01384	-0.20241	0.072074	-0.13256	0.918612	0.134631	0.594184	0.325624	0.005361	-0.39926	0.169623	-0.23919	0.513941	0.003294	0.864499	0.056776
HSD17B10	0.097424	0.079416	0.005661	0.080165	0.475033	0.564381	0.966969	0.556991	-0.04428	0.492445	-0.3375	0.376118	0.385065	0.999746	0.011685	0.995004
HAGH	-0.06998	-0.34532	0.196234	-0.25259	0.604982	0.009145	0.143473	0.058007	-0.15267	-0.55725	0.030225	-0.52249	0.155545	2.88E-05	0.578123	9.77E-05
ANXA2P1	-0.15703	0.404941	-0.25432	-0.17039	0.24341	0.001963	0.056253	0.205086	-0.22156	0.432375	-0.19504	0.222713	0.069466	0.998654	0.099589	0.931585
HADHA	0.021995	0.313234	-0.29978	0.222981	0.872169	0.019881	0.02479	0.09856	-0.05218	0.529678	-0.21601	0.453576	0.365265	0.999923	0.077057	0.999227
HADHB	0.071083	0.337549	-0.35484	0.176211	0.599275	0.010954	0.006761	0.189797	-0.05905	0.554694	-0.18696	0.463664	0.348341	0.999968	0.109392	0.999413
HADH	-0.00142	0.070895	-0.22059	-0.09131	0.991652	0.603607	0.099169	0.49936	-0.18753	0.481222	-0.21176	0.17582	0.10602	0.999645	0.081287	0.878754
HAL	0.092743	-0.38671	0.250444	-0.31956	0.496608	0.003541	0.06265	0.016363	-0.02751	-0.31363	0.081267	-0.36499	0.428823	0.017954	0.700004	0.006847
HARS	-0.07974	0.249593	-0.1765	0.215824	0.55909	0.066104	0.193175	0.110145	-0.17105	0.634696	-0.34463	0.378425	0.127851	0.999999	0.010217	0.995246
HAS1	0.041401	-0.2103	0.330887	-0.1591	0.759776	0.119782	0.011935	0.237146	0.179394	-0.40897	0.218462	-0.27762	0.883552	0.002386	0.925311	0.03088
HAS2	0.169288	0.067659	-0.05782	0.46394	0.20807	0.620274	0.66923	0.000278	0.161084	0.254138	0.146275	0.43025	0.854767	0.953969	0.828297	0.998411
HAS3	0.011303	0.072622	-0.06648	0.112258	0.933498	0.594793	0.623181	0.405758	-0.0528	0.392539	-0.2324	0.26286	0.36374	0.996515	0.062244	0.961212
ANXA2P2	-0.0861	0.397834	-0.37125	-0.03054	0.524232	0.002394	0.004467	0.821566	-0.25655	0.55664	-0.23164	0.362687	0.042618	0.999971	0.062877	0.993378
HBM	-0.09976	-0.08337	0.099282	-0.13338	0.460336	0.541273	0.462475	0.322614	0.102277	-0.43269	0.133455	-0.51403	0.748107	0.001496	0.806103	0.000152
HBB	-0.01445	-0.65388	-0.04799	-0.25363	0.915053	4.65E-08	0.722996	0.056947	-0.10678	-0.72274	-0.00622	-0.58668	0.240004	7.08E-09	0.48382	9.14E-06
HBD	0.028718	-0.55859	0.068984	-0.38463	0.832063	7.68E-06	0.610129	0.003135	-0.04496	-0.73553	-0.00428	-0.63731	0.384671	4.33E-09	0.489002	1.25E-06
HBE1	-0.0499	-0.05761	0.115542	-0.12104	0.714939	0.676124	0.39645	0.374223	-0.00788	-0.30701	0.067416	-0.17277	0.479262	0.018977	0.670037	0.125447
HBQ1	-0.10274	-0.14345	0.066145	-0.07656	0.45115	0.291548	0.628138	0.574934	0.165176	-0.379	0.126419	-0.41535	0.863681	0.004696	0.796026	0.00205
ANXA2P3	0.028787	0.06916	0.321781	-0.14322	0.833195	0.615859	0.01559	0.292324	-0.14349	-0.26703	0.187922	-0.11889	0.170708	0.036407	0.891807	0.215654
HBZ	-0.0441	0.161299	-0.10015	-0.2036	0.744625	0.234983	0.45855	0.12875	-0.28272	0.148838	-0.25941	-0.10893	0.02847	0.838228	0.042642	0.235575
HCCS	-0.15275	0.366841	-0.25713	0.104966	0.256635	0.00542	0.053502	0.437117	-0.1121	0.492408	-0.07131	0.31257	0.229132	0.999746	0.320786	0.982782
SERPIND1	-0.10556	-0.00743	0.149851	-0.10937	0.438753	0.957037	0.270318	0.422324	0.020256	-0.35703	-0.03592	-0.37224	0.552537	0.00803	0.408472	0.005901
HCFC1	0.051059	0.052905	-0.01653	0.033114	0.706032	0.698575	0.902882	0.806816	-0.05111	0.511096	-0.20301	0.353373	0.367939	0.999858	0.090536	0.992002
HCK	-0.22617	-0.40165	0.027896	0.184178	0.090694	0.002154	0.836805	0.170229	-0.27632	-0.39365	-0.01468	-0.26767	0.03152	0.003399	0.461888	0.036056
HCLS1	-0.08283	-0.35248	0.037945	0.485635	0.540176	0.007714	0.779298	0.000129	-0.39216	-0.22317	0.088309	0.052991	0.003515	0.068002	0.717981	0.63674
ANXA3	-0.05994	0.285548	-0.21335	-0.07451	0.657848	0.032901	0.111056	0.581735	-0.0004	0.201744	-0.08074	0.036651	0.498947	0.908071	0.301181	0.594456
HCRT	-0.03233	-0.04881	0.200259	-0.27984	0.811293	0.72091	0.13528	0.035006	0.069027	-0.34903	0.199996	-0.32143	0.675743	0.008717	0.906117	0.014696
HCRTR1	0.037167	-0.19216	0.196571	-0.21268	0.785656	0.159882	0.146492	0.115545	0.19983	-0.31505	0.237476	-0.25061	0.908485	0.016479	0.941883	0.046493
HCRTR2	0.016049	-0.09837	0.21799	-0.20402	0.906542	0.474904	0.106533	0.131499	0.088892	-0.33959	0.021643	-0.31659	0.719272	0.011239	0.55545	0.017051
HTT	-0.20502	0.381189	-0.26771	0.218716	0.129582	0.004088	0.046068	0.105344	-0.21283	0.573979	-0.32375	0.375212	0.077796	0.999985	0.015025	0.994906
HDAC1	-0.02638	0.244538	-0.27393	0.240524	0.846939	0.071969	0.041058	0.074159	-0.1416	0.644294	-0.23506	0.460545	0.173946	0.999999	0.060054	0.999361
HDAC2	0.016722	0.288878	-0.31833	0.051711	0.901745	0.030829	0.015813	0.702449	-0.12203	0.440867	-0.16545	0.33855	0.209574	0.998917	0.138706	0.989315
HDC	0.066605	-0.0901	0.101123	0.437566	0.622535	0.509012	0.454176	0.000665	-0.27295	0.42841	-0.08914	0.604114	0.03323	0.998513	0.280184	0.999996
HDGF	-0.14138	0.071317	-0.09386	-0.26684	0.294163	0.60145	0.487389	0.044799	-0.34599	0.270921	-0.26167	0.125712	0.009254	0.965707	0.04125	0.797427
HDLBP	0.03998	0.104034	-0.01344	-0.06514	0.767787	0.445444	0.920956	0.630213	-0.05678	0.269422	-0.21851	0.101736	0.353909	0.964904	0.074647	0.749453
ANXA4	0.022837	0.124706	-0.23648	0.008439	0.8661	0.3598	0.076551	0.950321	-0.14105	0.443062	-0.0825	0.311449	0.174884	0.998978	0.295024	0.982438

HELLS	-0.06409	0.384512	-0.40544	0.176935	0.635778	0.003434	0.001756	0.187955	-0.102	0.720013	-0.24804	0.518346	0.25	1	0.050204	0.999888
NCKAP1L	-0.02796	-0.25362	0.000678	0.628804	0.836456	0.059289	0.996005	1.62E-07	-0.20338	-0.06581	0.003811	0.149184	0.08761	0.331949	0.509911	0.838796
HEXA	-0.11375	0.132319	-0.15111	0.181168	0.403852	0.335545	0.266267	0.181468	-0.11631	0.508419	-0.1398	0.402752	0.223375	0.999819	0.182701	0.996955
HEXB	0.182756	0.11837	-0.10185	0.279978	0.173608	0.384911	0.450924	0.034915	-0.08057	0.441523	-0.13382	0.353455	0.29727	0.998936	0.190408	0.992016
CFH	0.264247	-0.25093	0.013816	0.427655	0.047002	0.062124	0.918754	0.000906	0.264013	0.483009	0.149343	0.514699	0.960153	0.999611	0.833366	0.999851
HFE	0.190319	0.096601	-0.13508	0.023724	0.156179	0.478792	0.316421	0.860948	-0.18875	0.233789	-0.07347	0.18807	0.104512	0.941062	0.315734	0.894652
ANXA5	0.039553	0.090489	-0.09058	0.121839	0.772256	0.51117	0.506767	0.371038	0.08913	0.01316	0.07821	0.122883	0.722086	0.534585	0.695208	0.79206
CFHR2	0.036276	0.0478	-0.04156	0.274847	0.788778	0.72646	0.758881	0.038535	0.185626	0.069501	0.010786	0.296932	0.891602	0.676869	0.528031	0.977461
HGD	0.007894	0.002877	0.135152	-0.01303	0.953526	0.983212	0.316163	0.923353	-0.18227	0.049438	0.081088	0.076586	0.112687	0.627892	0.701779	0.69353
HUNK	-0.31802	0.220582	-0.06764	-0.27024	0.015919	0.102333	0.617103	0.042048	-0.13327	-0.03721	-0.06885	-0.10738	0.188623	0.403019	0.326579	0.238753
SOX8	0.046132	-0.21348	0.283875	-0.12673	0.73329	0.11416	0.032357	0.347537	0.194503	-0.44147	0.298234	-0.30981	0.90239	0.001066	0.976697	0.018074
VSX1	-0.07033	-0.05676	0.150664	-0.14625	0.603136	0.677747	0.263272	0.277662	0.025497	-0.4148	0.200853	-0.26313	0.566786	0.002077	0.907078	0.03863
PLA2G2E	-0.16995	0.000105	0.242378	-0.08583	0.206278	0.999387	0.069283	0.525553	0.074907	-0.16226	0.154713	-0.18433	0.689614	0.140657	0.844892	0.110042
ST6GALNA1	-0.18336	-0.11632	0.049525	-0.21694	0.172165	0.393245	0.714479	0.10503	-0.29354	-0.13976	-0.03783	-0.1009	0.023856	0.177119	0.402573	0.25233
ERVWE1	-0.06228	0.071248	0.107047	-0.11486	0.648378	0.60522	0.4323	0.399265	0.0163	-0.15906	-0.00368	-0.12428	0.542318	0.148326	0.490543	0.207995
EMR2	-0.07463	-0.17089	0.020102	0.261985	0.581147	0.207935	0.882013	0.048993	-0.23361	-0.04185	0.035793	-0.01294	0.061241	0.392455	0.591213	0.466373
KCNIP3	0.027346	-0.11797	0.187849	0.004737	0.839977	0.386519	0.161724	0.972105	0.268115	-0.07463	0.261251	-0.03215	0.964191	0.311028	0.958493	0.416023
KCNIP2	-0.02829	-0.21356	0.070985	-0.00556	0.834536	0.114023	0.599782	0.967269	0.085571	-0.2786	0.157331	-0.20912	0.714113	0.030408	0.849001	0.08154
HGF	0.11373	0.028791	0.000395	0.45368	0.399589	0.833171	0.997671	0.000394	0.070077	0.242294	0.073105	0.407769	0.678238	0.947638	0.683406	0.997545
KCNIP1	-0.06497	-0.00948	0.221643	-0.18005	0.631133	0.944742	0.097524	0.180164	0.155921	-0.36145	0.159178	-0.35507	0.849608	0.006792	0.851856	0.00773
CXXC1	-0.11725	-0.11973	0.109426	-0.05382	0.385043	0.37944	0.417776	0.690937	0.053556	0.072424	0.122593	-0.0327	0.636609	0.681817	0.786045	0.41558
HGFAC	-0.02124	-0.15198	0.200911	-0.22914	0.875384	0.26348	0.133987	0.086431	0.15169	-0.41704	0.181275	-0.3786	0.842872	0.001967	0.883313	0.004737
ZNF354C	0.246653	-0.00651	0.036511	0.152411	0.064368	0.962026	0.787439	0.257713	0.230578	0.084457	-0.00217	0.102488	0.938424	0.711596	0.494351	0.751041
NT5C	-0.17165	0.007882	0.051595	-0.07164	0.20588	0.954457	0.705694	0.599807	-0.06142	-0.02221	-0.01294	-0.12723	0.344288	0.442432	0.466771	0.202461
ZNRD1	0.102738	0.043824	-0.08544	0.267894	0.451162	0.750716	0.531249	0.045915	-0.07763	0.489805	-0.33206	0.306104	0.304053	0.999725	0.012923	0.980723
CD209	-0.06596	-0.03307	-0.02303	0.163546	0.625911	0.808788	0.864985	0.22414	-0.00731	-0.09756	0.10503	0.011034	0.480781	0.259452	0.753844	0.52901
DNTTIP2	-0.02568	0.225416	-0.31263	0.022345	0.849638	0.094843	0.017899	0.868955	-0.1803	0.323536	-0.17638	0.292578	0.115259	0.985857	0.12323	0.975762
SOCS7	0.079315	-0.13448	0.273274	-0.11339	0.557555	0.323088	0.039706	0.401011	0.135819	-0.28816	0.03844	-0.30557	0.81594	0.026068	0.598976	0.019455
NRG1	0.077826	0.062541	-0.12711	0.156096	0.564999	0.647021	0.346068	0.246248	0.030404	0.323612	-0.05303	0.371057	0.579488	0.985877	0.364694	0.994437
EHD4	-0.18178	0.010161	-0.14641	0.20846	0.175951	0.940751	0.277162	0.119679	-0.2798	0.367251	-0.30724	0.314953	0.029833	0.993975	0.020036	0.983493
EHD3	0.157149	0.146339	-0.08427	0.318512	0.243036	0.281833	0.533131	0.015749	-0.06819	0.291613	-0.28742	0.284297	0.326257	0.975371	0.027782	0.972244
EHD2	0.269139	-0.17882	0.130005	0.184214	0.042923	0.18728	0.33511	0.170144	0.313615	0.057532	0.146485	0.166298	0.983097	0.647945	0.83152	0.865325
CTAG2	-0.03344	-0.24487	0.214063	-0.11696	0.804933	0.068927	0.109836	0.386242	0.011623	-0.29329	0.074508	-0.23557	0.530554	0.023953	0.686668	0.057512
PIK3R4	0.125267	0.175334	-0.18929	0.155009	0.35317	0.196175	0.158472	0.249593	-0.08654	0.465091	-0.14288	0.36962	0.283699	0.999436	0.174554	0.994266
CDR2L	0.035661	-0.15447	0.148299	-0.11631	0.792277	0.255647	0.270929	0.388929	0.089893	-0.23544	0.009116	-0.04824	0.72378	0.057618	0.523697	0.375107
TAX1BP3	-0.10471	0.266058	-0.27254	0.217552	0.438261	0.047483	0.04026	0.104029	-0.09801	0.755786	-0.27037	0.521803	0.258495	1	0.036226	0.9999
HHEX	0.111429	-0.09589	0.119531	0.323735	0.413584	0.486175	0.380233	0.014937	0.100585	-0.19997	0.17626	-0.04913	0.747012	0.091353	0.876611	0.372871
ANXA6	0.304441	-0.39523	0.147522	0.385675	0.021307	0.002573	0.273473	0.003048	0.367843	-0.45063	0.27055	-0.10172	0.994049	0.000837	0.963874	0.250572
HIC1	-0.03719	-0.19627	0.196192	-0.00162	0.783591	0.147123	0.14356	0.990471	-0.14907	-0.1009	0.005584	-0.09447	0.161388	0.252318	0.514519	0.266148
HIF1A	0.12533	0.09791	-0.08155	0.502106	0.352928	0.472824	0.546457	6.91E-05	0.261459	0.310108	-0.03859	0.419641	0.960385	0.98202	0.40064	0.998153
HIP1	0.154466	-0.0565	-0.01919	0.275277	0.251276	0.679187	0.887303	0.038221	0.295867	0.009915	0.154821	0.097737	0.977054	0.526071	0.845063	0.740922
UBE2K	0.037099	0.312112	-0.23989	0.156679	0.784097	0.019192	0.072281	0.244464	0.100386	0.410167	-0.0668	0.32694	0.746588	0.99768	0.331426	0.986713
HINT1	-0.02578	0.366447	-0.35709	0.128732	0.849011	0.005474	0.006395	0.339905	-0.15414	0.541729	-0.33911	0.406552	0.153207	0.999949	0.011339	0.997474
HIVEP1	-0.13785	0.255312	-0.24965	0.233682	0.310978	0.059936	0.06351	0.083031	0.039269	0.409846	-0.1526	0.306553	0.602222	0.997663	0.158483	0.980872
STOML2	-0.11867	0.121622	-0.30912	0.139474	0.379272	0.371896	0.0193	0.300787	-0.2175	0.532275	-0.36253	0.394196	0.073248	0.99993	0.007195	0.996643
HIVEP2	-0.02888	0.085566	-0.15221	0.327193	0.831151	0.530641	0.258362	0.01298	0.037944	0.075787	-0.07957	0.210311	0.598844	0.691668	0.301673	0.919675
HK1	-0.0578	0.200865	-0.0642	-0.10199	0.672178	0.141434	0.63831	0.454487	-0.1397	0.516819	-0.17016	0.157554	0.177232	0.999882	0.131888	0.852156
HK2	-0.022	0.222466	-0.11137	-0.1085	0.870953	0.099361	0.409511	0.421774	-0.09426	0.284122	-0.17786	0.088598	0.266614	0.972166	0.121222	0.720899
ACACA	-0.16698	0.315411	-0.21694	0.02456	0.218687	0.018994	0.108273	0.857407	-0.14267	0.578754	-0.30857	0.357233	0.172115	0.999987	0.01959	0.992599
ANXA7	-0.01044	0.159355	-0.27764	0.142204	0.938579	0.240747	0.036526	0.291333	-0.23198	0.414406	-0.19868	0.323401	0.06041	0.997903	0.095375	0.985822

HK3	-0.02844	-0.35473	0.234198	-0.08964	0.833684	0.007306	0.079523	0.507276	0.089484	-0.40006	0.075902	-0.306	0.720578	0.003236	0.687824	0.020462
ZBTB48	-0.21713	0.046868	-0.0292	-0.11063	0.107949	0.734015	0.830864	0.416964	-0.19886	0.192275	-0.11898	0.085584	0.092601	0.899757	0.218143	0.714142
HLA-A	-0.14673	-0.10106	0.085717	0.544535	0.276087	0.458649	0.526093	1.19E-05	-0.07443	0.35476	-0.00476	0.460552	0.311511	0.992222	0.487629	0.999361
HLA-B	-0.0281	-0.09171	0.119761	0.69879	0.83563	0.501414	0.374894	1.50E-09	-0.1197	0.230889	-0.01331	0.465211	0.214086	0.938683	0.465433	0.999438
HLA-C	-0.11344	0.019146	0.023164	0.537406	0.4008	0.888617	0.864197	1.63E-05	-0.13721	0.318693	-0.05006	0.417886	0.181603	0.98456	0.371988	0.998072
HLA-DMA	0.017425	-0.20667	0.257737	0.62615	0.897635	0.12645	0.052917	1.90E-07	-0.11265	-0.14273	0.072438	0.155795	0.230641	0.174808	0.67985	0.846598
HLA-DMB	0.026814	-0.28325	0.212059	0.614	0.843053	0.0344	0.113283	3.79E-07	-0.069	-0.28849	0.256531	0.101624	0.326214	0.027311	0.953609	0.746737
ANXA11	-0.20043	0.313625	-0.28713	-0.11538	0.134948	0.018585	0.030342	0.392741	-0.13313	0.504961	-0.14583	0.274465	0.191649	0.999798	0.172451	0.965967
MNX1	0.112117	-0.21962	0.253956	-0.11899	0.406349	0.103872	0.05662	0.378018	0.142122	-0.42791	0.272084	-0.32771	0.826951	0.001506	0.964706	0.013099
HLA-DOA	0.100829	-0.09861	0.215112	0.483281	0.459663	0.473834	0.111353	0.000161	-0.08478	-0.01791	0.262436	0.171157	0.287682	0.452968	0.959211	0.872296
HLA-DOB	-0.05248	-0.20595	0.08725	0.533587	0.698254	0.127808	0.518695	1.92E-05	0.24056	-0.06691	0.144513	0.032768	0.944284	0.331158	0.825343	0.584603
HLA-DPA1	0.003276	-0.17448	0.146342	0.636701	0.980702	0.198393	0.277371	1.02E-07	-0.13135	-0.08842	0.111912	0.314411	0.194871	0.281776	0.765236	0.982287
HLA-DPB1	0.042134	-0.237	0.124785	0.580531	0.755653	0.078634	0.355042	2.20E-06	-0.11051	-0.0195	0.048876	0.307601	0.234931	0.44941	0.623643	0.980086
HLA-DPB2	-0.00743	-0.20148	0.15491	0.13236	0.956687	0.140185	0.25429	0.330831	0.042225	-0.2238	0.097839	-0.00443	0.609734	0.06744	0.738715	0.488357
HLA-DQA1	-0.1276	-0.22307	0.026002	0.47725	0.344221	0.098415	0.847749	0.000174	-0.13194	-0.17813	0.221299	0.228948	0.193798	0.12086	0.92558	0.934833
HLA-DQA2	0.125071	-0.21218	0.293626	0.423863	0.35393	0.116425	0.026635	0.001018	-0.02285	-0.17428	0.165397	0.054466	0.440107	0.123356	0.861214	0.640392
HLA-DQB1	-0.19966	-0.05693	-0.03715	0.438469	0.136467	0.676844	0.783805	0.000646	-0.26538	0.323383	-0.00066	0.496787	0.037334	0.985818	0.498291	0.999777
ANXA13	-0.01846	-0.03618	0.203762	-0.16694	0.892586	0.793151	0.131996	0.218805	0.072852	-0.32833	0.152738	-0.27496	0.684794	0.01295	0.841745	0.032202
HLA-DQB2	-0.04859	-0.17754	0.189249	0.313577	0.719642	0.190514	0.158564	0.017537	-0.19874	0.137885	0.116427	0.059576	0.092737	0.819595	0.77686	0.652948
HLA-DRA	0.02368	-0.21177	0.14286	0.626408	0.861204	0.117151	0.28909	1.87E-07	-0.27525	-0.00435	0.068473	0.345949	0.033624	0.48868	0.670625	0.990038
HLA-DRB1	-0.12161	0.003485	-0.01771	0.227679	0.367496	0.979662	0.895964	0.08851	-0.19784	0.135981	-0.07161	0.189776	0.096333	0.813445	0.322059	0.894097
HLA-DRB5	-0.08844	0.022785	-0.00568	0.267556	0.512989	0.867619	0.966525	0.044209	-0.09884	-0.10988	0.104743	0.242934	0.25672	0.233631	0.753251	0.948109
HLA-DRB6	0.151449	-0.23953	0.347844	0.564264	0.260765	0.075399	0.008017	4.85E-06	-0.31082	0.009848	-0.15164	0.32724	0.017756	0.525897	0.160015	0.986787
AOAH	-0.01252	-0.14849	0.14944	0.654534	0.926379	0.274751	0.267217	3.34E-08	-0.31271	-0.14328	-0.03801	-0.00709	0.018244	0.173874	0.403254	0.481561
HLF	0.311639	-0.0244	-0.02023	0.167927	0.018285	0.858348	0.881262	0.211802	0.196136	0.042266	0.105515	0.17535	0.904289	0.609837	0.754848	0.878114
HLA-E	-0.01773	-0.14237	0.091888	0.593138	0.895874	0.29523	0.496622	1.16E-06	0.012968	0.189272	-0.02296	0.313262	0.534082	0.89613	0.440499	0.982991
HLA-F	-0.08626	-0.12365	0.137253	0.668569	0.523471	0.363917	0.308628	1.32E-08	-0.07526	0.199305	0.026509	0.415178	0.309567	0.907897	0.568617	0.997942
HLA-G	-0.0922	-0.05482	0.16264	0.313839	0.495173	0.68819	0.226751	0.017438	0.043128	-0.11982	0.110029	0.046672	0.612022	0.213837	0.764088	0.620959
HLA-H	-0.10107	-0.03304	0.150532	0.53809	0.454434	0.808961	0.263696	1.58E-05	-0.11135	0.295203	-0.03008	0.37444	0.23064	0.976798	0.422257	0.994822
AOC2	0.011233	-0.14557	0.223374	-0.21282	0.933904	0.284404	0.09487	0.111956	0.086397	-0.36429	0.312896	-0.4272	0.715971	0.006407	0.981815	0.001533
MR1	-0.00216	0.194882	-0.23237	0.217395	0.987382	0.153928	0.084827	0.107517	-0.12648	0.436359	-0.02275	0.404881	0.201138	0.998784	0.441046	0.997373
HLCS	0.077158	0.225572	-0.04199	0.036309	0.568352	0.094608	0.756456	0.788593	-0.01032	0.432225	-0.23919	0.27639	0.472859	0.998649	0.056777	0.968513
HLX	0.14855	-0.23504	0.357075	-0.14939	0.270108	0.081205	0.006398	0.267391	0.002167	-0.35751	0.138311	-0.1645	0.505701	0.00736	0.817552	0.137315
HMBS	-0.21823	0.242587	0.033432	-0.00646	0.106138	0.074341	0.806759	0.96234	-0.22044	0.549312	-0.24682	0.297838	0.070493	0.999961	0.051076	0.977801
HMGB1	0.035772	0.168195	-0.22598	0.17191	0.793523	0.219641	0.093995	0.205193	0.084878	0.396132	-0.08023	0.282861	0.712548	0.996787	0.300169	0.971595
HMGB2	0.039212	-0.07177	-0.2578	-0.17055	0.772125	0.599158	0.052853	0.204637	-0.25289	0.286031	-0.14957	0.118986	0.044977	0.973013	0.163378	0.784534
HMGB3	-0.08486	0.393484	0.007192	0.104224	0.530249	0.002698	0.957656	0.440383	-0.34452	0.379874	-0.20554	0.285054	0.009523	0.995392	0.08779	0.972582
HMGN1	0.080411	0.191133	-0.09811	-0.20975	0.552109	0.158215	0.467793	0.117349	-0.24715	0.196718	-0.09378	0.050734	0.048866	0.904959	0.270018	0.631128
HMGN2	0.118749	0.068484	-0.05076	0.097394	0.383381	0.619323	0.710259	0.475171	0.053681	0.116572	-0.0183	0.001173	0.638449	0.779796	0.452524	0.503085
HMGCL	-0.04272	0.050075	-0.21505	-0.03939	0.752356	0.713987	0.10817	0.771135	-0.294	0.316675	-0.15577	0.234613	0.023672	0.983992	0.153438	0.941726
HMGCR	0.005307	0.234733	-0.24562	0.033662	0.968744	0.081616	0.065529	0.803684	-0.25287	0.351434	-0.20948	0.294799	0.044989	0.991687	0.083628	0.976641
HMGCS1	-0.06814	0.181108	-0.24895	0.145009	0.614544	0.181615	0.061845	0.281821	-0.12573	0.327259	-0.07038	0.32051	0.20253	0.986791	0.322963	0.985058
HMGCS2	0.061706	-0.00485	0.080102	-0.31168	0.648402	0.971705	0.55364	0.018269	0.227552	-0.28015	0.100633	-0.33332	0.935856	0.029664	0.744648	0.011798
HMGA1	-0.0501	-0.06979	0.140718	-0.1538	0.711333	0.609255	0.296455	0.253357	-0.04861	-0.26797	-0.02267	-0.32033	0.375583	0.03756	0.441938	0.015967
AOX1	0.087977	-0.08703	-0.0337	0.44324	0.51908	0.527495	0.805259	0.000623	0.431788	-0.14884	0.198303	0.152357	0.99847	0.164585	0.901541	0.841135
HMMR	0.108545	0.061295	0.037512	-0.10745	0.42585	0.656644	0.783717	0.430549	-0.10385	0.434845	0.090681	0.229731	0.24861	0.998582	0.720862	0.935506
HMOX1	-0.00969	-0.03547	-0.01646	0.026684	0.943512	0.797113	0.904168	0.845221	-0.07368	0.086294	0.046477	0.127055	0.313269	0.71574	0.619119	0.799947
HMOX2	-0.01134	0.026632	0.044587	0.093813	0.933299	0.84552	0.741905	0.48761	0.006725	0.247693	-0.17276	0.115631	0.517689	0.951511	0.128211	0.777935
NR4A1	0.342341	-0.21484	0.064049	-0.16867	0.009144	0.111814	0.635976	0.209752	0.349837	0.004399	0.143631	-0.10846	0.99142	0.511574	0.826721	0.236544
HMX2	-0.03214	-0.12898	0.244322	-0.26788	0.812382	0.343443	0.067012	0.043943	0.260073	-0.31945	0.211629	-0.27587	0.959554	0.01523	0.918577	0.031748

FOXA1	-0.07418	0.273897	-0.05474	-0.26427	0.583431	0.041085	0.685874	0.046986	-0.2534	0.391446	-0.03316	0.327694	0.046522	0.996082	0.415391	0.986006
APAF1	0.01998	0.116404	-0.14649	0.241845	0.882724	0.39291	0.276876	0.069917	0.089238	0.290075	0.018318	0.170131	0.722325	0.974739	0.547535	0.870844
FOXA2	-0.06505	-0.11235	0.242662	-0.17566	0.630701	0.409703	0.068948	0.191208	-0.00594	-0.37665	0.095832	-0.38753	0.484557	0.005383	0.731976	0.004267
FOXA3	-0.01409	0.144041	0.186293	-0.16342	0.917138	0.289542	0.165289	0.224491	-0.00883	-0.18693	0.007525	-0.24278	0.476779	0.106762	0.519565	0.052002
HNF4A	-0.07684	-0.18727	0.229515	-0.21308	0.569954	0.166955	0.085903	0.111514	0.048747	-0.47762	0.188483	-0.41008	0.626164	0.000394	0.892504	0.002325
HNF4G	-0.21416	0.09481	-0.04411	-0.02017	0.109672	0.487019	0.744568	0.881613	-0.27829	0.398563	-0.08676	0.210377	0.030556	0.99696	0.285453	0.919742
ONECUT1	-0.1159	-0.24106	0.144525	-0.14467	0.390594	0.073491	0.283445	0.282965	0.058114	-0.41602	0.110817	-0.23662	0.649371	0.002016	0.765682	0.056686
HNMT	0.141609	-0.04256	-0.08314	0.126668	0.293377	0.755487	0.538658	0.347771	-0.12275	0.028228	-0.05459	0.173501	0.208193	0.573865	0.36087	0.875571
EIF4E3	0.065998	-0.05698	0.05048	0.181725	0.625713	0.676579	0.709218	0.176089	0.218554	-0.44257	0.206031	-0.06588	0.927748	0.001036	0.91274	0.331783
FAM149B1	-0.11708	0.273408	-0.231	-0.12188	0.38576	0.041462	0.083838	0.366459	0.200709	0.054496	0.132414	-0.14912	0.909465	0.640465	0.807054	0.161304
RFESD	0.006262	0.126613	0.057129	0.004818	0.963124	0.352442	0.67295	0.971627	0.039699	-0.24107	0.160681	-0.13465	0.603318	0.053273	0.854154	0.186146
SLC29A2	-0.0404	-0.05386	0.18727	-0.25005	0.76539	0.693374	0.163043	0.060668	-0.01938	-0.29121	-0.01805	-0.32505	0.449127	0.024795	0.453162	0.013758
VN1R2	-0.03684	-0.0423	0.270588	-0.10972	0.785576	0.756887	0.041772	0.416518	0.186261	-0.39099	0.217954	-0.33427	0.892401	0.003608	0.924825	0.01159
VN1R4	-0.05845	-0.01112	0.08524	-0.0944	0.665801	0.935166	0.528406	0.484897	-0.14186	0.11615	-0.1128	-0.04507	0.173498	0.778963	0.230324	0.383084
VN1R5	-0.00451	-0.00712	0.031546	-0.33101	0.973458	0.958451	0.8158	0.0119	0.090378	-0.39401	-0.0359	-0.36722	0.724857	0.003371	0.407457	0.006029
RP11-49G1	-0.04847	-0.31965	0.154875	-0.23716	0.722763	0.017364	0.254399	0.078426	-0.01027	-0.55771	0.07704	-0.36022	0.472995	2.83E-05	0.692521	0.006965
KLHL10	-0.05426	-0.14527	0.07335	-0.27723	0.68854	0.285386	0.587652	0.036814	0.082767	-0.41983	0.132859	-0.30124	0.707758	0.001839	0.807859	0.020956
DHRS4L2	-0.08448	0.164187	-0.09349	-0.17973	0.535868	0.230985	0.493119	0.185011	0.02525	0.015551	-0.00058	-0.29073	0.566144	0.540851	0.498491	0.024992
POTED	-0.21679	-0.06563	0.075923	-0.12661	0.108518	0.634012	0.57811	0.35244	-0.12613	-0.12397	0.097354	-0.1714	0.204509	0.208577	0.73522	0.130132
C14orf39	0.003021	-0.0229	0.044168	-0.04995	0.982207	0.866976	0.744251	0.712154	0.010134	-0.32476	0.228573	-0.11198	0.526339	0.014755	0.932199	0.231969
CCDC85C	0.060255	0.267833	0.077528	0.081423	0.656147	0.045967	0.566498	0.5471	0.050437	0.299834	-0.02678	0.170679	0.630386	0.978538	0.430685	0.871621
HIST2H2AB	0.110126	0.078342	-0.27225	0.131611	0.414787	0.566021	0.040485	0.329124	-0.06861	0.541535	-0.27772	0.403216	0.32524	0.999949	0.032367	0.99727
DDX51	-0.01532	-0.13184	0.122729	-0.06446	0.909927	0.332766	0.363088	0.63383	0.00874	-0.15754	0.059866	-0.1441	0.522984	0.147867	0.65197	0.169678
HNRNPA1	0.091136	-0.18398	0.080797	-0.00169	0.500171	0.174666	0.550193	0.990066	0.133527	-0.08991	0.188494	0.080005	0.811833	0.276184	0.892518	0.701436
NUDT2	-0.10621	0.139639	-0.24991	-0.07483	0.431671	0.304689	0.060812	0.5801	-0.14165	0.309386	-0.20581	0.205138	0.173853	0.981792	0.087494	0.914285
HNRNPA2B	0.033922	0.163356	-0.11234	0.211942	0.802198	0.228986	0.4054	0.113486	0.251491	0.262279	0.00547	0.213339	0.954099	0.96087	0.514224	0.922714
HNRNPAB	-0.09563	0.456116	-0.26273	0.264564	0.48326	0.000466	0.050438	0.048789	-0.07289	0.661443	-0.18317	0.430901	0.315126	1	0.114215	0.998603
HNRNPC	0.053305	0.246147	-0.19241	0.084872	0.693721	0.067444	0.151595	0.530196	0.058819	0.124083	-0.06938	0.162809	0.651099	0.794345	0.325334	0.860166
HNRNPD	-0.00799	0.251769	-0.11596	0.195789	0.952978	0.061227	0.390333	0.144401	0.155275	0.341571	-0.00827	0.269766	0.848591	0.989917	0.47849	0.965089
HNRNPF	-0.21855	0.224294	-0.35337	0.06479	0.102406	0.096542	0.00701	0.632068	-0.3413	0.484519	-0.34665	0.340352	0.010135	0.999678	0.009828	0.989678
HNRNPH1	0.04733	0.24304	-0.18484	0.291627	0.72663	0.071092	0.168675	0.027733	0.217608	0.37908	-0.11161	0.239459	0.926852	0.995312	0.232714	0.945512
HNRNPH2	-0.08167	0.133926	-0.21502	0.110393	0.545861	0.32509	0.108211	0.413649	-0.15256	0.17978	-0.19717	0.2102	0.155723	0.884063	0.097105	0.919562
HNRNPH3	-0.00541	0.039345	-0.20835	0.126558	0.968124	0.773421	0.11987	0.348193	0.041842	0.117124	-0.01021	0.185135	0.608762	0.780885	0.473453	0.890983
APOF	-0.09937	-0.10174	0.041358	-0.11974	0.462075	0.455594	0.760018	0.37499	-0.02564	-0.34376	-0.0015	-0.26866	0.432841	0.009665	0.496101	0.035511
HNRNPK	-0.0048	0.25855	-0.31905	0.246378	0.97176	0.054352	0.015564	0.064675	-0.11347	0.544315	-0.17562	0.445431	0.226378	0.999954	0.124268	0.999039
HNRNPL	0.004265	0.04692	-0.15153	0.002317	0.974883	0.73131	0.260509	0.986352	-0.28106	0.495438	-0.25493	0.366112	0.029238	0.999768	0.045507	0.993831
TAAR6	0.071061	-0.05585	0.031651	-0.33417	0.599389	0.682652	0.815198	0.011067	0.081833	-0.26221	-0.04455	-0.29464	0.703468	0.040922	0.387012	0.024722
KRT73	0.014981	-0.06045	0.222453	-0.23809	0.911932	0.658062	0.096276	0.074506	0.122413	-0.20336	0.143492	-0.32709	0.791159	0.08763	0.826485	0.01325
SNORD8	0.130535	-0.38173	0.324881	0.257158	0.333126	0.003696	0.013673	0.053471	0.033703	-0.24077	0.166037	-0.10871	0.587982	0.053493	0.862155	0.236018
SNORD56B	0.037235	0.194201	-0.22184	0.090307	0.783325	0.15152	0.097223	0.504093	-0.0695	0.213782	0.048271	0.118588	0.32314	0.923151	0.623575	0.783757
HNRNPU	0.088876	0.206196	-0.18087	0.101605	0.510901	0.127342	0.178166	0.452016	0.070429	0.392011	-0.0112	0.243305	0.679071	0.996474	0.470906	0.94838
TLX1	-0.01756	-0.09673	0.152287	-0.29323	0.89685	0.478217	0.258106	0.02685	0.107025	-0.23689	0.140107	-0.29539	0.760509	0.056468	0.82068	0.02313
TLX2	0.004123	-0.13601	0.233296	-0.18553	0.975718	0.317549	0.080722	0.167059	0.138724	-0.30695	0.133635	-0.34368	0.821066	0.018998	0.809256	0.009679
HOXA1	-0.03667	0.051235	0.122671	-0.13631	0.786536	0.707653	0.363314	0.311978	-0.04787	-0.06613	0.197768	-0.05715	0.376028	0.331188	0.903583	0.352992
HOXA2	0.284654	-0.0881	0.221459	0.07883	0.031865	0.518475	0.09781	0.559974	0.324681	-0.39922	0.281683	-0.09806	0.985225	0.003297	0.968015	0.260806
ACACB	0.221048	-0.24153	0.274621	0.047964	0.101592	0.075656	0.040531	0.72556	0.367717	-0.34075	0.309475	-0.1604	0.994033	0.010243	0.980712	0.143473
APBA1	0.029798	-0.14672	0.21289	-0.15261	0.825842	0.280565	0.111843	0.257089	0.112946	-0.10102	0.194183	0.005552	0.772574	0.252075	0.899405	0.514605
HOXA3	0.3823	-0.07619	0.376995	-0.00766	0.003338	0.576785	0.003844	0.954892	0.353043	-0.37466	0.421499	-0.1461	0.99195	0.005154	0.998034	0.166318
HOXA4	0.317378	-0.21904	0.303012	-0.02419	0.016145	0.104809	0.021954	0.858243	0.306345	-0.33045	0.440039	-0.08747	0.980803	0.01245	0.998756	0.281615
HOXA5	0.347068	-0.25315	0.243492	0.066576	0.008169	0.059769	0.067974	0.622685	0.311635	-0.34249	0.404529	-0.23136	0.981415	0.01064	0.996771	0.063108

HOXA6	-0.06269	-0.09487	0.225554	0.155938	0.646214	0.490838	0.094636	0.251112	0.235058	-0.27809	0.154121	-0.06548	0.939945	0.032183	0.841073	0.334569
HOXA7	-0.03281	-0.05587	0.200564	-0.12698	0.808531	0.682567	0.134674	0.34658	0.029082	-0.20257	0.157217	-0.17828	0.575204	0.09102	0.845944	0.120663
HOXA9	0.178631	0.018084	0.34172	-0.05228	0.18369	0.894757	0.009279	0.699331	0.241111	-0.18433	0.243246	-0.28807	0.946758	0.110041	0.946313	0.026106
HOXA10	-0.03759	-0.06871	0.241229	-0.1935	0.781301	0.614845	0.070655	0.149254	0.18664	-0.41169	0.103346	-0.39188	0.892875	0.002237	0.750343	0.003536
HOXA11	0.077902	-0.23063	0.111317	-0.41977	0.568214	0.090257	0.414058	0.001279	0.117552	-0.39254	0.213502	-0.30956	0.781727	0.003484	0.920466	0.018152
HPCA	-0.03627	-0.10248	0.21494	-0.14096	0.788827	0.452307	0.108353	0.295611	0.169226	-0.15254	0.154095	-0.04046	0.869556	0.155761	0.843912	0.394745
HOXA13	0.028615	-0.04368	0.252872	-0.14754	0.832655	0.749251	0.057721	0.2734	0.171682	-0.44045	0.229679	-0.37746	0.873034	0.001094	0.935461	0.004854
APBA2	-0.03199	-0.16464	0.221688	0.1237	0.81324	0.225289	0.097454	0.359274	0.110987	-0.3505	0.148007	-0.26294	0.766025	0.009125	0.83117	0.040486
HOXB1	-0.03703	-0.11587	0.100745	-0.26148	0.786443	0.395103	0.460039	0.051581	0.138852	-0.31771	0.204067	-0.37766	0.82129	0.015714	0.910623	0.004834
HOXB2	0.170684	-0.38765	0.335912	0.184206	0.204289	0.003159	0.010631	0.170162	0.465904	-0.51826	0.267826	-0.33721	0.999449	0.000112	0.962358	0.010961
HOXB3	0.310022	-0.30105	0.354799	0.213309	0.01893	0.024159	0.006768	0.111124	0.30272	-0.42343	0.116213	-0.19289	0.979568	0.001683	0.77644	0.099507
HOXB4	0.153933	-0.21107	0.389794	0.005489	0.252935	0.118408	0.002725	0.967676	0.192864	-0.44114	0.320049	-0.28837	0.900458	0.001075	0.983954	0.02598
HOXB5	0.091769	-0.13942	0.27675	-0.18284	0.497185	0.305452	0.037158	0.173402	0.076308	-0.41911	0.327896	-0.25953	0.690832	0.002081	0.985105	0.042571
HOXB6	0.177598	-0.22518	0.382626	-0.11141	0.186281	0.095197	0.003309	0.409339	0.116325	-0.48153	0.210723	-0.37557	0.77666	0.000406	0.915125	0.005506
HOXB7	0.27573	-0.24127	0.280292	-0.11696	0.039696	0.075971	0.036408	0.390627	0.082296	-0.3575	0.140071	-0.2475	0.704516	0.007954	0.81776	0.050586
HOXB8	-0.0337	-0.17177	0.111504	-0.19877	0.80347	0.205564	0.408937	0.138261	0.138553	-0.40305	0.239112	-0.32165	0.820766	0.002741	0.943166	0.014635
HOXB9	-0.11107	-0.13162	0.186038	-0.16538	0.410755	0.333551	0.165878	0.218912	-0.04643	-0.3218	0.116384	-0.31538	0.379643	0.014596	0.776776	0.016383
APBB1	-0.11266	-0.43808	0.054236	-0.11817	0.404064	0.000734	0.688642	0.381337	-0.15623	-0.43565	-0.06382	-0.34035	0.149905	0.001238	0.338527	0.010323
HOXC4	0.013222	-0.28129	0.143596	-0.11297	0.922235	0.035721	0.286584	0.40278	-0.04625	-0.43625	0.23424	-0.37552	0.380097	0.00122	0.939279	0.00506
HOXC5	0.00614	-0.09435	0.177318	-0.16063	0.963846	0.489125	0.186987	0.232612	0.15279	-0.26619	0.218775	-0.27602	0.844642	0.036879	0.925609	0.03167
HOXC6	0.005248	-0.32849	0.237381	-0.09331	0.969092	0.013444	0.075405	0.489965	-0.00088	-0.36045	0.182727	-0.21126	0.497692	0.006932	0.885207	0.079368
HOXC8	-0.02291	-0.16455	0.196102	-0.12064	0.865694	0.225551	0.143748	0.371362	0.048366	-0.31741	0.029021	-0.25577	0.625211	0.0158	0.575049	0.043111
HOXC9	0.015294	-0.20174	0.178901	-0.18065	0.910097	0.135965	0.183018	0.178713	0.001971	-0.39349	0.195745	-0.28342	0.505187	0.003411	0.901241	0.028151
HOXC10	-0.06943	-0.21905	0.180264	-0.15533	0.607831	0.104802	0.17965	0.248599	-0.00049	-0.3998	0.090315	-0.22841	0.498721	0.002954	0.722409	0.063411
HOXC11	0.043091	-0.01021	0.226943	-0.20486	0.750277	0.940492	0.089573	0.126357	0.065109	-0.27836	0.181359	-0.27505	0.666364	0.030524	0.883424	0.032157
HOXC12	0.1602	-0.28647	0.383634	-0.21396	0.233893	0.032317	0.003221	0.110008	0.117547	-0.51421	0.218581	-0.30926	0.781717	0.000128	0.925424	0.018249
HOXC13	0.158852	-0.14324	0.264732	-0.178	0.242253	0.29681	0.048641	0.189345	0.175612	-0.34556	0.162486	-0.25511	0.878472	0.009332	0.856884	0.043534
APBB2	0.451894	-0.19715	0.190783	0.229455	0.000418	0.145292	0.155153	0.085986	0.642574	-0.2125	0.298828	-0.0781	0.999999	0.078119	0.976925	0.302962
HOXD1	-0.00509	-0.06578	0.224367	-0.1234	0.970002	0.63002	0.093372	0.360455	0.193377	-0.33851	0.156228	-0.25883	0.901065	0.010694	0.847278	0.041203
HOXD3	0.001257	-0.15864	0.218472	-0.14294	0.992598	0.2429	0.102537	0.288826	0.146434	-0.31387	0.260245	-0.17206	0.834245	0.016828	0.957875	0.126438
HOXD4	0.086386	-0.17799	0.307935	-0.00042	0.522856	0.189389	0.019791	0.997519	0.26565	-0.40014	0.22399	-0.19885	0.962817	0.002931	0.930451	0.092615
HOXD8	0.176774	-0.11678	0.32223	-0.1082	0.192468	0.395852	0.015438	0.427344	0.229006	-0.35853	0.330731	-0.21114	0.9371	0.007209	0.986758	0.079485
HOXD9	0.084714	-0.09007	0.269947	-0.06047	0.530966	0.509126	0.042278	0.654977	0.086642	-0.3019	0.148645	-0.1701	0.716523	0.020721	0.835097	0.129202
HOXD10	0.073661	-0.26438	0.322222	-0.21903	0.589521	0.051115	0.01544	0.104838	0.098071	-0.43956	0.12789	-0.32928	0.74164	0.00112	0.798764	0.012723
HOXD11	-0.01528	-0.11749	0.175173	-0.13482	0.910207	0.388469	0.192462	0.317349	-0.01243	-0.31387	0.191656	-0.27217	0.467318	0.016828	0.896385	0.033637
HOXD12	-0.02066	-0.03906	0.26489	-0.19794	0.879897	0.777082	0.048502	0.14364	0.021739	-0.33546	0.074468	-0.16987	0.557012	0.011332	0.686575	0.129527
HOXD13	-0.02249	-0.02484	0.235823	-0.14121	0.868142	0.855828	0.0774	0.294759	0.0978	-0.38563	0.058148	-0.33198	0.741057	0.004064	0.647809	0.012098
APC	0.070024	0.163914	-0.22757	0.239792	0.604742	0.227378	0.088669	0.0724	-0.03385	0.414181	-0.07633	0.389724	0.411639	0.997892	0.30911	0.996289
HP	0.116748	-0.16919	0.110028	-0.07754	0.391503	0.216877	0.419517	0.570009	-0.06596	-0.16884	0.023771	-0.13251	0.33158	0.131002	0.561587	0.190001
HPCAL1	0.036913	-0.23433	0.211499	0.10541	0.787086	0.082161	0.117635	0.439412	0.096604	-0.36692	0.294351	-0.24773	0.73848	0.006066	0.975161	0.048467
HPD	0.106582	-0.27333	0.145109	-0.24702	0.430052	0.041525	0.281484	0.063956	0.066632	-0.37912	0.146516	-0.36215	0.670021	0.004684	0.831572	0.006696
HPGD	0.156208	0.3388	-0.33903	-0.10175	0.245904	0.010644	0.009886	0.451369	-0.02883	0.424054	-0.13797	0.137921	0.424584	0.998342	0.183043	0.819657
HPN	-0.12098	-0.23197	0.108672	-0.16788	0.370009	0.085371	0.421012	0.211947	0.076259	-0.36077	0.109869	-0.28072	0.692769	0.006887	0.763763	0.029398
APCS	0.126066	-0.09232	0.182792	-0.09765	0.354541	0.502598	0.17752	0.473986	0.093931	-0.23957	0.087286	-0.21689	0.732671	0.054407	0.71571	0.073833
HPR	-0.10773	-0.09528	0.107369	-0.1845	0.425089	0.484854	0.426635	0.169471	0.033771	-0.38287	0.133711	-0.32976	0.588158	0.004317	0.809392	0.012611
HPRT1	-0.06217	0.213762	-0.23683	0.301565	0.645936	0.11367	0.076109	0.022627	-0.09931	0.453047	-0.16013	0.459572	0.255709	0.999216	0.146685	0.999343
HPS1	-0.02602	0.008981	0.038688	0.049219	0.847652	0.947622	0.77509	0.716171	0.076913	0.177504	-0.13439	-0.01211	0.69429	0.881031	0.189389	0.468164
AIRE	-0.01189	-0.11191	0.24591	-0.14713	0.930058	0.411579	0.065201	0.27477	0.196545	-0.2915	0.224386	-0.33129	0.904759	0.024673	0.930808	0.012255
HPX	-0.12054	-0.07466	0.073269	-0.20892	0.371786	0.584454	0.588066	0.118847	-0.1045	-0.49693	0.11467	-0.36863	0.244734	0.000222	0.773391	0.005853
ZAR1	-0.03893	-0.12633	0.21842	-0.21706	0.773728	0.353525	0.102621	0.104839	0.199165	-0.55272	0.173065	-0.44401	0.905177	4.12E-05	0.869374	0.001124

EMR4P	0.189633	-0.22141	0.421056	-0.01485	0.157705	0.101012	0.001108	0.912685	0.06026	-0.50893	0.37669	-0.31674	0.654618	0.000152	0.994622	0.01599
MT1DP	0.018504	-0.2355	0.11328	0.062567	0.89233	0.083484	0.405819	0.646881	0.32293	-0.18194	0.117	-0.21239	0.9857	0.113113	0.777986	0.078231
HRAS	-0.13627	0.07361	-0.0375	-0.10276	0.31212	0.589779	0.781823	0.446875	-0.03179	0.092974	-0.05777	0.023338	0.416952	0.730576	0.353114	0.561177
ERAS	0.035265	-0.06421	0.322543	-0.12654	0.794536	0.638252	0.014406	0.348251	0.140131	-0.30935	0.225052	-0.24082	0.823517	0.018219	0.931407	0.053457
RAB37	-0.34123	0.031933	-0.0898	-0.22759	0.009387	0.81527	0.506521	0.088636	-0.31252	0.031936	-0.04777	-0.11404	0.017232	0.583436	0.377677	0.225236
MMAB	-0.23217	0.059247	-0.08896	-0.29292	0.082244	0.664473	0.510492	0.027018	-0.47528	0.137805	-0.18785	0.073877	0.000422	0.819453	0.108279	0.687202
AGFG1	0.053789	0.260892	-0.2508	0.231951	0.691081	0.052128	0.059875	0.082536	0.097542	0.354211	-0.11604	0.243774	0.740502	0.992135	0.223896	0.948722
AGFG2	-0.0572	-0.18489	0.088476	-0.11051	0.675392	0.1725	0.516703	0.417462	0.138221	-0.2754	0.175517	-0.27416	0.820185	0.03198	0.875596	0.032607
HRH1	0.008868	0.024903	-0.04119	0.22186	0.947799	0.855443	0.760934	0.097188	0.090335	0.191573	-0.07458	0.255764	0.724761	0.898917	0.313173	0.956883
APEH	-0.02684	0.040854	-0.18767	0.0474	0.842878	0.764975	0.162131	0.726242	-0.19946	0.578397	-0.24533	0.401377	0.091926	0.999987	0.052154	0.997151
HRC	-0.0719	-0.16555	0.172153	-0.04132	0.595056	0.222697	0.200363	0.760255	0.08555	-0.31286	0.098219	-0.2265	0.714065	0.017131	0.739526	0.065059
HRG	0.079472	-0.13011	0.26866	-0.31972	0.556777	0.339179	0.043309	0.015336	0.072663	-0.42309	0.172041	-0.2321	0.68435	0.001697	0.870775	0.060311
HRH2	0.074829	-0.26561	0.152109	0.004496	0.580122	0.04787	0.258669	0.973521	0.076615	-0.19682	0.072996	-0.13942	0.691542	0.097515	0.681142	0.180507
PRMT2	0.078783	0.026109	-0.19223	0.198519	0.560211	0.84852	0.151996	0.138778	-0.19038	0.23145	-0.14144	-0.01868	0.105169	0.936964	0.179877	0.451543
PRMT1	-0.15757	-0.00874	-0.08797	0.115728	0.241769	0.949004	0.515229	0.391302	-0.20135	0.462292	-0.19372	0.298568	0.089822	0.999391	0.101149	0.978073
SERPINA9	-0.05916	-0.12972	0.174484	-0.2357	0.662022	0.340648	0.194245	0.077556	-0.02301	-0.46846	0.096888	-0.34621	0.440358	0.000586	0.73423	0.009912
APEX1	-0.00818	0.426913	-0.28473	0.314842	0.95185	0.001033	0.031821	0.017063	0.025713	0.634844	-0.13271	0.471715	0.567348	0.999999	0.19241	0.999532
HES1	0.239024	0.009667	0.093273	-0.09701	0.073347	0.943629	0.490131	0.472841	0.014345	0.419082	-0.06204	0.161304	0.537691	0.998128	0.34279	0.857901
HSBP1	-0.21102	0.201147	-0.36703	0.13611	0.115108	0.137138	0.00498	0.31271	-0.2911	0.499603	-0.28266	0.453198	0.02484	0.999796	0.029963	0.999219
HSD3B1	0.032225	-0.19492	0.167064	-0.36035	0.811909	0.149986	0.214195	0.005896	-0.0234	-0.40618	0.108621	-0.35238	0.438667	0.002548	0.761226	0.008157
HSD3B2	-0.02825	-0.25512	0.122501	-0.10408	0.834764	0.057749	0.363983	0.441005	-0.13862	-0.33043	-0.07496	-0.24563	0.181912	0.013316	0.314335	0.051934
BIRC2	0.045611	0.136702	-0.12308	0.167443	0.736189	0.315073	0.361693	0.213141	0.187251	0.207054	0.00548	0.150438	0.893636	0.916311	0.51425	0.840845
HSD11B1	0.122672	-0.33708	0.193365	0.110781	0.363311	0.011072	0.149536	0.412002	0.327113	-0.26424	0.38324	-0.17946	0.985858	0.039716	0.994883	0.119085
HSD11B2	-0.09128	0.073986	-0.21653	-0.22373	0.503428	0.591385	0.108958	0.097406	0.036936	0.310359	-0.06323	-0.08995	0.595177	0.981003	0.341734	0.27839
HSD17B1	-0.05974	-0.10151	0.106783	-0.08293	0.658916	0.456633	0.429178	0.539695	-0.00214	-0.21073	0.015965	-0.13729	0.494378	0.079899	0.54145	0.18146
HSD17B3	-0.32474	0.153708	-0.12542	0.036664	0.014609	0.262535	0.357034	0.788492	-0.20208	-0.24291	-0.12985	-0.08038	0.089027	0.051908	0.197627	0.297711
HSD17B2	0.249902	-0.2347	0.319648	0.007183	0.060822	0.081666	0.01536	0.957707	0.137988	-0.47334	0.241543	-0.31571	0.819776	0.000446	0.945033	0.016287
HSD17B4	0.008075	0.254734	-0.27718	0.345079	0.952462	0.05814	0.036852	0.008567	-0.05972	0.555418	-0.17291	0.453528	0.346689	0.999969	0.12801	0.999226
HSF1	0.001252	-0.13297	0.181671	-0.18371	0.992622	0.328586	0.17622	0.171328	0.072281	-0.15678	0.092037	-0.31171	0.68345	0.149051	0.726182	0.017481
HSF2	-0.10597	-0.04822	-0.20117	-0.13266	0.432725	0.724155	0.133467	0.32525	-0.24809	0.005888	0.016382	-0.03959	0.048214	0.515489	0.54253	0.396962
HSF4	-0.08633	-0.00901	0.138289	-0.13192	0.52311	0.947482	0.304955	0.327989	0.025149	-0.1282	0.045351	-0.13889	0.565883	0.197917	0.616314	0.178652
ACADL	0.253272	-0.49503	0.275591	-0.17897	0.057313	0.000105	0.037992	0.182852	0.379519	-0.59733	0.255672	-0.52825	0.994933	7.39E-06	0.953041	9.59E-05
BIRC3	0.005014	-0.16709	0.054474	0.4998	0.970471	0.218387	0.687348	7.55E-05	0.175915	0.037781	0.176906	0.170391	0.878884	0.598429	0.877488	0.871214
DNAJB2	-0.06924	-0.23455	0.15963	-0.2942	0.608818	0.081858	0.23558	0.026325	-0.11834	-0.38573	0.044881	-0.33436	0.216719	0.004055	0.615141	0.011569
DNAJA1	-0.06462	-0.18654	-0.20396	0.09702	0.63609	0.172685	0.131613	0.476876	-0.02483	0.078451	-0.05132	0.145295	0.435692	0.695761	0.370385	0.82953
HSPA1A	0.087974	0.255512	-0.06936	-0.07809	0.515214	0.057351	0.608156	0.563677	0.14876	0.297925	0.016336	0.208835	0.838099	0.977834	0.54241	0.918163
HSPA1B	-0.02018	0.091307	-0.04189	-0.24878	0.882634	0.507338	0.759184	0.064468	-0.18821	0.328569	-0.26126	0.121786	0.10783	0.986226	0.043358	0.78726
HSPA1L	-0.23738	-0.14735	-0.11486	-0.29473	0.075403	0.278488	0.394883	0.026045	-0.21252	-0.30873	-0.06109	-0.11046	0.078104	0.018419	0.345072	0.232445
HSPA2	0.24338	0.042881	-0.08461	0.033115	0.068106	0.753673	0.531479	0.806814	0.08817	0.364323	-0.29104	0.315316	0.717672	0.993061	0.027638	0.982564
HSPA4	-0.00163	0.305927	-0.36947	0.065447	0.990387	0.021849	0.004677	0.62861	-0.21556	0.577836	-0.29289	0.423837	0.075112	0.999987	0.025439	0.998334
HSPA5	0.12482	0.130605	-0.05443	0.255313	0.359358	0.341895	0.690291	0.057552	-0.05259	0.526489	-0.12259	0.485862	0.364257	0.999915	0.211196	0.99969
XIAP	-0.03862	0.429304	-0.2631	0.147277	0.777461	0.001073	0.050098	0.278728	-0.02646	0.457981	-0.13883	0.233273	0.430711	0.999314	0.181545	0.940645
HSPA6	-0.0947	-0.3602	-0.00508	0.057766	0.483489	0.006393	0.970107	0.669509	-0.01186	-0.4907	0.142048	-0.45187	0.46883	0.000268	0.824023	0.00081
HSPA8	-0.0948	0.218873	-0.33465	0.08313	0.483038	0.105087	0.010947	0.538702	-0.20974	0.436517	-0.21618	0.348459	0.080912	0.998789	0.076889	0.991183
HSPA9	0.034275	0.238747	-0.36679	0.315001	0.800183	0.076386	0.00501	0.017004	-0.19691	0.631586	-0.3108	0.517046	0.094821	0.999999	0.018855	0.999883
HSPB1	0.096791	0.325666	-0.13884	-0.11206	0.477922	0.015255	0.3075	0.410916	-0.01332	0.720646	-0.30071	0.358481	0.465005	1	0.022366	0.992784
HSPB2	-0.06271	0.056242	0.055555	-0.11886	0.646112	0.680552	0.68425	0.382952	0.174986	-0.38437	0.101024	-0.3944	0.877616	0.004178	0.745473	0.003342
BIRC5	-0.01791	0.20797	-0.07576	-0.03736	0.894823	0.12403	0.575418	0.78264	0.004763	0.342509	0.009976	0.112905	0.51253	0.990098	0.525928	0.772492
HSP90AA1	-0.02301	-0.05186	-0.14716	-0.14837	0.865065	0.704233	0.274653	0.270689	-0.15195	0.042754	-0.07662	0.052323	0.156713	0.611073	0.308458	0.635082
IGSF3	-0.11012	0.610333	-0.22605	0.073175	0.414812	5.91E-07	0.090876	0.588545	-0.1601	0.623235	-0.2054	0.419342	0.143934	0.999998	0.087933	0.998139

HSP90AB1	0.068487	0.115268	-0.24868	0.021897	0.612715	0.397576	0.062137	0.871559	-0.21514	0.407541	-0.23397	0.341056	0.075517	0.997532	0.060941	0.989817
HSPD1	0.065261	0.250719	-0.22314	-0.06447	0.629585	0.062352	0.095223	0.633756	-0.13091	0.335806	-0.3648	0.27189	0.19292	0.988743	0.006873	0.966218
APLP1	-0.08831	-0.11888	0.178585	-0.24373	0.517512	0.382838	0.187878	0.070263	0.125543	-0.34963	0.212458	-0.27019	0.797109	0.008615	0.919417	0.034683
HSPE1	0.008454	0.216296	-0.13665	-0.07847	0.950691	0.112718	0.31526	0.5654	0.164209	0.027569	-0.02117	-0.04378	0.862252	0.572157	0.445113	0.386341
DNAJB1	0.105918	0.240699	-0.23748	-0.16	0.43295	0.073942	0.075285	0.234497	-0.0736	0.594379	-0.21628	0.245726	0.31345	0.999993	0.076789	0.950126
DNAJC4	-0.07201	0.06796	-0.02474	0.061973	0.597897	0.618717	0.8564	0.650013	0.068147	0.266012	-0.06438	0.032607	0.673644	0.963021	0.337184	0.585163
HSPG2	0.218273	-0.17462	0.132857	0.262976	0.102859	0.198035	0.324526	0.048112	0.222894	0.07287	0.088889	0.141279	0.931748	0.684837	0.719265	0.825503
PPM1J	-0.07157	-0.00373	0.106838	-0.18167	0.596793	0.978239	0.42894	0.176224	0.046195	-0.31095	0.065525	-0.28646	0.619761	0.017715	0.665545	0.026801
SNAI3	-0.00388	-0.04258	0.277468	-0.05671	0.977119	0.755332	0.036649	0.675208	0.18347	-0.21057	0.091156	-0.19522	0.888863	0.080061	0.724255	0.096768
APLP2	0.091947	0.278896	-0.22924	0.083098	0.496347	0.037389	0.08629	0.53886	0.055301	0.379218	-0.08805	0.266586	0.640879	0.994901	0.284907	0.961652
NDST1	0.219842	0.010276	-0.00402	0.16478	0.100349	0.94008	0.976306	0.220615	0.064366	0.410204	-0.11014	0.421224	0.664573	0.997682	0.235677	0.998223
FOXN2	0.111833	0.020021	-0.0828	0.313765	0.407548	0.883557	0.540299	0.017466	0.239737	0.036217	0.052172	0.02136	0.945723	0.594429	0.633208	0.556026
HTN1	0.084093	-0.2074	0.190367	-0.20449	0.53399	0.125095	0.156073	0.127043	-0.07	-0.34403	0.116202	-0.23147	0.321941	0.009615	0.776418	0.060835
HTN3	0.041082	-0.34534	0.069969	-0.10784	0.761572	0.009141	0.605025	0.424608	-0.06832	-0.18292	-0.12695	-0.07236	0.32783	0.114544	0.205769	0.318335
APOA1	-0.07819	-0.0292	0.21752	-0.16356	0.563193	0.830816	0.104082	0.224104	0.026984	-0.18718	0.098625	-0.19356	0.570644	0.106445	0.740391	0.09872
HTR1A	-0.00406	-0.20118	0.290058	-0.20292	0.976099	0.137072	0.028621	0.130054	0.103881	-0.17929	0.333344	-0.24982	0.753968	0.116588	0.987378	0.047026
HTR1B	0.115919	-0.07022	0.225814	-0.29441	0.390519	0.607075	0.091224	0.026212	0.200294	-0.51196	0.340078	-0.39287	0.909004	0.000138	0.988864	0.003459
HTR1D	-0.08595	-0.04542	0.077458	-0.20259	0.524983	0.739601	0.566845	0.130698	0.119981	-0.37348	0.144819	-0.28703	0.78647	0.005285	0.828729	0.026552
HTR1E	-0.04512	-0.07893	0.090709	-0.33027	0.738925	0.563089	0.502186	0.012105	0.105109	-0.43751	0.116271	-0.35984	0.756533	0.001181	0.776555	0.00702
HTR1F	0.155373	-0.19984	0.179122	-0.07209	0.257339	0.147382	0.190702	0.600948	0.047118	-0.25742	0.259204	-0.15519	0.620712	0.043901	0.955344	0.154356
HTR2A	0.005958	-0.14796	-0.03435	-0.20916	0.964914	0.276479	0.799766	0.118408	0.102295	-0.28657	0.200671	-0.21987	0.748144	0.028163	0.904243	0.073355
HTR2B	-0.0624	0.251467	-0.0365	-0.1211	0.647767	0.06403	0.789438	0.37398	-0.03994	-0.02069	-0.11581	-0.10025	0.397246	0.446344	0.22436	0.256169
HTR2C	-0.03624	-0.03841	0.213698	-0.22796	0.788975	0.778688	0.110457	0.088107	0.109739	-0.44731	0.096728	-0.43138	0.7635	0.001032	0.73389	0.001545
HTR3A	0.019877	0.055053	0.159732	-0.32087	0.88439	0.68974	0.239622	0.015902	0.058486	-0.02035	-0.03276	-0.10139	0.650283	0.446611	0.415407	0.251289
APOA2	-0.00956	-0.18356	0.091402	-0.20118	0.944273	0.179769	0.502881	0.137064	0.146275	-0.2627	0.100186	-0.43365	0.83398	0.038883	0.743704	0.001303
HTR4	-0.07757	-0.1538	0.036307	-0.25394	0.566301	0.257743	0.788602	0.056635	0.101023	-0.41157	0.11508	-0.31977	0.747942	0.002243	0.774203	0.015142
HTR5A	0.014971	-0.01708	0.126927	-0.32817	0.911986	0.900551	0.346777	0.012697	0.051381	-0.31322	0.230877	-0.31568	0.63274	0.017022	0.936481	0.016295
HTR6	-0.01841	-0.05821	0.234074	-0.21042	0.891865	0.669998	0.079687	0.116169	0.331474	-0.42368	0.354206	-0.43911	0.987786	0.001673	0.991511	0.001133
HTR7	0.029428	-0.11248	0.14406	-0.22432	0.829535	0.413589	0.289479	0.096498	0.058376	-0.24721	0.169159	-0.28646	0.650014	0.048828	0.866684	0.0268
HUS1	-0.02994	0.163625	-0.28171	0.209519	0.825036	0.228209	0.033761	0.11777	0.055874	0.303308	-0.20934	0.136481	0.643868	0.979772	0.083777	0.817116
APOA4	-0.06567	-0.10559	0.142351	-0.25826	0.627463	0.438616	0.290828	0.052417	0.077919	-0.28936	0.129917	-0.31865	0.696624	0.025558	0.802505	0.015451
TNC	-0.04431	0.283731	-0.15082	0.392075	0.743427	0.03408	0.262789	0.002559	-0.06803	0.635132	-0.16241	0.492673	0.326625	0.999999	0.143235	0.999748
HYAL1	-0.01645	-0.09031	0.105526	-0.21419	0.903347	0.507996	0.434662	0.10962	0.0257	-0.0578	0.065184	-0.09441	0.567312	0.351399	0.664734	0.266276
IAPP	0.043092	-0.23764	0.047618	-0.31815	0.752501	0.080634	0.727467	0.01687	-0.03822	-0.3475	0.136525	-0.21462	0.400448	0.008985	0.814409	0.076026
IARS	-0.02207	0.250107	-0.19179	0.195876	0.870568	0.063016	0.152953	0.14422	0.039954	0.425834	-0.11727	0.357146	0.603967	0.998414	0.22149	0.992586
UBAC2	-0.10142	0.134537	-0.14938	-0.16853	0.457025	0.327434	0.271831	0.214371	0.147006	0.314331	-0.02276	0.02996	0.835198	0.98331	0.441018	0.57834
CHSY3	0.078633	-0.01921	0.117072	0.271781	0.560961	0.888236	0.385787	0.040844	0.095315	-0.01021	0.056731	0.051397	0.735687	0.47315	0.644366	0.632779
KRTAP7-1	-0.10201	-0.03044	0.10081	-0.10409	0.450229	0.823738	0.455583	0.440972	-0.24772	-0.30017	-0.09313	-0.33602	0.048469	0.02134	0.271443	0.011213
KRTAP8-1	-0.00281	-0.19192	0.210516	-0.26171	0.983621	0.160413	0.11939	0.051366	0.035014	-0.44058	0.20558	-0.3347	0.591347	0.001091	0.912257	0.011495
KRTAP11-1	0.094581	-0.12405	0.156254	-0.2579	0.484036	0.362349	0.245764	0.052759	0.332929	-0.26053	0.272167	-0.25016	0.987281	0.04195	0.963054	0.048723
KRTAP19-1	0.000554	-0.01191	0.026205	-0.30794	0.996735	0.930555	0.846574	0.019789	0.098353	-0.27819	0.001524	-0.4149	0.739813	0.032133	0.503918	0.002299
KRTAP13-2	0.05567	-0.20381	0.057209	-0.30197	0.680848	0.131906	0.672518	0.022435	0.045345	-0.35035	0.057644	-0.19592	0.6163	0.009152	0.644931	0.098554
KRTAP13-3	-0.03899	-0.01171	0.047861	-0.27433	0.773376	0.931734	0.723682	0.038921	0.089248	-0.36569	0.121395	-0.20821	0.722347	0.006223	0.786511	0.082481
KRTAP23-1	-0.00974	-0.13745	0.155161	-0.33822	0.942685	0.31242	0.249124	0.010074	0.183773	-0.26036	0.191486	-0.28393	0.886558	0.042056	0.893466	0.029367
KRTAP6-1	0.124416	-0.04006	0.218997	-0.22163	0.356476	0.769393	0.101694	0.097549	0.182368	-0.35064	0.22257	-0.27655	0.887444	0.008445	0.929156	0.031405
KRTAP6-2	0.007713	0.11026	0.205726	-0.1564	0.95459	0.418532	0.124719	0.245309	-0.01005	-0.12729	-0.01291	-0.04282	0.47388	0.202352	0.466852	0.390018
KRTAP6-3	0.104275	-0.07658	0.163596	-0.19808	0.444385	0.578426	0.228293	0.143348	0.146345	-0.33977	0.159536	-0.30016	0.831288	0.011199	0.84953	0.02257
KRTAP19-2	0.060554	-0.05346	0.127095	-0.18192	0.654549	0.695544	0.346133	0.175618	0.204445	-0.33852	0.134042	-0.3054	0.913543	0.010692	0.809988	0.019514
KRTAP19-3	-0.04414	0.032775	0.110042	-0.24845	0.744406	0.810488	0.415147	0.062386	0.089628	-0.34278	0.020595	-0.36494	0.723193	0.00985	0.55341	0.006322
KRTAP19-4	0.049099	-0.28687	0.145221	-0.07821	0.719332	0.033713	0.285567	0.566697	-0.00928	-0.19906	-0.07812	-0.05984	0.4756	0.092379	0.305007	0.346408

KRTAP19-5	0.065102	0.057102	0.106007	-0.08125	0.630426	0.675938	0.432561	0.547971	0.155904	0.012323	0.234805	-0.09799	0.84958	0.532391	0.939739	0.258539
KRTAP19-6	-0.16235	-0.1238	-0.00877	-0.18923	0.231898	0.363327	0.948841	0.162471	0.0844	-0.2999	0.174423	-0.22491	0.711466	0.021438	0.874092	0.06645
KRTAP19-7	-0.0787	-0.27148	0.163431	-0.2663	0.560603	0.042978	0.224469	0.045249	0.024851	-0.27501	0.031008	-0.24309	0.564362	0.033747	0.579186	0.0538
KRTAP20-1	-0.10399	0.030739	-0.00663	-0.10313	0.445622	0.823705	0.961337	0.449442	0.075755	-0.16391	0.16996	-0.03727	0.691594	0.138192	0.867829	0.402884
KRTAP20-2	0.070358	0.040893	0.096304	-0.18214	0.603015	0.764756	0.476076	0.175076	0.169805	-0.20492	0.083185	-0.2526	0.870382	0.085952	0.706525	0.045168
KRTAP21-1	0.232905	0.026065	0.203583	0.043246	0.084089	0.850173	0.132344	0.751644	-0.10425	-0.00949	-0.05349	-0.08189	0.245269	0.475046	0.36356	0.294246
KRTAP21-2	-0.01496	-0.11469	0.181237	-0.18298	0.912878	0.404421	0.181299	0.177058	0.116004	-0.35965	0.20717	-0.38926	0.778675	0.007047	0.913952	0.00375
KRTAP22-1	0.000122	-0.09651	0.154471	-0.16318	0.999281	0.479216	0.25126	0.225182	0.194579	-0.21957	0.164108	-0.24254	0.902479	0.071303	0.859308	0.052179
APOB	-0.02713	-0.12907	0.175694	-0.30963	0.841233	0.343085	0.191121	0.019088	0.091376	-0.51034	0.162143	-0.5642	0.724736	0.000171	0.853497	2.71E-05
FAM151A	-0.00604	-0.19639	0.226217	-0.04115	0.964436	0.146877	0.090631	0.761215	0.066993	-0.30882	0.113489	-0.18414	0.670885	0.018388	0.771043	0.110284
IBSP	0.088758	-0.1289	0.242073	-0.30427	0.511464	0.343741	0.069646	0.021382	0.163993	-0.38698	0.110848	-0.28195	0.861932	0.003944	0.765744	0.028826
ICA1	-0.18051	0.141209	0.12316	-0.10204	0.179049	0.299229	0.36139	0.450095	-0.07499	0.109153	-0.08694	0.053239	0.310202	0.764884	0.285068	0.637354
ICAM1	0.155471	-0.26867	0.262845	0.470749	0.248166	0.045262	0.048228	0.000219	0.077653	-0.0109	0.217352	0.179725	0.696007	0.471335	0.924246	0.88399
NLRP9	-0.02274	-0.06042	0.132188	-0.15733	0.867867	0.661235	0.331467	0.246855	0.101311	-0.35792	0.1919	-0.19907	0.748552	0.007298	0.89668	0.09237
NLRP10	-0.08809	0.051372	0.031774	-0.18036	0.518556	0.709538	0.816173	0.183456	-0.03531	-0.19852	0.136127	-0.2533	0.407885	0.092992	0.813705	0.044705
NLRP14	-0.06943	-0.19692	0.084331	-0.45303	0.607823	0.14576	0.532831	0.000402	0.019091	-0.42551	0.217001	-0.40075	0.549531	0.001784	0.921452	0.003186
S100A7A	0.129636	0.047085	0.249726	-0.15974	0.336495	0.730401	0.06101	0.235258	0.190978	-0.42123	0.308352	-0.11769	0.898201	0.001777	0.980339	0.218003
GPIHBP1	-0.04548	-0.3178	0.21017	-0.08387	0.736894	0.016994	0.116607	0.535097	0.178854	-0.41689	0.175802	-0.31534	0.882835	0.001975	0.875986	0.016393
CLEC4D	0.001279	-0.26181	0.012418	-0.2382	0.992464	0.05128	0.926953	0.074377	-0.00576	-0.50572	0.095744	-0.44077	0.484858	0.000168	0.734223	0.001085
IFNE	-0.1036	0.458127	-0.19892	-0.14344	0.451651	0.000495	0.145417	0.29613	-0.1574	0.68926	-0.34863	0.314493	0.148076	1	0.009461	0.983358
TAS2R60	-0.09581	-0.00089	0.064153	-0.16058	0.478367	0.994834	0.635427	0.232763	0.029159	-0.30703	0.141978	-0.3199	0.575402	0.020109	0.821039	0.016087
ICAM2	0.080078	-0.2613	0.192441	0.302948	0.553759	0.051744	0.151528	0.021983	0.184718	-0.3582	0.040916	-0.12556	0.890455	0.007257	0.605213	0.202855
ANO9	-0.1134	0.099912	-0.12372	0.036851	0.400985	0.463773	0.359203	0.78551	-0.19219	0.477636	-0.2169	0.257741	0.10034	0.999606	0.076195	0.958125
NIACR1	0.003457	0.08723	0.061373	-0.07812	0.979637	0.522651	0.650174	0.563523	-0.15316	-0.01906	-0.07136	-0.1387	0.154769	0.449976	0.320664	0.178984
ICAM3	-0.03061	-0.44165	0.055535	0.342558	0.821198	0.000656	0.681578	0.009097	-0.35999	-0.07868	-0.08319	0.035821	0.00757	0.303717	0.295689	0.592356
GPR120	-0.03783	-0.03428	0.123929	-0.15196	0.779951	0.801931	0.358376	0.259148	0.132544	-0.41523	0.197805	-0.39967	0.810055	0.002056	0.903625	0.002963
KCNK18	0.037691	-0.25974	0.231974	-0.19886	0.78074	0.053215	0.082504	0.138084	0.081915	-0.41628	0.146674	-0.32726	0.705814	0.002004	0.831835	0.013208
ST8SIA6	0.090021	-0.20088	0.104664	0.168346	0.50545	0.137678	0.438447	0.210649	-0.17493	-0.04542	0.147891	0.117793	0.122464	0.382179	0.833854	0.782199
DUPD1	0.086833	-0.1904	0.246723	-0.12372	0.5207	0.159848	0.06429	0.359178	0.255186	-0.15269	0.212599	-0.20698	0.956514	0.155518	0.919559	0.083766
ICAM4	0.129089	-0.14997	0.073827	-0.02448	0.338557	0.269924	0.585219	0.856539	-0.0254	-0.00324	0.106822	-0.01755	0.433474	0.491481	0.757543	0.453921
LUZP2	0.020836	0.027158	0.068116	-0.43639	0.877736	0.84251	0.614643	0.00069	0.043504	-0.24646	0.04243	-0.30545	0.612972	0.049353	0.609011	0.019495
CCDC84	-0.15665	0.259781	0.040262	0.108944	0.244552	0.053173	0.766192	0.419846	0.236581	-0.12776	0.066801	-0.26978	0.943287	0.198747	0.668579	0.034903
PMP22CD	0.037909	-0.26131	0.120263	-0.27227	0.779505	0.051738	0.372879	0.040469	-0.01481	-0.41522	0.141806	-0.24699	0.461093	0.002056	0.823609	0.048983
OR8D4	-0.02406	-0.21357	0.12361	-0.37142	0.860299	0.117441	0.36407	0.004827	0.017192	-0.25085	0.075929	-0.3148	0.545143	0.04633	0.689957	0.016551
OR5F1	0.085649	-0.17756	0.165329	-0.21369	0.526423	0.190478	0.21906	0.110471	-0.14395	-0.31254	0.1207	-0.2703	0.169925	0.017227	0.785174	0.034622
OR5AP2	0.098819	-0.18965	0.198472	-0.24716	0.464578	0.161531	0.138873	0.063809	0.15201	-0.28287	0.102131	-0.30568	0.843388	0.0284	0.747802	0.019419
ANKRD13D	-0.15113	-0.2034	0.071868	-0.05476	0.261793	0.132696	0.595239	0.68577	-0.03028	-0.16105	0.09934	-0.08622	0.420838	0.142489	0.741911	0.284425
ANKRD42	-0.1398	-0.08451	-0.10113	-0.20889	0.299642	0.535769	0.45416	0.1189	-0.19972	-0.24809	0.053087	-0.15901	0.091637	0.048214	0.635456	0.1456
B4GALNT4	-0.07698	-0.11517	0.123388	-0.09764	0.569254	0.397995	0.360494	0.469964	0.11448	-0.28832	0.074088	-0.21694	0.775645	0.025999	0.685694	0.073784
OR52L1	-0.04564	-0.12495	0.135157	-0.0806	0.736056	0.358839	0.316141	0.551169	-0.04062	-0.13791	0.116132	-0.17572	0.394348	0.180365	0.776281	0.121379
OR2AG2	0.04491	-0.03183	0.182602	-0.31316	0.740101	0.815832	0.173977	0.017696	0.008021	-0.21675	0.033891	-0.23509	0.521097	0.073967	0.587458	0.057896
C1QL4	0.061875	-0.20423	0.295014	-0.23714	0.647503	0.131088	0.025894	0.075706	0.173104	-0.45289	0.201519	-0.4922	0.87502	0.000788	0.907821	0.000256
TMEM119	0.217907	-0.25733	0.245425	0.237311	0.103451	0.055536	0.065751	0.075494	0.20792	-0.21628	0.170214	-0.06682	0.914742	0.076796	0.865344	0.331371
KRT79	0.106457	-0.23196	0.276352	-0.29294	0.434857	0.088365	0.039234	0.028448	0.196015	-0.23356	0.265189	-0.20511	0.904149	0.059122	0.960843	0.085744
LOC338797	0.047573	-0.00036	0.148766	-0.23692	0.725283	0.997895	0.269405	0.075989	0.136216	-0.33352	0.279954	-0.26165	0.816646	0.011753	0.968739	0.039504
LOC338799	-0.00812	-0.07303	0.111427	-0.06781	0.952173	0.592733	0.409264	0.616257	-0.00191	0.017958	0.069269	0.020197	0.494987	0.547145	0.674416	0.552993
C12orf74	-0.26416	-0.10686	-0.00385	-0.06981	0.047075	0.433108	0.97733	0.605827	-0.35875	-0.0026	-0.0072	0.014589	0.007177	0.493154	0.481279	0.538332
FAM19A2	0.16457	-0.23643	0.091491	-0.16328	0.225498	0.082228	0.502462	0.229217	0.103755	-0.03653	0.196651	-0.21464	0.751196	0.405851	0.899625	0.078406
LST-3TM12	-0.18408	-0.21592	0.099386	-0.09528	0.174431	0.113357	0.466144	0.484833	0.190072	-0.37386	-0.00019	-0.24917	0.897104	0.005242	0.499514	0.04747
RPS12P23	-0.10488	0.066267	0.057815	-0.02926	0.441738	0.627501	0.672118	0.830482	0.058067	-0.12774	-0.03797	-0.10784	0.649258	0.198781	0.402202	0.237809

C1QTNF9	-0.10667	-0.02418	0.064791	-0.183	0.429679	0.859599	0.632063	0.173022	0.044217	-0.20485	0.082528	-0.07192	0.614774	0.086019	0.705041	0.317413
RNASE10	0.17339	-0.2293	0.21547	-0.32788	0.201259	0.092183	0.110744	0.013627	-0.01595	-0.37613	0.041962	-0.3497	0.458106	0.004995	0.607837	0.008603
VSX2	0.008621	-0.07806	0.163755	-0.17678	0.949254	0.567436	0.223539	0.188358	0.045061	-0.28076	0.084797	-0.26971	0.616904	0.029376	0.710151	0.034941
TMEM202	0.014161	0.049883	0.09181	-0.31902	0.917495	0.7176	0.500965	0.016555	0.031113	-0.31946	0.166819	-0.19656	0.581316	0.015227	0.863299	0.095229
APOBEC1	0.210736	-0.12676	0.279576	-0.36049	0.115604	0.351873	0.035188	0.005875	0.087119	-0.42596	0.31547	-0.42305	0.717592	0.001581	0.982611	0.001699
POTEB	-0.20279	-0.09662	-0.02019	-0.15977	0.130319	0.478723	0.8815	0.235151	-0.10876	-0.10195	-0.04514	-0.13042	0.235929	0.250097	0.38422	0.193825
FLJ40448	-0.03129	-0.23277	0.18104	-0.10602	0.81729	0.084279	0.177752	0.432522	0.225226	-0.43513	0.197493	-0.31852	0.933829	0.001255	0.903267	0.015486
POL3S	0.041279	-0.25259	0.286778	-0.20081	0.760463	0.060359	0.030556	0.134193	0.157923	-0.40619	0.325961	-0.34506	0.852728	0.002548	0.985561	0.009424
RAB43	-0.13745	0.018933	0.094962	-0.22385	0.307932	0.889845	0.482274	0.094142	0.087134	0.028013	0.047446	0.094457	0.717626	0.573309	0.621527	0.73382
JMJD8	0.019502	-0.19343	0.086281	-0.05928	0.885509	0.153187	0.523365	0.66137	0.042267	0.004247	0.039025	-0.17061	0.608604	0.511045	0.599289	0.131249
FAM92B	-0.25532	-0.18358	0.02503	-0.3075	0.055258	0.17563	0.853376	0.019973	-0.22589	-0.35813	-0.03147	-0.29277	0.065586	0.007267	0.418702	0.024162
TMEM95	0.027648	-0.03411	0.13125	-0.24908	0.838232	0.80292	0.330462	0.0617	-0.11925	-0.35174	0.082791	-0.24624	0.214944	0.008263	0.705635	0.049507
METTL2A	-0.09789	0.196091	-0.08202	-0.0337	0.468829	0.147501	0.544155	0.803471	0.017719	0.010132	-0.09021	-0.09337	0.546521	0.526641	0.277814	0.268555
CCDC144N	0.008691	-0.16884	0.202436	0.064385	0.948838	0.213512	0.130998	0.634202	0.085391	-0.37165	0.220124	-0.29791	0.713706	0.005494	0.926885	0.022173
C17orf65	-0.06327	0.202834	0.049187	0.085651	0.640103	0.133804	0.716346	0.526412	-0.19222	0.45333	-0.14018	0.239607	0.100306	0.999222	0.179198	0.945624
ENPP7	-0.10412	-0.09721	0.173501	-0.06869	0.440862	0.475986	0.196809	0.611658	0.040197	-0.19912	0.169957	-0.18342	0.604585	0.092311	0.867825	0.111201
C17orf90	-0.15723	-0.08695	0.059513	-0.20128	0.242792	0.523992	0.660121	0.133267	0.094662	-0.37615	0.138546	-0.30299	0.734266	0.004992	0.817963	0.020339
CCDC137	-0.18648	0.062847	-0.0123	-0.17472	0.164853	0.645407	0.927664	0.193642	-0.13514	0.158727	-0.13009	0.063696	0.185264	0.853969	0.197172	0.662957
MSL1	0.108367	-0.27414	0.080221	-0.14231	0.422326	0.040896	0.553049	0.290954	-0.01339	-0.22134	-0.03838	-0.18999	0.464808	0.069661	0.401182	0.103
CPLX4	-0.17462	-0.21549	0.058312	-0.14034	0.193894	0.110703	0.666572	0.297772	-0.00318	-0.28785	0.133889	-0.26599	0.49163	0.026199	0.809712	0.036991
ZNF181	0.212991	0.146605	0.029688	0.216946	0.111669	0.280951	0.82648	0.105019	0.413208	0.190273	0.07268	0.023067	0.997842	0.897349	0.682413	0.560469
ZNF260	-0.02766	0.294437	-0.25191	0.096642	0.838146	0.027612	0.058707	0.474522	-0.07457	0.447943	-0.12588	0.302511	0.311183	0.999101	0.20499	0.979494
ZNF546	0.080122	-0.1192	0.061002	-0.13682	0.553544	0.381551	0.652154	0.310163	0.178268	-0.25299	0.152062	-0.21661	0.882055	0.044906	0.84066	0.074101
MYPOP	-0.03797	-0.09245	0.22211	-0.11407	0.779181	0.497951	0.096803	0.398159	0.016809	-0.22215	0.126935	-0.1521	0.544143	0.06893	0.796988	0.156467
NANOS2	0.006482	-0.13098	0.216365	-0.12121	0.961833	0.335926	0.105977	0.369118	0.137134	-0.43579	0.238789	-0.2807	0.81827	0.001234	0.942914	0.029406
ADAMTSL5	0.078227	0.037764	-0.0301	-0.28363	0.562994	0.782298	0.824124	0.032516	0.055384	0.076651	0.005897	0.057436	0.642658	0.69368	0.515333	0.647708
CLEC4G	-0.09738	-0.21565	0.228149	-0.05032	0.471118	0.110441	0.087837	0.710103	0.014138	-0.44297	0.024333	-0.37665	0.536722	0.001155	0.562292	0.005383
LINGO4	0.102715	-0.10871	0.358858	-0.19494	0.447064	0.425143	0.006121	0.146182	0.109092	-0.37281	0.264993	-0.33416	0.764758	0.00536	0.960729	0.011614
IRF8	-0.14688	-0.22269	-0.00234	0.573486	0.275576	0.099006	0.986237	3.12E-06	-0.01435	-0.03911	0.007264	0.095913	0.462728	0.399325	0.518662	0.734586
RXFP4	0.013099	-0.19858	0.201425	-0.27019	0.922957	0.14232	0.132973	0.042086	0.112972	-0.47025	0.045857	-0.45387	0.772628	0.000487	0.617577	0.000767
ANKRD45	-0.10817	-0.16742	0.043839	-0.27584	0.423162	0.217444	0.746087	0.037813	-0.23099	-0.25549	0.069299	-0.14884	0.061236	0.043294	0.674485	0.161773
C1orf174	-0.12872	0.304231	-0.08336	0.106909	0.339943	0.022629	0.537553	0.428631	-0.1814	0.441635	-0.21928	0.241781	0.113809	0.998939	0.073916	0.947258
KLHL17	-0.0309	-0.10273	0.256848	-0.15988	0.819521	0.451201	0.053769	0.234829	0.072947	-0.33874	0.13664	-0.28039	0.685017	0.010647	0.814613	0.029554
TMEM52	-0.01145	-0.19791	0.272726	-0.126	0.932618	0.143715	0.040121	0.350326	0.108328	-0.34272	0.042047	-0.27771	0.763193	0.009861	0.608052	0.030836
C1orf222	-0.15395	-0.25458	0.093629	-0.34296	0.252869	0.058294	0.48847	0.009011	-0.21791	-0.37164	0.072908	-0.29554	0.072862	0.005494	0.682946	0.023073
FAM5C	0.33582	-0.19888	0.22025	-0.12015	0.010654	0.141711	0.099702	0.373328	0.193627	-0.31189	0.287437	-0.10681	0.898746	0.018504	0.970747	0.242478
LOC339483	0.186317	-0.30261	0.3632	0.016703	0.165234	0.023399	0.005489	0.901851	0.253535	-0.3015	0.242879	-0.12178	0.955448	0.020863	0.94604	0.210047
ZBTB80S	-0.07446	0.382168	-0.1926	0.020336	0.585462	0.003986	0.154988	0.881742	-0.1995	0.375823	-0.36514	0.098114	0.091886	0.994972	0.006826	0.741733
TFAP2E	0.060729	-0.08884	0.234769	-0.15225	0.653611	0.514961	0.078771	0.258217	0.187481	-0.36173	0.256388	-0.29366	0.893923	0.006752	0.955439	0.023808
ZNF678	-0.06489	0.103765	-0.06635	-0.02487	0.634698	0.450907	0.627076	0.855655	-0.18313	0.368783	-0.10214	0.330086	0.111572	0.994165	0.252185	0.987466
MPN2	0.030963	-0.03789	0.212155	-0.23821	0.819149	0.781618	0.113115	0.074365	-0.04894	-0.25212	0.092173	-0.21657	0.373345	0.045481	0.72648	0.074137
C1orf110	-0.18899	0.143493	-0.13893	-0.26158	0.159143	0.2914	0.30268	0.049353	-0.23222	0.066547	-0.03825	-0.04853	0.060214	0.669818	0.401513	0.374371
FAM58B	-0.05695	-0.07118	0.248925	-0.01373	0.67393	0.602135	0.061871	0.919254	0.166173	-0.20762	0.125041	-0.17833	0.865142	0.083102	0.793439	0.117858
LOC339524	0.081616	-0.32616	-0.00777	-0.08749	0.546145	0.014158	0.954264	0.517561	0.223832	-0.3328	0.477648	-0.14781	0.932591	0.011914	0.999547	0.163471
NCRNA000	-0.21475	-0.10931	0.02902	-0.26741	0.108677	0.422579	0.830321	0.044331	-0.28341	-0.30288	0.019148	-0.2083	0.028155	0.020376	0.549677	0.082393
ZNF642	0.015249	-0.15647	0.063575	-0.18336	0.910363	0.249493	0.638481	0.172156	-0.1851	-0.0394	0.183742	-0.01628	0.109059	0.39744	0.886517	0.457243
ICT1	-0.13527	-0.06931	-0.22707	0.05985	0.320211	0.615082	0.092378	0.661265	-0.31719	0.461015	-0.38923	0.329655	0.01586	0.999369	0.004113	0.987365
SLC35E4	0.116421	-0.09334	0.364072	-0.1502	0.388453	0.493822	0.005369	0.264773	0.105475	-0.0088	0.095946	0.02091	0.757295	0.476846	0.734659	0.554853
C22orf33	-0.12104	-0.21588	0.17715	-0.16099	0.36977	0.110051	0.187411	0.23156	-0.09477	-0.22744	0.074246	-0.23173	0.265497	0.064237	0.686058	0.060621
ID1	0.10269	-0.00656	-0.14961	0.253652	0.447179	0.961738	0.266658	0.056927	0.145206	0.364717	-0.11468	0.231986	0.832189	0.99365	0.226593	0.939591

AK2P2	-0.04655	0.142853	0.206963	-0.24178	0.73097	0.293581	0.122419	0.069991	0.078705	-0.05799	0.219354	-0.23083	0.698441	0.35092	0.926159	0.061362
LOC339742	-0.01443	-0.20737	0.274129	-0.02246	0.915168	0.125144	0.039066	0.868277	0.256009	-0.30894	0.200898	-0.27097	0.957038	0.01835	0.907129	0.03427
SPOPL	-0.01027	0.103802	-0.1051	0.014003	0.939557	0.446466	0.436547	0.917659	0.166743	-0.03204	0.107106	0.012702	0.865974	0.416308	0.758126	0.533385
CYP27C1	-0.12186	0.090779	-0.11498	-0.16161	0.366505	0.505808	0.394379	0.229736	-0.03816	0.211322	-0.13876	0.00112	0.400607	0.920699	0.181664	0.502946
HEATR7B1	-0.16828	-0.02853	0.097873	-0.13653	0.210841	0.834679	0.468884	0.311211	-0.02226	-0.24667	-0.03921	-0.30101	0.441636	0.049207	0.399074	0.021036
ESPNL	-0.05393	-0.122	0.256188	-0.14135	0.690324	0.370386	0.05441	0.294276	-0.03845	-0.34639	0.202546	-0.29879	0.399869	0.009181	0.908958	0.021844
C2orf70	-0.15252	-0.18725	0.112701	-0.29628	0.257384	0.166991	0.403892	0.025231	-0.14751	-0.53166	0.012251	-0.42398	0.163962	7.17E-05	0.531829	0.001661
C2orf53	0.008204	-0.09203	0.186714	-0.1926	0.951704	0.499949	0.164318	0.151179	0.126191	-0.34108	0.168259	-0.32167	0.798327	0.010179	0.865388	0.014631
C2orf46	0.087672	-0.17287	0.329563	-0.08646	0.516666	0.202643	0.012301	0.522481	0.008674	-0.42815	0.267482	-0.25777	0.522812	0.001497	0.962163	0.041855
ID2	0.295242	-0.17879	0.079559	0.32004	0.025774	0.187355	0.556342	0.015227	0.328857	-0.27506	0.248685	-0.1046	0.987176	0.032151	0.950249	0.244529
CCDC39	-0.03178	-0.13837	0.04803	-0.25334	0.814448	0.309159	0.722747	0.057246	-0.06068	-0.40721	0.151625	-0.29023	0.344349	0.002487	0.839955	0.025197
CCDC36	0.209322	0.002382	0.332407	-0.12439	0.118122	0.986101	0.011527	0.356585	0.259949	-0.31789	0.292892	-0.18988	0.959479	0.015663	0.974563	0.103129
LOC339843	0.128124	0.252915	-0.07127	0.0204	0.342211	0.060018	0.598301	0.880275	-0.00282	0.288984	0.112025	0.323114	0.492573	0.974282	0.768113	0.985748
KY	0.091953	-0.16297	0.146945	-0.3652	0.496318	0.230101	0.275376	0.005217	0.089337	-0.48436	0.239249	-0.41719	0.722545	0.000324	0.943272	0.001961
C3orf35	-0.08796	-0.04069	0.068153	-0.02786	0.515287	0.765909	0.614452	0.837038	0.141129	-0.18538	0.001896	-0.32108	0.825243	0.108705	0.504931	0.014789
GADL1	0.156937	-0.13652	0.237543	-0.08153	0.248052	0.320302	0.077927	0.550283	0.393907	-0.3644	0.09467	-0.20182	0.996621	0.006392	0.731906	0.089312
ID3	0.292989	-0.16106	0.050225	0.276039	0.026981	0.235676	0.710617	0.037668	0.33742	0.145923	0.158522	0.096448	0.989082	0.833391	0.850846	0.738141
TESSP2	0.075165	-0.21685	0.310612	-0.13039	0.578416	0.108414	0.018693	0.333658	0.118951	-0.45797	0.238072	-0.30379	0.784465	0.000686	0.942352	0.020062
C3orf47	-0.10432	-0.0792	0.141796	-0.21763	0.439942	0.561778	0.292732	0.103903	0.132729	-0.23363	0.202992	-0.30328	0.81039	0.059069	0.909448	0.020238
FLJ25770	0.029915	-0.16896	0.039909	-0.15418	0.825169	0.213196	0.768188	0.252157	0.048513	-0.25323	-0.03583	-0.15024	0.624174	0.046635	0.408703	0.162287
TMPRSS11	-0.15267	0.406844	-0.24602	-0.01181	0.261308	0.002053	0.067594	0.93114	-0.21344	0.625888	-0.28673	0.359895	0.077186	0.999998	0.02809	0.992989
GRINL1B	-0.06814	0.37104	-0.15053	-0.17078	0.614538	0.004874	0.263712	0.204018	0.002724	0.045666	-0.20875	-0.08551	0.507168	0.618428	0.084386	0.286027
TRIML1	-0.05911	-0.01152	0.127435	-0.15598	0.662292	0.932838	0.344832	0.246602	0.001479	-0.17949	0.037219	-0.31857	0.503891	0.11632	0.595894	0.015472
LRRRC66	0.008564	-0.07314	0.151658	-0.22721	0.94959	0.592154	0.260101	0.089189	-0.10412	-0.35956	0.114519	-0.19165	0.245526	0.007059	0.773091	0.100991
NAT8L	0.008846	-0.04752	0.285161	0.025465	0.947929	0.728013	0.031549	0.850855	0.2961	-0.20721	0.193982	-0.18546	0.975863	0.086009	0.896474	0.111289
ACADM	-0.0313	0.164988	-0.26609	0.031973	0.817213	0.224307	0.045431	0.813355	-0.11264	0.286802	-0.0654	0.230495	0.228041	0.973349	0.334763	0.938355
ID4	0.374515	-0.11544	0.021738	0.01501	0.004103	0.396877	0.872485	0.911762	0.514496	-0.08366	0.225013	-0.02851	0.999873	0.290202	0.931373	0.425412
SLC6A19	-0.0542	-0.08817	0.207733	-0.21857	0.688843	0.518182	0.121004	0.102387	0.083614	-0.30003	0.177539	-0.3016	0.709683	0.021391	0.878345	0.020827
TMEM173	-0.10146	-0.22052	0.071701	0.083572	0.45266	0.102427	0.5961	0.536538	-0.32403	0.052465	-0.126	0.154863	0.014017	0.635433	0.204761	0.847941
FAM170A	-0.01986	-0.02704	0.105972	-0.20981	0.884514	0.844647	0.436965	0.120669	0.046665	-0.35061	0.16963	-0.3988	0.620941	0.008449	0.867358	0.003023
ARSI	0.105241	0.04296	0.100562	-0.23463	0.435913	0.753233	0.456699	0.07896	0.088476	-0.19843	0.067235	-0.19918	0.720628	0.093094	0.669609	0.092241
LOC340096	-0.08738	-0.14597	0.040407	-0.09337	0.518087	0.283075	0.765376	0.489676	-0.24986	-0.37855	0.056529	-0.22956	0.047002	0.004742	0.643873	0.06243
ANKRD34B	-0.04146	-0.14561	0.123216	-0.31901	0.761585	0.2888	0.365612	0.016556	0.215861	-0.26713	0.259861	-0.31306	0.922798	0.038038	0.955763	0.018132
SLC35D3	0.07558	-0.12362	0.301863	-0.16558	0.576314	0.364017	0.022487	0.218356	0.188346	-0.1958	0.168437	-0.07374	0.894993	0.096095	0.865645	0.313126
ZC3H12D	-0.04246	-0.26446	0.198576	-0.00265	0.753809	0.048884	0.138661	0.98441	0.001672	-0.27681	0.105827	-0.28536	0.504399	0.031281	0.755493	0.027282
MYLK4	-0.02198	0.31664	-0.03265	-0.19243	0.87108	0.017425	0.809475	0.151545	-0.2437	0.153687	-0.22124	0.03231	0.051329	0.846075	0.072071	0.584399
DPPA5	-0.12998	-0.08542	0.074998	-0.14527	0.33519	0.531355	0.579266	0.280956	0.110689	-0.51528	0.185719	-0.30881	0.768015	0.000124	0.889041	0.018392
TREML1	-0.00268	-0.20311	0.130519	-0.28619	0.98421	0.13326	0.333187	0.030912	0.051644	-0.37935	0.185268	-0.38698	0.631909	0.005085	0.885707	0.004318
TREML3	-0.07919	-0.27526	0.253416	-0.09374	0.558158	0.040047	0.057166	0.487934	-0.00803	-0.39909	0.140194	-0.36849	0.478869	0.003003	0.82083	0.005872
ZNF680	0.097907	0.110635	-0.12193	-0.04499	0.468729	0.41694	0.366242	0.739641	-0.07573	0.278443	-0.11797	0.193548	0.308475	0.969519	0.220125	0.901267
UNCX	0.031293	-0.09696	0.307421	-0.15625	0.817255	0.477163	0.020008	0.245773	0.228741	-0.39309	0.186265	-0.39891	0.934654	0.003779	0.886976	0.00332
COL28A1	-0.19788	-0.2297	0.047226	-0.24238	0.143777	0.091607	0.729619	0.071885	0.071723	-0.61844	0.068371	-0.49872	0.682134	2.32E-06	0.672296	0.00021
tcag7.893	0.194233	-0.40614	0.301434	-0.01795	0.15145	0.002093	0.023968	0.895521	0.136583	-0.27486	0.241381	-0.16212	0.814512	0.033827	0.942773	0.143672
ABC5	-0.08652	-0.10977	0.076483	-0.26123	0.522195	0.420635	0.571752	0.049676	-0.08043	-0.46001	0.103938	-0.35821	0.297583	0.000649	0.751577	0.007256
ASSP11	-0.07396	0.255149	-0.1188	-0.07448	0.584535	0.057717	0.378784	0.581882	-0.00892	0.402581	-0.12285	0.217199	0.47655	0.997229	0.210717	0.926464
C7orf46	-0.15229	0.089694	-0.12204	-0.14363	0.258084	0.510925	0.365807	0.286467	-0.14443	-0.03064	-0.03839	-0.0971	0.169121	0.4199	0.401148	0.260453
FAM183B	-0.00506	-0.09255	0.236878	-0.26244	0.970486	0.501538	0.078787	0.0507	0.129807	-0.34258	0.175154	-0.41328	0.805054	0.009889	0.875099	0.002154
TSPAN33	-0.07397	-0.23777	0.210598	0.142704	0.584471	0.077632	0.115847	0.289622	-0.06248	-0.27183	-0.00978	-0.04875	0.33998	0.033813	0.47459	0.373836
AGBL3	-0.19982	-0.05528	-0.02742	-0.16739	0.136148	0.685708	0.839533	0.213281	-0.29134	-0.23355	0.009486	-0.19396	0.024742	0.059133	0.524658	0.098247
KLHL38	0.005993	-0.17475	0.243181	-0.08609	0.965033	0.201943	0.070923	0.528122	0.143037	-0.4828	0.17803	-0.50724	0.828515	0.000339	0.879005	0.00016

NRBP2	-0.0075	-0.22514	0.198002	-0.09437	0.955824	0.095259	0.139829	0.484997	0.146916	-0.38961	0.082784	-0.39982	0.835048	0.003721	0.705621	0.002953
ZNF517	-0.05931	-0.17454	0.197073	-0.15333	0.6612	0.198243	0.141735	0.254809	0.010986	-0.39274	0.089859	-0.31792	0.528883	0.003469	0.721404	0.015656
KIAA1875	-0.18968	-0.08667	0.026932	-0.32586	0.157598	0.525311	0.842371	0.013376	0.091682	-0.36346	0.226409	-0.40457	0.725407	0.007061	0.930277	0.002921
RSPO2	0.176213	-0.15179	0.24695	-0.16292	0.189793	0.264089	0.064037	0.225946	0.209563	-0.44175	0.180602	-0.29008	0.918911	0.001058	0.882429	0.025259
POTEA	0.257032	-0.20199	0.179772	-0.33676	0.055833	0.139168	0.184914	0.011155	0.052408	-0.25153	0.100904	-0.25258	0.633788	0.047785	0.742709	0.04707
ZDHH21	-0.01336	0.44314	-0.21947	0.11733	0.921406	0.000625	0.100934	0.384734	0.029033	0.553548	-0.09187	0.347824	0.575947	0.999967	0.274183	0.991073
ACER2	-0.11393	0.128274	-0.27483	-0.21394	0.398773	0.346108	0.038548	0.110042	-0.18034	0.231544	-0.16422	0.035066	0.115205	0.939227	0.140529	0.591479
RGAG4	0.008574	-0.52556	0.178566	-0.28029	0.949527	3.19E-05	0.183852	0.034705	0.050416	-0.63151	0.311196	-0.46604	0.630335	1.26E-06	0.981274	0.000549
NHSL2	0.240881	-0.43902	0.316907	0.021156	0.071075	0.000712	0.016312	0.875872	0.161794	-0.60847	0.275977	-0.30134	0.858642	3.63E-06	0.96675	0.02092
PABPC1L2	0.029141	-0.03369	-0.00068	-0.44469	0.829624	0.805282	0.996005	0.000529	0.0421	0.071346	0.037459	-0.22394	0.609417	0.681243	0.596499	0.067313
KIAA2022	0.146711	0.052922	0.114535	-0.48722	0.276149	0.69848	0.396238	0.000121	0.040391	-0.15526	0.11833	-0.36999	0.605079	0.151438	0.780584	0.005689
BEX5	0.054937	-0.21935	0.075012	0.04161	0.68483	0.104319	0.579194	0.758596	0.202091	-0.34967	0.105205	-0.22027	0.91099	0.008608	0.754208	0.070648
TCEAL5	0.187117	-0.23648	0.221893	-0.29751	0.163393	0.079303	0.097138	0.024604	0.197244	-0.49727	0.345899	-0.40864	0.905562	0.000219	0.990028	0.002405
VSIG1	-0.20272	0.096401	-0.28237	-0.20033	0.130438	0.479707	0.033324	0.135135	-0.01533	0.042761	-0.10391	-0.06338	0.459734	0.611092	0.248489	0.337812
ZC3H12B	0.26319	-0.29779	0.303896	-0.08766	0.047924	0.025813	0.021552	0.516738	0.171277	-0.30865	0.383146	-0.37286	0.872466	0.018442	0.99531	0.005355
SATL1	0.01975	0.094744	0.284054	-0.30724	0.884061	0.487323	0.032244	0.020083	-0.04276	-0.33704	0.16932	-0.28659	0.388921	0.010997	0.866915	0.026744
WDR40C	0.014027	0.010685	0.145842	-0.17759	0.917519	0.937703	0.279035	0.186307	0.227922	-0.01031	0.063169	-0.08344	0.936174	0.472882	0.659917	0.290708
CA5BP	-0.03654	0.033776	0.161439	-0.18296	0.787291	0.80481	0.230245	0.17311	-0.01659	0.006925	0.015457	-0.20022	0.456428	0.518216	0.540137	0.091083
ZCCHC16	0.084915	-0.12467	0.170201	-0.16408	0.529987	0.359927	0.205592	0.222609	-0.01488	-0.40669	0.175175	-0.26838	0.461364	0.002783	0.872304	0.037329
LHFPL1	0.328771	0.0432	0.037617	-0.08542	0.012524	0.751899	0.781157	0.527556	0.265397	0.013504	0.297133	0.070898	0.960964	0.535079	0.974926	0.678245
LOC340602	0.035814	-0.27085	0.23696	-0.22325	0.793284	0.045486	0.078682	0.098137	-0.04161	-0.36813	0.217216	-0.18449	0.391817	0.005915	0.924114	0.109829
LIPM	-0.02301	-0.13287	0.192007	-0.21955	0.8651	0.328952	0.15247	0.100814	0.088363	-0.33567	0.032856	-0.33641	0.720375	0.011285	0.584829	0.011129
CYP26C1	-0.04171	-0.18268	0.240127	-0.1637	0.758064	0.177798	0.071991	0.223691	0.050262	-0.30303	0.07833	-0.27299	0.62995	0.020325	0.695484	0.033207
VWA2	-0.26757	-0.02948	-0.00934	0.000412	0.044201	0.829259	0.94505	0.997571	-0.36452	0.258089	-0.26746	0.105293	0.006376	0.958341	0.037849	0.756916
NANOS1	0.009211	-0.12114	0.310432	-0.16462	0.945786	0.373793	0.018765	0.221062	0.062215	-0.49112	0.154876	-0.40907	0.659372	0.000264	0.84515	0.00238
LRIT2	0.021031	0.077269	0.165598	-0.24395	0.876598	0.571369	0.2183	0.067438	0.090395	-0.3316	0.027938	-0.29261	0.724894	0.012185	0.572278	0.024225
HMX3	0.013925	-0.15729	0.233622	-0.13729	0.918118	0.246986	0.080287	0.308486	0.13687	-0.49251	0.138875	-0.41745	0.815018	0.000294	0.815685	0.002165
AKR1CL1	-0.12297	-0.03286	0.029755	-0.16188	0.362134	0.810015	0.826089	0.228962	0.024255	-0.3919	0.091422	-0.20622	0.562831	0.00388	0.722472	0.087056
LOC34090C	0.025836	-0.09996	0.198017	-0.30515	0.850086	0.467786	0.143487	0.022203	0.102433	-0.26489	-0.05507	-0.26106	0.750923	0.037614	0.359685	0.03985
OR52B6	0.031284	-0.12354	0.208291	-0.18965	0.818957	0.368862	0.123438	0.161532	0.154594	-0.48046	0.239596	-0.31457	0.844704	0.000418	0.94138	0.017663
OTOG	-0.06371	0.076207	0.186537	-0.23183	0.637754	0.576688	0.164726	0.082698	0.184392	-0.29118	0.163397	-0.29842	0.89004	0.024807	0.858248	0.021983
APOC1	0.036322	-0.41263	0.220105	0.055061	0.788513	0.001576	0.099931	0.684154	-0.05433	-0.2292	-0.03874	-0.08048	0.361484	0.064948	0.401414	0.299611
DCDC1	-0.14752	-0.12515	0.03428	-0.22824	0.273483	0.358088	0.800156	0.08771	-0.11128	-0.34066	0.128872	-0.26859	0.23079	0.010262	0.800581	0.035546
C11orf53	-0.07115	-0.23186	0.092619	-0.36063	0.598951	0.085524	0.493192	0.005856	-0.13517	-0.37913	0.080859	-0.36021	0.185216	0.004682	0.701259	0.006966
MS4A10	0.030128	-0.15893	0.124729	-0.37589	0.823947	0.242015	0.355257	0.003957	0.219913	-0.40785	0.205106	-0.33452	0.929019	0.00245	0.911748	0.011534
OR2AT4	-0.01064	-0.01551	0.183426	-0.23542	0.937392	0.909675	0.17201	0.077915	-0.08018	-0.19633	0.111857	-0.26228	0.298154	0.095492	0.767776	0.039131
HEPHL1	0.052174	-0.07924	0.085928	-0.29349	0.699911	0.561542	0.525074	0.026707	0.010689	-0.22977	0.00475	-0.3959	0.528104	0.062254	0.512352	0.00323
OVCH2	0.050053	-0.18858	0.096153	0.172412	0.711566	0.163942	0.476771	0.199678	0.074628	-0.38954	0.048709	-0.21432	0.688962	0.003727	0.62466	0.076321
C12orf70	-0.07873	-0.02821	0.133128	-0.12107	0.560472	0.836497	0.323532	0.369662	-0.07844	-0.21384	0.018492	-0.22922	0.302178	0.076792	0.547982	0.062715
OVCH1	-0.02186	0.047703	0.002909	-0.38492	0.871789	0.726995	0.982868	0.003111	0.145922	-0.1706	-0.07438	-0.34116	0.833389	0.12849	0.31362	0.010164
SYT10	-0.05526	-0.26283	0.045431	-0.2239	0.683063	0.050345	0.737197	0.094068	0.16429	-0.39968	0.152995	-0.27693	0.862371	0.002963	0.842158	0.031218
ANKRD33	-0.09279	-0.02779	0.157052	-0.38669	0.492375	0.838884	0.243331	0.002966	-0.00011	-0.32384	0.121587	-0.36684	0.499706	0.014065	0.786878	0.006076
OR6C2	-0.10562	-0.01709	-0.00753	-0.28869	0.434246	0.900494	0.955678	0.029418	-0.12797	-0.07579	-0.08236	-0.14801	0.198348	0.308332	0.295343	0.163136
OR6C4	0.051681	-0.18618	0.11912	-0.20485	0.702616	0.169491	0.377476	0.126364	0.089375	-0.24795	-0.00338	-0.2366	0.72263	0.048308	0.491209	0.0567
H1FNT	0.054135	-0.16409	0.296494	-0.12497	0.689197	0.226861	0.025123	0.354336	0.14166	-0.41677	0.187003	-0.39697	0.826157	0.001981	0.890658	0.003152
OR8S1	-0.05776	0.018442	0.058223	-0.2063	0.669568	0.892687	0.667052	0.123642	0.079567	-0.38715	0.130906	-0.25144	0.700429	0.00393	0.804313	0.045937
IDE	-0.03072	0.35097	-0.27616	0.08159	0.820528	0.007999	0.037584	0.546274	-0.13321	0.491726	-0.13243	0.385297	0.188746	0.99974	0.192914	0.995906
FREM2	-0.16936	0.505309	-0.32435	0.053459	0.207872	7.12E-05	0.013838	0.692879	-0.33968	0.591508	-0.22159	0.353793	0.010456	0.999993	0.071745	0.992069
NEK5	-0.06928	-0.16496	0.070171	-0.23831	0.60861	0.224379	0.603983	0.074238	-0.14064	-0.29841	0.120082	-0.22714	0.175601	0.021986	0.783983	0.064502
IDH1	0.156967	0.215963	-0.15437	-0.10508	0.247959	0.113288	0.255982	0.440849	-0.01672	0.40245	-0.12355	0.252638	0.456102	0.997221	0.209377	0.95486

OR6S1	0.129536	-0.26192	0.270861	-0.23711	0.341344	0.053397	0.043473	0.078483	0.162119	-0.29507	0.14027	-0.31242	0.859131	0.023253	0.820962	0.017264
IDH2	-0.12098	-0.1625	0.055415	0.070356	0.370018	0.231456	0.682229	0.603025	-0.21124	0.049481	0.071954	0.117348	0.081815	0.626572	0.678731	0.778668
SLC35F4	0.08056	-0.09459	0.210562	-0.28391	0.55137	0.488034	0.115912	0.032338	-0.09471	-0.36571	0.125032	-0.36896	0.265629	0.006221	0.793424	0.005814
LRRC9	0.182056	-0.19182	0.219549	-0.40541	0.179302	0.160618	0.103991	0.001937	0.024805	-0.31596	0.15829	-0.25791	0.56499	0.016213	0.850487	0.041769
IDH3A	-0.08595	0.245508	-0.28534	0.13412	0.524945	0.068183	0.031438	0.319906	-0.13792	0.463649	-0.23199	0.329164	0.180346	0.999413	0.062579	0.987249
COX8C	-0.07472	-0.00514	0.099191	-0.2439	0.580691	0.970016	0.462888	0.067502	-0.12034	-0.19903	0.184054	-0.08787	0.212841	0.092408	0.886918	0.280725
IDH3B	-0.06994	0.157361	-0.16907	0.257393	0.608526	0.251225	0.212898	0.055477	-0.09574	0.608308	-0.24689	0.322835	0.26338	0.999996	0.051026	0.985675
GLDN	0.182215	0.020748	0.012826	-0.13348	0.178917	0.880485	0.925252	0.326728	0.185729	-0.35228	0.178498	-0.35232	0.891732	0.008173	0.879634	0.008168
IDH3G	-0.08831	0.004989	-0.07825	-0.00078	0.513621	0.970892	0.562879	0.995382	-0.25663	0.333163	-0.18661	0.173295	0.04257	0.988167	0.109828	0.875286
TMC3	-0.15509	-0.11163	0.130427	-0.31617	0.249351	0.412753	0.33353	0.016578	0.134526	-0.46272	0.142522	-0.44446	0.81363	0.000602	0.824833	0.000986
ZNF774	0.132969	-0.17053	0.287755	-0.13424	0.324115	0.208915	0.029969	0.319475	0.201961	-0.39085	0.325145	-0.25203	0.910847	0.003619	0.985348	0.045544
FMN1	-0.16547	-0.05889	-0.01392	-0.39137	0.218664	0.666362	0.918166	0.002609	-0.21946	-0.28412	0.002217	-0.30798	0.071408	0.027836	0.505766	0.018659
IDI1	-0.10093	0.14776	-0.21458	0.083324	0.455029	0.277136	0.108962	0.537752	-0.09963	0.119165	-0.03344	0.100698	0.255013	0.784883	0.413689	0.747252
IDS	-0.05878	0.145475	-0.09789	-0.08696	0.664033	0.284717	0.468825	0.520079	-0.09691	-0.09181	0.030846	0.050226	0.260849	0.271985	0.579707	0.62986
ZKSCAN2	0.174992	-0.15127	0.068366	-0.28235	0.197063	0.270268	0.616619	0.034997	-0.07618	-0.16628	0.175654	0.068132	0.307415	0.134695	0.875784	0.673608
PKD1L3	-0.26858	0.115789	-0.14138	-0.1557	0.04534	0.399884	0.298654	0.251861	-0.35571	-0.17845	0.068356	-0.1341	0.007631	0.117701	0.672262	0.187141
IDUA	0.002128	-0.1269	0.230099	0.014382	0.987467	0.351354	0.085086	0.915436	0.008542	-0.07418	0.109927	-0.05524	0.522466	0.312078	0.763881	0.357685
CD300E	0.038055	-0.20624	0.293791	-0.05753	0.778675	0.127265	0.026546	0.670772	0.006093	-0.32467	0.186614	-0.05992	0.515844	0.014778	0.887418	0.347904
SMTNL2	0.156379	-0.11601	0.13516	-0.19863	0.24538	0.394532	0.316133	0.13856	0.235851	-0.35061	0.315001	-0.28509	0.942711	0.008449	0.982468	0.027402
NACA2	-0.02175	0.032496	-0.09417	0.062282	0.873611	0.813803	0.489972	0.648386	0.039951	0.085064	-0.13667	0.102687	0.60396	0.712968	0.185333	0.751458
LOC342541	0.108189	0.276896	0.000756	-0.05989	0.423091	0.038833	0.995546	0.658106	0.261815	0.340386	0.060158	0.145475	0.960596	0.989684	0.652674	0.832641
KRT27	0.008683	-0.13301	0.077105	-0.12951	0.948887	0.328457	0.568623	0.336982	0.004114	-0.29577	0.090918	-0.29606	0.510824	0.022984	0.723733	0.022873
CFI	-0.00967	-0.2421	0.096833	0.523211	0.943079	0.072221	0.473643	2.97E-05	-0.00861	0.197695	0.043487	0.532527	0.477352	0.906076	0.611658	0.99993
SLFN12L	0.028892	-0.23345	0.168805	0.487796	0.831059	0.083348	0.209389	0.000119	-0.11942	-0.0572	0.012205	0.194268	0.214629	0.352873	0.531712	0.902115
SLFN14	0.032283	-0.05195	-0.0048	-0.32448	0.811576	0.703754	0.971734	0.013797	-0.06016	-0.43328	0.072049	-0.26555	0.347312	0.001474	0.678951	0.038945
FLJ43826	-0.14308	-0.30375	0.237446	-0.18664	0.288339	0.022853	0.075322	0.164488	0.104011	-0.36838	0.093693	-0.27196	0.75424	0.005884	0.729788	0.033745
STAC2	0.006352	-0.19553	0.150713	-0.2173	0.962595	0.148682	0.263117	0.104446	0.258964	-0.47821	0.205306	-0.55798	0.958879	0.000388	0.911963	2.80E-05
IFI16	-0.04995	0.208094	-0.24759	0.532651	0.712145	0.123801	0.06333	2.00E-05	0.029382	0.586686	-0.1084	0.565802	0.576848	0.999991	0.239216	0.999979
ANKRD62	0.069314	-0.05476	-0.0732	-0.29011	0.608419	0.688534	0.588416	0.028594	-0.03237	-0.2578	-0.05408	-0.19139	0.415458	0.04184	0.362118	0.101297
VSTM2B	0.113797	-0.04731	0.359493	-0.20799	0.399309	0.72916	0.006024	0.120526	0.234585	-0.41359	0.241393	-0.39941	0.941703	0.002138	0.944919	0.002981
ZNF850P	0.255143	0.173254	0.099278	0.048005	0.055435	0.20162	0.462497	0.722883	0.198923	-0.1082	0.024636	-0.0906	0.907468	0.237072	0.563811	0.274649
NCCRP1	-0.11324	0.366224	-0.05452	-0.20465	0.401616	0.005505	0.687085	0.126744	-0.02373	0.264549	-0.05529	-0.00313	0.437793	0.96219	0.359154	0.491762
SYCN	0.028057	-0.17359	0.263222	-0.16279	0.835873	0.200725	0.047896	0.226314	0.185607	-0.37072	0.251137	-0.27395	0.891579	0.005603	0.95195	0.032714
IFI27	-0.07607	-0.13064	0.110625	0.527246	0.57386	0.337195	0.412662	2.51E-05	-0.24737	0.257612	-0.07744	0.452944	0.048713	0.958045	0.306563	0.999213
ZNF404	0.405448	-0.26892	0.108222	-0.17009	0.001755	0.045055	0.42295	0.205905	0.190755	-0.31145	0.075773	-0.24397	0.897932	0.017562	0.689597	0.051138
ZNF284	0.066301	0.254693	-0.17427	0.14441	0.624124	0.058181	0.194807	0.283835	0.014018	0.377155	-0.16438	-0.02193	0.536834	0.995114	0.140292	0.442498
ZNF677	-0.0877	-0.11272	-0.02186	-0.04818	0.520391	0.41256	0.872926	0.724351	-0.14421	-0.06178	-0.25122	0.110718	0.169485	0.341682	0.047992	0.768073
ZSCAN5B	-0.1255	-0.13914	0.165433	-0.16219	0.352261	0.306433	0.218765	0.228049	-0.17871	-0.29801	-0.18231	-0.38955	0.120082	0.023389	0.118118	0.004084
ZSCAN22	-0.02376	0.122554	0.018242	-0.0978	0.860766	0.368215	0.892861	0.469224	0.174883	0.285912	0.061446	-0.1508	0.877475	0.97296	0.65578	0.158562
NANOS3	-0.00325	-0.16444	0.266028	-0.17995	0.980861	0.225875	0.045482	0.180415	0.065193	-0.35808	0.297082	-0.31576	0.666565	0.007274	0.976249	0.016271
PALM3	-0.11244	-0.1941	0.113321	-0.06566	0.404996	0.151728	0.401295	0.627499	0.001122	-0.26402	0.155409	-0.21998	0.502953	0.038117	0.84599	0.070923
AQP8	-0.02967	-0.17348	0.166507	-0.29028	0.826589	0.201021	0.215748	0.028492	0.092438	-0.32978	0.285105	-0.24204	0.7294	0.012605	0.971174	0.052552
IFI35	-0.19459	-0.10483	0.007721	0.496887	0.150679	0.44624	0.95496	9.80E-05	-0.17424	0.373596	0.014422	0.444528	0.128989	0.993755	0.536568	0.998749
RD3	-0.22246	-0.02468	-0.05913	-0.10755	0.09627	0.856733	0.662171	0.425838	-0.03873	-0.10973	0.132912	-0.12716	0.399153	0.23394	0.807954	0.199856
AADA4L4	-0.09697	-0.09136	0.12005	-0.31895	0.473007	0.503069	0.373735	0.015598	-0.0597	-0.31854	0.043518	-0.35345	0.348429	0.01648	0.610449	0.008616
HNRNPCL1	0.235868	0.080239	0.150055	-0.24257	0.082986	0.564094	0.274181	0.074364	-0.03085	-0.36052	0.349248	-0.28246	0.419375	0.006922	0.990651	0.028587
CCDC18	-0.12271	0.155861	-0.32682	-0.19202	0.363158	0.25135	0.013088	0.152433	-0.05534	0.131153	-0.13226	-0.02851	0.35746	0.807522	0.193223	0.425417
SP110	-0.1267	-0.16696	0.003591	0.507343	0.347665	0.218727	0.978848	5.63E-05	-0.04473	-0.20418	0.208683	-0.08778	0.385227	0.089257	0.912993	0.283191
OR6F1	0.013982	0.021336	0.137248	-0.17894	0.917784	0.87597	0.308643	0.182919	0.044122	-0.23986	0.148222	-0.20257	0.614534	0.054184	0.834402	0.088485
OR14K1	0.034336	-0.05338	0.255366	-0.20838	0.801642	0.698705	0.057498	0.123281	0.216914	-0.43283	0.178413	-0.33479	0.923822	0.001491	0.876714	0.012289

OR2W3	-0.08939	-0.29172	0.113675	-0.31402	0.508466	0.029145	0.399816	0.017369	0.035431	-0.52181	0.208994	-0.43535	0.591366	0.000118	0.91332	0.0014
OR2T8	-0.03436	-0.10633	0.152144	-0.12431	0.801532	0.439734	0.262973	0.361355	0.176009	-0.27472	0.20722	-0.21156	0.879012	0.032321	0.914005	0.079058
RPS2P11	0.084944	0.030163	0.227329	0.009062	0.529846	0.825345	0.089015	0.946658	0.156637	-0.0105	0.046639	-0.04645	0.850727	0.472384	0.619522	0.37959
MYBPHL	0.213104	-0.23952	0.321249	-0.10219	0.114812	0.078193	0.015772	0.453596	0.07012	-0.39079	0.198985	-0.2914	0.678339	0.003624	0.904972	0.024714
IFIT2	-0.06296	-0.38622	-0.00984	0.356597	0.644824	0.003586	0.942593	0.006983	-0.16889	-0.37898	0.175237	-0.14547	0.136549	0.005591	0.869487	0.173054
KRT18P28	-0.06624	0.078529	0.061706	-0.0952	0.624467	0.565096	0.648401	0.481161	-0.05408	0.2016	-0.04245	0.067675	0.360552	0.91045	0.390929	0.672517
LOC343384	-0.14803	-0.02912	-0.0591	-0.12559	0.27624	0.832853	0.665279	0.356374	-0.02356	-0.14112	0.002875	-0.18459	0.438961	0.177563	0.50739	0.112392
IFIT1	0.005991	-0.42508	0.03512	0.224112	0.965048	0.001216	0.797204	0.09682	-0.05552	-0.52018	0.336551	-0.14091	0.360187	0.000148	0.986332	0.180799
OR10R2	0.003703	-0.24449	-0.00146	-0.25846	0.978189	0.06937	0.991384	0.052234	-0.1592	-0.34506	0.076024	-0.18914	0.145305	0.009423	0.690177	0.104036
FCRL6	0.063479	-0.29502	0.312485	0.411194	0.642082	0.028772	0.019041	0.001643	0.065952	-0.43178	0.271052	-0.18694	0.668391	0.001367	0.964148	0.106751
KCNT2	0.4582	-0.2455	0.194015	0.17152	0.000338	0.068187	0.148145	0.20205	0.509054	-0.19633	0.335372	-0.12191	0.999822	0.098076	0.986975	0.2125
BARHL2	-0.01797	-0.08579	0.305615	-0.1678	0.894431	0.52956	0.020786	0.212162	0.091052	-0.40919	0.147057	-0.43779	0.724026	0.002627	0.829597	0.001317
NBPF7	0.207575	-0.14433	0.298292	-0.08392	0.124762	0.293113	0.025551	0.53859	0.147385	-0.2857	-0.07041	-0.16913	0.833017	0.028554	0.324844	0.133354
TCTEX1D4	-0.18945	-0.21972	0.019517	-0.22824	0.158109	0.103709	0.885424	0.087702	-0.21613	-0.30821	-0.05289	-0.253	0.074557	0.018585	0.365016	0.044905
OR2T29	-0.25226	-0.02199	0.084521	-0.07133	0.058351	0.872222	0.531903	0.597989	-0.1036	-0.30264	0.026437	-0.19504	0.24663	0.020462	0.568433	0.096986
C2orf95	-0.15768	-0.00424	0.175648	-0.27072	0.241413	0.975243	0.191241	0.041665	0.16532	-0.16972	0.072956	-0.28316	0.861102	0.132509	0.681048	0.029729
RSPO4	0.053185	-0.14132	0.387134	-0.07243	0.694378	0.29884	0.00293	0.592372	0.121925	-0.2586	0.222311	-0.1558	0.790224	0.041345	0.928918	0.150586
TGM6	0.061129	-0.21343	0.238457	-0.2922	0.651479	0.114239	0.074052	0.027412	0.193816	-0.31081	0.213111	-0.25928	0.901583	0.01776	0.920074	0.040928
IFIT3	-0.20916	-0.19815	-0.11006	0.562877	0.121838	0.146998	0.419376	6.31E-06	-0.28387	0.014377	0.020026	0.219194	0.030922	0.5369	0.550713	0.923579
XKR7	0.023358	-0.0896	0.254773	-0.16446	0.863069	0.511349	0.055803	0.221526	0.121296	-0.37135	0.289702	-0.18388	0.789013	0.005528	0.973216	0.110617
IFNA1	-0.04179	-0.12394	0.336153	-0.1643	0.759731	0.367288	0.01131	0.226269	0.10732	-0.18496	0.182413	-0.11587	0.758567	0.111921	0.882018	0.224241
MSGN1	-0.02102	-0.12851	0.125031	-0.15414	0.876665	0.345229	0.354085	0.252277	0.159743	-0.35116	0.099599	-0.25899	0.855527	0.008358	0.74246	0.041106
C2orf55	-0.24302	-0.09663	0.068201	-0.39571	0.068523	0.478652	0.614203	0.002313	-0.25677	-0.28436	0.085441	-0.27911	0.042484	0.027729	0.711594	0.030159
APOC2	-0.02773	-0.14991	0.23266	-0.20287	0.837744	0.270141	0.081575	0.130158	0.002095	-0.38645	0.155658	-0.21431	0.505514	0.003991	0.846384	0.076328
IFNA2	0.118065	0.034861	0.053163	-0.16279	0.381744	0.798668	0.694498	0.226317	0.160608	-0.14981	0.018851	-0.24026	0.856846	0.160182	0.548911	0.053877
FIGLA	0.08948	-0.16717	0.219002	-0.19667	0.508022	0.218161	0.101686	0.142577	0.080886	-0.36627	0.178685	-0.32989	0.703458	0.00615	0.879884	0.01258
LOC344065	-0.01048	0.042956	-0.07108	0.064106	0.938896	0.755501	0.602647	0.638789	-0.05457	0.126785	0.107942	0.211118	0.359343	0.799442	0.75984	0.920494
NAP5	0.167696	0.156819	-0.04212	0.192076	0.21244	0.248411	0.755735	0.15232	-0.17111	0.309024	-0.13037	0.373975	0.127771	0.981676	0.196661	0.99477
EVX2	0.135153	-0.21201	0.381275	-0.09369	0.316158	0.116737	0.003431	0.488184	0.146527	-0.32133	0.333383	-0.2644	0.834402	0.014721	0.987387	0.037896
IFNA5	0.015961	-0.09501	0.082938	-0.09712	0.906193	0.486089	0.53964	0.472318	-0.0245	-0.26394	-0.00723	-0.25932	0.43581	0.038162	0.481201	0.040901
IFNA6	0.071058	-0.12168	0.251573	-0.38012	0.599408	0.371646	0.05906	0.003538	0.06487	-0.17805	0.336705	-0.27565	0.665788	0.118243	0.988139	0.031857
CDKL4	-0.02758	-0.02339	0.107127	-0.2334	0.840117	0.865397	0.431957	0.083416	-0.24796	-0.33308	0.044285	-0.10387	0.05026	0.012684	0.612345	0.248569
IFNA7	-0.1421	0.009865	-0.09159	-0.13627	0.296173	0.942472	0.502009	0.316608	-0.04937	-0.20805	-0.0132	-0.21406	0.373706	0.085124	0.46611	0.078979
NCRNA001	-0.08369	0.216881	0.098109	-0.09096	0.53596	0.108371	0.467807	0.501007	0.040351	0.070924	0.079295	-0.0214	0.604976	0.680243	0.697691	0.443871
IFNA8	0.128435	-0.09743	0.224978	-0.25828	0.341031	0.475001	0.09246	0.052406	-0.04661	-0.39781	0.117501	-0.2954	0.379189	0.003093	0.778967	0.023125
SH3RF3	-0.03708	-0.45361	0.247537	-0.16983	0.784194	0.000446	0.063388	0.206599	-0.13306	-0.4925	0.128342	-0.24463	0.189005	0.000254	0.799602	0.050656
GPR148	-0.18118	0.01689	0.133284	-0.19899	0.181439	0.902587	0.327437	0.141484	0.10672	-0.19224	0.193206	-0.17541	0.759878	0.100289	0.898244	0.12181
IFNA10	0.121375	-0.11709	0.022598	-0.08694	0.377378	0.394581	0.869915	0.527937	0.19399	-0.31345	0.267137	-0.32079	0.901788	0.016954	0.961966	0.014867
LRR1Q4	-0.23209	-0.09852	0.015299	-0.40401	0.082348	0.470068	0.910066	0.001829	-0.15213	-0.46062	0.011533	-0.48676	0.156424	0.000638	0.529968	0.000301
SAMD7	-0.03461	-0.12578	0.161578	-0.24316	0.798247	0.355643	0.229841	0.068365	-0.01814	-0.26963	0.084068	-0.24118	0.452377	0.034987	0.708514	0.053193
IFNA13	-0.13213	0.182234	-0.04883	-0.17966	0.327192	0.178871	0.718313	0.181142	0.410518	-0.19814	-0.01874	-0.26949	0.9977	0.093422	0.451379	0.035061
AADA2L2	-0.01283	0.023513	0.067629	-0.27626	0.924543	0.863427	0.617181	0.037511	-0.07922	-0.39682	0.032278	-0.31111	0.300372	0.003163	0.583358	0.017668
GPR149	-0.0387	0.154804	0.001576	-0.23517	0.775034	0.25462	0.990715	0.078252	-0.12271	-0.25292	-0.09287	-0.23666	0.210976	0.046842	0.274394	0.058766
ZNF860	-0.20263	0.124596	-0.01527	-0.07177	0.130617	0.360227	0.910235	0.59575	0.101241	-0.14901	0.017305	-0.09566	0.748405	0.161488	0.544916	0.263564
IFNA14	-0.12267	-0.01374	0.017413	-0.04674	0.36333	0.919915	0.897704	0.729883	0.144153	-0.17835	0.028724	-0.16724	0.830411	0.11783	0.574289	0.133299
TMPRSS7	-0.05437	-0.22732	0.076757	-0.44378	0.687902	0.092013	0.570371	0.000545	-0.07632	-0.40464	0.263274	-0.2645	0.307099	0.002642	0.959714	0.037836
CD200R1L	0.221732	-0.26331	0.052455	-0.40531	0.097386	0.049906	0.698374	0.001762	-0.06391	-0.31219	0.103205	-0.25417	0.336515	0.017333	0.750049	0.044142
PAQR9	-0.04263	-0.13583	0.07282	-0.16685	0.752851	0.318202	0.590359	0.214791	0.007501	-0.26913	0.174703	-0.27433	0.519729	0.035253	0.874478	0.032523
LOC344887	0.046931	0.299297	-0.16999	-0.23926	0.728845	0.025036	0.206173	0.073057	-0.20759	0.54137	-0.19099	0.280343	0.083132	0.999949	0.104417	0.970426
RTP2	-0.08114	-0.17666	0.175363	-0.16653	0.548515	0.192769	0.191973	0.215697	0.041711	-0.37986	0.205884	-0.50386	0.608431	0.004609	0.912583	0.000179

IFNA16	0.103521	-0.05938	0.114596	-0.10656	0.443491	0.663753	0.395985	0.430158	0.147902	-0.31581	0.15857	-0.22656	0.833872	0.017287	0.848043	0.067249
OSTN	0.066743	-0.21061	0.092209	-0.17402	0.625029	0.122731	0.4991	0.199594	0.031893	-0.6007	0.15335	-0.39278	0.583326	5.08E-06	0.842725	0.003466
ATP13A5	0.028145	0.46259	-0.1947	-0.21418	0.835369	0.000331	0.146699	0.109644	0.018209	0.288226	-0.06696	0.10323	0.547803	0.973961	0.331043	0.752602
SAR1P3	0.130966	-0.02319	0.164051	-0.1715	0.33152	0.865266	0.222692	0.202095	0.158648	-0.23544	0.287372	-0.26056	0.853847	0.057612	0.972196	0.040153
APOC3	-0.13575	0.025508	0.048673	-0.1574	0.318484	0.851968	0.721669	0.246649	0.069321	-0.38036	0.087691	-0.34299	0.676441	0.004559	0.71661	0.00981
ESSPL	0.034435	-0.08049	0.205018	-0.28069	0.799268	0.555387	0.126052	0.034438	0.026153	-0.50204	0.232321	-0.40346	0.568488	0.000189	0.937694	0.002715
ANKRD56	-0.14121	0.148736	-0.09774	-0.31187	0.299238	0.27847	0.47361	0.019289	-0.11763	0.305909	-0.30029	0.081157	0.218129	0.980658	0.022522	0.704081
IFNA17	-0.12503	-0.20035	-0.12554	-0.08882	0.35409	0.138742	0.352107	0.511172	-0.05249	-0.24291	0.189503	-0.22507	0.364498	0.051909	0.893762	0.066309
LRIT3	-0.16288	-0.08296	0.027372	-0.18221	0.226069	0.543295	0.839827	0.174921	-0.06237	-0.22317	-0.00117	-0.20383	0.340259	0.068002	0.49695	0.08712
IFNA21	0.155353	-0.10321	0.188532	-0.05943	0.248531	0.449072	0.160176	0.660571	0.067701	-0.35624	0.103217	-0.34777	0.67258	0.00755	0.750074	0.008937
C4orf44	-0.10235	-0.04173	0.210509	-0.07136	0.448695	0.76007	0.116004	0.597825	0.06167	-0.1697	-0.08704	-0.17843	0.658048	0.129768	0.284843	0.117735
SLC10A6	0.011397	0.25129	-0.16531	-0.29362	0.932944	0.061738	0.219124	0.026636	0.006761	0.1908	-0.04221	-0.01951	0.517785	0.897986	0.39154	0.448791
HSD17B13	0.132177	-0.09613	0.087222	-0.40011	0.327029	0.48093	0.518828	0.002044	-0.19881	-0.19922	0.167353	-0.356	0.09523	0.094764	0.86122	0.008194
IFNAR1	-0.09273	0.346579	-0.24129	0.218533	0.492658	0.008878	0.070584	0.102439	-0.06054	0.412323	-0.0591	0.344763	0.3447	0.997796	0.349887	0.990522
PFN3	-0.09937	-0.22607	0.120896	-0.25483	0.462072	0.093869	0.370352	0.055745	-0.01866	-0.42773	0.151384	-0.38224	0.451022	0.001513	0.839565	0.004377
DKFZp686E	0.014914	0.14588	-0.15151	-0.01741	0.912321	0.283364	0.260568	0.897715	0.05314	-0.09396	0.10129	-0.06882	0.635587	0.26963	0.743518	0.326641
IFNAR2	-0.08777	0.173135	-0.07908	0.263724	0.51621	0.201932	0.558749	0.047456	-0.12402	0.261717	0.001497	0.348467	0.205782	0.960538	0.503893	0.991185
PLCXD3	0.079159	-0.02308	0.121498	-0.04912	0.558335	0.865918	0.367955	0.716738	0.007032	-0.33783	0.089983	-0.38357	0.518496	0.010833	0.721677	0.004252
IFNB1	0.211242	-0.04814	0.307842	-0.18654	0.118093	0.727063	0.020994	0.16864	0.114585	-0.10024	0.045279	-0.23024	0.773223	0.25619	0.6148	0.064057
FBLL1	-0.07339	0.095677	0.10624	-0.27626	0.587426	0.483028	0.431543	0.037506	0.169211	-0.20161	0.006885	-0.2254	0.869533	0.089539	0.517902	0.066014
ACTBL2	0.065968	-0.27993	0.239955	0.212098	0.625874	0.036661	0.0722	0.113214	0.001006	-0.32705	0.141673	-0.03206	0.502646	0.013259	0.823379	0.416244
FAM174A	-0.10698	0.035687	-0.08405	-0.09137	0.428329	0.794001	0.53422	0.499087	-0.25276	0.062516	-0.0554	0.024715	0.045059	0.660102	0.358889	0.564755
MTX3	0.140052	0.184361	-0.04055	0.151582	0.298771	0.173765	0.764549	0.260343	-0.14221	0.329269	-0.26119	0.282222	0.172905	0.987274	0.041543	0.971301
IFNG	-0.18185	-0.18276	0.097507	0.259265	0.179803	0.181697	0.474656	0.053664	-0.03886	-0.21143	0.124272	-0.0558	0.398811	0.079191	0.79199	0.356319
RSPH4A	-0.07063	-0.12783	0.043476	-0.17955	0.601631	0.347786	0.748123	0.181403	-0.15021	-0.21757	0.100374	-0.13973	0.159532	0.073187	0.744102	0.177173
IFNGR1	0.080083	0.263393	-0.17281	0.41363	0.557397	0.049835	0.202802	0.001531	-0.04811	0.520936	-0.25949	0.397493	0.375431	0.999897	0.042592	0.996885
APOC4	-0.01235	-0.17728	0.23433	-0.1081	0.927326	0.191178	0.079349	0.423493	0.260723	-0.59848	0.19888	-0.38605	0.958169	7.05E-06	0.902205	0.004407
IFNGR2	0.08562	0.080152	-0.12345	0.386921	0.526562	0.557057	0.360235	0.002947	0.206268	0.221387	-0.07374	0.069652	0.915483	0.930378	0.315115	0.677229
EYS	0.137301	0.015027	0.057087	-0.25277	0.308456	0.912469	0.673174	0.057823	-0.07327	-0.26122	-0.03804	-0.2108	0.316214	0.041524	0.403166	0.08227
ZNF391	-0.12751	-0.22328	-0.03785	-0.37886	0.344552	0.098104	0.779826	0.003659	-0.21852	-0.39321	0.090276	-0.1986	0.07228	0.003432	0.722322	0.092899
ZFP57	-0.06874	-0.02421	0.006903	-0.09269	0.614703	0.860749	0.959731	0.496842	0.117373	-0.44217	0.125841	-0.29122	0.781375	0.001047	0.794943	0.024789
Sep-14	0.085715	-0.10152	0.309776	-0.12446	0.529924	0.460819	0.020161	0.360763	0.189908	-0.28273	0.227099	-0.11691	0.896905	0.028463	0.933224	0.219535
LOC346325	0.018653	-0.12732	0.280572	-0.27022	0.89046	0.349736	0.034514	0.042059	-0.00419	-0.05763	0.152883	-0.03753	0.488986	0.35181	0.841978	0.402216
MACC1	-0.23546	0.429801	-0.28876	-0.10152	0.077871	0.000947	0.029372	0.452387	-0.1919	0.48096	-0.22171	0.268448	0.100686	0.999642	0.071634	0.964374
OR6V1	-0.05872	-0.0744	0.11705	-0.16387	0.667278	0.589283	0.39027	0.227499	0.165178	-0.20945	0.18192	-0.24526	0.863684	0.081203	0.884157	0.05021
OR2A12	0.01218	-0.16907	0.170181	-0.23058	0.928351	0.212881	0.205646	0.084417	0.133098	-0.43597	0.104191	-0.30078	0.811058	0.001228	0.752103	0.02112
FLJ42291	-0.02965	-0.055	0.15873	-0.30178	0.826676	0.687247	0.238267	0.022525	-0.04162	-0.26426	0.086219	-0.20528	0.391791	0.037975	0.713334	0.085567
MOGAT3	-0.03861	-0.12511	0.163477	-0.17852	0.775512	0.358222	0.224337	0.183978	0.000182	-0.33857	0.120102	-0.22076	0.50048	0.010681	0.784022	0.0702
FAM71F2	0.106538	0.030146	0.225159	-0.0457	0.430246	0.825437	0.092191	0.735717	0.354964	-0.16131	0.266218	-0.17966	0.992253	0.142085	0.96144	0.116096
STRA8	0.119967	-0.06138	0.168582	-0.278	0.378488	0.656214	0.214233	0.038033	0.089358	-0.34392	0.217446	-0.22927	0.722593	0.009635	0.924336	0.062677
KLRG2	-0.02351	-0.00461	0.109908	-0.20423	0.862205	0.973112	0.415716	0.12755	0.245171	-0.15827	0.266963	-0.25292	0.94973	0.146743	0.961867	0.044953
IFNW1	-0.03917	-0.247	0.055151	-0.14401	0.774393	0.06906	0.686426	0.289657	0.011676	-0.30949	0.330781	-0.24838	0.530693	0.018176	0.98677	0.048015
APOD	0.394557	-0.41306	0.243518	0.214622	0.00262	0.001723	0.07052	0.112189	0.5515	-0.43642	0.441709	-0.21661	0.999964	0.001214	0.998808	0.074102
SLC10A5	-0.15295	0.334947	-0.32675	0.025311	0.256018	0.011625	0.01311	0.851745	-0.11211	0.318692	-0.12902	0.203218	0.231716	0.983565	0.201941	0.909696
GPR144	-0.07905	-0.07802	0.23739	-0.18194	0.558855	0.567636	0.075393	0.175571	0.077956	-0.38286	0.12891	-0.36323	0.696709	0.004318	0.800651	0.006548
FLJ43950	-0.04475	-0.13475	0.278826	-0.23988	0.741018	0.322105	0.035702	0.072295	-0.03496	-0.45604	-0.01264	-0.27307	0.40879	0.000723	0.467163	0.03317
QRFP	0.150304	-0.18884	0.338626	-0.20586	0.264429	0.163359	0.009979	0.124471	0.197875	-0.40276	0.166169	-0.30135	0.906281	0.002759	0.862349	0.020916
OR1J1	-0.20223	0.04106	-0.02806	-0.13609	0.131405	0.763828	0.835883	0.3128	-0.01968	-0.19007	0.036389	-0.15497	0.448352	0.102902	0.593794	0.151886
OR1B1	0.095476	-0.1127	0.258225	-0.05458	0.483951	0.412667	0.054665	0.689528	0.226001	-0.32909	0.210263	-0.22133	0.932253	0.013645	0.914648	0.071985
KIF24	-0.2112	-0.10908	-0.11522	-0.42031	0.114778	0.423568	0.393419	0.001133	-0.46099	-0.15965	-0.17507	-0.18465	0.000632	0.144614	0.125018	0.109634

IGFBPL1	0.011187	-0.19854	0.32352	-0.1094	0.934177	0.14241	0.014096	0.417886	0.012664	-0.42727	0.315035	-0.3261	0.533285	0.00153	0.982478	0.013494
MURC	0.147382	-0.12431	0.200447	-0.0936	0.273934	0.361322	0.134907	0.488615	0.281909	-0.38122	0.098041	-0.26902	0.969682	0.004887	0.736679	0.036974
RPL36P14	0.053784	-0.05746	0.193132	-0.10101	0.691105	0.674039	0.150037	0.454665	0.138524	-0.0909	-0.08267	-0.09661	0.820715	0.273998	0.294636	0.261516
ZNF81	0.034151	0.176896	-0.01861	0.016146	0.80089	0.192157	0.890697	0.905112	0.237932	0.209512	-0.02396	0.139404	0.94434	0.918859	0.437936	0.822253
ITIH5L	0.097587	-0.13912	0.228836	-0.26356	0.474291	0.311053	0.089807	0.04968	0.331895	-0.24939	0.302366	-0.28553	0.987037	0.049259	0.976973	0.028631
hCG_1749C	-0.20624	-0.0502	-0.0679	-0.24858	0.123764	0.713308	0.615746	0.062242	-0.08906	0.159635	0.003625	-0.14978	0.278078	0.855363	0.509427	0.160223
LANCL3	-0.11194	0.312536	-0.19436	-0.18556	0.407108	0.01902	0.147405	0.166991	0.019454	0.255259	0.038243	-0.06704	0.550467	0.954706	0.597338	0.330846
LOC347411	-0.10172	-0.11291	0.213479	-0.16451	0.451486	0.407376	0.110831	0.221394	0.019981	-0.39327	0.10145	-0.22162	0.552428	0.003428	0.74637	0.069406
ANKRD58	0.01416	-0.16095	0.219892	-0.19161	0.916742	0.23602	0.100269	0.153337	0.163413	-0.41636	0.218645	-0.26674	0.861069	0.002	0.925485	0.036568
OR13H1	0.17511	0.014675	-0.01123	-0.26145	0.192624	0.914515	0.933925	0.049474	0.261634	-0.16297	0.111873	-0.18231	0.960489	0.139596	0.767809	0.112631
RP11-35F1	-0.07037	-0.20589	0.124356	-0.26925	0.602939	0.127917	0.356709	0.042831	0.035295	-0.23203	-0.0598	-0.31687	0.591021	0.062545	0.349899	0.016968
IFRD1	0.190483	-0.02172	0.000324	-0.0676	0.155817	0.873738	0.998091	0.617315	0.34157	-0.03772	0.106655	-0.05526	0.989917	0.40173	0.7572	0.357654
DGAT2L6	-0.06863	-0.0607	-0.01443	-0.19405	0.611957	0.656765	0.915171	0.148063	0.006774	-0.3552	0.018831	-0.27288	0.51782	0.00771	0.54886	0.033265
RAB41	0.060547	-0.10674	0.285256	-0.2914	0.657564	0.437955	0.033089	0.029332	0.111456	-0.26954	0.122017	-0.22117	0.769569	0.035033	0.787701	0.069824
ARSH	-0.09937	-0.05534	0.101756	-0.22319	0.462078	0.6854	0.451344	0.095142	-0.04095	-0.28268	0.122396	-0.18728	0.393496	0.028486	0.788426	0.106324
MAGEB5	-0.01099	-0.00284	0.087956	-0.20553	0.935329	0.983433	0.515302	0.125091	0.047391	-0.07309	0.042512	-0.18829	0.622765	0.314638	0.609218	0.105072
LOC347545	0.064188	-0.19393	0.337732	-0.1276	0.63524	0.1521	0.01019	0.344188	0.210607	-0.56297	0.206643	-0.45484	0.917533	2.84E-05	0.910822	0.000848
IGBP1	0.036814	0.191746	-0.21917	0.018447	0.787646	0.156861	0.104608	0.892657	-0.2573	0.338084	-0.17006	0.240708	0.042151	0.98922	0.132026	0.946457
SNORD64	0.180607	-0.06347	0.013015	0.068319	0.17881	0.642122	0.923453	0.613586	0.386909	-0.19046	0.179174	-0.08166	0.996049	0.102425	0.880536	0.294779
RP11-631M	-0.03009	0.044437	-0.04796	-0.1711	0.825781	0.747342	0.725565	0.207354	-0.02764	-0.07692	-0.04099	-0.17253	0.427653	0.305693	0.394592	0.125778
LRRTM1	0.00567	-0.05616	0.017532	0.035917	0.96661	0.680992	0.897007	0.790822	-0.02583	-0.10628	0.298237	-0.14992	0.432352	0.241031	0.976698	0.159994
LRRTM3	-0.03055	-0.19466	0.178476	-0.18915	0.821514	0.15054	0.184079	0.158777	0.069931	-0.43065	0.036795	-0.37616	0.67789	0.001406	0.594821	0.004992
CATSPER3	-0.0542	0.181144	-0.13915	-0.2313	0.691538	0.185661	0.306416	0.086316	-0.01767	0.041212	0.012362	-0.07302	0.454133	0.605955	0.531739	0.316796
TUBB2B	0.257882	-0.2655	0.221939	-0.16463	0.052779	0.047963	0.097067	0.221028	0.317844	-0.23438	0.125813	-0.18591	0.983318	0.06061	0.79211	0.110715
SLC35B2	0.028189	-0.0803	0.053201	0.005946	0.836613	0.560028	0.696969	0.96531	0.031373	0.256264	-0.1344	0.087002	0.580106	0.953433	0.195101	0.712792
SERINC2	-0.1414	0.302523	-0.02182	0.004263	0.294088	0.023439	0.871996	0.974894	-0.09647	0.531701	-0.30464	0.197265	0.261815	0.999928	0.020938	0.905586
TXNDC6	-0.15042	-0.15947	0.025816	-0.25787	0.264057	0.240404	0.848824	0.052787	-0.21186	-0.34314	-0.0035	-0.23458	0.07876	0.009781	0.4909	0.058299
OTOP3	-0.03116	0.131423	0.171874	-0.19248	0.818041	0.334299	0.201106	0.151434	0.019726	-0.10634	0.141542	-0.14339	0.551763	0.240914	0.823154	0.170889
C6orf52	-0.21494	-0.01438	0.012546	-0.27514	0.108351	0.916228	0.9262	0.03832	-0.37563	-0.27429	-0.04994	-0.09455	0.005048	0.03254	0.372299	0.265967
TBX10	0.057755	-0.18257	0.282999	-0.13143	0.669573	0.178046	0.032918	0.329801	0.104546	-0.32292	0.109234	-0.28082	0.755358	0.014304	0.762475	0.029349
PDDC1	-0.06568	-0.00812	0.003329	0.025997	0.627369	0.95262	0.980393	0.847776	-0.02611	0.07955	-0.11323	0.069405	0.432405	0.698276	0.232133	0.674736
IGF1	-0.04362	-0.01565	0.007547	0.423594	0.749566	0.909717	0.955975	0.001142	0.149049	0.078927	0.322617	0.242117	0.835762	0.696852	0.983655	0.945468
AMIGO2	0.281546	-0.0288	0.13043	0.277347	0.033866	0.833104	0.333519	0.036734	0.174591	-0.21325	0.155868	-0.1332	0.877074	0.07737	0.846713	0.188748
EP400NL	0.025227	-0.19399	0.210543	-0.06146	0.852232	0.151973	0.115945	0.649733	-0.01996	-0.25839	0.091579	-0.26031	0.447626	0.041474	0.725181	0.0403
APOE	0.083217	-0.32564	0.31746	0.051596	0.538275	0.014322	0.016116	0.703079	0.146029	-0.39488	0.145193	-0.26102	0.833568	0.003306	0.829359	0.039878
IGF1R	-0.07957	0.094522	-0.1058	-0.08976	0.556278	0.48835	0.433477	0.506668	-0.1234	0.218313	-0.13143	0.069506	0.206945	0.927521	0.194735	0.676881
FAM70B	0.123582	-0.13971	0.299193	0.143641	0.359735	0.304436	0.023767	0.286433	0.248411	-0.12348	0.142939	0.032338	0.952008	0.206792	0.825545	0.584471
RBPM52	0.222279	-0.26427	0.40173	-0.02848	0.096542	0.049049	0.001952	0.833442	0.32763	-0.64286	0.387044	-0.48814	0.986881	7.27E-07	0.995687	0.000289
ANKDD1A	0.115394	-0.02316	0.119604	0.339494	0.392681	0.865487	0.375524	0.009778	0.293468	-0.04229	0.318937	0.002736	0.976117	0.390094	0.983636	0.507198
IGF2	0.204716	-0.16303	0.329185	-0.0617	0.126622	0.229937	0.012407	0.648446	0.379456	-0.2752	0.239464	-0.19423	0.99535	0.03208	0.943439	0.097934
C15orf38	0.05801	-0.17871	0.097405	-0.13186	0.668196	0.187558	0.471021	0.328215	-0.10867	-0.0229	0.055471	0.095822	0.236111	0.439966	0.641294	0.736787
ACSM2B	-0.11174	0.150974	-0.15062	-0.29215	0.407958	0.266703	0.263409	0.02744	0.339742	-0.20756	0.138141	-0.16322	0.989556	0.083161	0.817255	0.139221
C16orf84	-0.13395	-0.10084	0.113977	-0.13494	0.320518	0.459601	0.398558	0.316919	0.001542	-0.16116	-0.09285	-0.1152	0.504058	0.14231	0.272034	0.222921
IGF2R	-0.05958	0.038379	-0.30494	0.386576	0.662691	0.780865	0.022299	0.003251	-0.0279	0.298553	-0.01966	0.108574	0.427813	0.976819	0.449604	0.76113
FAM33A	0.02182	0.306801	-0.27659	0.030874	0.87201	0.021455	0.037271	0.819657	0.097654	0.458405	-0.00395	0.327835	0.740744	0.999322	0.489726	0.986931
IGFALS	0.088083	-0.15573	0.329994	-0.20532	0.514692	0.251747	0.012181	0.125478	0.208209	-0.51107	0.340039	-0.38932	0.917516	0.000142	0.988856	0.003745
SELV	0.041895	-0.15046	0.307258	-0.11715	0.756998	0.268363	0.020077	0.385472	0.072868	-0.30396	0.167732	-0.27945	0.684833	0.020001	0.864626	0.029998
ZNF530	-0.21594	-0.091	0.035508	-0.02309	0.109942	0.508794	0.795014	0.865865	-0.09189	-0.05792	0.038676	-0.08905	0.271794	0.3511	0.599572	0.278087
FAM159A	-0.20239	-0.10336	0.152955	0.064677	0.134667	0.448429	0.260406	0.635801	-0.06047	-0.2674	0.082414	-0.31001	0.344866	0.036203	0.704783	0.01801
IGFBP1	0.027126	-0.17602	0.243053	-0.22847	0.841249	0.194396	0.068489	0.087375	0.146932	-0.46932	0.195554	-0.37673	0.835075	0.0005	0.901018	0.004931

FAM131C	-0.01312	0.045442	0.153217	-0.10465	0.922814	0.739469	0.255174	0.438518	0.077289	0.085711	0.165201	-0.11353	0.695162	0.714427	0.860926	0.226257
IGFBP2	-0.18168	-0.10435	-0.10045	-0.28388	0.176197	0.444039	0.4572	0.032353	-0.4153	0.007084	-0.09733	-0.02666	0.002052	0.518634	0.262375	0.430208
IGFBP3	-0.00842	0.116051	-0.07815	0.309146	0.950448	0.394358	0.563377	0.019287	-0.10824	0.43245	0.07878	0.287665	0.236978	0.998656	0.696514	0.973721
C22orf34	0.047611	-0.21858	0.238131	0.021894	0.725072	0.105558	0.07446	0.871577	0.023428	-0.2561	0.070515	-0.09445	0.56141	0.042903	0.677347	0.266206
GEN1	-0.10919	0.422514	-0.3357	0.133939	0.418809	0.001179	0.010684	0.320566	-0.15354	0.680445	-0.27924	0.467891	0.154161	1	0.03161	0.999479
IGFBP4	0.212004	0.046511	0.176813	0.328278	0.120214	0.738405	0.196577	0.01441	0.215081	0.227323	0.068765	0.371193	0.924423	0.935659	0.673226	0.994453
C2orf48	-0.01856	-0.04527	0.168667	-0.23914	0.891017	0.740428	0.209768	0.073209	0.092712	-0.35755	0.16613	-0.28565	0.730002	0.007353	0.862292	0.027154
WDR53	0.023889	0.311486	-0.09789	0.017343	0.859991	0.019448	0.468812	0.898114	-0.16228	0.45576	-0.08247	0.22886	0.143432	0.999173	0.297286	0.934757
IGFBP5	0.21941	-0.18511	0.152374	-0.12181	0.101034	0.171997	0.257831	0.366719	0.117804	-0.49691	0.247074	-0.33688	0.782221	0.000222	0.949108	0.011031
CCDC37	-0.192	-0.21478	0.082147	-0.30305	0.152479	0.111918	0.543531	0.021936	-0.21856	-0.34336	-0.00232	-0.30475	0.072246	0.009741	0.493962	0.019734
TPRXL	-0.13051	0.249913	-0.18453	-0.29445	0.333203	0.063226	0.169401	0.026194	-0.33073	0.435429	-0.08603	0.140849	0.012384	0.998755	0.287087	0.82476
LOC34884C	0.150359	-0.08363	0.169126	-0.2147	0.264252	0.540029	0.208513	0.10875	-0.0103	-0.25923	0.162948	-0.25127	0.472922	0.040959	0.857577	0.046048
IGFBP6	0.179427	-0.09828	-0.00646	0.066527	0.185772	0.475323	0.962285	0.62615	0.187745	0.264879	0.100105	0.12867	0.891587	0.960662	0.741033	0.800209
LOC34892E	-0.10514	-0.23333	0.262789	-0.10862	0.436372	0.083507	0.048277	0.421241	0.041887	-0.44703	0.101719	-0.24733	0.608878	0.000921	0.746936	0.048743
SLC6A18	-0.07583	-0.11416	0.243534	-0.25133	0.575055	0.402176	0.067926	0.059319	0.032993	-0.34933	0.165775	-0.30636	0.586158	0.008666	0.861771	0.01919
ICHTHYIN	-0.05709	-0.12297	0.153197	-0.1007	0.673178	0.366567	0.255239	0.456075	0.168804	-0.23217	0.049668	-0.21875	0.868951	0.060257	0.627034	0.072064
HCN1	0.202745	-0.14312	0.160807	-0.26433	0.130398	0.292657	0.232102	0.04693	0.195723	-0.42954	0.186234	-0.31722	0.901216	0.001617	0.886937	0.016867
NUP43	0.058665	0.311845	-0.24432	0.32807	0.66467	0.019301	0.067014	0.012725	0.034629	0.591652	-0.09308	0.470809	0.59036	0.999993	0.271545	0.99952
IGFBP7	0.063397	-0.3974	0.126036	0.230673	0.639426	0.002423	0.3502	0.08429	-0.09297	-0.18628	0.191172	0.134754	0.269441	0.107579	0.895799	0.814039
ZNF713	-0.04229	-0.17808	0.050398	-0.39767	0.754748	0.189161	0.709666	0.00219	-0.30852	-0.2128	-0.0451	-0.19632	0.018486	0.077826	0.38431	0.095496
CYR61	0.293374	-0.23194	0.105513	0.035761	0.026771	0.085424	0.434718	0.791707	0.336783	0.023732	0.030311	-0.03563	0.988949	0.562202	0.578342	0.407082
WDR86	0.004415	-0.24628	0.283054	-0.16771	0.973997	0.06729	0.032883	0.212415	0.222821	-0.48451	0.17101	-0.36213	0.931682	0.000322	0.869321	0.006698
GJC3	0.153564	-0.37797	0.243185	-0.07594	0.254087	0.004078	0.068334	0.574505	0.346238	-0.37216	0.243581	-0.36207	0.990093	0.005911	0.944456	0.007262
DPY19L2P2	-0.11129	-0.09562	-0.01159	-0.16741	0.409856	0.48331	0.931834	0.213222	-0.11071	-0.30606	0.072873	-0.19239	0.231949	0.019292	0.682863	0.100105
LOC100133	-0.08584	-0.1086	0.218334	-0.08797	0.529318	0.429954	0.105969	0.519102	0.144052	-0.49352	0.319311	-0.40042	0.83024	0.000246	0.983744	0.002913
IGHA1	0.143042	-0.10738	0.153524	0.562018	0.292934	0.435183	0.258616	6.57E-06	-0.10452	0.290936	0.077044	0.362107	0.244699	0.975094	0.692529	0.993299
IGHA2	0.069371	-0.10631	0.028567	0.529384	0.608125	0.435506	0.832933	2.29E-05	-0.03928	0.304052	0.010551	0.401682	0.397739	0.980029	0.527421	0.997171
IGHD	-0.03362	-0.0054	0.030256	0.434095	0.803919	0.968472	0.823213	0.000742	-0.07479	0.031379	-0.00761	0.065746	0.312673	0.581067	0.480449	0.666072
NMNAT3	0.054069	-0.07547	0.013623	-0.12745	0.689552	0.580391	0.919887	0.344775	0.29834	-0.10198	0.065186	-0.13462	0.977989	0.250022	0.664738	0.186205
C11orf34	-0.11049	0.011293	-0.18181	-0.2166	0.413221	0.934167	0.175875	0.105582	0.071416	-0.14958	0.043036	-0.2561	0.681408	0.160557	0.610529	0.042905
RTN4RL2	-0.01532	-0.08892	0.226275	-0.19331	0.909924	0.514612	0.090547	0.149648	0.118566	-0.52202	0.14783	-0.5162	0.781045	0.000118	0.830877	0.000142
IGHE	-0.07197	-0.26606	0.118834	-0.04495	0.594715	0.047482	0.378627	0.739905	-0.06062	-0.34707	0.159565	-0.27126	0.344493	0.00906	0.852451	0.034115
ACADS	-0.14958	-0.00719	0.028352	-0.24089	0.266771	0.958064	0.834175	0.071058	-0.01322	-0.20742	-0.02316	-0.30433	0.465249	0.083309	0.439971	0.019876
APOH	0.042063	0.031557	0.115103	-0.23654	0.756051	0.817407	0.393883	0.076478	0.110223	-0.29445	0.175378	-0.28295	0.767067	0.023496	0.875405	0.028364
IGHG1	0.177321	-0.02375	0.128001	0.679342	0.191075	0.863355	0.347146	8.61E-09	-0.39308	0.386002	-0.11421	0.550714	0.003442	0.995969	0.227531	0.999963
IGHG3	0.082825	-0.20998	0.026394	0.678255	0.540195	0.120363	0.845481	6.76E-09	-0.40475	0.32475	-0.04534	0.532461	0.002635	0.986168	0.383715	0.99993
GPR142	-0.04748	-0.21528	0.234435	-0.13992	0.725787	0.111069	0.07921	0.299239	0.040619	-0.39443	0.214257	-0.28043	0.605659	0.003339	0.921217	0.029534
IGHM	0.129083	-0.06384	0.176533	0.506737	0.343052	0.643321	0.193086	6.74E-05	-0.07365	0.177482	0.094545	0.401419	0.313335	0.881001	0.731635	0.997154
IGHMBP2	-0.03738	0.082433	0.106086	-0.06697	0.782522	0.545851	0.432215	0.620628	0.14512	0.128241	-0.04336	0.058575	0.832043	0.802158	0.388656	0.650501
APP	0.236284	0.145295	-0.07781	0.294338	0.076804	0.285319	0.565086	0.026253	0.047609	0.408713	-0.10238	0.315918	0.623311	0.997599	0.251687	0.983774
IGJ	0.122589	-0.1608	0.052984	0.543257	0.368076	0.24089	0.698143	1.52E-05	-0.30455	0.372952	-0.16019	0.510228	0.019802	0.994656	0.146594	0.999854
IGKC	0.146773	-0.11635	0.121496	0.638277	0.280395	0.397592	0.372396	1.21E-07	-0.26513	0.351358	-0.10346	0.46439	0.037476	0.991675	0.249424	0.999425
RBPJ	0.050843	0.116563	-0.09357	0.231785	0.707218	0.392262	0.488731	0.082762	0.143219	0.180572	0.011781	0.240898	0.828826	0.885104	0.530612	0.946599
C19orf51	-0.19598	-0.20521	0.057489	-0.29685	0.144006	0.129213	0.671006	0.024938	-0.20346	-0.333	0.080471	-0.26338	0.087519	0.011869	0.700375	0.038488
STAG3OS	-0.08165	0.092119	-0.06214	-0.38601	0.545969	0.499518	0.646115	0.003021	-0.21935	-0.10036	0.099612	-0.14964	0.071503	0.253459	0.742488	0.160451
C6orf58	0.199591	-0.3711	0.232569	0.019346	0.136614	0.004867	0.081698	0.886418	0.214536	-0.39063	0.391041	-0.26336	0.923891	0.003637	0.996047	0.038497
APRT	-0.11811	-0.04452	-0.00166	0.056246	0.381578	0.744567	0.990215	0.677725	-0.10019	0.164965	-0.18243	0.110945	0.253822	0.863369	0.115173	0.768534
ZNF429	0.012256	0.097115	0.095158	-0.07294	0.927901	0.476442	0.481362	0.589757	0.002505	0.039425	-0.10598	-0.01617	0.50659	0.602621	0.244187	0.457543
RAET1G	0.039168	0.063815	0.061625	-0.16631	0.772374	0.640318	0.648831	0.216302	-0.01048	-0.0412	0.042007	-0.1272	0.472445	0.392854	0.607951	0.199783
RILPL1	0.167146	-0.0111	0.097041	-0.0497	0.213966	0.935281	0.47269	0.713488	0.0599	-0.09432	0.129846	0.007294	0.65205	0.268843	0.799565	0.518964

LCE1A	-0.02985	-0.08717	0.253448	-0.11761	0.825572	0.522919	0.057134	0.383606	0.202401	-0.45011	0.095332	-0.37297	0.911328	0.000849	0.733334	0.005342
LCE1B	-0.02146	0.04008	0.064328	-0.22428	0.87412	0.769305	0.634502	0.093503	0.092103	-0.18695	0.032603	-0.16337	0.728664	0.106739	0.584183	0.139
LCE1C	0.002951	-0.21	0.142062	0.0044	0.98262	0.120314	0.291819	0.974087	-0.03453	-0.16877	0.099318	-0.08292	0.410922	0.133877	0.739376	0.294067
LCE1D	-0.01111	-0.22219	0.287768	-0.12185	0.934622	0.099786	0.029961	0.366579	0.209127	-0.47675	0.246846	-0.28405	0.918463	0.000405	0.948944	0.027868
LCE1E	0.01503	-0.00065	0.100322	-0.41914	0.911646	0.996198	0.457776	0.001174	0.202755	-0.34461	0.195408	-0.4117	0.911714	0.009506	0.900847	0.002237
LCE1F	0.018729	-0.13869	0.296599	-0.0887	0.89002	0.308022	0.025069	0.511717	0.100057	-0.39422	0.198707	-0.32585	0.745888	0.003355	0.904657	0.013556
LCE2A	-0.01261	-0.0382	0.185246	-0.18822	0.925842	0.77987	0.16772	0.160884	0.074428	-0.291	0.183156	-0.24914	0.688495	0.02488	0.885762	0.047493
LCE2C	0.252939	0.093092	0.157812	-0.1644	0.057652	0.494979	0.241028	0.221688	0.202791	-0.17802	0.280441	-0.14037	0.911754	0.118271	0.968976	0.176061
LCE2D	-0.07714	-0.07754	0.120418	-0.17375	0.572025	0.573647	0.376682	0.200299	0.143434	-0.29338	0.088992	-0.27138	0.82919	0.023918	0.719492	0.034052
LCE3A	0.109277	-0.02753	0.241129	-0.21767	0.422716	0.841836	0.073411	0.107056	0.05455	-0.15764	0.171035	-0.19012	0.640599	0.147714	0.869356	0.10284
LCE3B	0.045013	0.055492	0.287757	-0.18998	0.739527	0.684585	0.029967	0.156938	0.154863	-0.19747	0.206454	-0.23173	0.84794	0.09418	0.913191	0.06062
LCE3C	-0.01927	-0.12791	0.270329	-0.16353	0.886842	0.347508	0.041976	0.224175	0.070319	-0.34984	0.067029	-0.408	0.676886	0.009243	0.667242	0.0027
LCE3E	0.06804	-0.1489	0.246418	-0.04865	0.618304	0.277932	0.067134	0.721795	0.148096	-0.37936	0.136583	-0.28034	0.837006	0.00466	0.814512	0.029575
TBC1D26	-0.08455	0.020595	0.047117	-0.32437	0.531768	0.880247	0.727811	0.013832	0.059317	-0.45512	0.047793	-0.46934	0.652316	0.000742	0.62239	0.0005
TAS2R42	-0.06148	-0.19778	0.1077	-0.23039	0.649622	0.143985	0.425203	0.084676	0.117783	-0.49888	0.166184	-0.45764	0.78218	0.000209	0.86237	0.000692
ZACN	-0.02909	-0.04211	0.185095	-0.2614	0.831486	0.757953	0.172028	0.051656	0.16993	-0.17262	0.28955	-0.32567	0.870559	0.125654	0.97315	0.013601
SLCO4C1	0.011402	0.227865	-0.12601	-0.10074	0.932914	0.091214	0.350304	0.455891	-0.20405	0.136458	0.042183	0.092894	0.086884	0.817074	0.608393	0.730402
KAAG1	0.026543	-0.27377	0.225146	-0.19377	0.844617	0.041185	0.09221	0.148674	0.18637	-0.36841	0.19315	-0.33049	0.892537	0.005881	0.898179	0.012441
PADI6	-0.0431	0.034933	0.276158	-0.21903	0.752481	0.800117	0.039377	0.104837	0.185408	-0.25502	0.191878	-0.33823	0.891327	0.043592	0.896653	0.010751
ZNF445	0.037436	-0.00598	-0.07209	0.180376	0.784144	0.965458	0.597511	0.183417	0.081063	0.269709	-0.01296	0.178885	0.703864	0.965058	0.466344	0.882877
KRT26	0.208769	-0.11209	0.297968	-0.10863	0.119119	0.410786	0.024374	0.421187	-0.01805	-0.12722	0.074301	-0.16935	0.452615	0.199748	0.686188	0.130262
RGSL1	0.105816	-0.11617	0.09392	-0.26754	0.433393	0.39387	0.487113	0.044224	0.248211	-0.34422	0.141144	-0.37098	0.947875	0.01107	0.816684	0.006585
ANKRD37	0.003534	-0.28363	0.077202	-0.20687	0.979187	0.034147	0.568134	0.122595	-0.07875	-0.34711	0.08394	-0.32998	0.301446	0.009054	0.708226	0.01256
KRTAP12-2	-0.05457	0.06239	0.137682	0.075319	0.686827	0.647813	0.307102	0.577635	0.078756	-0.23223	0.153836	-0.15637	0.698559	0.06021	0.8435	0.149692
SPATA12	0.040445	-0.20256	0.171076	-0.26356	0.765163	0.13434	0.203236	0.047597	0.015566	-0.27272	0.08731	-0.28298	0.540889	0.033348	0.715764	0.028352
KRTAP12-1	0.205656	-0.13286	0.222059	-0.31483	0.128364	0.333554	0.099997	0.018113	0.064864	-0.51285	0.305295	-0.35331	0.665774	0.000134	0.979291	0.008008
KRTAP10-1	0.072617	-0.14478	0.281291	-0.19289	0.591398	0.287058	0.034035	0.15056	0.174063	-0.42588	0.152154	-0.50256	0.873595	0.001768	0.837928	0.000217
GPR141	0.10265	-0.2385	0.117291	0.159224	0.447354	0.076703	0.384894	0.236789	-0.12147	-0.1139	-0.08646	-0.113	0.213347	0.228128	0.288412	0.229943
ZNF233	0.008086	0.028107	-0.0444	-0.45066	0.952399	0.837078	0.742963	0.000435	0.118581	-0.12962	0.14659	-0.16224	0.783743	0.195296	0.831696	0.140692
TICAM2	0.140812	0.019853	-0.00541	0.363976	0.296128	0.88453	0.968166	0.005382	0.365863	-0.24865	0.171854	-0.01305	0.993799	0.047829	0.870512	0.465713
POLN	0.006976	-0.28992	0.214628	-0.31336	0.958923	0.030202	0.10888	0.01762	-0.00901	-0.54441	0.056661	-0.30177	0.476299	4.59E-05	0.644194	0.020767
BMP8A	-0.13035	0.00733	0.067334	-0.17659	0.333815	0.957243	0.618721	0.188828	-0.01743	0.198455	0.011412	-0.00212	0.454233	0.906939	0.529656	0.494423
LILRA5	0.115111	-0.20992	0.211282	0.015132	0.39385	0.120457	0.114641	0.911046	0.011656	-0.26986	0.125209	-0.31594	0.530642	0.034859	0.793757	0.016218
KLK3	0.017041	-0.09698	0.249895	-0.1649	0.899879	0.477053	0.06083	0.220268	0.14769	-0.38536	0.110227	-0.34946	0.836334	0.004088	0.764489	0.008644
IGLL1	0.023285	-0.24064	0.304059	0.041321	0.863493	0.074011	0.021478	0.760224	0.111349	-0.29955	0.24602	-0.14278	0.769354	0.021564	0.94835	0.17192
IGSF1	0.18168	0.060774	-0.04299	-0.03327	0.176199	0.656361	0.750838	0.805901	0.124995	-0.21602	0.070553	-0.20456	0.796075	0.074671	0.677435	0.086336
IHH	-0.01336	-0.24239	0.218554	0.042186	0.921415	0.071868	0.102405	0.755362	-0.03727	-0.11458	-0.04327	-0.08809	0.403979	0.226781	0.390162	0.282501
FAS	0.005611	0.127025	-0.03575	0.29209	0.96696	0.350864	0.791791	0.027475	-0.14734	0.583711	-0.08063	0.409787	0.164245	0.99999	0.299262	0.997659
IK	-0.13496	-0.09805	-0.13935	-0.19162	0.316862	0.472183	0.301205	0.153309	-0.29145	-0.10683	0.001755	-0.09271	0.024694	0.239897	0.504564	0.27
IKBKB	-0.23533	0.373252	-0.13499	0.079779	0.078038	0.004606	0.316753	0.555248	-0.22966	0.58213	-0.26085	0.355962	0.062344	0.999989	0.041755	0.992407
IL1A	-0.02227	0.155023	-0.06563	-0.21953	0.869365	0.253939	0.627669	0.100839	0.090842	-0.28764	0.127635	-0.30449	0.725882	0.02629	0.798291	0.01982
IL1B	0.00329	-0.1972	0.108689	0.057299	0.980801	0.148984	0.425231	0.67488	-0.05564	-0.34089	-0.04318	-0.27579	0.359903	0.011774	0.391673	0.034992
IL1R1	0.193516	-0.10178	0.129133	0.365415	0.149212	0.455413	0.33839	0.005189	0.426465	-0.23421	0.242566	0.027644	0.998439	0.058599	0.945805	0.572353
IL1RAP	0.165856	0.257992	-0.14423	0.211656	0.221844	0.054893	0.288917	0.117358	-0.02431	0.528218	-0.10601	0.466606	0.436301	0.999919	0.24412	0.99946
IL1RN	-0.08815	0.363704	-0.18067	-0.16027	0.518265	0.006343	0.182681	0.238033	-0.07482	0.576079	-0.19647	0.255788	0.310592	0.999986	0.097915	0.956898
IL2	0.030193	-0.26723	0.070295	-0.04954	0.823571	0.046481	0.603341	0.71442	0.05247	-0.3394	0.022807	-0.14748	0.633941	0.011278	0.558415	0.166833
IL2RA	0.095249	-0.30022	0.268561	0.037626	0.484993	0.025949	0.045357	0.783076	0.177777	-0.27724	0.285158	-0.04702	0.881398	0.031067	0.971198	0.378156
FASLG	-0.19414	-0.27396	0.110712	0.269613	0.14789	0.041037	0.412294	0.042543	0.014446	-0.39395	0.148977	-0.22984	0.537957	0.003376	0.835643	0.062196
IL2RB	-0.1741	-0.06603	0.023357	0.431838	0.19938	0.631937	0.864328	0.00089	-0.07544	0.156919	-0.09032	0.313961	0.309129	0.851167	0.277575	0.9832
IL2RG	-0.02038	-0.31604	0.105397	0.553881	0.880406	0.017652	0.435228	7.84E-06	-0.29582	-0.252	0.031851	0.04494	0.024247	0.047464	0.581309	0.615289

IL3	-0.08448	-0.19142	0.115897	-0.18753	0.5321	0.15758	0.390609	0.162444	0.058137	-0.4618	0.256719	-0.32984	0.649427	0.000618	0.955652	0.012593
IL4	0.1312	-0.11593	0.118806	-0.18703	0.33065	0.394862	0.378741	0.163586	0.124445	-0.49607	0.330851	-0.35618	0.795032	0.000228	0.986787	0.00756
IL4R	-0.00761	0.079111	-0.04321	0.264983	0.955172	0.562204	0.749625	0.046369	0.014815	0.387988	-0.12831	0.342079	0.538922	0.996143	0.200466	0.990016
IL5	-0.04544	-0.14154	0.103452	-0.15137	0.73716	0.29808	0.443794	0.261026	0.182872	-0.26355	0.091985	-0.33798	0.885395	0.040124	0.723695	0.011583
IL5RA	-0.09539	-0.18737	0.054119	-0.18134	0.480301	0.166714	0.68928	0.177023	-0.15673	-0.27755	0.052121	-0.18758	0.149121	0.030916	0.633084	0.105961
IL6	0.018134	-0.43711	0.184983	0.290439	0.894469	0.000847	0.172292	0.029896	0.070058	-0.18095	0.128191	-0.13131	0.678193	0.114406	0.799322	0.192196
SHROOM2	-0.00045	0.107939	0.056812	-0.17349	0.997346	0.428452	0.674665	0.196835	-0.16386	-0.02894	-0.17931	-0.09056	0.138271	0.424287	0.119289	0.27473
IL6R	-0.09666	-0.12765	-0.09182	-0.03624	0.474449	0.348483	0.496961	0.788987	-0.121	-0.21042	-0.05558	-0.29453	0.211565	0.080214	0.358445	0.023463
IL6ST	0.193691	-0.0684	0.001218	0.413978	0.148839	0.616451	0.992827	0.001369	0.391499	0.087615	0.060732	0.25208	0.996433	0.718703	0.654059	0.954491
IL7	-0.04454	0.02931	-0.059	0.072926	0.742192	0.830209	0.662889	0.589817	-0.19145	0.079504	0.063015	0.195435	0.101228	0.700282	0.659549	0.903477
IL7R	-0.0458	-0.15047	-0.11176	0.515434	0.735156	0.268307	0.407856	4.08E-05	-0.21286	-0.08712	-0.09981	0.106994	0.077766	0.282412	0.257093	0.760445
IL8	-0.03435	0.142531	0.129088	-0.19698	0.801578	0.29468	0.343031	0.145641	0.041873	0.151804	0.102562	0.13618	0.608842	0.843056	0.748703	0.816582
IL8RA	0.023928	-0.54367	0.106877	-0.14956	0.862335	2.15E-05	0.43737	0.2758	-0.33156	-0.51071	-0.05668	-0.43307	0.013042	0.000169	0.357394	0.001482
IL9	-0.0551	-0.18716	0.119331	-0.22528	0.683961	0.16721	0.376623	0.092005	-0.03614	-0.37497	0.100965	-0.19683	0.405761	0.00512	0.745348	0.094915
IL8RB	0.026994	-0.4447	0.03791	-0.14123	0.844897	0.000754	0.783475	0.303701	-0.34208	-0.42334	-0.0637	-0.33405	0.010723	0.00188	0.340609	0.012458
AQP1	0.373703	-0.18264	0.278112	0.324719	0.004553	0.181993	0.03795	0.014617	0.262356	-0.1528	0.205006	0.125902	0.960916	0.155338	0.91164	0.797784
IL10	-0.01918	-0.19845	0.219308	-0.17955	0.887381	0.142599	0.101197	0.18142	0.001952	-0.37781	0.204776	-0.34318	0.505137	0.004818	0.911391	0.009775
IL10RA	0.056195	-0.2249	0.110998	0.613705	0.678002	0.095615	0.411081	3.85E-07	-0.14827	0.010381	-0.0112	0.148255	0.16271	0.527296	0.470902	0.837268
IL10RB	-0.17895	0.331999	-0.19527	0.057839	0.182907	0.012428	0.145496	0.66912	-0.23361	0.502794	-0.11452	0.38227	0.059083	0.999815	0.226897	0.995626
IL11	-0.00043	-0.20195	0.2523	-0.22626	0.997456	0.135551	0.058307	0.090574	0.006758	-0.35554	0.214455	-0.25661	0.517777	0.007657	0.921414	0.042584
AQP2	-0.00289	-0.10802	0.24491	-0.1619	0.983	0.428118	0.066337	0.228907	0.086178	-0.38	0.279284	-0.29087	0.715479	0.004595	0.968411	0.024932
IL11RA	0.256724	-0.25005	0.213087	0.012691	0.053889	0.063075	0.111505	0.925352	0.378052	-0.41824	0.289989	-0.30934	0.995207	0.001911	0.973339	0.018222
IL12A	-0.03533	-0.26338	0.187343	-0.24036	0.794152	0.049847	0.162877	0.071708	0.028436	-0.40557	0.22252	-0.3594	0.574401	0.002585	0.92911	0.007082
IL12B	-0.00294	-0.14233	0.266611	-0.22422	0.98268	0.295352	0.044993	0.09359	0.114384	-0.42075	0.180402	-0.36292	0.775453	0.001798	0.882165	0.00659
IL12RB1	-0.08179	-0.13219	0.310985	0.137936	0.545268	0.331469	0.018544	0.306202	-0.04935	-0.37027	0.165914	-0.16504	0.372326	0.005656	0.861976	0.136523
IL12RB2	-0.12753	0.148737	-0.02133	0.362807	0.344467	0.273938	0.874861	0.005543	-0.05635	0.109413	-0.04789	0.168777	0.354964	0.765416	0.37736	0.868912
IL13	-0.21275	-0.12137	0.133163	-0.26586	0.115433	0.377394	0.327881	0.047655	-0.20992	-0.24998	0.079726	-0.19412	0.080719	0.04692	0.698676	0.098056
IL13RA1	-0.13172	0.022742	-0.17274	0.163419	0.328718	0.867866	0.198821	0.224504	-0.10784	0.144722	-0.0763	0.22269	0.23782	0.831372	0.309183	0.931564
C20orf185	-0.09901	-0.06545	0.065837	-0.23313	0.463689	0.631742	0.62656	0.080947	0.003649	-0.31764	0.113057	-0.24714	0.509602	0.015733	0.770181	0.048875
IL13RA2	-0.0233	-0.1975	0.036191	-0.26414	0.864673	0.148364	0.791161	0.049167	0.125149	-0.42345	0.236155	-0.33368	0.796365	0.001682	0.94083	0.01172
MRPL42P5	0.058844	0.010648	0.029412	-0.04158	0.663709	0.93792	0.828064	0.758773	-0.20608	-0.03888	0.008545	0.021602	0.084717	0.398772	0.522213	0.556655
FAM101B	0.039861	-0.3169	0.293211	0.267565	0.768459	0.017327	0.026859	0.044202	0.055146	-0.33248	0.292806	-0.1635	0.642073	0.011986	0.974528	0.138802
IRF2BP2	0.080664	-0.07654	0.152713	0.093357	0.550856	0.57503	0.25676	0.489736	0.151587	-0.037	0.022778	-0.04371	0.842707	0.403556	0.559034	0.386513
ACADSB	0.026843	0.282085	-0.31635	0.016017	0.842885	0.035178	0.016512	0.905867	-0.10575	0.325609	-0.12637	0.180614	0.24214	0.986384	0.204064	0.885159
AQP3	-0.09651	0.436385	-0.3232	0.026739	0.479207	0.000866	0.015114	0.844907	-0.11628	0.723158	-0.36516	0.418861	0.220788	1	0.006823	0.998117
IL15	0.092579	-0.13017	0.173924	0.469899	0.49338	0.338963	0.195703	0.000226	0.192042	0.03477	0.214392	0.066717	0.899478	0.59072	0.921351	0.670226
ZBTB41	-0.02444	0.262652	-0.23874	0.043968	0.856802	0.050505	0.073702	0.745368	0.009991	0.351242	-0.02619	0.242955	0.526271	0.991655	0.432208	0.948124
LOC36003C	0.054045	0.017283	0.200381	-0.08692	0.692398	0.900332	0.138671	0.524157	-0.00239	-0.04977	0.195561	-0.1062	0.493705	0.371278	0.901026	0.241204
IL15RA	0.044528	-0.05265	0.280833	0.35837	0.742234	0.699965	0.03434	0.006195	0.197274	-0.0014	0.200204	0.068087	0.905596	0.496325	0.906351	0.673501
FKBP9L	-0.1385	-0.07562	-0.28882	-0.10252	0.308699	0.58318	0.030862	0.452114	-0.10243	0.093835	-0.04396	0.166812	0.249091	0.732463	0.387163	0.866074
TMPRSS9	0.007531	-0.22032	0.286631	-0.19064	0.955661	0.102757	0.030645	0.155474	0.054071	-0.40345	0.216017	-0.37771	0.639416	0.002716	0.92295	0.004828
GLT6D1	0.012204	-0.04995	0.177995	-0.1853	0.928206	0.714652	0.185281	0.167604	0.112578	-0.37096	0.179702	-0.33507	0.771835	0.005575	0.881238	0.011416
TESSP1	-0.07224	-0.10605	0.163214	-0.17841	0.593315	0.436628	0.225093	0.184241	0.226018	-0.47187	0.083682	-0.35665	0.934525	0.000465	0.707646	0.007489
IL16	0.126496	-0.43104	0.178359	-0.07769	0.348431	0.000912	0.18437	0.565663	0.099487	-0.47317	0.364047	-0.28235	0.742222	0.000514	0.992436	0.030107
TNFRSF9	-0.01275	-0.19004	0.061135	0.183115	0.924996	0.160656	0.651447	0.17275	0.002467	-0.27736	0.286465	-0.13081	0.506491	0.031009	0.971791	0.193111
IL17A	0.05455	-0.18275	0.231125	-0.2127	0.686937	0.177632	0.083666	0.112168	0.129788	-0.43548	0.047491	-0.30814	0.805019	0.001244	0.621639	0.018608
IL18	0.005127	0.528695	-0.31568	-0.11172	0.970085	2.81E-05	0.017787	0.412338	-0.21948	0.637261	-0.27505	0.39553	0.071388	0.999999	0.033727	0.996743
FOXK2	-0.00303	0.137551	0.006734	0.115742	0.982331	0.316612	0.960715	0.395626	0.060117	0.381744	-0.15549	0.295529	0.654268	0.995575	0.153884	0.976924
ILF2	0.025186	0.189289	-0.23599	0.283558	0.853816	0.166324	0.079951	0.034194	-0.13185	0.583213	-0.24061	0.448707	0.19121	0.999989	0.055679	0.999119
ILF3	0.105807	0.206656	-0.09966	0.320376	0.437682	0.130078	0.464907	0.016074	-0.11125	0.655274	-0.31563	0.552272	0.230849	1	0.017342	0.999965

AQP4	-0.05029	0.085205	-0.13423	-0.29543	0.71028	0.532382	0.319517	0.025675	-0.08935	-0.04754	-0.05345	-0.23678	0.279723	0.378232	0.365205	0.058667
ILK	0.40847	-0.37799	0.299077	0.129393	0.001608	0.004076	0.023824	0.33741	0.331048	-0.40732	0.2829	-0.26822	0.987689	0.002481	0.970151	0.035752
IMPA1	-0.1402	0.22917	-0.26758	0.023762	0.298253	0.089325	0.044188	0.860727	-0.1632	0.384421	-0.06479	0.290895	0.139245	0.995827	0.336209	0.975078
IMPA2	-0.21715	0.473884	-0.32783	0.042512	0.104685	0.000225	0.012794	0.753527	-0.10109	0.552023	-0.29256	0.231501	0.251909	0.999965	0.025575	0.939191
IMPDH1	-0.04368	-0.16732	0.138458	-0.12731	0.746962	0.217725	0.304359	0.345322	0.06377	-0.25244	-0.00364	-0.29409	0.663135	0.045268	0.490546	0.023639
IMPDH2	0.006635	0.309445	-0.19934	0.083226	0.961289	0.021508	0.140773	0.541984	-0.14745	0.747724	-0.41386	0.490979	0.164056	1	0.002356	0.999734
IMPG1	0.017557	0.014625	0.13093	-0.29811	0.896863	0.914803	0.331654	0.024302	0.122146	-0.42178	0.148662	-0.29634	0.790647	0.001753	0.835126	0.022766
INCENP	0.043111	0.190844	0.030944	-0.10312	0.750168	0.158859	0.819257	0.445288	-0.16091	0.496111	-0.08072	0.231604	0.142694	0.999773	0.299057	0.939277
AQP5	0.177754	-0.02426	0.066421	0.018299	0.189975	0.860459	0.6267	0.893511	0.153804	0.190694	-0.12831	0.032868	0.846262	0.897858	0.20045	0.585837
IDO1	-0.17009	-0.00203	0.078759	0.579234	0.2059	0.98813	0.560333	2.35E-06	-0.10923	0.272613	0.022753	0.348396	0.237543	0.964989	0.558276	0.990496
ING1	0.106271	-0.39732	0.179467	-0.14895	0.431409	0.002429	0.181613	0.268799	0.103548	-0.43614	0.227512	-0.47939	0.75327	0.001223	0.933586	0.000375
ING2	0.159526	0.202821	-0.16676	-0.14152	0.235889	0.13383	0.215055	0.293676	0.031619	0.137991	-0.13327	0.067709	0.582621	0.81978	0.191401	0.672598
INHA	0.120818	-0.30031	0.242222	-0.23198	0.370662	0.024525	0.069468	0.082496	0.11344	-0.45214	0.213288	-0.29622	0.773566	0.000804	0.920251	0.02281
INHBA	0.161683	-0.45289	0.249578	-0.08424	0.229532	0.000457	0.061168	0.533265	0.240143	-0.47258	0.351025	-0.25835	0.946031	0.000456	0.990967	0.041501
INHBB	0.084661	-0.31159	0.231885	-0.28124	0.535012	0.020573	0.085495	0.035754	-0.06375	-0.57054	0.171331	-0.50142	0.336906	1.74E-05	0.869775	0.000193
INHBC	-0.05618	-0.17547	0.109375	-0.22705	0.680884	0.200065	0.422301	0.092417	0.064713	-0.35093	0.002005	-0.29265	0.66361	0.009049	0.505153	0.025536
CXCL10	0.035989	-0.232	0.14539	0.517146	0.792299	0.088308	0.285	4.48E-05	-0.10483	0.035156	0.289789	0.275581	0.246573	0.59067	0.971809	0.966546
INPP1	0.070707	0.276667	-0.18082	0.258406	0.604569	0.040875	0.18233	0.054491	-0.0093	0.616175	-0.26437	0.438203	0.475546	0.999997	0.039635	0.99884
AQP6	-0.01347	0.014705	0.182775	-0.16185	0.920804	0.914342	0.173562	0.229059	0.147588	-0.2427	0.164492	-0.31356	0.836165	0.052063	0.859878	0.016918
INS	-0.21473	-0.09441	-0.05575	-0.0697	0.108713	0.488871	0.680411	0.606414	0.099775	-0.21701	-0.06392	-0.29868	0.745288	0.073714	0.338297	0.021886
INPP4A	0.130054	-0.09312	0.029325	0.395635	0.334928	0.49486	0.828565	0.002318	0.297828	-0.00627	0.142292	0.015705	0.977798	0.483499	0.82444	0.541253
INPP5A	0.228153	0.133659	-0.05497	0.10777	0.087831	0.326066	0.684637	0.424901	0.333939	-0.03418	0.057804	-0.02047	0.988338	0.410803	0.646975	0.446302
INPP5B	0.24048	-0.21674	0.185283	0.245693	0.07156	0.108609	0.167634	0.065446	0.190897	-0.13938	0.21934	-0.06647	0.898104	0.177784	0.926145	0.330372
INPP5D	0.056043	-0.31028	0.011384	0.508207	0.678824	0.019949	0.933019	5.44E-05	-0.08945	-0.04142	0.102462	0.167565	0.277198	0.392307	0.748495	0.867167
INPPL1	0.056604	-0.11988	0.108371	-0.09888	0.675785	0.378815	0.422309	0.464279	0.18503	-0.15715	0.052641	-0.09302	0.89085	0.148466	0.634363	0.269321
INSIG1	0.197963	-0.08188	0.224039	0.135562	0.139909	0.548581	0.093865	0.314683	0.058252	-0.1382	0.139446	0.009644	0.64971	0.179846	0.819532	0.525361
AQP7	-0.18161	-0.33382	0.151094	-0.33689	0.176368	0.011927	0.261896	0.010393	-0.1072	-0.55374	0.11014	-0.43502	0.239138	3.28E-05	0.764314	0.001259
INSL3	-0.15853	-0.10842	0.363989	-0.13681	0.243231	0.430727	0.005821	0.314668	0.155674	-0.34529	0.220172	-0.2123	0.849219	0.00938	0.92693	0.078318
INSL4	0.130374	0.057454	0.087687	-0.29297	0.338202	0.676935	0.520466	0.028432	0.036603	-0.28433	0.122597	-0.35211	0.595417	0.02774	0.788809	0.008201
INSM1	-0.02898	-0.17174	0.304439	-0.17272	0.830568	0.205658	0.021307	0.198866	0.121167	-0.44556	0.22708	-0.41583	0.788765	0.000958	0.933206	0.002026
INSR	0.040775	-0.25628	0.168759	0.103526	0.7633	0.056582	0.209515	0.443469	-0.06631	0.005896	-0.00816	-0.15042	0.330741	0.515511	0.478786	0.159181
INSRR	-0.07211	-0.14176	0.262217	-0.01018	0.593983	0.297335	0.048785	0.940076	0.194056	-0.38448	0.142399	-0.26063	0.901866	0.004168	0.824622	0.040111
EIF3E	0.110158	0.276842	-0.26918	0.197358	0.414649	0.038873	0.04289	0.141149	0.125638	0.476536	-0.20462	0.410548	0.797288	0.999593	0.088777	0.997701
PDX1	0.11768	-0.21942	0.331378	-0.12587	0.383309	0.104207	0.011802	0.350847	0.205645	-0.30167	0.208144	-0.21934	0.914824	0.020801	0.914978	0.071515
IPP	-0.00402	0.199257	-0.20654	0.006808	0.976349	0.140946	0.123195	0.959915	-0.15937	0.316418	-0.02729	0.29116	0.145042	0.983918	0.429386	0.975186
IRAK1	0.017878	-0.03625	0.176276	0.056444	0.894985	0.790848	0.189633	0.676656	-0.14192	0.22155	-0.00711	0.144184	0.1734	0.930528	0.481508	0.830464
ITGA6	0.253558	0.297294	-0.05226	0.387227	0.059349	0.027507	0.702079	0.003195	0.264591	0.601316	-0.07016	0.501	0.962214	0.999995	0.323488	0.999805
IRAK2	0.067022	-0.02691	0.223818	0.26377	0.623578	0.845361	0.09727	0.049496	0.066665	0.246875	-0.00057	0.203519	0.6701	0.950938	0.498508	0.912545
IREB2	-0.03449	0.299837	-0.29389	0.280902	0.798976	0.024762	0.02649	0.034294	0.083763	0.517586	-0.15745	0.425294	0.710021	0.999885	0.150808	0.998393
IRF1	-0.18096	-0.18406	0.085475	0.510017	0.177956	0.174479	0.527268	5.07E-05	-0.22856	0.160977	-0.12417	0.301217	0.063277	0.857408	0.208202	0.979037
AQP9	-0.06049	-0.5593	0.011918	-0.07128	0.65788	9.05E-06	0.930528	0.601623	-0.23918	-0.52557	0.00302	-0.38979	0.056782	0.000105	0.50776	0.004063
IRF2	-0.11835	0.012822	-0.16374	-0.0069	0.384977	0.925975	0.227882	0.959729	-0.18557	0.171099	0.091671	0.174193	0.111149	0.869446	0.723015	0.873774
IRF3	-0.09842	-0.09192	0.064075	0.027087	0.466391	0.500472	0.635836	0.841476	-0.10179	-0.02384	-0.16455	-0.07562	0.250441	0.437514	0.140044	0.308727
IRF4	-0.03711	-0.14412	0.070752	0.60487	0.784041	0.289265	0.60098	6.25E-07	-0.11966	0.179781	0.004014	0.363584	0.21415	0.884063	0.51044	0.993499
IRF5	-0.10207	-0.11922	-0.01468	-0.25878	0.44992	0.381495	0.913679	0.051933	-0.26772	-0.32897	0.034612	-0.28261	0.036026	0.012798	0.589289	0.028522
IRF6	-0.00121	0.212119	-0.33573	-0.17908	0.9929	0.116539	0.010677	0.182571	-0.22645	0.645702	-0.29133	0.336317	0.065098	0.999999	0.02609	0.988851
IRF7	-0.06368	-0.20046	0.193104	-0.03833	0.637952	0.138512	0.150096	0.777097	0.073559	-0.25168	0.095263	-0.25688	0.686456	0.045774	0.733186	0.042416
IRS1	0.169702	-0.04323	0.033827	0.323063	0.206944	0.751757	0.802739	0.01424	0.149917	0.189688	0.082593	0.123192	0.839996	0.896638	0.705188	0.792649
ISG20	-0.13065	-0.03748	-0.04326	0.291474	0.332715	0.783872	0.749351	0.027819	-0.04701	0.431811	-0.14863	0.312576	0.378201	0.998635	0.164933	0.982784
AR	0.326874	-0.36642	0.273444	0.083193	0.013074	0.005478	0.039578	0.53839	0.259384	-0.25974	0.103107	-0.12761	0.959136	0.040645	0.749843	0.199012

ISL1	-0.27364	0.085745	-0.09502	-0.00759	0.041282	0.533649	0.486049	0.955735	-0.06757	0.24281	0.114876	0.007458	0.329596	0.945988	0.771116	0.519389
ISLR	0.337559	-0.19289	0.072018	0.188306	0.010231	0.154364	0.594471	0.160687	0.242224	0.081242	0.145722	0.279275	0.945548	0.702127	0.827373	0.968407
ITGA1	0.283168	-0.20193	0.117173	0.369205	0.032809	0.135582	0.385375	0.004709	0.364432	-0.3428	0.227552	-0.11466	0.993612	0.009845	0.933621	0.223999
ITGA2	0.120297	0.443727	-0.25821	-0.02473	0.377168	0.000614	0.054678	0.856433	-0.26679	0.728231	-0.35241	0.482955	0.03654	1	0.008792	0.999662
ITGA2B	-0.06556	-0.45907	0.15299	-0.1896	0.628005	0.000373	0.255889	0.157776	-0.04855	-0.50368	0.151295	-0.35158	0.375723	0.00021	0.836542	0.008936
ITGA3	-0.09393	-0.08755	-0.01367	0.096151	0.487065	0.521095	0.919633	0.47678	-0.22465	0.444138	-0.2598	0.398065	0.066677	0.999006	0.0424	0.996926
ITGA4	-0.04252	-0.10875	-0.07877	0.63141	0.753508	0.424972	0.560282	1.39E-07	-0.29288	-0.09992	-0.00104	0.073108	0.025443	0.256868	0.497336	0.683413
ITGA5	0.198575	-0.36456	0.167528	0.362652	0.138664	0.005738	0.212906	0.005565	0.466071	-0.37184	0.227052	-0.24496	0.999452	0.005472	0.933182	0.050424
ITGA7	0.345627	-0.20989	0.268798	0.045351	0.008456	0.120519	0.043197	0.737638	0.280072	-0.41186	0.26393	-0.20583	0.970298	0.002228	0.960103	0.084981
ABCC6	-0.20112	-0.2563	0.124056	-0.19806	0.137186	0.058923	0.36233	0.143406	-0.16132	-0.53257	0.021624	-0.4202	0.142074	6.95E-05	0.556061	0.001822
ITGA9	0.343339	-0.18414	0.326275	0.273993	0.00958	0.178377	0.014123	0.041011	0.168227	-0.20971	0.192707	0.133288	0.868122	0.080941	0.897649	0.811402
ITGAD	0.003721	-0.23796	0.270363	-0.1292	0.978082	0.077387	0.041949	0.338133	0.200511	-0.47939	0.324214	-0.47108	0.909245	0.000375	0.985101	0.000476
ITGAE	-0.16307	0.114874	0.137526	0.530808	0.234208	0.408158	0.316702	3.06E-05	-0.33939	0.371104	-0.15825	0.632664	0.010514	0.994443	0.149575	0.999999
ITGAL	-0.08136	-0.27036	0.096723	0.626101	0.547417	0.043878	0.47415	1.90E-07	-0.20832	-0.12538	-0.01667	0.124806	0.082365	0.203206	0.456734	0.795716
ITGAM	0.009466	-0.56786	0.265995	0.086089	0.944284	5.01E-06	0.04551	0.524294	-0.12686	-0.46019	0.063651	-0.25562	0.20316	0.000735	0.659271	0.045055
ITGAV	0.088908	0.229416	-0.25806	0.312587	0.510748	0.088973	0.052611	0.017916	0.037245	0.570863	-0.19509	0.450275	0.59706	0.999983	0.099527	0.999155
ITGAX	-0.10119	-0.53251	0.086558	0.172889	0.453872	2.40E-05	0.522028	0.198416	-0.21088	-0.4229	-0.012	-0.29901	0.082184	0.001901	0.469197	0.023005
ITGB1	0.198111	0.06954	-0.11409	0.261918	0.139607	0.610564	0.398105	0.049053	0.250103	0.100906	0.047227	0.180717	0.953166	0.747693	0.620985	0.885294
ITGB2	-0.03381	-0.42428	0.114856	0.458008	0.802852	0.001119	0.394907	0.00034	-0.22342	-0.24402	0.014472	0.004694	0.070067	0.053109	0.537143	0.512206
ARAF	0.028096	0.173414	0.005276	0.224072	0.835648	0.201196	0.96893	0.093815	0.170815	0.47945	-0.11294	0.287191	0.871813	0.999626	0.230056	0.973517
ITGB3	0.136849	-0.48991	0.148844	0.249495	0.310065	0.000127	0.269149	0.061258	0.123391	-0.49053	0.218201	-0.22496	0.79032	0.000312	0.922621	0.068677
ITGB4	-0.00978	0.022008	-0.06562	0.144852	0.942421	0.872094	0.627723	0.282348	-0.04602	0.453175	-0.19051	0.300677	0.380679	0.999218	0.105006	0.978843
EIF6	-0.19516	0.23302	-0.17241	0.170671	0.149478	0.08688	0.203861	0.208527	-0.18317	0.687202	-0.35114	0.471457	0.111517	1	0.009013	0.999529
ITGB5	0.178532	-0.12653	0.056908	0.090979	0.188012	0.357289	0.676977	0.504865	0.066476	0.081	-0.10087	-0.13927	0.669647	0.70372	0.25486	0.177973
ITGB6	-0.0194	0.408799	-0.20341	0.225036	0.887158	0.001759	0.13268	0.095416	-0.1495	0.672367	-0.19194	0.464149	0.163504	1	0.105987	0.99934
ITGB7	-0.07809	-0.00675	-0.06497	0.497549	0.563692	0.960636	0.631111	8.23E-05	-0.15305	0.192904	-0.05323	0.284902	0.154944	0.900505	0.364196	0.972514
ITGB8	-0.07618	0.272799	-0.32044	-0.08627	0.573291	0.041936	0.015092	0.523433	-0.04269	0.384311	-0.24803	0.122725	0.39033	0.995425	0.052255	0.789052
ITIH1	-0.10131	-0.08169	0.165703	-0.21557	0.453317	0.549506	0.218004	0.107305	0.128381	-0.40563	0.148753	-0.30827	0.802418	0.002581	0.835275	0.018566
ITIH2	0.243071	-0.09374	0.345544	-0.25607	0.071055	0.496044	0.009097	0.056794	0.192971	-0.22198	0.205005	-0.31601	0.900585	0.069078	0.911639	0.016199
ITIH3	0.091304	-0.14625	0.205604	-0.29989	0.499375	0.282134	0.124948	0.023429	0.148859	-0.40903	0.266167	-0.37872	0.838263	0.002383	0.96141	0.004724
ACADVL	-0.12177	0.195477	-0.07687	0.120434	0.371319	0.15265	0.573367	0.376619	-0.06664	0.390684	-0.2967	0.176447	0.329959	0.996367	0.0239	0.879606
ITIH4	0.057966	-0.25501	0.270076	-0.07602	0.668434	0.057863	0.042176	0.574087	-0.05387	-0.5067	0.130651	-0.25376	0.361087	0.000163	0.803849	0.044405
ITK	-0.06583	-0.17871	-0.05995	0.623078	0.626607	0.187568	0.657802	2.27E-07	-0.12274	-0.11699	-0.0159	0.069806	0.20821	0.219373	0.458712	0.677594
STT3A	0.1135	0.255857	-0.11817	0.172838	0.400547	0.057003	0.381315	0.19855	-0.03514	0.437915	-0.1395	0.377268	0.408334	0.998831	0.180383	0.995126
ITPA	-0.22352	0.109179	-0.24757	0.105315	0.094643	0.423138	0.063356	0.435585	-0.36166	0.567646	-0.47343	0.346377	0.006763	0.999981	0.000511	0.990816
ITPK1	0.04863	-0.06963	0.028911	-0.05666	0.719428	0.610077	0.830951	0.675471	0.206948	-0.06277	0.020966	-0.17759	0.9162	0.339285	0.554366	0.118848
ITPKA	-0.04441	-0.12423	0.213821	-0.14629	0.742917	0.361656	0.110248	0.27756	0.139964	-0.16797	0.107743	-0.19193	0.823227	0.132248	0.759433	0.100656
ITPKB	0.162025	-0.12945	0.095929	0.193039	0.228536	0.34165	0.4778	0.150236	0.199258	0.002388	0.019027	0.012072	0.905282	0.50621	0.548782	0.531367
ITPR1	0.304964	-0.18715	0.15136	-0.07472	0.022289	0.17126	0.265469	0.584186	0.314648	-0.44782	0.242272	-0.30804	0.983403	0.000902	0.945584	0.018641
ITPR2	0.263436	-0.28104	0.066818	0.389625	0.047708	0.035891	0.621417	0.002737	0.418027	-0.12792	0.14739	-0.0373	0.997864	0.201183	0.830149	0.403891
ITPR3	-0.0775	0.191709	-0.16341	0.086967	0.570222	0.160874	0.228817	0.523906	-0.06263	0.521597	-0.18417	0.36061	0.339629	0.999899	0.11293	0.99309
IVD	0.009246	-0.06889	-0.0209	0.117787	0.946076	0.617243	0.878485	0.387275	-0.01254	0.278871	-0.05609	0.218812	0.467037	0.969725	0.35719	0.92799
IVL	-0.13278	0.028472	0.073808	-0.21505	0.329297	0.836521	0.588779	0.111453	-0.01877	0.037081	-0.09828	-0.14593	0.451302	0.595544	0.262818	0.169414
JAG2	0.053707	-0.10486	-0.0738	0.109915	0.691527	0.441804	0.585347	0.415687	0.142441	0.231378	0.094498	0.149492	0.824695	0.936904	0.729119	0.836488
JAK1	0.059663	-0.00868	-0.2418	0.323624	0.659315	0.949361	0.06997	0.014063	-0.07642	0.230449	0.004676	0.242086	0.30685	0.938316	0.512159	0.947484
JAK2	-0.02313	0.02507	0.014314	0.240246	0.864398	0.854479	0.915838	0.071845	0.267376	-0.12811	0.128093	0.0364	0.963784	0.198095	0.79914	0.594899
JAK3	-0.11719	-0.17948	0.048366	0.52897	0.385296	0.185642	0.720884	2.34E-05	-0.14715	-0.12005	0.041494	0.075894	0.164563	0.213401	0.606663	0.69192
ARCN1	0.130504	0.220151	-0.14819	0.096065	0.333242	0.103022	0.27128	0.477174	-0.02657	0.385681	-0.15701	0.288775	0.430421	0.995941	0.151498	0.974194
JARID2	-0.11708	0.413033	-0.13325	0.073123	0.39014	0.001724	0.327576	0.592248	-0.04263	0.466675	-0.21046	0.244347	0.38923	0.999461	0.082613	0.949138
JUN	0.088088	0.009556	-0.16309	0.011302	0.514671	0.944274	0.225459	0.933499	0.056502	0.308666	-0.00529	0.240206	0.645413	0.981562	0.486249	0.946078

JUNB	0.17739	-0.10533	-0.06613	0.104368	0.186805	0.439775	0.625002	0.439749	0.18897	0.084676	0.081377	0.03655	0.89576	0.712091	0.702434	0.595281
JUND	0.135312	-0.303	0.238167	-0.12552	0.315582	0.02321	0.074415	0.35219	0.130886	-0.38773	0.29744	-0.30146	0.807035	0.003879	0.976389	0.020875
JUP	0.02862	0.166672	-0.02334	0.008185	0.834145	0.223906	0.864446	0.95226	-0.13818	0.709496	-0.30514	0.375879	0.179889	1	0.020764	0.994979
TRIM23	0.088798	0.077851	-0.13919	0.092749	0.511271	0.568468	0.301767	0.492584	0.222804	-0.08825	0.064902	-0.02252	0.931667	0.27988	0.664061	0.440942
KAL1	0.176814	0.00153	0.006879	0.104582	0.188263	0.991071	0.959495	0.438807	0.028845	0.09745	0.105577	0.284421	0.574597	0.737885	0.752403	0.97086
GSTK1	-0.09973	0.042454	-0.11259	0.380978	0.460444	0.75605	0.404347	0.003459	-0.18256	0.551892	-0.29902	0.420775	0.112307	0.999965	0.023001	0.998203
CD82	-0.02509	-0.00663	0.064606	0.261769	0.8557	0.962058	0.639344	0.053538	-0.12635	0.497471	-0.1205	0.289912	0.201382	0.999782	0.215205	0.974671
KARS	-0.18237	0.150365	-0.28135	0.302165	0.178551	0.273181	0.035675	0.023612	-0.18114	0.572857	-0.31851	0.435086	0.114148	0.999984	0.016487	0.998744
USP50	0.038667	-0.00654	0.083045	-0.06464	0.777224	0.962181	0.542864	0.636009	0.044903	-0.25171	0.18447	-0.1776	0.616506	0.045752	0.887451	0.118837
KCNA1	0.024338	-0.26156	0.114208	-0.43634	0.857383	0.051507	0.397598	0.000691	-0.11734	-0.46319	-0.01761	-0.35361	0.218694	0.000594	0.45429	0.00796
KCNA2	0.028481	-0.00676	0.072809	0.244773	0.833432	0.960569	0.590415	0.066494	0.002431	-0.15656	0.049988	-0.09513	0.506395	0.149395	0.627824	0.264709
KCNA3	0.012092	-0.1144	0.056906	0.678397	0.928866	0.401175	0.674156	6.69E-09	-0.1687	0.13303	0.019001	0.326784	0.131199	0.810936	0.549298	0.986675
USP41	-0.21011	0.172489	-0.10166	0.035309	0.116722	0.203647	0.451768	0.794284	-0.04166	0.163864	-0.13544	0.035513	0.391708	0.861741	0.187517	0.592626
HILS1	-0.00592	-0.16872	0.287482	-0.17802	0.965111	0.213839	0.030131	0.18523	0.160741	-0.32021	0.27556	-0.31601	0.857048	0.015023	0.966535	0.0162
DND1	-0.07018	-0.21138	0.12372	-0.02702	0.60395	0.117847	0.359194	0.841871	-0.00806	-0.22239	0.206793	-0.0741	0.478789	0.06871	0.913553	0.312285
KCNA4	-0.03652	-0.26441	0.27686	-0.29537	0.787409	0.048928	0.03708	0.025706	0.12095	-0.48631	0.136376	-0.43352	0.788346	0.000306	0.814146	0.001308
KCNA5	0.251501	-0.25615	0.356326	-0.05468	0.059136	0.056706	0.006518	0.68623	0.373018	-0.49988	0.390193	-0.41122	0.994663	0.000202	0.995973	0.002262
KCNA6	0.119998	-0.34665	0.168048	-0.27124	0.373943	0.008863	0.211471	0.041262	0.237286	-0.37004	0.244382	-0.39566	0.941732	0.006176	0.94506	0.00357
CDRT1	-0.05325	-0.02298	-0.04914	-0.17826	0.694047	0.866519	0.716625	0.184611	-0.29389	0.03076	-0.09454	0.174208	0.023717	0.580405	0.268375	0.876547
NDUFS7	-0.07278	-0.03969	0.005972	0.056402	0.594013	0.773581	0.965156	0.679691	-0.12218	0.258601	-0.11568	0.073665	0.211992	0.95685	0.227293	0.68471
KCNA7	-0.00333	-0.06559	0.22183	-0.17317	0.980404	0.631033	0.097235	0.197674	0.263457	-0.37989	0.24868	-0.41341	0.961559	0.004606	0.950246	0.002147
PTCHD3	-0.06223	-0.11261	-0.01746	-0.23049	0.645591	0.408608	0.897447	0.084537	0.021574	-0.41562	0.097037	-0.38956	0.555933	0.002261	0.734547	0.004083
NHLRC2	0.018351	0.211767	-0.19055	0.099305	0.892225	0.117161	0.155675	0.462371	0.052663	0.319638	-0.05741	0.234374	0.635925	0.984821	0.353979	0.941534
C10orf96	-0.07974	0.024692	-0.02849	-0.33912	0.555424	0.856652	0.833371	0.009866	0.003336	-0.31839	0.206706	-0.31444	0.508779	0.015523	0.91346	0.016659
GALNTL4	-0.08828	0.078662	-0.00732	0.011862	0.513748	0.564431	0.95691	0.930212	-0.03336	0.286321	-0.3172	0.100151	0.412903	0.973139	0.016873	0.746088
DKFZp686C	-0.12729	0.249466	-0.10635	-0.17975	0.345385	0.063716	0.431063	0.180915	-0.00417	-0.08631	-0.12636	-0.22801	0.48903	0.284213	0.204093	0.063752
DKFZp779N	0.071406	-0.338	0.235444	-0.18723	0.597613	0.01084	0.07789	0.163129	0.193748	-0.4681	0.361888	-0.39551	0.901503	0.000518	0.992712	0.003259
FAM111B	0.007925	0.236286	-0.07198	-0.12917	0.953773	0.082426	0.598046	0.342733	-0.18345	0.561878	-0.25685	0.443098	0.11117	0.999976	0.044261	0.998979
TMEM179E	0.050214	0.020675	0.028075	0.228145	0.710683	0.879786	0.835769	0.087842	-0.31471	0.401138	-0.31357	0.324826	0.016579	0.997135	0.017973	0.986187
KCNA10	0.10134	-0.21439	0.254061	-0.28311	0.453203	0.112591	0.056515	0.032849	0.138402	-0.41121	0.266214	-0.30355	0.820501	0.002263	0.961438	0.020143
TBC1D10C	-0.16948	-0.25306	0.138711	0.385227	0.207542	0.059867	0.303467	0.003085	0.018895	-0.48975	0.300775	-0.20609	0.549593	0.000276	0.977659	0.084706
DNAJB13	-0.16518	-0.21915	0.04375	-0.26056	0.219487	0.104637	0.746588	0.050282	-0.19251	-0.29998	0.008905	-0.28527	0.09996	0.021408	0.52315	0.027321
KRT77	-0.13697	-0.11893	0.148296	-0.21672	0.314098	0.387143	0.275377	0.108643	-0.0627	-0.28739	0.069613	-0.20452	0.339462	0.026395	0.675226	0.08638
PTPRQ	0.046791	-0.10066	0.093833	-0.19783	0.732018	0.464625	0.491539	0.143867	0.030189	-0.17546	0.120464	-0.12672	0.578933	0.121734	0.784721	0.200673
C12orf63	-0.06737	-0.14914	0.055506	-0.17938	0.618559	0.272621	0.681736	0.181821	-0.09578	-0.30288	0.087597	-0.23013	0.263306	0.020377	0.716401	0.061947
C12orf42	-0.09644	-0.26836	0.114138	-0.16443	0.475447	0.045524	0.397888	0.22161	-0.08086	-0.59908	0.199331	-0.39617	0.29661	5.45E-06	0.905365	0.00321
LOC374491	-0.01545	0.167093	-0.0331	-0.1086	0.90916	0.218365	0.806925	0.421317	-0.21745	-0.01039	0.078863	0.052026	0.073293	0.472692	0.696703	0.634344
KCNB1	0.104192	-0.4897	0.247594	-0.3988	0.440525	0.000128	0.063324	0.002121	-0.04061	-0.58719	0.107053	-0.48145	0.394364	8.95E-06	0.758018	0.000353
THSD1P	-0.01232	0.165589	-0.09534	0.088806	0.927548	0.2226	0.480501	0.511235	-0.30002	0.272832	0.01809	0.257557	0.021393	0.966709	0.546944	0.95801
ASPG	-0.04065	-0.14327	0.248073	-0.21702	0.763987	0.292162	0.062798	0.104894	0.112153	-0.34281	0.179576	-0.30511	0.770978	0.009845	0.881071	0.01961
KCNC1	0.083717	-0.0304	0.265753	-0.1255	0.535826	0.824008	0.045714	0.352269	0.148665	-0.41964	0.186765	-0.36506	0.835132	0.002055	0.887609	0.006836
TEX9	-0.01607	-0.06954	0.012425	-0.15385	0.905556	0.610555	0.926908	0.253201	-0.10154	-0.22352	0.130899	-0.1297	0.250956	0.067687	0.804301	0.19514
KIF7	0.07967	-0.15982	0.258944	-0.05417	0.55579	0.239345	0.051777	0.688978	0.171411	-0.18533	0.197118	-0.09272	0.869888	0.11145	0.900169	0.272322
ZNF710	-0.15555	-0.01023	-0.08656	0.01927	0.247916	0.940368	0.522017	0.886865	-0.23162	0.188288	-0.16303	0.071272	0.060708	0.894921	0.142301	0.681068
HDDC3	-0.11325	-0.02832	0.195771	-0.16618	0.401591	0.835874	0.144439	0.216652	-0.11779	-0.01016	-0.12783	-0.13581	0.217799	0.473278	0.20134	0.18408
KCNC2	-0.11447	-0.17989	0.108159	-0.27365	0.396489	0.184609	0.423222	0.039426	0.050648	-0.47442	0.121424	-0.38416	0.630914	0.000433	0.786566	0.004197
TEPP	-0.06691	-0.09553	0.196427	-0.19082	0.620956	0.483705	0.143073	0.155077	0.100277	-0.39626	0.223408	-0.26722	0.746357	0.003203	0.929922	0.036304
SPEM1	-0.00195	-0.12683	0.136379	-0.23325	0.988502	0.35161	0.311745	0.080783	0.060912	-0.19966	0.047351	-0.22083	0.656206	0.091702	0.621292	0.070136
EFCAB5	0.150766	-0.14274	0.178075	-0.36223	0.262945	0.293981	0.185081	0.005624	0.219927	-0.32038	0.25465	-0.24647	0.929031	0.014976	0.954307	0.049348
KCNC3	0.119144	-0.25067	0.313065	-0.15724	0.377378	0.062409	0.017732	0.24276	0.103808	-0.51201	0.228159	-0.29383	0.753814	0.000138	0.93415	0.023741

LRRC37A3	-0.04838	-0.02819	0.099679	-0.39803	0.720804	0.836632	0.46068	0.002167	-0.15609	-0.12032	-0.05699	-0.01662	0.150121	0.212877	0.355002	0.456349
ANKRD30B	0.03061	-0.24962	0.067578	-0.29011	0.821175	0.063545	0.61745	0.028593	-0.05864	-0.31285	0.155945	-0.2837	0.351008	0.018198	0.843954	0.029476
C18orf34	-0.17759	-0.34178	-0.02573	-0.07768	0.186307	0.009934	0.84932	0.565712	-0.21598	-0.28131	0.101615	-0.23472	0.074703	0.029119	0.746718	0.058185
ATP9B	0.072402	0.262583	-0.12886	0.205682	0.592503	0.050568	0.339422	0.124801	0.138083	0.245792	-0.0131	0.061975	0.819943	0.950173	0.46598	0.65879
C19orf35	-8.41E-05	-0.0308	0.212067	-0.09476	0.999505	0.821696	0.113269	0.483206	0.049974	-0.21531	0.167002	-0.25529	0.629232	0.07535	0.863566	0.043417
HSD11B1L	-0.23248	-0.23405	0.098694	-0.34852	0.081812	0.082528	0.465146	0.007888	-0.16705	-0.35472	0.035943	-0.32337	0.133577	0.007785	0.592665	0.014187
C19orf45	0.017662	-0.13289	0.242937	-0.15866	0.89625	0.328867	0.068625	0.238466	0.157355	-0.41658	0.220151	-0.15397	0.851846	0.00199	0.926909	0.153471
ZNF699	0.031022	-0.02278	-0.11484	0.111782	0.820448	0.868879	0.399342	0.412099	0.055355	0.144885	0.064992	0.243802	0.642588	0.831648	0.664277	0.948743
TMEM205	-0.02932	0.12407	-0.10659	0.111695	0.82858	0.362275	0.430037	0.408131	-0.18762	0.386729	-0.33201	0.297314	0.10591	0.996034	0.012935	0.977605
YJEFN3	-0.05778	-0.09931	0.255721	-0.14594	0.669426	0.466468	0.054866	0.278699	0.048169	-0.44103	0.193388	-0.43225	0.624716	0.001078	0.898462	0.00135
SBSN	-0.07648	-0.03105	0.080276	-0.26784	0.57534	0.821966	0.556444	0.045962	-0.10916	-0.11533	0.006629	-0.1673	0.237673	0.225297	0.517033	0.135997
ZNF829	0.045572	0.090546	-0.04727	-0.12556	0.736409	0.506901	0.726951	0.352055	-0.14793	-0.03893	-0.21296	0.012086	0.163274	0.398644	0.080075	0.53177
KCNC4	0.171187	-0.11849	0.118854	0.028681	0.202939	0.384447	0.378549	0.832278	0.079532	0.045092	0.00621	0.114125	0.700348	0.616981	0.516147	0.774936
ZNF568	0.205157	-0.08405	0.028866	0.065611	0.125788	0.537976	0.831211	0.627748	0.174476	-0.04254	0.227441	-0.02651	0.876916	0.389476	0.933524	0.430597
B3GNT8	0.027394	0.03665	0.068685	-0.26888	0.839699	0.78857	0.611683	0.043133	-0.17493	-0.12483	0.082246	-0.31385	0.122457	0.204238	0.704404	0.016833
IGFL1	0.077498	-0.06461	0.312225	-0.25519	0.570227	0.639334	0.019146	0.057672	0.389805	-0.42291	0.240257	-0.42588	0.996295	0.001705	0.944052	0.001584
C19orf68	0.007541	-0.25082	0.205832	-0.06605	0.9556	0.062241	0.124521	0.625436	0.065906	-0.26857	0.26917	-0.27488	0.66828	0.035558	0.963112	0.032243
ZNF773	0.109748	0.029011	0.125578	-0.05647	0.416402	0.831916	0.351966	0.676521	-0.04991	-0.01879	0.129492	-0.01986	0.370923	0.45068	0.801724	0.44788
C1orf187	-0.08595	-0.13115	0.138684	-0.02012	0.524963	0.335298	0.303562	0.881929	0.124178	-0.19895	0.081683	-0.2787	0.794527	0.092498	0.703128	0.030358
SPATA21	-0.08323	0.029437	0.219064	-0.22352	0.538188	0.829482	0.101587	0.094655	0.094494	-0.42197	0.046587	-0.32607	0.7339	0.001745	0.619393	0.013502
CCDC23	-0.11146	-0.0235	-0.09591	-0.20587	0.409123	0.863531	0.47787	0.124455	-0.21456	-0.07484	-0.17701	-0.08627	0.07609	0.310546	0.122376	0.284323
C1orf223	-0.03998	-0.14824	0.056568	-0.34898	0.769878	0.280101	0.678799	0.008388	0.020565	-0.30713	0.217075	-0.2948	0.553953	0.018938	0.923979	0.02336
C1orf175	0.104331	-0.30608	0.260649	-0.08024	0.439913	0.021779	0.0502	0.55295	0.141285	-0.33862	0.100292	-0.1942	0.822712	0.011445	0.741425	0.100575
FAM73A	0.031026	0.20392	-0.17457	0.169414	0.818788	0.13169	0.194011	0.207727	0.061983	0.294813	-0.07184	0.202152	0.65881	0.976646	0.319542	0.911056
C1orf118	-0.17305	-0.1404	0.152843	-0.30083	0.198005	0.302017	0.256351	0.022977	0.04691	-0.5521	0.113468	-0.45203	0.621558	3.48E-05	0.771001	0.000806
ARF1	-0.05331	0.249092	-0.17754	0.161918	0.693696	0.064128	0.186417	0.22885	-0.14302	0.537161	-0.2808	0.337839	0.171516	0.999941	0.03085	0.989169
KCND1	0.186196	-0.06023	0.166241	-0.10309	0.165514	0.659231	0.216492	0.445404	-0.02341	-0.05495	0.185297	-0.20152	0.438632	0.358407	0.888506	0.089633
PEAR1	0.275465	-0.29495	0.357472	0.079076	0.038084	0.027332	0.006335	0.55875	0.331389	-0.2641	0.351053	-0.02808	0.987767	0.038066	0.990972	0.426519
SFT2D2	0.082636	0.04137	-0.15016	0.392737	0.541125	0.762094	0.264893	0.002512	-0.01382	0.484303	-0.10807	0.465718	0.463681	0.999676	0.239906	0.999446
MIA3	0.003102	0.265516	-0.04001	0.10131	0.981728	0.047953	0.76762	0.453337	0.096407	0.261747	-0.0619	0.133123	0.738053	0.960556	0.343131	0.811104
C1orf95	0.150759	-0.18908	0.314897	-0.10282	0.26297	0.162828	0.017042	0.446581	0.103248	-0.46716	0.265424	-0.3787	0.752639	0.000532	0.96098	0.004726
FAM89A	0.04444	0.0477	0.172694	0.024051	0.745013	0.729476	0.203102	0.860334	0.234429	-0.10164	0.101294	-0.17573	0.941578	0.250756	0.746041	0.12137
KCND2	-0.08399	-0.10217	0.214426	-0.20822	0.534475	0.453687	0.10922	0.120113	-0.06235	-0.27368	0.027095	-0.24963	0.340302	0.032853	0.570118	0.047156
PFN4	-0.33258	-0.16783	-0.09266	-0.41649	0.01148	0.216318	0.492989	0.001271	-0.33599	-0.41992	0.006984	-0.25255	0.011218	0.001834	0.51816	0.045198
KCND3	0.145182	0.1627	0.047101	0.365418	0.28124	0.230887	0.727898	0.005188	0.54343	0.179489	0.091311	0.094491	0.999952	0.883678	0.724594	0.733893
RBM43	0.086516	-0.13334	0.051065	-0.05463	0.526072	0.331798	0.708584	0.689223	-0.13568	-0.2894	-0.02123	-0.03185	0.1843	0.025543	0.444947	0.416789
LOC375295	0.050175	-0.22594	0.284346	-0.0873	0.710896	0.094059	0.032059	0.518457	0.021379	-0.37687	0.11936	-0.2226	0.556075	0.004916	0.782585	0.068513
CERKL	-0.11569	-0.15756	0.001973	-0.23881	0.391448	0.246145	0.988381	0.073616	-0.18344	-0.3237	0.071926	-0.18834	0.111178	0.0141	0.680653	0.10502
KCNE1	-0.17102	-0.16892	0.061163	-0.22974	0.203385	0.213294	0.651297	0.085593	-0.17598	-0.32667	0.094638	-0.22864	0.121033	0.013353	0.731837	0.063212
C2orf62	-0.20582	-0.30564	0.137501	-0.35314	0.124536	0.02198	0.307746	0.007049	-0.24456	-0.43696	0.083674	-0.33152	0.050711	0.001198	0.707628	0.012204
RBM44	0.034855	-0.09755	-0.0119	-0.17862	0.796874	0.474445	0.930012	0.183713	0.159397	-0.37866	0.3036	-0.37602	0.854999	0.00473	0.978691	0.005006
AQP12A	-0.10096	-0.2341	0.091075	-0.03939	0.454909	0.082466	0.500459	0.771094	0.019508	-0.29688	0.108326	-0.15286	0.551194	0.02256	0.760624	0.155253
LHFPL4	0.000582	-0.11727	0.267691	-0.23925	0.99657	0.389356	0.044098	0.07307	0.069676	-0.41488	0.025799	-0.33837	0.675374	0.002301	0.566012	0.011498
LOC375337	-0.0634	-0.20228	0.190763	-0.10362	0.639398	0.134892	0.155198	0.443055	0.193747	-0.35421	0.075911	-0.20874	0.901502	0.007865	0.689915	0.08194
C3orf62	-0.12911	0.358818	-0.20088	-0.06593	0.338489	0.006614	0.13405	0.626053	-0.06785	0.393674	-0.05404	0.158799	0.327071	0.996603	0.362206	0.854079
TMEM110	-0.00885	-0.18626	0.211573	-0.03794	0.947889	0.169289	0.11413	0.779342	0.068117	-0.22501	0.051972	-0.22859	0.673572	0.066364	0.632717	0.063255
LOC100133	-0.07826	-0.14479	0.076408	-0.16175	0.562805	0.287018	0.572134	0.229346	-0.10073	-0.28542	0.13995	-0.19677	0.252685	0.027256	0.820407	0.094981
LRRC33	0.144672	-0.2437	0.177665	0.282437	0.282953	0.070303	0.186112	0.033283	0.241854	-0.13046	0.143316	-0.16793	0.947312	0.193755	0.826186	0.132302
KCNF1	-0.01662	-0.09899	0.22674	-0.14521	0.902315	0.467924	0.089869	0.281137	0.170049	-0.42171	0.217858	-0.36736	0.870729	0.001756	0.924733	0.006012
C5orf34	0.017106	0.129545	-0.31738	0.015728	0.899497	0.341311	0.016143	0.907555	-0.05386	0.361773	-0.1357	0.243333	0.362647	0.992695	0.187057	0.946378

MAST4	0.171632	0.246934	0.034927	0.023805	0.201749	0.066545	0.796462	0.860475	0.208622	0.273957	0.011173	0.173453	0.917943	0.967288	0.529036	0.875505
C5orf25	5.79E-05	-0.1731	-0.17271	0.040374	0.999659	0.202026	0.198898	0.765562	0.018604	0.074768	0.063562	-0.03203	0.548833	0.68929	0.660858	0.416325
KCNG1	0.039186	-0.21252	0.223845	-0.15564	0.772269	0.115826	0.094157	0.247636	0.151175	-0.29852	0.195644	-0.28512	0.842041	0.021943	0.901123	0.027388
GUSBL2	0.071593	0.193558	0.019548	0.075018	0.596655	0.152905	0.885238	0.579162	0.124303	0.199902	-0.17009	0.022989	0.794764	0.908566	0.131991	0.560267
GJB7	-0.08022	-0.22668	0.041062	-0.35473	0.553061	0.092951	0.761684	0.006779	-0.21712	-0.42436	-0.06042	-0.1723	0.075975	0.001835	0.348408	0.128861
VWC2	0.040444	-0.15216	0.246748	-0.13535	0.765166	0.262914	0.064262	0.315435	-0.06841	-0.29162	0.121884	-0.30438	0.327609	0.025968	0.784697	0.021031
KCNH1	-0.19266	0.083258	-0.01896	-0.18023	0.151048	0.541826	0.888647	0.179731	-0.00617	0.166017	-0.03994	0.140729	0.483956	0.862127	0.398426	0.821754
C7orf52	-0.11358	-0.1703	0.114602	-0.29155	0.400199	0.209536	0.395962	0.027774	-0.03507	-0.36347	0.173563	-0.31376	0.408521	0.006515	0.872901	0.016861
SLC26A5	-0.0365	0.232116	-0.05881	-0.29418	0.789403	0.088146	0.666784	0.027755	-0.1869	0.097717	-0.15954	-0.17471	0.106805	0.74088	0.147593	0.122765
LHFPL3	-0.01646	-0.03115	0.209532	-0.1775	0.903293	0.819708	0.117747	0.186529	-0.00464	-0.28826	0.186117	-0.18449	0.48778	0.026025	0.889544	0.109831
SPATC1	0.004581	-0.05577	0.268915	-0.14289	0.97302	0.683088	0.043103	0.288994	0.096277	-0.3255	0.215896	-0.27626	0.737773	0.013644	0.922832	0.031552
KCNH2	-0.04749	-0.10142	0.231528	-0.20548	0.725732	0.457039	0.083113	0.12519	0.012628	-0.27675	0.014166	-0.30681	0.532807	0.032857	0.536359	0.020183
ENHO	0.14041	-0.27676	0.267359	-0.21288	0.297522	0.038934	0.044372	0.111867	0.218097	-0.42977	0.285737	-0.36354	0.927317	0.001438	0.971462	0.006506
PTAR1	0.017935	0.172592	-0.09825	0.250814	0.894655	0.203372	0.467154	0.059855	0.169505	0.301098	-0.01264	0.212748	0.869954	0.978994	0.467166	0.922128
C9orf102	0.116478	0.122862	-0.16066	0.063021	0.388219	0.367004	0.232548	0.641417	0.026135	0.269485	-0.10143	0.273613	0.568441	0.964938	0.253679	0.967112
C9orf119	-0.04937	-0.25493	0.097665	-0.17527	0.715356	0.05794	0.469833	0.192216	-0.12045	-0.28974	-0.05735	-0.14646	0.212621	0.025402	0.354119	0.165716
C9orf50	-0.04185	-0.05803	0.239076	-0.2078	0.757246	0.670945	0.073283	0.120873	0.054897	-0.40545	0.091006	-0.36869	0.641457	0.002592	0.723925	0.005847
PNPLA7	-0.00098	-0.19553	0.162653	-0.0878	0.994253	0.148678	0.226713	0.516056	0.21815	-0.33752	0.168879	-0.32995	0.927367	0.010898	0.866282	0.012567
AGRN	-0.03211	-0.12436	0.103592	0.046344	0.812593	0.361137	0.443175	0.73211	-0.03249	0.269864	0.118478	0.230871	0.416102	0.963497	0.778155	0.936476
KCNJ1	0.243215	-0.20054	0.160402	-0.26012	0.068299	0.138358	0.233296	0.050682	0.040077	-0.33438	0.012424	-0.33869	0.60428	0.011565	0.53228	0.010656
KCNJ2	0.030809	-0.20989	-0.20544	0.115971	0.821663	0.124045	0.128774	0.394687	-0.28207	0.305359	-0.21077	0.267136	0.02877	0.980473	0.082297	0.96365
FLJ46361	-0.29234	-0.30937	0.072139	-0.08021	0.027337	0.020335	0.59385	0.553093	-0.09289	-0.46948	0.013677	-0.26541	0.269604	0.000498	0.535527	0.037322
KCNJ3	0.015427	-0.12397	0.292394	-0.09908	0.909317	0.362653	0.027307	0.46338	0.175586	-0.49834	0.178247	-0.26443	0.878435	0.000212	0.879297	0.03788
KCNJ4	0.110148	-0.04338	0.240745	-0.285	0.414693	0.750919	0.071239	0.031647	0.177102	-0.29831	0.148264	-0.29922	0.88049	0.022023	0.834471	0.021687
LRRC10	-0.01582	-0.12013	0.135911	-0.18959	0.907039	0.377853	0.313424	0.157801	0.080478	-0.05192	0.104269	-0.21326	0.702522	0.365917	0.752266	0.07736
KCNJ5	0.055041	-0.27507	0.160894	-0.15653	0.684262	0.040191	0.231844	0.244914	0.085109	-0.28338	0.211784	-0.22682	0.713069	0.028167	0.918735	0.064778
RAB15	-0.04812	0.331883	-0.10473	-0.24561	0.72225	0.01246	0.438138	0.065542	-0.0454	0.02752	-0.1183	-0.12192	0.382241	0.572031	0.219471	0.20978
KCNJ6	-0.04253	-0.10934	0.042892	-0.16268	0.755646	0.426797	0.753612	0.230939	-0.05229	-0.36543	0.052304	-0.3355	0.365008	0.006257	0.633533	0.011323
KCNJ8	0.216748	-0.25344	0.253937	0.107157	0.105345	0.059476	0.05664	0.427555	0.185696	-0.37717	0.200559	-0.19644	0.891691	0.004885	0.906749	0.09536
RNF126P1	0.063988	-0.07241	0.093124	-0.12857	0.636297	0.595879	0.490826	0.340534	0.037464	-0.12123	0.125689	-0.09697	0.597619	0.211115	0.794658	0.260729
SLC27A1	-0.14641	-0.29755	0.079794	-0.16601	0.281611	0.027369	0.558823	0.221396	-0.1375	0.004003	0.154439	-0.08095	0.183865	0.51041	0.841578	0.298541
KCNJ9	0.082008	-0.09141	0.283051	-0.25059	0.544216	0.502828	0.032885	0.060091	0.161635	-0.40634	0.218908	-0.27048	0.858403	0.002538	0.925735	0.03453
KCNJ10	-0.15968	-0.22572	0.125595	-0.13052	0.235427	0.094394	0.351903	0.333198	0.051811	-0.45353	-0.03454	-0.531	0.633809	0.000774	0.410891	7.34E-05
RPS10P7	-0.158	0.059411	-0.13712	-0.01929	0.249285	0.669566	0.318136	0.888836	-0.03306	-0.25258	-0.15319	-0.26988	0.413661	0.045179	0.157533	0.03485
KCNJ11	0.116451	-0.11581	0.333713	-0.1758	0.38833	0.395349	0.011186	0.190843	0.16721	-0.25577	0.174506	-0.2648	0.866653	0.043117	0.874206	0.037667
KCNJ12	-0.0857	-0.17321	0.168271	-0.16394	0.526177	0.201723	0.210856	0.223013	0.044951	-0.36728	0.127072	-0.25385	0.616626	0.006021	0.797245	0.044347
KCNJ13	0.010759	-0.1101	0.090242	-0.19191	0.93669	0.419216	0.5044	0.152682	-0.05614	-0.28377	-0.12496	-0.20922	0.357079	0.029444	0.209495	0.083902
ZC3H6	-0.00578	0.010984	-0.04914	-0.13301	0.965985	0.935963	0.7166	0.323959	0.020389	-0.15627	0.177026	-0.19623	0.553493	0.149845	0.877651	0.095607
ARF3	-0.05642	0.192194	-0.04797	0.262404	0.67679	0.155877	0.723067	0.048618	-0.22233	0.579794	-0.15776	0.457439	0.068764	0.999988	0.15034	0.999304
KCNJ14	-0.10445	0.007027	0.127135	-0.24737	0.439377	0.959005	0.345979	0.063573	-0.07623	-0.28916	0.015622	-0.25515	0.307288	0.025645	0.540563	0.043508
KLHL30	0.016297	-0.22905	0.245639	-0.15869	0.904226	0.089496	0.065508	0.238379	0.131108	-0.36997	0.164909	-0.26886	0.807441	0.005692	0.860495	0.035399
TESSP5	-0.02492	-0.06152	0.2316	-0.13922	0.853998	0.6524	0.083014	0.301676	0.078855	-0.29177	0.147196	-0.20472	0.698788	0.024564	0.832703	0.086162
KCNJ15	-0.09217	0.313292	-0.10808	0.411287	0.49529	0.018717	0.42355	0.001481	-0.11116	0.404549	-0.09331	0.404138	0.231036	0.997353	0.27104	0.997328
KCNJ16	0.079538	0.164414	-0.11045	-0.35129	0.556447	0.225943	0.413394	0.007375	-0.18113	0.257852	-0.04207	0.286932	0.116878	0.956376	0.393142	0.972
KCNK1	-0.21729	0.300713	-0.17755	-0.0419	0.107682	0.025692	0.190486	0.759151	-0.14966	0.444124	-0.27338	0.097028	0.160422	0.999006	0.034604	0.739396
KCNK2	0.180826	-0.01135	0.057309	-0.34058	0.182308	0.934441	0.674826	0.010214	0.071226	-0.26497	0.287635	-0.2397	0.680958	0.037568	0.972313	0.054301
CA13	-0.11793	0.058104	-0.06561	0.258295	0.38229	0.670572	0.627734	0.052387	0.034603	0.240507	-0.00829	0.172813	0.590292	0.946305	0.478439	0.874616
KCNK3	0.0153	-0.13997	0.225841	-0.18138	0.910062	0.303518	0.091184	0.176921	0.187782	-0.44395	0.36144	-0.31246	0.891632	0.001126	0.992037	0.018321
KCNMA1	0.34831	-0.33004	0.279021	0.168064	0.007928	0.012987	0.035568	0.211426	0.439586	-0.48678	0.32911	-0.25739	0.998881	0.000301	0.986361	0.042091
ENTPD8	0.001812	0.024513	0.28015	-0.20252	0.989324	0.85768	0.034799	0.130833	0.13838	-0.30598	0.148425	-0.27077	0.820464	0.019319	0.834737	0.034373

KCNMB1	0.415022	-0.23103	0.291995	0.121134	0.001327	0.086691	0.027528	0.369405	0.402422	-0.41627	0.337151	-0.2396	0.997219	0.002004	0.988237	0.054384
ARF4	0.054703	0.249614	-0.15836	0.224695	0.688844	0.06608	0.243735	0.095933	-0.00152	0.402507	-0.1907	0.322816	0.495999	0.997224	0.104779	0.98567
KCNN1	0.036504	-0.02148	0.118678	-0.35949	0.787479	0.875135	0.379258	0.006025	0.120144	-0.25016	0.104634	-0.37956	0.786786	0.046797	0.753023	0.00464
KCNN2	-0.01041	-0.0369	0.24275	-0.14438	0.938717	0.787151	0.068845	0.283942	0.057627	-0.48265	0.180692	-0.37126	0.648178	0.000341	0.882547	0.005539
KCNN3	0.250224	-0.44279	0.203795	-0.08533	0.060479	0.000632	0.128376	0.527978	-0.23005	-0.29197	0.082832	-0.09889	0.062017	0.024484	0.705728	0.256608
KCNN4	0.127895	-0.22281	0.180429	0.114334	0.343083	0.098828	0.179246	0.397073	0.267856	-0.27591	0.208145	-0.18481	0.964049	0.031725	0.914979	0.109425
KCNQ1	-0.05579	0.012693	0.199837	0.016076	0.682958	0.926715	0.139767	0.906385	-0.16877	0.035747	0.187825	-0.09248	0.133874	0.592167	0.888943	0.272842
HSN2	-0.02602	0.164819	-0.06323	-0.00441	0.847624	0.224788	0.640296	0.974015	0.165975	-0.04022	0.09023	0.029531	0.864853	0.395349	0.72222	0.577232
KCNQ2	-0.07392	-0.12838	0.180287	-0.21408	0.584749	0.345694	0.179593	0.109806	0.025623	-0.33325	0.180915	-0.28287	0.566346	0.012643	0.88005	0.029864
KCNQ3	-0.05425	-0.14976	0.181801	-0.14395	0.688574	0.270621	0.175906	0.285394	0.091793	-0.46121	0.201952	-0.41535	0.727982	0.000628	0.908301	0.00205
KCNS1	-0.033	-0.04459	0.189771	-0.22476	0.807463	0.744178	0.157396	0.092787	0.16484	-0.22261	0.250367	-0.12804	0.863185	0.068512	0.951421	0.198223
APITD1	-0.1871	0.088802	-0.14914	-0.26797	0.163442	0.515156	0.268196	0.04387	-0.34451	-0.00595	-0.14186	0.092787	0.009524	0.484349	0.176295	0.730167
KCNS2	-0.08145	-0.20295	0.221024	-0.19196	0.546978	0.133569	0.098487	0.152579	0.039177	-0.43018	0.237033	-0.3604	0.601989	0.001423	0.941531	0.006939
CATSPER4	-0.12698	-0.08974	0.182726	-0.07862	0.346568	0.510704	0.17368	0.561011	0.015062	-0.44137	0.127639	-0.42532	0.539569	0.001068	0.798299	0.001606
C21orf123	0.17777	-0.04753	0.272438	-0.17454	0.185847	0.727948	0.04034	0.194087	0.147144	-0.2359	0.047888	-0.15749	0.835427	0.057251	0.622624	0.14794
NHLRC1	-0.10494	-0.08098	0.010433	-0.01953	0.437249	0.55299	0.938602	0.885332	0.026218	-0.10126	-0.0904	-0.02278	0.568656	0.251549	0.277412	0.440264
RNF148	0.162697	-0.05791	0.307243	0.167415	0.226587	0.67161	0.020084	0.213219	0.227118	-0.20189	0.022975	-0.15688	0.935481	0.08923	0.559541	0.148886
MALAT1	0.039449	0.241827	-0.0943	0.17352	0.770786	0.072557	0.48534	0.196759	0.267637	0.194262	-0.07111	0.17844	0.963928	0.902108	0.321247	0.882284
ARL4D	0.060378	0.176726	-0.15202	0.159508	0.655489	0.192593	0.258962	0.235944	0.108109	0.453841	-0.11428	0.402127	0.760182	0.99913	0.230056	0.996912
KCNS3	0.18356	0.041278	-0.12172	0.405191	0.17169	0.76261	0.367062	0.001768	-0.09706	0.466676	-0.0587	0.301908	0.260537	0.999461	0.350863	0.979282
KDR	0.170438	-0.15411	0.163123	0.471147	0.204951	0.256777	0.225355	0.000216	0.33452	-0.04343	0.111723	0.091996	0.988465	0.387207	0.767508	0.728428
KEL	0.109989	-0.20899	0.19781	0.036364	0.415371	0.12215	0.140222	0.788279	-0.01897	-0.36682	0.07944	-0.17439	0.450219	0.00608	0.698024	0.123196
KHK	0.062635	-0.20648	0.305841	0.06712	0.646523	0.130415	0.021888	0.623066	0.262076	-0.22789	0.168065	-0.17346	0.958994	0.066083	0.862254	0.127243
KIF2A	-0.05545	0.099336	-0.23446	0.051503	0.682044	0.466369	0.07918	0.70359	-0.21942	0.165921	-0.00371	0.183603	0.071436	0.864773	0.490343	0.889034
KIF3C	0.097018	-0.28746	0.22839	-0.1696	0.472793	0.031695	0.087493	0.207214	0.038236	-0.43431	0.140567	-0.42632	0.599589	0.001282	0.821475	0.001567
KIF5A	-0.056	-0.10347	0.088541	-0.26192	0.681857	0.447914	0.516395	0.051171	0.078222	-0.37487	0.125205	-0.39656	0.697324	0.005131	0.793748	0.003182
KIF5B	0.015053	0.244263	-0.21926	0.048991	0.911509	0.069637	0.101272	0.717426	0.127818	0.168495	0.022037	0.122363	0.798632	0.865729	0.556455	0.788362
ACAT1	0.20039	-0.16051	-0.00674	0.206012	0.135018	0.2373	0.960327	0.124185	0.050122	-0.04482	0.127256	0.084355	0.629601	0.383698	0.797586	0.711364
KIF5C	0.03961	-0.12263	0.165186	-0.10539	0.769873	0.367925	0.219464	0.435267	0.195905	-0.37469	0.254746	-0.33177	0.904021	0.005151	0.95437	0.012146
KIFC3	0.032536	-0.28031	0.22896	-0.00195	0.810128	0.036396	0.086685	0.988518	0.03542	-0.28998	0.058294	-0.2432	0.592387	0.025301	0.648163	0.051696
KIR2DL1	0.05969	0.086719	0.126051	-0.2465	0.65917	0.525098	0.35014	0.064537	-0.04646	-0.32752	-0.04841	-0.17237	0.379584	0.013144	0.37607	0.125997
KIR2DL4	-0.0112	-0.08653	0.178926	0.067086	0.934096	0.525986	0.182957	0.620015	0.110779	-0.25503	0.150359	-0.11729	0.768196	0.043586	0.837903	0.218779
KIR2DS4	0.178996	-0.24267	0.230932	-0.15081	0.186848	0.074236	0.086824	0.267233	0.084506	-0.43206	0.161076	-0.25845	0.709498	0.00152	0.851882	0.043244
ARF5	-0.09818	0.016251	-0.11235	-0.12571	0.467487	0.905371	0.405375	0.35144	-0.34866	0.162327	-0.21961	0.021267	0.008781	0.859444	0.073603	0.555784
KIR3DL1	-0.023	-0.19861	0.163643	-0.1842	0.865135	0.14227	0.223861	0.170167	0.09999	-0.29862	0.147047	-0.39521	0.745746	0.021908	0.832457	0.00328
KIR3DL2	0.15453	-0.12002	0.331347	-0.19119	0.251077	0.378271	0.011811	0.15426	0.292047	-0.33834	0.146587	-0.4307	0.975547	0.010729	0.83169	0.001404
KISS1	0.003196	-0.25235	0.192361	-0.12208	0.981173	0.060613	0.151703	0.365652	0.020113	-0.33601	0.133409	-0.2515	0.552774	0.011213	0.808851	0.045892
KIT	0.216888	-0.01988	-0.1225	0.243229	0.105116	0.884346	0.363974	0.068282	-0.02903	0.414495	0.046592	0.486557	0.424053	0.997908	0.619404	0.999697
KLK1	-0.03028	-0.1736	0.120783	-0.14568	0.823099	0.200715	0.370803	0.279568	0.209288	-0.33938	0.181633	-0.24669	0.918629	0.010517	0.883782	0.049192
KLK2	0.1026	-0.34853	0.2325	-0.3337	0.451776	0.009116	0.084645	0.011958	0.122192	-0.38674	0.189745	-0.29795	0.790736	0.003965	0.894059	0.022156
KLKB1	-0.18679	-0.08584	-0.02327	-0.11073	0.16415	0.529328	0.863573	0.412233	-0.03729	-0.41216	0.017039	-0.23798	0.402814	0.002212	0.544227	0.055621
ARF6	0.03669	0.245329	-0.12186	-0.14808	0.786424	0.06839	0.366538	0.271636	-0.04335	0.247123	-0.14474	-0.06208	0.387406	0.951112	0.1714	0.34096
KLRB1	-0.26271	0.133302	-0.27528	0.467187	0.050449	0.331935	0.040035	0.000283	-0.43041	0.009869	-0.30625	0.252253	0.001415	0.525949	0.020378	0.954606
KLRC1	-0.26165	-0.11729	-0.05406	0.408278	0.051424	0.393762	0.692292	0.001786	-0.24524	0.182325	-0.09813	0.389403	0.050224	0.887389	0.260662	0.996262
KLRC2	-0.04962	-0.11404	0.149662	0.339408	0.713948	0.40264	0.266498	0.009798	-0.12771	-0.10935	0.121407	-0.03031	0.198832	0.234711	0.786533	0.420757
KLRC3	-0.27645	0.054645	-0.01413	0.393002	0.03737	0.689157	0.91691	0.002494	0.013512	-0.19081	0.096706	-0.20544	0.535509	0.101996	0.73629	0.085394
KLRD1	-0.08106	-0.25796	0.075995	0.431569	0.552586	0.057237	0.577748	0.000897	0.011299	-0.31352	0.110267	-0.16413	0.529362	0.017989	0.761938	0.140657
KNG1	0.030365	-0.19416	0.151417	-0.24543	0.822584	0.151618	0.260867	0.06575	0.000832	-0.33181	0.010557	-0.30923	0.50219	0.012136	0.527436	0.018257
ARG1	0.094246	-0.10936	0.120794	-0.3036	0.485597	0.422355	0.370757	0.021685	0.012268	-0.36697	0.114725	-0.3827	0.532247	0.00606	0.773501	0.004333
KLC1	0.205332	0.093351	-0.01692	0.2647	0.125459	0.493775	0.900578	0.046611	0.231833	0.029914	-0.10484	0.094903	0.937286	0.57733	0.249114	0.73241

KIF11	-0.07628	0.35986	-0.24086	-0.11459	0.576299	0.006964	0.073742	0.400377	-0.17356	0.622804	-0.25618	0.360566	0.124351	0.999998	0.044696	0.993084
KIFC1	-0.02699	0.136881	0.09886	-0.15384	0.844898	0.323652	0.472703	0.262105	-0.18082	0.553771	-0.22344	0.280743	0.114571	0.999967	0.070053	0.970614
KIF25	-0.06449	0.163798	0.15415	-0.21989	0.63366	0.227713	0.252257	0.100265	0.230527	-0.26993	0.117335	-0.3686	0.938381	0.034825	0.778641	0.005858
KIF22	-0.24987	0.100719	-0.12901	0.021874	0.063278	0.464377	0.343325	0.872867	-0.25581	0.624422	-0.27641	0.367669	0.043091	0.999998	0.03303	0.994027
KPNA1	-0.07375	0.190639	-0.27023	0.075509	0.585627	0.159316	0.042054	0.576673	-0.06275	0.248399	-0.18226	0.134361	0.339343	0.952	0.115405	0.813334
KPNB1	-0.02323	0.27902	-0.24926	0.291505	0.865033	0.039122	0.063947	0.029272	-0.08225	0.553157	-0.16984	0.478107	0.293415	0.999967	0.132338	0.999611
KPNA2	-0.13752	0.31382	-0.27294	0.164549	0.312146	0.019639	0.04183	0.225558	-0.20914	0.67478	-0.29745	0.504383	0.08152	1	0.023608	0.999824
KPNA3	-0.0922	0.211377	-0.23374	-0.08112	0.495136	0.117852	0.080134	0.548611	-0.22132	0.175394	-0.06595	0.190933	0.069687	0.878174	0.333448	0.898147
ARG2	0.177288	0.075491	-0.12955	0.128073	0.187062	0.580283	0.336819	0.342403	0.298225	0.327379	-0.04523	0.011447	0.977946	0.986821	0.38398	0.530094
KPNA4	0.172888	0.169438	-0.20891	0.05589	0.198419	0.211882	0.118866	0.679656	0.139622	0.392375	-0.03215	0.285316	0.822633	0.996502	0.416966	0.972698
KPNA5	0.010751	0.004488	-0.09468	0.061574	0.936738	0.973814	0.483563	0.649106	-0.0107	-0.00928	0.05187	0.041671	0.471855	0.475593	0.632465	0.608329
TNPO1	0.056989	0.234708	-0.20432	0.210285	0.673704	0.08165	0.127382	0.116402	0.272506	0.196155	-0.04533	0.158012	0.96654	0.904311	0.383732	0.852865
IPO5	0.074295	0.195063	-0.30986	0.130054	0.582837	0.149676	0.018996	0.334929	-0.00537	0.454703	-0.20363	0.392166	0.485865	0.99925	0.089856	0.996486
KRAS	-0.15119	0.452854	-0.34328	0.109732	0.261606	0.000457	0.008942	0.416468	-0.00376	0.524974	-0.18418	0.344565	0.490112	0.99991	0.112924	0.990485
KRTAP5-9	-0.05803	-0.02321	0.089403	-0.29388	0.668113	0.865202	0.508389	0.026498	0.005415	-0.05145	0.055451	-0.12199	0.514245	0.367096	0.641245	0.209646
KRT1	0.122888	-0.04102	0.120733	-0.20995	0.362459	0.764042	0.371002	0.116992	0.14116	-0.35504	0.110946	-0.36442	0.825297	0.007735	0.765943	0.00639
KRT2	-0.08667	0.179191	0.03828	-0.30601	0.521493	0.186361	0.777399	0.020616	0.160819	0.136535	-0.01825	-0.06241	0.857168	0.817211	0.452654	0.340149
KRT3	-0.10908	0.153819	0.050513	-0.23829	0.419264	0.257692	0.709034	0.074255	0.114849	0.11714	-0.05615	-0.08155	0.776381	0.780916	0.357039	0.295019
KRT4	0.009275	0.285794	-0.29447	-0.24265	0.945908	0.034417	0.027593	0.07156	-0.07302	0.653965	-0.23613	0.306965	0.314814	1	0.059188	0.981008
KRT5	0.055772	0.217315	-0.2437	0.140403	0.683078	0.110993	0.070303	0.302022	-0.04939	0.771024	-0.31514	0.47461	0.372239	1	0.01749	0.99957
KRT6A	-0.08659	0.367582	-0.15334	0.001956	0.525737	0.005766	0.259196	0.988587	-0.00997	0.617407	-0.22139	0.400567	0.473785	0.999998	0.071937	0.997097
KRT6B	-0.05826	0.296	-0.10288	-0.00367	0.669718	0.028221	0.450534	0.978607	-0.04993	0.563944	-0.24342	0.368412	0.372325	0.999973	0.055664	0.993615
KRT7	-0.08191	-0.04789	-0.01529	0.11835	0.544688	0.725968	0.910102	0.380588	-0.02094	0.421738	-0.18323	0.166812	0.445072	0.998245	0.114142	0.866074
KRT8	-0.03475	0.205951	-0.19137	-0.07844	0.799323	0.131422	0.157697	0.565547	-0.19912	0.605788	-0.36522	0.333638	0.092314	0.999996	0.006814	0.988272
KRT9	-0.09617	-0.20084	0.127185	-0.1086	0.47671	0.137742	0.345788	0.421339	0.07647	-0.33954	0.098973	-0.26887	0.693261	0.010484	0.741133	0.035396
KRT10	-0.01561	0.234873	-0.10857	-0.28651	0.910821	0.090474	0.434545	0.035695	-0.0587	0.413198	-0.02277	0.184625	0.350858	0.997607	0.44169	0.887649
KRT12	-0.04859	-0.07392	0.114319	-0.28816	0.724651	0.595256	0.405936	0.032886	-0.03055	-0.04323	-0.01893	-0.16572	0.42014	0.387726	0.450888	0.135526
KRT13	-0.08307	0.374885	-0.21849	-0.15214	0.542756	0.004802	0.105711	0.262986	-0.01329	0.61309	-0.24068	0.290543	0.465079	0.999997	0.055624	0.974933
KRT14	0.091603	0.152684	-0.07296	-0.02771	0.497969	0.261261	0.589628	0.837896	0.083117	0.355781	-0.0916	0.173411	0.706372	0.99177	0.277147	0.87269
KRT15	0.015074	0.248814	-0.33331	0.16309	0.911385	0.064436	0.01129	0.22545	-0.09801	0.681896	-0.32985	0.468196	0.258498	1	0.013458	0.999483
KCTD8	-0.04033	-0.18392	0.267726	-0.19265	0.76579	0.17482	0.04407	0.151071	0.106775	-0.37756	0.184983	-0.30464	0.759992	0.004844	0.888106	0.019769
KCTD4	0.092922	-0.08071	0.092084	-0.18044	0.491772	0.554292	0.495703	0.179227	0.04836	0.012426	-0.05035	-0.06223	0.623796	0.532285	0.372746	0.342328
IL31	0.064221	-0.14877	0.219938	-0.26064	0.635066	0.273843	0.100196	0.050207	0.191497	-0.37618	0.229732	-0.46326	0.898826	0.00499	0.935507	0.000593
KRTAP10-4	0.047	0.045437	0.175094	-0.15054	0.728463	0.739495	0.192666	0.263668	0.256661	-0.19341	0.198003	-0.27085	0.95745	0.09889	0.903852	0.034333
KRTAP10-6	-0.11952	-0.24703	0.040316	-0.06531	0.375882	0.066441	0.765888	0.629338	0.224865	-0.32439	0.200892	-0.37261	0.93351	0.013923	0.907122	0.005383
KRTAP10-7	0.151667	-0.12909	0.284475	-0.24574	0.260073	0.343025	0.031978	0.06539	0.205745	-0.36771	0.217419	-0.29603	0.91493	0.005967	0.92431	0.022885
KRTAP10-9	-0.00111	-0.08065	0.197305	-0.16539	0.993455	0.554591	0.141258	0.218884	0.11607	-0.3177	0.293269	-0.26302	0.778805	0.015717	0.974719	0.038693
KRTAP10-1	0.089802	-0.13631	0.271031	-0.131	0.506488	0.316467	0.041426	0.331403	0.141808	-0.37129	0.185428	-0.30467	0.826412	0.005536	0.888672	0.01976
KRTAP10-1	0.247559	-0.11411	0.338001	-0.15393	0.063362	0.40235	0.010126	0.252956	0.135023	-0.37376	0.294064	-0.24916	0.81452	0.005254	0.975044	0.047475
KRTAP10-2	0.045785	0.014828	0.277838	-0.21072	0.735223	0.913625	0.036389	0.115625	0.223864	-0.38567	0.249959	-0.33477	0.93262	0.004061	0.951138	0.011481
KRTAP10-5	-0.22871	-0.10075	0.019623	-0.37978	0.087033	0.459993	0.884803	0.003571	0.114586	-0.28771	0.244563	-0.31652	0.775856	0.02626	0.947288	0.016053
KRTAP10-8	-0.10772	-0.05643	0.160692	-0.21932	0.425135	0.679555	0.23244	0.101185	0.079746	-0.27511	0.020752	-0.24693	0.700841	0.032128	0.553814	0.049024
KRTAP10-3	-0.02935	0.029853	0.122414	-0.10621	0.828402	0.827112	0.364329	0.431688	0.078388	-0.2939	0.237234	-0.26104	0.697709	0.023714	0.94169	0.039866
KRTAP12-3	-0.14296	-0.06453	0.089705	-0.12459	0.28875	0.636574	0.50695	0.355796	0.046161	-0.29863	0.14816	-0.32331	0.619674	0.021903	0.834298	0.014202
KRTAP12-4	0.039483	-0.15143	0.2403	-0.21858	0.770591	0.265238	0.071779	0.102359	0.156249	-0.45343	0.16076	-0.35434	0.850122	0.000776	0.854275	0.007845
KRTAP10-1	0.119054	-0.04334	0.252515	-0.12815	0.377742	0.751139	0.058086	0.342104	0.22455	-0.38895	0.306562	-0.31987	0.933231	0.003776	0.979731	0.015114
AMIGO3	0.11605	-0.18368	0.265078	-0.02532	0.389977	0.175386	0.046287	0.851676	0.275898	-0.01599	0.151789	-0.06174	0.968269	0.45799	0.84022	0.341777
MRGPRG	-0.02118	0.031402	0.167972	-0.17879	0.87573	0.818285	0.21168	0.183283	-0.02317	-0.25221	0.103373	-0.24888	0.439272	0.045422	0.750399	0.047667
KRT16	0.017305	0.128214	0.001669	-0.16211	0.90116	0.360224	0.990443	0.241526	-0.04044	0.377466	-0.21193	0.191217	0.395995	0.994709	0.083627	0.895854
RHOA	-0.01666	0.276136	-0.26069	0.120376	0.902101	0.039394	0.050166	0.372427	-0.11752	0.435898	-0.15984	0.364081	0.21833	0.998769	0.147135	0.993566

ZKSCAN4	-0.05875	0.03613	-0.00874	-0.11702	0.664219	0.791503	0.94853	0.386015	0.025959	0.137587	-0.03451	0.016307	0.567986	0.819071	0.41098	0.542828
GUSBL1	-0.02866	0.180875	0.072255	-0.01844	0.8324	0.182187	0.593256	0.891693	0.173681	0.009747	0.095152	-0.05191	0.87582	0.525631	0.732947	0.365947
C6orf98	0.23311	-0.17716	0.388796	-0.08464	0.08097	0.191496	0.0028	0.531344	0.193699	-0.38449	0.162428	-0.24008	0.901446	0.004167	0.856796	0.054017
SUMO4	-0.02761	0.151054	0.023671	0.035217	0.838443	0.266448	0.861256	0.794807	0.297236	0.045753	-0.05665	-0.10036	0.97631	0.617317	0.357464	0.255936
C6orf173	0.06448	0.179261	-0.07545	0.022935	0.639999	0.19463	0.584072	0.867994	-0.08137	0.621001	-0.0817	0.399685	0.297586	0.999997	0.299028	0.996737
C6orf174	-0.03264	-0.23796	0.265312	0.022456	0.809505	0.077388	0.046088	0.868309	-0.14978	-0.44029	-0.09756	-0.37109	0.160231	0.001099	0.261884	0.005559
C6orf204	0.183047	0.114388	-0.00934	0.203174	0.172912	0.401215	0.945052	0.129569	0.393726	-0.26199	0.174738	-0.18857	0.996607	0.039297	0.874526	0.104735
NPSR1	0.027742	-0.05669	0.075813	-0.29092	0.83917	0.681004	0.578665	0.029613	0.193798	-0.26014	0.198856	-0.37071	0.898949	0.042188	0.902177	0.006091
KRT17	0.19651	0.155047	-0.03456	0.148572	0.1429	0.253863	0.798538	0.270037	0.032257	0.552012	-0.24512	0.314539	0.584264	0.999965	0.052303	0.983371
C6orf120	0.041762	0.23782	-0.17219	0.131909	0.757746	0.07757	0.200274	0.328019	0.2277	0.273875	0.050653	0.20221	0.935984	0.967247	0.629465	0.91112
KRTAP5-1	-0.06245	-0.19813	0.174257	-0.13107	0.644433	0.14325	0.194834	0.331143	0.182328	-0.35985	0.167787	-0.28385	0.887391	0.007018	0.864706	0.027955
KRTAP5-3	-0.04159	-0.26709	0.080989	-0.00475	0.758689	0.046594	0.549244	0.97201	0.121144	-0.30072	0.088622	-0.19315	0.788719	0.02114	0.718674	0.099206
KRTAP5-10	0.065072	-0.12827	0.22106	-0.21436	0.63058	0.346112	0.098431	0.109329	0.281372	-0.34832	0.206419	-0.31933	0.970908	0.008841	0.913154	0.015263
ZNF322B	-0.20768	0.092808	-0.09877	-0.04087	0.121109	0.496303	0.464785	0.762759	0.145886	0.084837	0.074847	0.04909	0.830521	0.710241	0.685403	0.625604
TBPL2	-0.11412	-0.12948	-0.06078	-0.36527	0.402321	0.341552	0.656316	0.005638	-0.00218	-0.35914	0.183548	-0.37376	0.494275	0.00712	0.886268	0.005254
NSUN4	0.105284	0.308327	-0.17661	0.185068	0.43572	0.020783	0.18879	0.168137	0.169958	0.520822	-0.07525	0.274473	0.870599	0.999897	0.311614	0.967551
C6orf190	0.005256	-0.18646	0.051126	0.588969	0.96933	0.172865	0.708252	1.80E-06	-0.37006	0.102266	-0.02753	0.271485	0.006173	0.748083	0.429606	0.964382
RASL11A	0.114954	0.042032	0.039107	0.170591	0.394501	0.758402	0.772718	0.20454	-0.12084	0.199121	0.077588	0.202562	0.211869	0.907691	0.69378	0.911504
KRT18	0.009692	0.105146	-0.08698	-0.1492	0.943481	0.444871	0.523832	0.272416	-0.14212	0.522785	-0.23764	0.234914	0.173049	0.999903	0.05799	0.941966
GPR153	-0.01216	0.109958	0.047952	-0.17688	0.928484	0.419814	0.723177	0.188107	0.045948	0.105377	-0.05404	-0.02104	0.619139	0.757092	0.362204	0.444822
TMEM189	-0.11935	0.308022	-0.1205	0.018036	0.376533	0.020916	0.371943	0.894062	-0.19512	0.494248	-0.47127	0.294465	0.096891	0.999759	0.000542	0.97651
HCRP1	0.08765	-0.27281	0.173595	-0.24821	0.516771	0.041929	0.196563	0.062645	-0.02148	-0.32395	0.1498	-0.24114	0.443656	0.014037	0.836992	0.053221
psiTPTE22	0.1078	0.247984	0.033274	0.030681	0.424773	0.06536	0.805902	0.820769	0.165136	0.126562	0.009229	0.053195	0.863621	0.799023	0.52399	0.637244
ILD2	-0.16569	-0.14638	-0.08232	-0.24809	0.218047	0.281709	0.542686	0.062781	0.067651	-0.36554	0.047774	-0.40559	0.672459	0.006243	0.622342	0.002583
SLC22A25	0.124279	-0.18123	0.178693	-0.2945	0.361458	0.185456	0.187607	0.027579	0.00728	-0.38785	0.279934	-0.3004	0.518926	0.004238	0.967146	0.02248
C10orf113	-0.11803	0.249361	-0.18387	-0.09294	0.381896	0.063832	0.170951	0.49171	0.054349	0.271187	-0.31383	0.036439	0.638551	0.964221	0.019015	0.59392
C10orf140	0.031914	0.047306	0.170276	-0.22393	0.813691	0.729181	0.205388	0.094026	-0.02928	-0.35229	0.140522	-0.33283	0.423424	0.008172	0.821397	0.011907
LOC387646	-0.17135	-0.14598	-0.09482	-0.25433	0.202511	0.283015	0.48291	0.056244	-0.30452	-0.18345	-0.21731	-0.01095	0.019812	0.111168	0.075798	0.471211
SH2D4B	0.051901	-0.1072	0.213461	-0.29342	0.701407	0.431648	0.110862	0.026747	0.072509	-0.31894	0.174978	-0.35112	0.683987	0.015371	0.874856	0.008365
C10orf99	-0.08595	0.291724	-0.10861	-0.17204	0.528813	0.030693	0.425558	0.204844	-0.0408	0.435799	-0.15402	0.063129	0.395071	0.998616	0.156215	0.659823
SLC16A12	0.128722	-0.22363	0.23211	-0.05454	0.344413	0.100739	0.085184	0.689732	0.156741	-0.3888	0.137548	-0.39841	0.850891	0.003788	0.816213	0.00305
CC2D2B	0.113929	-0.13246	0.144942	0.088489	0.39876	0.330462	0.282046	0.512748	0.093037	-0.30398	0.213132	-0.17841	0.730716	0.019994	0.920095	0.117755
C10orf134	-0.12814	-0.21904	0.020124	-0.28713	0.342133	0.104819	0.881886	0.030344	-0.25129	-0.3883	0.03769	-0.24067	0.046036	0.00383	0.597084	0.053568
LOC387720	0.117485	-0.08654	0.304648	-0.13712	0.384104	0.525974	0.021214	0.309089	0.107231	-0.33168	0.215656	-0.22178	0.760933	0.012166	0.922597	0.069265
IFITM5	-0.09017	-0.11885	0.27712	-0.1638	0.508664	0.387448	0.038669	0.227698	0.133638	-0.32914	0.233202	-0.24931	0.812033	0.012756	0.938426	0.047377
LOC387745	-0.37191	-0.09781	-0.03961	-0.03116	0.004767	0.473263	0.771922	0.81964	-0.01636	-0.45973	-0.03807	-0.51413	0.457528	0.000744	0.403083	0.000152
OR56B1	-0.01746	-0.31912	0.16228	-0.24051	0.898376	0.017559	0.232109	0.074179	0.150356	-0.44059	0.29687	-0.41257	0.84071	0.00109	0.976166	0.002191
INSC	0.084884	-0.12934	0.259362	-0.11744	0.530136	0.342072	0.051386	0.384303	0.305103	-0.23887	0.33602	-0.27112	0.980387	0.054939	0.987987	0.03419
FIBIN	0.326079	-0.29243	0.112474	0.059488	0.014184	0.030273	0.40919	0.663188	0.614007	-0.40589	0.350977	-0.248	0.999997	0.002565	0.990959	0.048275
LOC387763	0.385522	-0.32845	0.29422	-0.06303	0.003061	0.013456	0.026316	0.641357	0.393767	-0.49069	0.266177	-0.40137	0.996277	0.000311	0.959633	0.003141
SLC22A10	0.184867	-0.19873	0.214818	-0.24613	0.168607	0.142012	0.108558	0.064955	0.192169	-0.48659	0.253382	-0.4228	0.89963	0.000303	0.953467	0.00171
SPDYC	0.091209	-0.01517	0.228134	-0.20523	0.499825	0.911643	0.087859	0.125659	0.07482	-0.29451	0.099997	-0.28469	0.689412	0.023473	0.743304	0.02758
LOC387787	-0.32826	-0.05719	-0.02432	-0.15571	0.012669	0.675444	0.857493	0.247419	-0.31454	-0.05471	-0.14952	-0.03468	0.016627	0.359006	0.163468	0.409498
LOC387825	0.171654	0.089386	0.247008	0.040163	0.20169	0.512382	0.063973	0.766754	0.333204	-0.10616	0.238183	-0.09239	0.988176	0.241285	0.94244	0.270706
CLEC12B	-0.11797	-0.18268	0.029281	-0.22601	0.38655	0.181887	0.830371	0.093956	-0.09113	-0.34771	0.042504	-0.33071	0.275807	0.009632	0.607938	0.013246
hCG_27695	-0.0465	0.195078	0.002697	0.11421	0.731257	0.149644	0.984117	0.397589	0.086089	0.300241	-0.22743	0.224676	0.715278	0.978686	0.066485	0.933343
REP15	0.185045	0.304371	-0.12451	-0.01528	0.168191	0.022564	0.356114	0.910151	-0.03049	0.485912	-0.08116	0.311847	0.420298	0.999691	0.298068	0.982561
C12orf68	-0.13707	-0.28588	0.183588	-0.36932	0.30928	0.032687	0.171624	0.004695	-0.11931	-0.4526	0.063003	-0.29856	0.214844	0.000794	0.659519	0.02193
RPSAP12	0.08372	0.148741	-0.18503	0.214277	0.535811	0.273925	0.168234	0.109474	-0.05353	0.511656	-0.27247	0.287218	0.361932	0.999861	0.03509	0.973529
C12orf75	-0.12788	-0.16691	-0.0055	-0.16546	0.343153	0.218878	0.967611	0.218687	-0.24628	-0.33004	0.032218	-0.21276	0.049479	0.012545	0.583205	0.077862

LOC387885	-0.23636	-0.1909	0.005295	-0.3025	0.076702	0.15873	0.968816	0.022188	-0.2367	-0.33333	-0.02203	-0.27575	0.056617	0.011796	0.442897	0.031805
SHISA2	0.162678	-0.08403	0.219973	0.165728	0.230951	0.541895	0.103309	0.222206	0.042502	0.042094	-0.09854	-0.2134	0.609192	0.608169	0.262262	0.079636
NHLRC3	-0.09383	0.205309	-0.14567	0.220574	0.487508	0.129024	0.279616	0.099193	-0.04016	0.380127	-0.14642	0.257438	0.395505	0.995417	0.168587	0.957936
SERP2	-0.0563	-0.20842	0.124009	-0.18408	0.677406	0.123203	0.358066	0.170462	0.041667	-0.3097	0.184583	-0.25593	0.608319	0.018109	0.887595	0.043014
C14orf23	-0.06598	-0.03692	-0.08747	-0.30052	0.625795	0.787059	0.517642	0.023125	0.144679	-0.19107	0.198543	-0.34417	0.828494	0.104325	0.901818	0.010306
TOMM20L	-0.15733	-0.16209	0.057741	-0.18673	0.24248	0.232666	0.669647	0.164271	-0.00358	-0.43163	0.059289	-0.35233	0.490589	0.001372	0.650575	0.008166
RHOB	0.23619	-0.19368	0.113996	0.219332	0.079687	0.156539	0.402839	0.104342	0.614546	-0.42491	0.32094	-0.43994	0.999997	0.001623	0.984205	0.001109
KRT19	-0.14812	0.194881	-0.25979	0.081754	0.275969	0.15393	0.053167	0.549177	-0.17981	0.721876	-0.34761	0.40816	0.115893	1	0.00965	0.997568
SERPINA13	-0.06026	-0.18642	0.317209	-0.16973	0.659107	0.172965	0.017214	0.211081	0.039284	-0.48233	0.264863	-0.2981	0.602262	0.000344	0.960653	0.0221
RTL1	0.098829	-0.17597	0.213069	-0.15684	0.46453	0.194525	0.111535	0.243977	0.010848	-0.23276	0.237961	-0.2369	0.528192	0.061942	0.940081	0.058575
TMEM179	0.038688	-0.23783	0.146113	-0.13326	0.775091	0.077557	0.278133	0.32306	0.145129	-0.36547	0.189489	-0.25664	0.832059	0.006253	0.893744	0.042562
KRT31	-0.10514	0.125272	0.098432	-0.11729	0.436351	0.357607	0.466335	0.384907	0.130001	-0.10606	-0.01354	-0.15655	0.80541	0.241487	0.464818	0.149401
C15orf52	0.079019	-0.18134	0.277339	-0.19226	0.559033	0.181045	0.03674	0.15192	0.276408	-0.40344	0.240615	-0.32679	0.968523	0.002716	0.944326	0.013324
TNFAIP8L3	-0.1244	-0.39233	0.131381	0.005238	0.356557	0.002784	0.329975	0.969152	-0.04145	-0.35384	0.214407	-0.19205	0.39224	0.007923	0.921366	0.100518
FAM148B	0.101536	-0.13916	0.329816	-0.22413	0.452328	0.306366	0.01223	0.093726	0.15731	-0.31328	0.157506	-0.22134	0.851777	0.017005	0.849273	0.069668
C15orf59	-0.02689	0.061495	0.131464	-0.19594	0.842584	0.652541	0.329669	0.14408	0.03043	-0.21914	0.153891	-0.15244	0.579553	0.071699	0.843588	0.155924
FLJ42289	-0.07537	-0.02432	0.066924	-0.24418	0.577365	0.858764	0.620866	0.067176	0.076309	-0.21877	0.046924	-0.13673	0.692885	0.072051	0.620231	0.18244
LOC388195	-0.0336	-0.00616	0.263465	-0.25342	0.804059	0.964046	0.047683	0.057157	0.222489	-0.37401	0.254738	-0.31376	0.931382	0.005226	0.954365	0.01686
KRT32	0.082205	-0.22183	0.115666	-0.253	0.543242	0.100359	0.391559	0.057587	0.15526	-0.27207	0.182791	-0.27494	0.848568	0.033689	0.885289	0.032214
SBK1	-0.08198	-0.11914	0.203632	-0.24163	0.544344	0.381809	0.128688	0.070178	0.056673	-0.33218	0.048787	-0.31348	0.645835	0.012054	0.624854	0.016945
C16orf87	0.110314	0.081838	-0.06017	0.076592	0.413985	0.548763	0.65662	0.571204	0.086407	0.020212	0.024772	-0.00512	0.715994	0.553033	0.564159	0.486532
LOC388282	0.037661	-0.11855	0.288789	-0.14568	0.780912	0.384178	0.029357	0.279579	-0.06012	-0.37949	0.219686	-0.15668	0.345734	0.004647	0.926472	0.14921
C16orf86	-0.19956	0.014225	0.139837	-0.1829	0.136679	0.917125	0.299521	0.173261	0.018176	-0.28649	0.058799	-0.36611	0.547715	0.026786	0.649388	0.006169
KRT33A	-0.07925	0.132886	0.027044	-0.19929	0.557891	0.328896	0.841722	0.137214	0.092237	-0.03718	0.112654	-0.22672	0.728958	0.403116	0.769375	0.064867
GLTPD2	0.005406	-0.03272	0.217115	-0.10174	0.968164	0.810813	0.104743	0.451414	0.014444	-0.26979	0.008688	-0.45991	0.537515	0.036542	0.522317	0.00074
INCA1	0.093874	-0.13979	0.350465	-0.17326	0.487328	0.304172	0.007525	0.197437	0.095592	-0.52362	0.296262	-0.35979	0.736288	9.41E-05	0.975927	0.007026
C17orf87	-0.0231	-0.21997	0.135037	0.319818	0.865809	0.106597	0.321057	0.01627	0.03484	-0.3292	0.211659	-0.01968	0.590902	0.012742	0.918607	0.448348
SPDYE4	-0.03603	-0.09003	0.107139	-0.38284	0.790161	0.50934	0.427634	0.003291	-0.03525	-0.40254	0.071387	-0.34064	0.408051	0.002774	0.679392	0.010265
TMEM220	0.037335	0.21794	0.002823	0.149184	0.782759	0.106617	0.983372	0.268047	0.090848	0.323109	0.085766	0.132109	0.725896	0.985747	0.712321	0.809266
FLJ45455	-0.01964	0.057816	0.141992	-0.27202	0.884714	0.672113	0.29206	0.040658	0.008526	-0.17102	0.008111	-0.28812	0.522424	0.127897	0.521087	0.026083
RPS18P12	0.049978	0.147474	0.136916	-0.16976	0.711982	0.278077	0.309826	0.206794	0.118281	0.009459	-0.04834	-0.11294	0.783157	0.524874	0.376253	0.227444
C17orf76	-0.12334	-0.13038	0.131637	-0.03177	0.360683	0.338186	0.329029	0.81453	0.046863	-0.2384	0.121491	-0.17351	0.621441	0.055296	0.786695	0.124423
RPL13P12	0.080056	-0.13075	0.104133	-0.24406	0.553873	0.336815	0.440786	0.067312	0.028813	-0.17651	0.136046	-0.06091	0.575377	0.120305	0.813561	0.343801
TMIGD1	-0.0153	-0.09552	0.192854	-0.25758	0.910057	0.48375	0.150636	0.053068	0.072677	-0.47629	0.190982	-0.38102	0.684383	0.00041	0.895569	0.004495
LOC388387	0.206802	-0.15132	0.255222	-0.07296	0.122717	0.265583	0.055357	0.589647	0.053404	-0.22431	-0.06829	-0.20016	0.637763	0.066985	0.327887	0.091145
CCDC103	-0.12021	-0.14403	-0.00105	-0.25044	0.373089	0.289576	0.993833	0.06025	-0.23715	-0.24582	0.057828	-0.12946	0.056268	0.049809	0.647032	0.195587
RPRML	-0.03124	-0.20013	0.231666	-0.15628	0.81755	0.13918	0.082924	0.245684	0.144415	-0.49026	0.194802	-0.38493	0.830854	0.000271	0.900136	0.004127
KRT33B	0.118695	-0.11422	0.269247	-0.14551	0.379192	0.401898	0.042836	0.280147	0.154563	-0.04747	0.108037	0.031727	0.847467	0.377041	0.760035	0.582897
RPL7P48	0.199979	0.186843	0.282396	-0.15359	0.135839	0.167942	0.033309	0.254006	0.163636	-0.392	0.21502	-0.26857	0.858605	0.003871	0.919494	0.037223
YPEL2	-0.03732	-0.11354	0.027438	-0.29373	0.784769	0.409181	0.840907	0.028003	-0.14655	-0.2046	0.118098	-0.31169	0.168368	0.0888	0.777417	0.018566
C17orf82	0.05252	-0.00685	0.233648	-0.36115	0.698016	0.960051	0.080253	0.00578	0.156369	-0.33255	0.252754	-0.41551	0.85031	0.01197	0.953046	0.002042
POTEC	-0.06655	-0.08092	0.12385	-0.24665	0.622812	0.553269	0.358687	0.064373	0.017134	-0.22521	0.01192	-0.15809	0.544475	0.068447	0.530606	0.149825
RPL7AP66	0.032583	0.279997	-0.02247	0.129583	0.809857	0.036613	0.868239	0.336694	0.100828	0.273978	-0.09761	0.25382	0.747527	0.967299	0.261779	0.955633
KRT34	-0.03914	-0.0895	0.183055	-0.20062	0.772519	0.511822	0.172893	0.134567	-0.06008	-0.30347	0.150316	-0.25122	0.345827	0.02017	0.837832	0.046079
CPLP	-0.01675	-0.18806	0.1825	-0.2774	0.901558	0.165146	0.174223	0.036696	0.04252	-0.24624	0.145938	-0.27236	0.610482	0.049506	0.830606	0.033536
ZNF788	0.112564	-0.28239	0.08581	-0.13891	0.408813	0.036722	0.529464	0.307239	-0.0883	-0.1998	-0.14949	0.017297	0.279755	0.091549	0.163515	0.545417
CLEC17A	-0.07739	-0.22703	0.18555	-0.18625	0.570771	0.095546	0.170958	0.16931	0.059448	-0.36117	0.251622	-0.27651	0.652635	0.006831	0.95228	0.031429
RGS9BP	-0.01363	-0.07442	0.069065	-0.139	0.919831	0.585664	0.609708	0.302462	0.05441	-0.12695	0.084302	-0.27214	0.640253	0.200251	0.70904	0.033652
KRTDAP	0.020817	0.011446	0.1934	-0.23332	0.877848	0.933275	0.149462	0.080696	-0.06573	-0.20866	0.086342	-0.29313	0.332137	0.082019	0.713608	0.024019
ZNF790	0.058823	0.117677	-0.19322	0.065776	0.663824	0.387721	0.149847	0.626881	-0.04125	0.307316	-0.00832	0.266729	0.393945	0.979989	0.478616	0.961734

CEACAM16	-0.04885	0.098758	0.194982	-0.11055	0.718183	0.468977	0.146096	0.413002	0.152488	-0.13861	0.131188	-0.25514	0.844158	0.179142	0.804828	0.043518
BLOC1S3	-0.05503	-0.24853	0.229058	-0.05124	0.684345	0.064746	0.086546	0.705058	0.036262	-0.46552	0.174008	-0.34872	0.594545	0.000557	0.873519	0.008771
IGFL3	0.160341	-0.02667	0.267483	-0.2022	0.233475	0.845329	0.04427	0.131459	0.179545	-0.44395	0.257286	-0.32837	0.883751	0.000999	0.956016	0.01294
ZNF808	-0.02709	0.086823	-0.09411	0.043868	0.841436	0.524597	0.486215	0.745927	-0.03241	-0.00342	-0.06985	0.121118	0.415343	0.490989	0.324205	0.78867
ZNF761	0.030204	0.331648	-0.09846	0.262459	0.823507	0.012526	0.466201	0.04857	0.124095	0.255973	-0.14629	0.349869	0.794369	0.957015	0.168799	0.991425
ZNF470	0.015109	0.04923	-0.15066	0.08937	0.911179	0.718613	0.263282	0.508544	0.284295	-0.13125	0.150558	-0.09915	0.972243	0.192301	0.838226	0.256042
ZNF749	-0.12415	0.226046	-0.19959	-0.05281	0.357518	0.093898	0.136622	0.696444	-0.18808	0.52297	-0.34225	0.382448	0.105341	0.999904	0.010688	0.995643
ZNF324B	-0.16543	0.030187	-0.00995	-0.19663	0.218773	0.825207	0.941449	0.142653	0.07443	-0.01142	0.024483	-0.27688	0.688498	0.469969	0.563418	0.031243
FAM132A	-0.05117	-0.0663	0.155716	-0.19184	0.705413	0.62732	0.247414	0.152829	-0.02327	-0.25104	0.079104	-0.28195	0.439701	0.048114	0.695118	0.030297
HES5	0.020264	-0.10995	0.196537	-0.12642	0.881068	0.419852	0.142844	0.348721	0.099187	-0.38207	0.19742	-0.30364	0.744031	0.004394	0.903183	0.020113
RNF207	-0.05837	0.014579	0.058266	-0.00229	0.666285	0.915072	0.666818	0.98651	-0.0246	0.324892	-0.13464	0.171583	0.435539	0.986204	0.188939	0.872895
TMEM82	0.086212	-0.07134	0.281809	-0.19497	0.523699	0.601313	0.033693	0.14613	0.043155	-0.23859	0.115541	-0.2928	0.612089	0.055155	0.775115	0.024151
KRT35	0.02939	0.237153	0.051478	-0.31715	0.828189	0.078431	0.703731	0.016225	0.212289	0.117865	-0.1089	0.026821	0.92167	0.782342	0.238204	0.570221
TRNP1	-0.00723	0.091015	0.139921	-0.18971	0.957437	0.504698	0.299227	0.157524	0.072525	0.032983	0.05773	-0.0688	0.684024	0.58613	0.646796	0.324807
CD164L2	-0.26367	-0.24875	0.044702	-0.29602	0.0475	0.064511	0.741261	0.025368	-0.28607	-0.40081	-0.00228	-0.28348	0.026968	0.002886	0.494069	0.028125
RPL21P20	-0.04228	-0.27264	0.084558	-0.11834	0.754834	0.042059	0.531722	0.380646	0.190706	-0.39394	0.235151	-0.24528	0.897873	0.003376	0.94002	0.050189
LDLRAD1	-0.12158	-0.13896	0.053613	-0.19949	0.367645	0.307083	0.692043	0.136809	-0.16846	-0.243	0.052182	-0.2141	0.13154	0.051842	0.633233	0.076539
GBP7	-0.01464	-0.25855	0.19231	-0.18319	0.913906	0.054353	0.151813	0.172569	-0.05943	-0.31398	0.219166	-0.07752	0.347413	0.016794	0.925981	0.304291
C1orf146	0.082517	-0.07742	-0.0359	-0.38835	0.541709	0.570641	0.790929	0.002835	-0.07478	-0.34652	0.091937	-0.35318	0.310677	0.009159	0.725963	0.008029
FAM69A	-0.19743	0.129898	-0.3086	0.345208	0.141005	0.339984	0.019511	0.008541	-0.07067	0.042579	-0.0867	0.204508	0.320349	0.610631	0.285605	0.91361
SLC6A17	0.16075	-0.04557	0.310216	-0.18593	0.232267	0.738737	0.018852	0.16613	0.064072	-0.47405	0.167458	-0.39366	0.663865	0.000437	0.864229	0.003398
NOTCH2NL	0.157438	-0.08218	0.1169	0.103995	0.242158	0.547067	0.386493	0.441393	0.410988	-0.19819	0.241151	-0.31047	0.997725	0.093363	0.944735	0.017868
LOC388692	-0.03505	0.17866	-0.02207	0.119441	0.79575	0.187691	0.87056	0.376182	0.166211	-0.00804	-0.05173	-0.00458	0.865198	0.478867	0.367872	0.487956
LYSMD1	-0.23135	0.111338	-0.06038	-0.27664	0.083351	0.413967	0.655462	0.037235	-0.14441	-0.01175	-0.17203	-0.217	0.16916	0.4691	0.129239	0.073727
HRNR	-0.05921	-0.08091	0.108529	-0.13765	0.661736	0.553338	0.421629	0.307227	0.017692	-0.18815	0.20941	-0.14612	0.546451	0.105244	0.916299	0.166274
FLG2	-0.0134	-0.16055	0.154941	-0.36652	0.921198	0.237183	0.249804	0.005045	0.15904	-0.37297	0.182628	-0.32817	0.851644	0.005813	0.882298	0.013875
KRT81	-0.09641	-0.18408	0.032725	-0.09023	0.4756	0.174437	0.809044	0.504451	0.035591	-0.35493	0.062239	-0.29756	0.592826	0.007752	0.657686	0.022304
C1orf189	-0.15182	-0.30275	0.035437	-0.16263	0.259579	0.023332	0.793553	0.22677	-0.2279	-0.29535	0.086142	-0.20029	0.063848	0.023143	0.713162	0.091006
FMO6P	-0.03592	0.113488	0.038767	-0.16142	0.790805	0.404954	0.774641	0.230302	-0.17009	0.04337	0.198667	0.113233	0.13198	0.611366	0.90196	0.770534
LOC388720	-0.0214	-0.13874	0.065514	-0.03538	0.875602	0.312409	0.631428	0.795729	0.111027	-0.28818	0.030354	-0.27105	0.766105	0.027446	0.577535	0.035856
C1orf53	-0.0243	-0.04383	0.146804	-0.28026	0.857599	0.748377	0.275841	0.034727	0.083152	-0.14441	0.187182	-0.15497	0.708634	0.16916	0.890883	0.151884
TMEM81	-0.16314	-0.09446	-0.08465	-0.15294	0.225308	0.488656	0.531295	0.256059	-0.06388	-0.17234	0.069431	-0.16539	0.338391	0.128811	0.672864	0.138796
C1orf31	0.001564	0.152399	-0.06211	-0.09196	0.990875	0.266669	0.64929	0.500273	-0.461	0.38497	-0.41428	0.328919	0.000631	0.995877	0.002333	0.987191
FLJ45717	0.071237	-0.19209	0.326459	-0.14538	0.598485	0.156098	0.013196	0.280573	0.10712	-0.33374	0.186157	-0.23035	0.760705	0.011706	0.889594	0.061768
LOC388796	-0.17445	0.442465	-0.2697	0.23099	0.194326	0.000639	0.042478	0.083851	0.107171	0.488606	-0.20533	0.299699	0.76081	0.999715	0.088007	0.978489
C20orf107	-0.18736	0.101774	-0.13408	-0.1002	0.166737	0.459685	0.324538	0.462461	-0.19786	-0.1335	0.025077	-0.16956	0.096316	0.190988	0.564181	0.132742
KRT82	0.000824	-0.07638	0.263045	-0.26957	0.995145	0.575824	0.048051	0.04258	0.078133	-0.51865	0.24703	-0.45312	0.697118	0.000111	0.949076	0.000783
C21orf34	0.298814	-0.29298	0.250694	-0.17975	0.023953	0.028425	0.059983	0.180921	0.33115	-0.50234	0.421073	-0.17079	0.987712	0.000187	0.998014	0.128224
KRTAP26-1	0.166684	-0.16098	0.121715	-0.35386	0.215254	0.235918	0.367094	0.006926	0.036477	-0.33675	0.216926	-0.30489	0.595094	0.011058	0.923834	0.019687
LOC388882	0.029219	-0.234	0.042932	-0.1833	0.829175	0.082598	0.751171	0.172314	-0.00429	-0.28452	0.123719	-0.28881	0.488725	0.027654	0.790943	0.02579
C22orf36	-0.04771	-0.08725	0.094848	-0.16069	0.724518	0.522538	0.482802	0.232437	0.117757	-0.11459	-0.06827	-0.19069	0.782129	0.224138	0.32794	0.102141
KRT83	-0.09692	-0.01874	0.200081	-0.23523	0.473263	0.89098	0.135635	0.078168	0.225615	-0.39914	0.071877	-0.38892	0.934171	0.002999	0.680537	0.003778
LOC388906	0.065892	-0.05781	0.278048	-0.13824	0.626273	0.672145	0.036242	0.305144	0.122337	-0.37682	0.277668	-0.35947	0.788312	0.005363	0.965991	0.00765
RP3-474112	-0.15117	-0.14313	0.176253	-0.20137	0.261649	0.292645	0.189691	0.133085	-0.00528	-0.2778	0.10837	-0.32077	0.486108	0.030792	0.760715	0.014873
LOC388931	-0.01989	-0.03871	0.170962	-0.15159	0.883238	0.777006	0.203542	0.260316	0.064137	-0.33971	0.225082	-0.18343	0.664021	0.01045	0.931434	0.11119
C2orf71	0.107839	-0.19268	0.315228	-0.21795	0.424604	0.154816	0.01692	0.103376	0.138583	-0.35805	0.209052	-0.28953	0.820819	0.007279	0.915927	0.02549
LOC388946	0.035368	-0.01557	0.132204	-0.35672	0.79395	0.909323	0.326929	0.006455	0.195742	-0.10162	0.164338	-0.31876	0.903833	0.250801	0.85965	0.015422
TSPYL6	-0.02763	-0.04956	0.157082	-0.15853	0.838364	0.716794	0.24324	0.238862	0.101386	-0.34571	0.126401	-0.2505	0.748712	0.009305	0.795991	0.046567
LOC388955	-0.1499	0.158773	-0.37174	0.232362	0.265719	0.242491	0.004411	0.081978	-0.07564	0.401971	-0.29376	0.24474	0.308682	0.99719	0.02508	0.949421
C2orf78	0.036717	-0.16968	0.150383	-0.18491	0.786268	0.211121	0.264175	0.168504	0.161151	-0.50178	0.194153	-0.39244	0.857671	0.000191	0.89937	0.003492

BOLA3	-0.14112	-0.01079	0.025265	-0.26285	0.299536	0.937701	0.853363	0.050326	-0.14545	-0.02955	-0.2027	-0.03734	0.167406	0.422721	0.090868	0.402693
C2orf81	-0.21868	-0.20292	0.099011	-0.322	0.102201	0.133637	0.463706	0.014579	-0.21592	-0.35627	-0.01186	-0.27654	0.074764	0.007546	0.469185	0.031412
LOC388965	-0.02767	-0.22748	0.000723	-0.33785	0.838086	0.091772	0.995743	0.010162	0.131944	-0.35337	0.08472	-0.38881	0.808965	0.007998	0.709979	0.003788
C2orf68	-0.15122	-0.08737	0.159372	-0.13091	0.261499	0.521995	0.23635	0.331742	0.077567	-0.31924	-0.12913	-0.33731	0.695808	0.015287	0.198937	0.010941
RHOC	0.004744	0.065436	-0.03595	0.182798	0.972059	0.631835	0.790623	0.173509	0.056547	0.21218	-0.0919	0.247829	0.645525	0.921561	0.274124	0.951605
KRT84	0.137262	-0.24411	0.262882	-0.32115	0.313073	0.072481	0.050296	0.015805	0.150424	-0.40422	0.138071	-0.35486	0.840821	0.002667	0.817132	0.007763
LOC100133	-0.05734	0.018007	0.08154	-0.28643	0.674633	0.896179	0.550225	0.03234	-0.1414	-0.11805	0.104592	-0.13824	0.177091	0.219952	0.750374	0.182578
SLC9A4	-0.0932	0.3613	-0.21937	-0.38837	0.49447	0.006726	0.104285	0.003098	-0.08533	0.470852	-0.1465	0.096476	0.286437	0.999521	0.168462	0.738204
SP5	-0.00687	-0.10234	0.271291	-0.17445	0.959578	0.452918	0.041223	0.194327	0.064342	-0.36963	0.175072	-0.31432	0.664516	0.005733	0.874986	0.016692
PLEKHM3	0.224021	0.045483	-0.05336	0.168509	0.093892	0.739243	0.693409	0.210201	0.19848	0.143838	0.236895	0.088016	0.904397	0.827072	0.939222	0.717331
C2orf80	0.092326	-0.18624	0.092464	-0.31823	0.494568	0.169343	0.49392	0.015847	0.061266	-0.23992	0.066838	-0.22862	0.657066	0.054136	0.668666	0.063226
RESP18	0.010083	-0.18251	0.276628	-0.16991	0.940658	0.178206	0.037245	0.206384	0.004977	-0.43241	0.193376	-0.25079	0.513093	0.001345	0.898448	0.046371
C2orf82	0.047766	-0.16846	0.308277	-0.16056	0.726648	0.218897	0.020805	0.237171	0.101328	-0.33207	0.109264	-0.32955	0.746113	0.012922	0.759914	0.013531
OR6B2	-0.18129	-0.18528	0.158379	-0.39608	0.177155	0.171592	0.239319	0.002289	-0.25378	-0.33501	0.023498	-0.24795	0.044395	0.011428	0.560884	0.048308
KRT85	-0.01473	-0.03881	0.240898	-0.19518	0.91341	0.776412	0.071054	0.145685	0.082588	-0.25669	0.152882	-0.22196	0.70735	0.042531	0.841976	0.069094
UNQ6490	0.085098	-0.13541	0.181996	-0.30915	0.532901	0.324282	0.179447	0.020429	-0.07824	-0.24237	0.108699	-0.17759	0.304719	0.054344	0.758771	0.12158
ZNF662	0.119978	-0.33055	0.270982	0.037687	0.374024	0.012839	0.041464	0.780765	0.235077	-0.38339	0.161904	-0.25553	0.942097	0.004268	0.856007	0.043264
CDH29	-0.20651	-0.23082	0.008678	-0.16909	0.123266	0.086981	0.948916	0.2086	-0.19767	-0.30679	-0.03556	-0.23048	0.093956	0.019048	0.40831	0.061662
C3orf54	-0.01478	0.08359	0.070323	-0.08623	0.913087	0.540211	0.603198	0.52361	-0.01675	0.120418	-0.10352	-0.07997	0.456001	0.787316	0.249286	0.298634
IQCF2	0.072928	-0.06166	0.086432	-0.05425	0.593242	0.654715	0.526474	0.69129	0.10972	-0.3588	0.145114	-0.31014	0.763461	0.007752	0.826354	0.01907
MUSTN1	0.007424	-0.35471	0.260885	-0.27279	0.95629	0.00731	0.049985	0.040071	0.017875	-0.55375	0.097092	-0.53931	0.54693	3.28E-05	0.737118	5.50E-05
VGLL3	0.20612	-0.117	0.035484	0.262849	0.127486	0.394948	0.795147	0.050326	0.241091	-0.38672	0.109532	-0.24988	0.946744	0.003967	0.76308	0.046985
LOC389137	0.042702	0.267378	-0.23214	0.174686	0.752462	0.046352	0.08228	0.193722	-0.13489	0.456689	-0.29015	0.398887	0.185721	0.999289	0.026592	0.996983
LOC389151	-0.01435	-0.11816	0.234128	-0.23165	0.915639	0.385742	0.079616	0.082942	0.154823	-0.33556	0.214998	-0.35558	0.847877	0.011309	0.92195	0.007651
FLJ46210	0.287004	-0.28946	0.300998	-0.16378	0.030419	0.030479	0.022895	0.223479	0.279402	-0.32188	0.283152	-0.38278	0.969979	0.014575	0.970269	0.004326
LEKR1	-0.13968	-0.07753	-0.03655	-0.25073	0.300084	0.570063	0.787247	0.059949	-0.15238	-0.24617	0.06055	-0.15975	0.156015	0.049557	0.653621	0.144461
FLJ46481	0.077636	-0.05225	0.302444	-0.15244	0.569539	0.704796	0.023477	0.262028	-0.03891	-0.12684	-0.01805	-0.23396	0.398682	0.200447	0.453156	0.058802
LOC389195	-0.05692	-0.23741	0.199733	-0.14411	0.676891	0.080935	0.139978	0.289308	0.120707	-0.34756	0.165529	-0.30125	0.787876	0.008974	0.861409	0.020951
KRT86	-0.17307	-0.04558	-0.01496	-0.17632	0.197928	0.738696	0.912065	0.189531	0.044151	-0.1515	0.004446	-0.19105	0.614607	0.157438	0.511562	0.101711
LOC389203	-0.06218	0.081533	-0.18254	0.045253	0.645886	0.550261	0.174123	0.738188	-0.3306	0.28576	-0.32438	0.083764	0.012416	0.972894	0.014854	0.710023
BEND4	0.046035	-0.05722	0.183625	-0.24279	0.733829	0.67531	0.171536	0.068798	0.071518	-0.28799	0.13462	-0.32227	0.681648	0.026139	0.811022	0.014473
TMPRSS111	0.018629	0.143398	-0.00536	-0.39131	0.892617	0.300924	0.968998	0.003135	-0.10633	0.070403	-0.10216	0.016746	0.246047	0.675129	0.254675	0.542959
LOC389257	-0.14355	-0.09749	0.118827	-0.07348	0.286752	0.474742	0.378658	0.587013	-0.07831	-0.16302	0.068872	-0.21426	0.302469	0.139519	0.673479	0.076378
C5orf39	-0.08115	0.099226	-0.0796	0.027567	0.548455	0.466864	0.556128	0.838699	0.032955	-0.17106	0.109817	-0.1896	0.586058	0.127842	0.763658	0.103476
C5orf48	-0.05315	-0.07087	0.168975	-0.17595	0.694573	0.603749	0.208924	0.190471	-0.0365	-0.30836	0.220542	-0.12723	0.405914	0.01966	0.924865	0.202469
C5orf46	0.105681	-0.20469	0.134706	-0.28795	0.433986	0.130199	0.317777	0.029852	0.077229	-0.2586	0.188455	-0.197	0.695023	0.041346	0.892468	0.094722
FLJ41603	0.182653	-0.18682	0.226413	-0.16692	0.173856	0.167986	0.090345	0.214608	0.338837	-0.21488	0.223123	-0.35062	0.989374	0.07577	0.929663	0.008449
PSMG4	-0.06923	0.015376	-0.01803	-0.06331	0.608857	0.910445	0.894109	0.639887	0.028446	0.162228	0.012227	0.106023	0.573577	0.856495	0.531393	0.755899
SFTA2	-0.06227	-0.08345	0.092042	-0.19143	0.645407	0.54091	0.4959	0.153726	-0.02111	-0.15302	0.006411	-0.25732	0.445273	0.157807	0.516472	0.043964
C6orf126	-0.0866	-0.09585	0.222362	-0.13586	0.521844	0.482234	0.096414	0.313602	0.013252	-0.38115	0.050688	-0.31596	0.534827	0.004482	0.629552	0.016213
C6orf222	-0.0848	-0.07065	0.257039	-0.22446	0.534363	0.608234	0.055827	0.096288	-0.02963	-0.30123	0.138702	-0.19867	0.422503	0.020959	0.818235	0.092813
GFRAL	-0.10029	-0.12268	0.003656	-0.31827	0.457902	0.367738	0.97847	0.015832	-0.07343	-0.3066	0.072619	-0.27922	0.313838	0.019113	0.682273	0.030108
LIN28B	0.126901	-0.21632	0.119248	-0.30021	0.351337	0.112678	0.381373	0.024576	0.153966	-0.33562	0.098226	-0.30581	0.846519	0.011298	0.739543	0.019375
SAMD5	0.199429	0.142217	-0.11759	0.14036	0.136939	0.295755	0.38368	0.297697	0.044234	0.058873	-0.05891	0.005078	0.614816	0.65123	0.350355	0.513358
IYD	-0.26791	0.067792	-0.06753	-0.31812	0.043917	0.619586	0.617719	0.015885	-0.17185	-0.04339	-0.00721	-0.05123	0.126726	0.387323	0.481249	0.367628
hCG_21078	-0.00084	0.354698	-0.12456	-0.00313	0.995055	0.007312	0.355901	0.981546	-0.06052	0.45455	-0.25157	0.37332	0.346444	0.999146	0.049747	0.99423
LOC389458	0.064917	-0.28263	0.204368	-0.18367	0.631396	0.034813	0.127283	0.171424	0.104103	-0.3241	0.182124	-0.21076	0.754432	0.013998	0.884423	0.079867
LOC389493	-0.04495	-0.11698	0.245978	-0.25517	0.73989	0.390539	0.065125	0.055412	0.080615	-0.3652	0.159485	-0.37387	0.702838	0.006287	0.852328	0.005241
KTN1	-4.61E-05	0.101641	-0.1629	-0.06337	0.999729	0.456037	0.225996	0.639579	-0.11086	0.104774	-0.02261	0.076681	0.231634	0.755835	0.441402	0.693751
MGC72080	0.000137	0.243001	-0.10514	-0.00389	0.999191	0.071139	0.436333	0.977085	0.242738	0.178828	0.072936	-0.00174	0.947965	0.882801	0.683012	0.495426

C7orf59	0.041532	-0.21645	0.189112	-0.15724	0.759039	0.109095	0.15887	0.242749	-0.12354	-0.28174	0.129361	-0.32692	0.2094	0.030397	0.798678	0.014192
FEZF1	-0.04971	-0.02478	0.196563	-0.2191	0.713469	0.856129	0.142791	0.101528	0.105074	-0.40239	0.174416	-0.29644	0.756461	0.002783	0.874083	0.022725
FAM180A	0.133871	-0.09908	-0.01276	0.149168	0.320811	0.467516	0.924926	0.268097	0.141832	-0.2172	0.236433	-0.18524	0.826454	0.073536	0.941053	0.108881
LOC389607	-0.00323	0.105039	0.014361	0.044156	0.981157	0.445337	0.916338	0.746589	0.054111	-0.03188	0.236171	0.003721	0.639513	0.4167	0.940843	0.509791
XKR5	0.117528	-0.19411	0.269657	-0.16715	0.388328	0.155607	0.044451	0.218198	0.081555	-0.33161	0.103779	-0.37915	0.704991	0.012184	0.751246	0.004681
LOC389634	0.020768	-0.0941	0.335523	-0.14699	0.878133	0.490323	0.010728	0.275242	0.228052	-0.29681	0.177787	-0.27426	0.936286	0.022587	0.878678	0.032555
C8orf80	-0.08334	-0.13935	0.226091	0.288637	0.537656	0.305698	0.090817	0.029447	0.038383	-0.04466	0.133618	0.032802	0.599965	0.384113	0.809226	0.585667
C8orf86	0.08452	-0.05605	0.108631	-0.30857	0.531906	0.681564	0.421189	0.019527	0.051073	-0.34798	0.03764	-0.32179	0.631972	0.008901	0.596957	0.014598
FAM150A	-0.10866	0.047623	0.096856	-0.20141	0.425365	0.729894	0.477624	0.136616	-0.092	-0.29474	0.031814	-0.21583	0.273905	0.024681	0.581217	0.077234
XKR9	0.242899	-0.17491	0.228148	0.040062	0.068669	0.197285	0.087838	0.767324	0.115443	-0.13517	0.121523	-0.03683	0.777561	0.185223	0.786755	0.404003
RBM12B	0.050789	0.155842	-0.12146	0.165934	0.707513	0.251409	0.368102	0.217354	0.1749	0.237884	-0.10392	0.26009	0.877498	0.944302	0.248457	0.959564
FLJ43860	-0.03987	-0.02964	0.228656	-0.35644	0.770496	0.829917	0.090066	0.007009	-0.13239	-0.31962	0.098817	-0.3086	0.192987	0.016168	0.738319	0.019577
MAFA	-0.08109	-0.28739	0.174834	-0.07017	0.548734	0.031744	0.193337	0.603963	0.172435	-0.38697	0.242357	-0.30712	0.874089	0.003946	0.945648	0.018941
L1CAM	0.174127	-0.22069	0.034893	0.142041	0.195173	0.102164	0.796653	0.29189	0.297953	-0.2835	0.205738	-0.29647	0.977844	0.028115	0.912427	0.022716
C9orf144	-0.06386	-0.02632	0.063233	0.275928	0.63699	0.847309	0.640294	0.037748	-0.32042	0.054231	0.041411	0.093513	0.014967	0.639811	0.606454	0.731757
MGC21881	0.038341	0.090677	0.210927	0.040836	0.777054	0.506288	0.115266	0.762956	0.097023	-0.05046	-0.07785	-0.05613	0.739383	0.369567	0.305629	0.355512
FLJ46321	0.090293	-0.19471	0.192757	-0.16125	0.50416	0.150419	0.150846	0.230803	0.141895	-0.40642	0.068198	-0.3814	0.826561	0.002533	0.671887	0.004458
C9orf153	-0.10046	-0.03794	0.086311	-0.05851	0.461292	0.78331	0.527054	0.668411	-0.2092	-0.27789	0.057948	-0.098	0.081463	0.030751	0.647325	0.258509
LOC389787	0.037763	0.245209	-0.09221	0.38856	0.782306	0.071168	0.499093	0.003083	0.249402	0.234251	-0.17042	0.325312	0.952689	0.941435	0.131514	0.986309
LOC389791	0.073816	-0.27453	0.183822	0.01948	0.585276	0.040602	0.171069	0.88564	0.088396	-0.11814	0.026576	-0.16583	0.720448	0.217124	0.568788	0.135365
IER5L	0.019857	-0.20896	0.305419	-0.01568	0.883439	0.122208	0.020873	0.907824	0.109773	-0.31367	0.204088	-0.22834	0.76615	0.016887	0.910646	0.063463
C9orf171	-0.21766	-0.20079	0.012503	-0.39176	0.103848	0.137849	0.926451	0.002581	-0.33417	-0.30949	-0.01645	-0.21739	0.01161	0.018177	0.457305	0.073351
LAD1	-0.03792	0.305263	-0.09536	-0.05555	0.783423	0.024794	0.488583	0.687064	-0.00142	0.688216	-0.25025	0.368156	0.496265	1	0.04866	0.994088
LCN15	0.025059	-0.21627	0.203536	-0.11497	0.853204	0.109386	0.128872	0.394434	0.113057	-0.37409	0.219647	-0.3593	0.772798	0.005217	0.926435	0.007097
LOC389813	0.043283	-0.16411	0.296138	-0.07705	0.749203	0.226816	0.025307	0.568897	0.125822	-0.20859	0.063937	-0.2856	0.797634	0.08209	0.661756	0.027175
LRRC26	0.122766	-0.22198	0.345505	-0.01838	0.362941	0.100115	0.00848	0.892039	0.30213	-0.44672	0.338659	-0.32987	0.979361	0.000929	0.988564	0.012584
RP13-3880	0.018601	-0.09328	0.197234	-0.30969	0.890766	0.494097	0.141405	0.019063	0.165441	-0.22639	0.265681	-0.15965	0.86407	0.065154	0.961129	0.144619
MAP3K15	0.148639	-0.10785	0.283757	-0.26838	0.269817	0.428817	0.032432	0.043536	0.140082	-0.40484	0.327941	-0.35724	0.823433	0.002629	0.986068	0.0074
LOC389842	-0.04352	0.341596	-0.22736	-0.07627	0.747882	0.009977	0.088976	0.572812	0.041192	0.192747	0.189152	0.103646	0.607114	0.900319	0.89333	0.753475
USP27X	0.134225	-0.06398	-0.04202	-0.14295	0.319522	0.639454	0.756297	0.288791	-0.03404	-0.05507	-0.09572	-0.201	0.412171	0.359688	0.268252	0.092757
PAGE2B	-0.08594	-0.25267	0.230515	-0.36589	0.524993	0.060279	0.084507	0.005127	0.033397	-0.48582	0.142079	-0.35193	0.587196	0.00031	0.824075	0.008231
ZCCHC13	0.02067	-0.04651	0.093941	-0.22727	0.878703	0.73359	0.487016	0.089105	0.115622	-0.27227	0.204473	-0.25578	0.777916	0.033581	0.911063	0.043108
LOC389895	0.001118	-0.03302	0.228444	-0.13519	0.993416	0.809074	0.087416	0.316024	0.111671	-0.35939	0.208546	-0.17475	0.770004	0.007084	0.915399	0.122706
UBE2NL	-0.15813	0.08119	0.046538	-0.27642	0.240064	0.551944	0.731028	0.037394	-0.00486	-0.0986	0.066681	-0.1928	0.487203	0.25722	0.668294	0.099615
AFF3	0.192367	-0.35893	0.236051	0.113517	0.151689	0.006596	0.077105	0.400478	0.402974	-0.55387	0.284908	-0.34625	0.997254	3.26E-05	0.971084	0.009206
tAKR	-0.06856	-0.12263	-0.05229	-0.24092	0.612349	0.367907	0.699253	0.071026	-0.01316	-0.30063	0.022564	-0.38254	0.465409	0.021174	0.558483	0.004349
LOC389936	0.026134	-0.01274	0.160456	-0.26732	0.846986	0.925768	0.233136	0.044403	0.030673	-0.17441	0.22173	-0.20056	0.579266	0.125922	0.925985	0.093251
C1QL3	0.021199	-0.15873	0.199098	-0.17563	0.87562	0.24261	0.137606	0.191281	0.089731	-0.40318	0.153655	-0.35535	0.723421	0.002733	0.843211	0.007687
ACAT2	-0.1767	0.245807	-0.34634	0.002362	0.188562	0.067837	0.008312	0.986085	-0.37393	0.310209	-0.28996	0.145126	0.005234	0.982052	0.026672	0.832053
RND3	0.019207	0.338373	-0.26662	0.088526	0.887232	0.010749	0.044989	0.512574	-0.04015	0.66315	-0.11067	0.507623	0.395535	1	0.234612	0.999841
PPIAP19	0.087577	-0.25567	0.129162	0.089917	0.51712	0.057191	0.338283	0.505945	0.081405	-0.20731	0.092544	-0.0955	0.704648	0.083426	0.72729	0.263916
NKX1-2	-0.08492	-0.02493	0.162746	-0.14345	0.533746	0.855297	0.230754	0.29155	0.121028	-0.10336	0.18428	-0.19109	0.788497	0.247124	0.887208	0.101667
OR52K1	0.21445	-0.28362	0.132793	-0.31857	0.10918	0.03415	0.324761	0.01573	-0.03812	-0.34714	-0.02587	-0.27444	0.401821	0.009737	0.433816	0.034048
OR52I1	-0.01171	-0.0247	0.188922	-0.0518	0.931765	0.857954	0.163176	0.704595	0.074778	-0.13229	0.172476	-0.22666	0.687294	0.193174	0.868548	0.067165
OR51D1	-0.17274	-0.193	-0.05408	-0.2725	0.202992	0.158013	0.69219	0.04217	-0.08461	-0.38899	0.073345	-0.38705	0.288049	0.003772	0.683964	0.003938
OR52A4	-0.08563	-0.14602	0.023204	-0.34083	0.526533	0.282899	0.863965	0.009476	0.042738	-0.28053	0.077864	-0.36029	0.609783	0.030978	0.692302	0.007525
OR52A5	0.121405	-0.12865	0.080038	-0.32698	0.368326	0.3447	0.553962	0.013043	0.268269	-0.25652	0.303505	-0.39291	0.962608	0.044477	0.9774	0.003794
OR51B6	0.088489	-0.1533	0.180948	-0.21526	0.51275	0.259329	0.177977	0.107821	0.080015	-0.47834	0.17858	-0.36502	0.70146	0.000386	0.879743	0.006311
OR51M1	0.191894	-0.04977	0.143826	-0.21613	0.152716	0.71566	0.285805	0.106359	0.165704	-0.2771	0.156518	-0.28812	0.864457	0.031136	0.847732	0.026086
OR51Q1	-0.11748	-0.14057	0.117651	-0.2666	0.384111	0.301446	0.383425	0.045006	-0.02694	-0.19894	0.013087	-0.29635	0.430282	0.095083	0.533596	0.02404

OR51I1	-0.00781	-0.1508	0.2545	-0.13209	0.954038	0.267271	0.056075	0.327362	-0.14455	-0.47354	0.100702	-0.21871	0.168926	0.000444	0.744794	0.072102
OR51I2	-0.03785	-0.10405	0.088668	-0.31242	0.779854	0.445375	0.511894	0.01798	-0.06244	-0.28894	0.080691	-0.23372	0.340088	0.025738	0.700875	0.058996
OR52D1	-0.01624	-0.15804	0.017051	-0.18856	0.905431	0.249158	0.900074	0.164	-0.09454	-0.25784	0.030796	-0.22753	0.266008	0.041812	0.579581	0.06416
OR52H1	-0.04716	-0.12386	0.199606	0.181092	0.727573	0.363078	0.136584	0.177625	-0.00423	-0.14569	0.247496	0.003474	0.48888	0.167007	0.949409	0.50914
OR52N4	-0.1765	-0.1456	0.102916	0.098247	0.189058	0.284295	0.446175	0.46718	0.151316	-0.42862	0.112551	-0.32241	0.842269	0.00148	0.76917	0.014435
OR52N5	0.014305	-0.30827	0.10585	-0.36883	0.916662	0.022034	0.437497	0.005155	0.070971	-0.20008	0.053899	-0.25416	0.678417	0.093788	0.635886	0.046019
OR52N2	0.002808	-0.0641	0.07811	-0.23938	0.983458	0.638843	0.563579	0.072901	-0.09736	-0.1993	0.086576	-0.28027	0.25988	0.092103	0.71413	0.029609
OR52E6	-0.10257	-0.15574	-0.073	-0.08493	0.447694	0.251728	0.589464	0.529905	-0.07584	-0.32914	-0.06618	-0.31096	0.310247	0.013631	0.334748	0.018802
OR52E8	0.157757	-0.12643	0.19756	-0.33283	0.241193	0.353155	0.140735	0.011415	0.008798	-0.33316	0.168539	-0.30156	0.523136	0.011833	0.865793	0.020842
OR52E4	0.255518	-0.24687	0.216168	-0.29742	0.055066	0.066614	0.106303	0.02465	0.204601	-0.40108	0.000176	-0.4114	0.911202	0.003162	0.500453	0.002496
OR56A3	0.065408	-0.12142	0.207523	-0.2229	0.628812	0.372688	0.121389	0.095595	0.263168	-0.2632	0.144378	-0.14608	0.961392	0.038592	0.827985	0.166346
OR56A5	0.072358	-0.08155	0.026097	-0.24449	0.596138	0.553948	0.848588	0.069373	-0.02124	-0.16215	0.108926	-0.20878	0.444287	0.14082	0.761848	0.081895
OR10A6	0.038484	-0.2299	-0.07621	-0.3279	0.778251	0.091309	0.576658	0.013623	-0.04763	-0.19439	0.042735	-0.15554	0.37802	0.100349	0.608509	0.153802
ACCSL	0.219275	-0.08132	0.33825	-0.19878	0.101249	0.551292	0.010068	0.138242	0.216865	-0.28948	0.206592	-0.2327	0.926145	0.025511	0.913339	0.059821
OR4X1	0.137706	-0.10417	0.211711	-0.1803	0.307017	0.444843	0.113889	0.179556	-0.03897	-0.42927	0.092392	-0.20758	0.39853	0.001456	0.726958	0.083141
OR5D13	0.037271	-0.16604	0.111038	-0.10359	0.785071	0.225679	0.415237	0.447395	0.048749	-0.2823	-0.18298	-0.24118	0.624759	0.030135	0.117245	0.055244
OR5D16	0.024469	-0.28349	0.220515	-0.19372	0.856627	0.034241	0.099285	0.148769	-0.02942	-0.31757	0.131212	-0.2519	0.423052	0.015754	0.804871	0.045631
OR5W2	-0.08972	0.047751	0.060226	-0.24009	0.506858	0.726731	0.6563	0.072033	0.085915	-0.391	0.029444	-0.35024	0.714887	0.003607	0.576129	0.008512
OR8H2	0.018078	-0.02588	-0.06648	-0.20269	0.89382	0.849816	0.623197	0.130512	0.010753	-0.21304	0.044135	-0.21087	0.528271	0.077585	0.613278	0.079755
OR8H3	-0.14451	-0.15706	-0.0564	-0.24436	0.28796	0.252137	0.679691	0.069524	-0.12005	-0.27791	0.071852	-0.1393	0.216073	0.032273	0.678494	0.180725
OR5T3	0.036631	-0.03656	-0.10648	-0.26853	0.788678	0.789058	0.434756	0.045386	0.097181	-0.2068	0.111953	-0.27716	0.737309	0.086444	0.765318	0.032651
OR5T1	0.118088	-0.25445	0.026223	-0.26473	0.381651	0.058425	0.846471	0.046584	0.096667	-0.39759	-0.01747	-0.45597	0.738617	0.003108	0.454663	0.000725
OR8K1	0.13918	-0.1197	0.130908	-0.30683	0.306296	0.38405	0.336213	0.02144	0.093393	-0.38608	0.188908	-0.40429	0.731495	0.004023	0.893029	0.002663
OR5M9	-0.02506	-0.03972	0.1167	-0.30051	0.854525	0.773408	0.391701	0.024425	-0.00369	-0.3628	0.041139	-0.33546	0.490303	0.006606	0.605772	0.011331
OR5M10	0.040054	-0.11504	0.158062	-0.34576	0.769448	0.402973	0.244635	0.009052	0.259668	-0.22275	-0.00124	-0.32115	0.959309	0.068382	0.496787	0.014771
OR5M1	0.095664	-0.11318	0.08527	-0.42813	0.483084	0.410667	0.532071	0.000996	-0.18135	-0.01395	0.086702	-0.15543	0.113882	0.463334	0.71441	0.151159
OR9G1	0.244191	-0.03198	0.047053	-0.42604	0.069723	0.8167	0.730572	0.001061	0.17496	-0.25864	0.10714	-0.19287	0.87758	0.041318	0.758196	0.099536
OR5AK2	0.061026	-0.04708	0.168575	-0.01806	0.655026	0.732868	0.214253	0.894912	0.094349	-0.40158	0.044896	-0.22408	0.731212	0.003126	0.613855	0.069465
OR5B2	0.117092	-0.03223	-0.06007	-0.27868	0.385706	0.813566	0.657156	0.035803	0.0451	-0.26041	0.19868	-0.39388	0.617003	0.040241	0.904625	0.003381
OR5B12	-0.02061	-0.16531	0.149804	-0.12994	0.879039	0.22339	0.266041	0.335359	0.052381	-0.36095	0.217388	-0.25359	0.635225	0.006862	0.92428	0.044518
OR5AN1	0.049904	0.096279	0.074242	-0.23839	0.714921	0.484396	0.586583	0.076835	0.089954	-0.34999	0.20703	-0.35525	0.723916	0.008553	0.913804	0.007702
OR4D10	0.051784	0.081823	0.235709	-0.12583	0.702047	0.548835	0.077546	0.351013	-0.03374	-0.30323	0.141521	-0.20885	0.411934	0.020254	0.823118	0.081817
OR4D9	0.150679	0.010156	0.181068	-0.253	0.263225	0.940784	0.177684	0.057585	-0.03267	-0.14761	-0.0107	-0.2961	0.414674	0.163805	0.472198	0.022855
LAG3	0.050904	-0.20817	0.341772	-0.02826	0.706883	0.123658	0.009268	0.834692	0.144821	-0.20999	0.271721	-0.14475	0.831539	0.080649	0.96451	0.168578
OR10V1	0.023996	-0.09158	0.123751	-0.21838	0.859371	0.502036	0.359074	0.102686	0.074505	-0.18073	0.067458	-0.19878	0.688674	0.114694	0.670137	0.09269
GPR152	0.014143	-0.08658	0.223938	-0.17515	0.916838	0.525757	0.094017	0.192527	0.090964	-0.3324	0.152728	-0.3057	0.726152	0.012004	0.841729	0.019412
FOLR4	0.083661	-0.2268	0.275341	-0.23236	0.539865	0.095889	0.039988	0.084843	0.025527	-0.35401	0.151096	-0.28732	0.566863	0.007896	0.8391	0.026426
BSX	0.055571	-0.20087	0.269685	-0.30638	0.681385	0.137681	0.042486	0.020453	0.028118	-0.29504	0.133531	-0.30479	0.573579	0.023264	0.809069	0.01972
OR6X1	0.274745	-0.10295	0.246273	-0.22929	0.040437	0.454495	0.0673	0.089151	0.182482	-0.39826	0.359765	-0.42894	0.887591	0.003061	0.992395	0.001468
OR6M1	0.024149	-0.04598	0.091062	-0.11623	0.85977	0.738881	0.504474	0.393634	-0.05655	-0.18174	-0.01501	-0.24112	0.356069	0.116073	0.461478	0.05529
OR10G4	-0.06585	0.10073	0.085236	-0.17762	0.626513	0.460103	0.528427	0.186223	0.213726	0.062935	-0.08517	-0.09158	0.923095	0.661117	0.289005	0.272496
OR10G7	-0.07931	0.021655	0.12349	-0.21828	0.557566	0.874129	0.360094	0.102842	0.054808	-0.26559	0.028228	-0.27817	0.641238	0.037216	0.573019	0.030615
OR8B3	0.183664	-0.01028	0.174391	-0.35607	0.171445	0.940084	0.194486	0.006558	-0.04102	-0.19518	0.187648	-0.21165	0.393317	0.09682	0.891465	0.078968
OR8A1	0.069053	-0.14629	0.07508	-0.34958	0.609771	0.282011	0.57885	0.007689	0.013308	-0.4603	0.136718	-0.41341	0.534973	0.000644	0.81475	0.002147
LOC390282	0.0223	-0.05228	0.183644	-0.29694	0.869219	0.701986	0.171491	0.024897	-0.00823	-0.30572	0.129569	-0.27777	0.478344	0.019404	0.801865	0.030809
LAIR1	-0.17075	-0.22115	0.087273	0.533382	0.208308	0.104687	0.522443	2.31E-05	-0.14636	-0.06008	0.005988	0.115717	0.16587	0.34581	0.51557	0.778106
OR6C1	0.061332	-0.28772	0.229077	-0.17354	0.653402	0.033168	0.089459	0.200852	0.109382	-0.3769	0.118581	-0.23709	0.762775	0.005355	0.778353	0.058425
OR6C75	0.167659	-0.1595	0.146814	-0.28651	0.216787	0.244766	0.280258	0.03229	0.10845	-0.32228	0.124965	-0.32699	0.763444	0.01447	0.793297	0.013275
OR6C76	-0.07287	-0.20057	-0.06313	-0.50001	0.590095	0.138289	0.640819	7.49E-05	0.112661	-0.46286	0.106285	-0.60729	0.772	0.0006	0.756439	3.82E-06
OR6C70	-0.05948	-0.1897	-0.0692	-0.25596	0.660288	0.161412	0.609015	0.05463	0.032427	-0.14457	0.006947	-0.15621	0.583735	0.171694	0.517848	0.152744

RPL10P13	0.172902	-0.22169	0.213006	0.018884	0.198382	0.100571	0.111644	0.889114	0.162445	-0.21184	0.141323	-0.17761	0.859622	0.078776	0.822778	0.11882
LAIR2	0.139025	-0.05137	-0.01032	-0.27946	0.302361	0.706901	0.939273	0.035268	0.29715	-0.19772	0.177492	-0.25556	0.977543	0.093893	0.878281	0.043245
LOC390414	-0.24016	-0.10623	0.12472	-0.07594	0.071945	0.435842	0.355295	0.574487	0.029515	-0.31173	-0.02552	-0.08813	0.577192	0.017475	0.433918	0.280135
LOC390424	0.05378	0.059095	0.071037	-0.28435	0.691129	0.665284	0.599516	0.03206	0.106363	-0.01927	0.153586	-0.11325	0.759138	0.449433	0.843101	0.226809
OR4N2	0.082791	-0.03301	0.157922	-0.41659	0.544104	0.810933	0.245056	0.001405	0.091604	-0.29795	0.128694	-0.38751	0.725237	0.023415	0.797452	0.004269
OR4K2	0.037121	-0.24916	0.106565	-0.25144	0.783977	0.064054	0.430126	0.059198	0.161672	-0.38417	0.210444	-0.22308	0.855657	0.004589	0.914837	0.07038
OR4K13	0.095372	-0.09413	0.226022	-0.26772	0.480374	0.490162	0.090917	0.044075	-0.10042	-0.40583	0.154007	-0.33791	0.253331	0.002569	0.843771	0.010817
OR4K17	0.075558	-0.19311	0.125019	-0.22121	0.576427	0.153887	0.354131	0.098198	-0.03343	-0.38315	0.113984	-0.42219	0.412721	0.004291	0.772029	0.001735
OR4N5	0.110506	-0.29115	0.109134	-0.2152	0.413171	0.02948	0.419028	0.107922	0.121499	-0.28701	0.196899	-0.35943	0.789405	0.026562	0.902581	0.007078
OR11G2	-0.1165	0.035408	-0.06362	-0.16124	0.388115	0.795575	0.638256	0.230837	-0.01281	-0.34611	0.072655	-0.23788	0.466336	0.009232	0.682356	0.055701
OR11H4	-0.00267	-0.10906	0.08027	-0.27921	0.984397	0.428013	0.556475	0.037167	-0.0357	-0.49628	0.078195	-0.38641	0.406906	0.000226	0.695175	0.003995
RNASE9	-0.05862	-0.17534	0.018622	-0.20623	0.6649	0.196168	0.890645	0.123771	0.179369	-0.34808	0.113391	-0.2451	0.883519	0.008882	0.770849	0.050321
OR5AU1	-0.04729	-0.03772	0.214866	-0.26012	0.72683	0.782549	0.108477	0.050684	0.147699	-0.26921	0.177707	-0.26323	0.836349	0.03521	0.878572	0.038571
SERPINA2	-0.04818	-0.12751	0.117996	-0.19066	0.721937	0.348999	0.382022	0.155424	0.063592	-0.33474	0.179861	-0.31398	0.662705	0.011486	0.881449	0.016796
LOC39053C	-0.22967	-0.04721	0.004347	-0.20522	0.085691	0.72969	0.974397	0.125662	0.017195	-0.26208	0.002245	-0.23604	0.545152	0.039249	0.50584	0.057139
OR4M2	0.326127	-0.21656	0.116232	-0.15638	0.014169	0.108899	0.393617	0.249751	0.184221	-0.28362	0.270073	-0.06322	0.887133	0.029513	0.961885	0.339966
LOC390561	-0.11513	-0.15613	-0.05299	-0.11781	0.39377	0.250532	0.695463	0.382793	0.056517	-0.2824	-0.00697	-0.25576	0.645451	0.028615	0.481867	0.043123
hCG_16457	-0.07928	0.070089	0.276546	-0.1944	0.557729	0.607743	0.037304	0.147332	0.144569	-0.25133	0.245426	-0.29128	0.831114	0.04601	0.947919	0.024765
LBXCOR1	0.001293	-0.16771	0.234329	-0.18133	0.992383	0.216638	0.079351	0.177044	0.040855	-0.34983	0.329011	-0.33726	0.605058	0.009245	0.985397	0.011739
LALBA	-0.00641	0.038627	0.146612	-0.28578	0.962242	0.777448	0.276477	0.031168	0.138664	-0.39698	0.110513	-0.34004	0.820961	0.003151	0.765067	0.010383
ANKRD34C	-0.03995	-0.09595	0.233881	-0.27761	0.767946	0.481784	0.079943	0.036547	0.225834	-0.39658	0.139988	-0.40502	0.934364	0.00318	0.820473	0.002618
C15orf58	-0.24456	0.10384	-0.19728	-0.03835	0.066737	0.446296	0.141317	0.776985	-0.20308	0.351921	-0.1519	0.218076	0.087936	0.991767	0.159606	0.927297
OR4F6	0.172314	-0.27463	0.146144	-0.546	0.204114	0.042445	0.282482	1.35E-05	0.009462	-0.43962	0.139943	-0.36126	0.524882	0.001118	0.820395	0.006819
OR4F15	0.00959	-0.19423	0.020472	-0.25253	0.943556	0.151458	0.879855	0.058076	-0.27898	-0.11763	0.07747	-0.17702	0.030221	0.218118	0.693508	0.11962
C1QTNF8	-0.04121	-0.28063	0.219082	-0.21337	0.760837	0.036172	0.101558	0.111019	0.149735	-0.46362	0.172385	-0.31673	0.839698	0.000587	0.871258	0.015992
C16orf38	-0.04038	-0.07959	0.265317	-0.09866	0.765534	0.559836	0.046084	0.46532	-0.00813	-0.20206	0.094136	-0.20887	0.478611	0.08904	0.730749	0.081796
OR3A4	-0.01345	-0.11269	0.171245	-0.24051	0.920871	0.408271	0.202783	0.07153	0.026521	-0.28192	0.116264	-0.35847	0.569443	0.028838	0.776541	0.007218
KRT39	0.140664	0.138967	0.069124	0.091947	0.29664	0.307042	0.609402	0.496348	-0.08372	0.166855	0.023943	0.06622	0.294488	0.860494	0.560564	0.66534
LAMA2	0.213052	-0.26324	0.177739	0.369927	0.111565	0.049977	0.185925	0.004622	0.428458	-0.29693	0.364752	-0.07475	0.998514	0.02254	0.993121	0.31076
OR7G2	-0.10073	-0.07099	0.006006	-0.14445	0.455933	0.603101	0.964632	0.283711	-0.05903	-0.15784	0.027809	-0.1396	0.348378	0.147397	0.571947	0.177408
OR7G3	-0.03677	0.068828	0.253038	-0.23526	0.78788	0.61756	0.059889	0.080914	0.203534	-0.37641	0.212575	-0.4155	0.910042	0.00541	0.917029	0.002267
OR7A10	0.001914	-0.21516	0.09592	-0.14228	0.988726	0.111276	0.477845	0.291088	-0.01198	-0.18197	0.14186	-0.13365	0.468514	0.11307	0.8237	0.187948
LAMA3	0.226608	0.081643	-0.07778	0.138921	0.090061	0.54972	0.565211	0.302726	0.078439	0.471761	-0.14956	0.384342	0.697827	0.999533	0.163394	0.99582
ZNF793	-0.06422	0.180201	-0.18698	-0.14316	0.635091	0.18385	0.163698	0.288075	-0.11534	0.326008	-0.00459	0.194605	0.222633	0.986483	0.488053	0.902509
FLJ16165	-0.12604	-0.1011	0.16051	-0.42188	0.350191	0.458459	0.232977	0.001081	-0.02669	-0.36145	0.153783	-0.41671	0.430131	0.006792	0.843415	0.001983
LOC39094C	-0.0627	-0.01972	-0.20383	-0.19813	0.643103	0.885314	0.128306	0.139565	-0.25955	-0.02342	0.008902	0.103632	0.042559	0.439318	0.522868	0.750939
LOC39095E	0.092459	-0.16991	0.234424	-0.14515	0.493942	0.210602	0.079226	0.281331	0.101043	-0.35885	0.247585	-0.27715	0.747984	0.007161	0.949472	0.031109
ZNF805	-0.11888	0.128539	-0.37798	0.12046	0.378441	0.345104	0.003746	0.372091	-0.05758	0.216237	-0.22998	0.115101	0.351929	0.925541	0.064279	0.776882
HES3	0.02162	-0.22964	0.233331	-0.18616	0.873173	0.088658	0.080676	0.165599	0.016108	-0.45557	0.294029	-0.35678	0.542308	0.000733	0.97503	0.007469
PRAMEF12	-0.00457	-0.21907	0.230166	-0.38765	0.973098	0.104768	0.084992	0.002889	-0.06082	-0.38668	0.222792	-0.29966	0.344025	0.003971	0.92936	0.021525
RHOG	0.05378	-0.06281	0.089032	0.288543	0.691129	0.645619	0.510157	0.029502	0.040171	-0.08358	0.000414	-0.176	0.60452	0.290386	0.501077	0.121001
LAMA4	0.365499	-0.13278	0.246809	0.320384	0.005606	0.333844	0.066688	0.016071	0.287601	-0.08399	0.235194	0.256334	0.973694	0.289472	0.940056	0.957243
PLA2G2C	-0.02084	-0.26775	0.190135	-0.14969	0.877728	0.046033	0.156587	0.266406	-0.00147	-0.34596	0.08359	-0.26547	0.496145	0.00926	0.707439	0.037286
FRRS1	-0.14207	0.21453	-0.32322	-0.1427	0.291785	0.112346	0.01419	0.28964	-0.32467	0.354975	-0.12794	0.352918	0.013852	0.992255	0.201143	0.991929
LOC391081	-0.18418	-0.08641	-0.00754	-0.18452	0.17022	0.526567	0.955629	0.169419	-0.0436	-0.36468	0.054275	-0.39494	0.386784	0.006355	0.63837	0.003301
LAMA5	0.018755	0.06634	-0.04018	0.056232	0.889867	0.62712	0.766649	0.677803	-0.02867	0.372515	-0.15881	0.267554	0.424985	0.994606	0.148704	0.963882
VHLL	-0.18574	0.066668	0.077327	-0.17921	0.16658	0.625418	0.567507	0.182249	-0.07538	-0.24359	-0.06673	-0.40178	0.30927	0.051412	0.331584	0.002823
OR10K2	0.053983	-0.02609	0.086255	-0.19862	0.690024	0.848628	0.523492	0.138582	-0.15817	-0.32123	0.17673	-0.35754	0.14689	0.014747	0.87725	0.007355
OR10K1	0.007533	-0.02435	0.097015	-0.22102	0.955649	0.858607	0.47281	0.098499	0.08089	-0.44648	0.19974	-0.33279	0.703468	0.000935	0.905828	0.011916
OR6Y1	-0.02327	-0.04276	0.148093	-0.18805	0.863597	0.754337	0.271602	0.161256	0.025528	-0.32769	0.129118	-0.22744	0.566867	0.013103	0.801034	0.064239

OR6K3	0.0616	-0.13124	0.027926	-0.28416	0.648966	0.334977	0.836629	0.032174	0.058299	-0.15623	0.113441	-0.23046	0.649825	0.149903	0.770948	0.061678
VSIG8	-0.16467	-0.14295	0.253455	-0.3168	0.220921	0.293248	0.057126	0.01635	0.020408	-0.63125	0.196246	-0.45168	0.552929	1.67E-06	0.899151	0.000921
RPL26P12	0.249446	-0.05365	0.273225	-0.28872	0.063738	0.69728	0.041604	0.030927	0.100278	-0.34201	0.089361	-0.09157	0.743898	0.010737	0.717978	0.274828
OR11L1	0.089496	-0.10757	0.082447	-0.18409	0.507944	0.430047	0.542054	0.170426	0.025904	-0.35928	0.193225	-0.36287	0.567842	0.007099	0.898268	0.006596
OR2L8	0.122611	-0.07879	0.123579	-0.12247	0.36355	0.563796	0.359746	0.364118	0.032321	-0.19164	-0.06941	-0.19542	0.584429	0.101008	0.325253	0.096545
OR2AK2	0.026794	-0.23473	0.104313	-0.05798	0.843167	0.081616	0.43999	0.668353	-0.11636	-0.31577	0.067656	-0.06388	0.220621	0.016268	0.670604	0.33661
OR2L3	0.185422	-0.18781	0.217317	-0.16545	0.171259	0.169731	0.107646	0.222987	-0.08124	-0.35642	0.033635	-0.15668	0.295731	0.007523	0.586809	0.149207
OR2M2	0.147102	-0.11909	-0.01088	-0.2064	0.274856	0.382017	0.935976	0.123467	0.061692	-0.39876	-0.08937	-0.33387	0.658101	0.003026	0.279683	0.011676
OR2M7	0.060599	-0.0258	-0.00086	-0.31067	0.654304	0.850297	0.994906	0.018668	0.05704	-0.37199	0.033744	-0.413	0.646737	0.005455	0.587086	0.002168
LAMB1	0.212426	0.20044	0.05762	0.492444	0.115997	0.142296	0.673163	0.000116	0.088713	0.515158	-0.17433	0.581106	0.721157	0.999876	0.126041	0.999989
OR2G6	0.050744	-0.07926	0.194102	-0.18823	0.710334	0.565124	0.151732	0.164742	0.227556	-0.40707	0.067584	-0.43916	0.935859	0.002495	0.670436	0.001132
SPINT4	-0.00846	0.037343	0.14874	-0.10537	0.950216	0.78467	0.269489	0.435339	0.10433	-0.21059	-0.07271	-0.36407	0.752392	0.082487	0.319521	0.006974
SUMO1P1	-0.02405	-0.05578	0.104389	-0.21943	0.860348	0.683057	0.443885	0.104184	0.057654	-0.30468	0.209195	-0.1814	0.646611	0.020926	0.913531	0.116525
C21orf81	-0.04813	0.286255	-0.10185	-0.27188	0.722208	0.032452	0.450908	0.040768	-0.22155	0.205987	-0.17261	-0.16132	0.069475	0.915187	0.128432	0.142073
RPL23AP12	0.033327	-0.26073	0.098974	-0.1954	0.805597	0.05228	0.463872	0.145215	-0.00227	-0.31019	0.375472	-0.25768	0.494017	0.017953	0.994483	0.041912
LAMB2	0.319316	-0.12616	0.231957	0.149213	0.016448	0.358734	0.085395	0.272388	0.368099	-0.07272	0.146037	-0.01691	0.994081	0.315513	0.830773	0.455602
C2orf79	-0.21592	0.10966	-0.27303	-0.11472	0.106721	0.421082	0.039887	0.395456	-0.2338	0.340605	-0.24741	0.267399	0.058928	0.989728	0.05065	0.963796
LOC391358	-0.04587	-0.03789	-0.04214	-0.17141	0.734736	0.781618	0.755624	0.202339	-0.15825	0.092748	0.114602	0.155986	0.149579	0.727733	0.770576	0.846898
SULT6B1	0.017581	-0.1865	0.176109	-0.20504	0.897671	0.172779	0.194175	0.129532	-0.04775	-0.43244	0.07317	-0.30483	0.376338	0.001344	0.683556	0.019706
RPS12P4	0.18975	0.015869	0.241622	0.158962	0.161306	0.908454	0.072807	0.241925	0.13831	0.104487	-0.13631	0.144658	0.82034	0.755236	0.18597	0.831265
LAMB3	0.075341	0.089177	-0.15307	0.027106	0.577524	0.513377	0.255631	0.841365	-0.10206	0.57482	-0.16849	0.407815	0.249863	0.999985	0.134273	0.997548
LAMC1	0.380233	0.001281	0.068342	0.25973	0.003528	0.992524	0.613466	0.051045	0.372363	0.118192	0.155165	0.22556	0.994588	0.782982	0.845607	0.934123
RPL23AP38	-0.0007	0.266672	-0.09138	0.050871	0.995894	0.046954	0.499029	0.707064	0.172137	-0.09533	-0.20432	-0.00741	0.873672	0.264278	0.089101	0.480503
LOC391532	-0.22675	-0.02227	0.072331	-0.10529	0.09286	0.870605	0.596275	0.439925	0.222518	-0.28186	0.109445	-0.4807	0.931409	0.028863	0.762903	0.000361
LAMP1	0.111035	0.149012	-0.05389	0.154166	0.410924	0.273041	0.690538	0.252207	-0.05629	0.509631	-0.29136	0.351736	0.355097	0.999851	0.026075	0.991737
HSP90AB2F	-0.02824	0.004382	-0.02155	-0.24641	0.834794	0.974428	0.873578	0.064637	-0.04733	0.027239	-0.06065	-0.00338	0.377388	0.571302	0.346138	0.491106
RPS15AP17	0.253142	0.009871	0.012821	0.060705	0.059781	0.942977	0.92528	0.656725	-0.02556	0.141298	-0.32854	-0.02286	0.43306	0.825535	0.013781	0.440063
TRIM61	0.193922	-0.19431	0.318433	-0.16658	0.148345	0.151283	0.015776	0.215542	0.306436	-0.34149	0.164745	-0.24484	0.979687	0.010844	0.857389	0.052509
TRIM75	0.12344	0.008887	0.299486	-0.24078	0.360292	0.94817	0.023623	0.071196	0.298942	-0.35371	0.315994	-0.15572	0.978212	0.007944	0.982769	0.150707
LOC391722	-0.18138	0.002261	-0.17967	-0.17867	0.176932	0.986806	0.181106	0.18359	-0.13286	0.176985	0.01443	0.004374	0.192147	0.877596	0.537035	0.511375
HELT	0.111715	-0.09652	0.305812	-0.13463	0.408044	0.479139	0.020701	0.318058	0.20716	-0.38032	0.26524	-0.29633	0.916422	0.004563	0.960873	0.022768
LOC391742	-0.13795	-0.1063	0.042216	-0.19069	0.306155	0.435547	0.755194	0.155361	-0.08512	-0.3458	0.079735	-0.31382	0.286912	0.009288	0.698696	0.016843
LOC391764	-0.02871	-0.23593	0.14561	-0.20019	0.832118	0.080033	0.279808	0.135424	-0.02626	-0.39405	0.202731	-0.31769	0.431244	0.003368	0.909161	0.015719
LAMC2	-0.24147	-0.04982	-0.22037	-0.20855	0.070366	0.715383	0.09951	0.11952	-0.44728	0.23125	-0.18316	0.104704	0.000915	0.938983	0.114229	0.755688
ARHGAP1	0.05974	0.249998	-0.08075	0.211474	0.66185	0.065651	0.554128	0.11768	0.049865	0.511689	-0.09904	0.39056	0.628959	0.999861	0.258733	0.996357
LAMP2	0.092023	0.298249	-0.31471	0.211224	0.495988	0.025573	0.017112	0.114743	-0.09773	0.491426	-0.14773	0.363772	0.2591	0.999738	0.166408	0.993525
RPSA	-0.12904	0.402332	-0.26709	0.194724	0.33875	0.002113	0.044596	0.146641	0.145986	0.30723	-0.10344	0.225431	0.833497	0.981095	0.249461	0.934009
OR2A25	0.057276	-0.28985	0.182686	-0.16028	0.675002	0.03183	0.177776	0.237982	0.172357	-0.3377	0.167094	-0.26117	0.87398	0.01086	0.863699	0.039788
GDF6	0.05833	-0.13274	0.265661	-0.21298	0.666472	0.32944	0.045792	0.111682	0.142637	-0.46687	0.14617	-0.3427	0.827833	0.000536	0.830995	0.009866
LOC392285	-0.09551	-0.0327	0.039566	0.042197	0.479754	0.810938	0.770126	0.755301	-0.10475	-0.02122	-0.04795	0.037107	0.244219	0.444343	0.377221	0.596705
LOC392288	-0.15759	-0.08517	0.103751	-0.09184	0.241686	0.532558	0.442473	0.496844	-0.0805	-0.26618	-0.00531	-0.23936	0.29956	0.038583	0.486364	0.056639
C9orf128	-0.12182	-0.09853	0.231977	-0.28574	0.366686	0.47003	0.082501	0.031189	-0.15525	-0.29259	0.207201	-0.27898	0.151442	0.024232	0.913985	0.030225
OR13J1	0.00165	-0.08765	0.223292	-0.21417	0.99037	0.524585	0.09808	0.112966	0.218352	-0.36825	0.18719	-0.16581	0.927557	0.005901	0.890893	0.135385
CTSL3	-0.04674	-0.09305	0.13779	-0.07738	0.729889	0.495164	0.306718	0.567251	0.038601	-0.2912	0.118214	-0.29467	0.600522	0.024796	0.780359	0.02341
LOC392364	0.029882	-0.08075	0.179505	-0.18577	0.82536	0.554112	0.18152	0.1665	-0.01381	-0.23716	0.276716	-0.2811	0.46371	0.056259	0.967127	0.02922
OR13C2	0.097094	-0.19003	0.1527	-0.08442	0.472448	0.160676	0.256802	0.53242	0.035471	-0.31783	0.135152	-0.13767	0.592518	0.015681	0.811973	0.18078
OR1L6	-0.01167	-0.26326	0.106799	-0.2766	0.93133	0.049955	0.429112	0.037267	-0.07507	-0.42847	0.007847	-0.34755	0.310013	0.001485	0.520401	0.008976
OR5C1	-0.11731	0.017793	0.165414	-0.1895	0.384836	0.896444	0.218819	0.158	0.147623	-0.27879	0.089626	-0.23239	0.836222	0.030312	0.720891	0.060072
OR1K1	0.058229	-0.04587	0.271871	-0.23299	0.669906	0.739486	0.042666	0.083971	0.115902	-0.16812	0.026188	-0.20714	0.778472	0.132033	0.567794	0.083602
LOC100133	0.012921	-0.00215	0.287669	-0.06419	0.924701	0.987589	0.031568	0.638369	0.180452	-0.29377	0.14764	-0.23502	0.884947	0.023764	0.833439	0.057951

LCN9	0.081974	-0.27397	0.165121	-0.15457	0.548096	0.042965	0.223927	0.255335	0.115096	-0.37029	0.149246	-0.09332	0.776871	0.005653	0.836085	0.268666
RPS27AP17	-0.03635	0.032824	0.158902	-0.23417	0.788371	0.810211	0.237752	0.079565	0.133943	-0.43718	0.227796	-0.40172	0.812583	0.001191	0.933833	0.002826
MAGEB6B	0.049918	-0.12477	0.122834	-0.21561	0.714848	0.364093	0.367114	0.1105	0.001573	-0.15891	0.127205	-0.11922	0.504139	0.145743	0.797491	0.215015
hCG_16443	-0.12387	0.049588	0.037877	-0.1225	0.358622	0.716652	0.779686	0.363976	0.020773	-0.12155	-0.10992	-0.26416	0.554495	0.210503	0.236126	0.038035
CXorf25	0.098322	-0.15574	0.23042	-0.24467	0.466836	0.251714	0.08464	0.066612	0.059133	-0.33472	0.218518	-0.3371	0.651866	0.011491	0.925364	0.010984
GLOD5	-0.01961	-0.21059	0.195083	-0.21467	0.884868	0.119255	0.145884	0.108804	0.007655	-0.41397	0.064596	-0.38988	0.520133	0.002119	0.663331	0.003698
FLJ44635	0.186822	-0.14422	0.151951	-0.03792	0.164071	0.288946	0.259168	0.779449	0.456144	-0.38532	0.304416	-0.36035	0.999279	0.004091	0.978982	0.006947
STMN1	0.104491	0.160305	-0.16672	-0.118	0.443434	0.242352	0.2194	0.386398	-0.13177	0.516676	-0.22264	0.42264	0.191359	0.999882	0.070778	0.998284
ARL13A	-0.08316	-0.05858	-0.0031	-0.11765	0.542295	0.670971	0.981925	0.387814	0.053758	-0.39261	0.129505	-0.32263	0.637104	0.003819	0.798942	0.015326
KRT18P49	-0.0275	-0.09727	0.110684	-0.07741	0.839064	0.475749	0.412414	0.567104	-0.08791	-0.22781	-0.06989	-0.22727	0.280645	0.063921	0.324114	0.064391
ELFN1	-0.00673	-0.09231	0.19676	-0.15494	0.960392	0.498645	0.142381	0.249808	0.021786	-0.19892	0.075309	-0.18817	0.557135	0.092536	0.688523	0.105219
TMEM195	0.10417	-0.26276	0.164217	0.240773	0.444844	0.052612	0.226509	0.07385	0.12234	-0.35019	0.141631	-0.05745	0.791019	0.00852	0.823308	0.352267
LASP1	-0.28663	0.285857	-0.12103	0.110362	0.032214	0.034375	0.374227	0.418099	-0.30644	0.536842	-0.197	0.427752	0.019164	0.99994	0.097303	0.998488
IQCA1L	0.105247	-0.06914	0.25755	-0.25065	0.440127	0.615945	0.055324	0.062431	0.163896	-0.23437	0.147565	-0.13993	0.861788	0.058465	0.833316	0.176838
LBP	0.096593	0.008018	0.174607	-0.31619	0.474744	0.953231	0.193927	0.016569	0.110714	-0.26217	0.14079	-0.3052	0.768066	0.039195	0.82186	0.01958
ARHGAP4	-0.05689	-0.3178	0.187839	0.373382	0.674262	0.016996	0.161745	0.004226	-0.06219	-0.31397	0.123937	-0.12377	0.340687	0.016797	0.791355	0.206246
LBR	0.00973	0.323811	-0.32268	0.194808	0.942736	0.014912	0.014362	0.146463	0.008976	0.421468	-0.06427	0.231781	0.523605	0.998234	0.337457	0.939422
OR2A5	0.056077	-0.03295	0.183683	-0.3174	0.681437	0.811251	0.17538	0.017143	-0.03038	-0.1442	0.047774	-0.15002	0.421488	0.172308	0.620939	0.162655
LCAT	0.157555	-0.23396	0.276035	0.236807	0.241805	0.082649	0.037671	0.076135	0.340008	-0.15145	0.159039	-0.11047	0.989609	0.157522	0.851643	0.232429
LCK	-0.18672	-0.23956	-0.00546	0.449569	0.164295	0.075366	0.96786	0.000451	-0.12996	-0.25146	0.0228	-0.09998	0.194666	0.045918	0.559089	0.254269
LCN1	0.102521	-0.13474	0.240782	-0.14924	0.452124	0.326694	0.073839	0.272297	0.183182	-0.29384	0.333364	-0.28134	0.885795	0.025048	0.986493	0.030589
LCN2	-0.15224	-0.23759	0.113043	0.341448	0.258249	0.077866	0.402459	0.009339	-0.26869	0.27128	-0.20589	0.291746	0.035492	0.965897	0.087408	0.975425
LCP1	-0.04696	-0.36602	0.000811	0.521677	0.728708	0.005533	0.995222	3.16E-05	-0.3007	-0.19233	-0.00909	0.0683	0.021149	0.100181	0.476368	0.674011
LCP2	-0.11212	-0.33084	0.089913	0.564955	0.406341	0.012756	0.505961	4.69E-06	-0.17358	-0.2834	0.072009	-0.04067	0.124325	0.02816	0.680847	0.394223
LCT	-0.02951	-0.0905	0.106471	-0.30903	0.827489	0.50714	0.430538	0.019336	0.140187	-0.39261	0.202077	-0.34245	0.823615	0.003479	0.90844	0.009913
LDHA	0.090547	0.34404	-0.15904	0.513768	0.5069	0.010114	0.241697	5.13E-05	0.186999	0.558319	-0.12152	0.449505	0.893323	0.999972	0.213256	0.999138
ARHGAP5	0.02007	0.140695	-0.1617	0.0761	0.8822	0.301009	0.22948	0.573687	0.193081	0.25113	0.073736	0.159447	0.900716	0.953858	0.684875	0.855075
MUC21	-0.12116	0.149481	-0.07817	-0.36138	0.373733	0.276042	0.566862	0.00621	0.107719	0.147971	-0.09842	-0.30968	0.759383	0.833986	0.262523	0.019218
LDHB	0.145248	0.192854	-0.30639	0.022421	0.281019	0.154434	0.020448	0.868513	-0.10981	0.383087	-0.18107	0.353637	0.233769	0.995703	0.11695	0.992044
LDHC	-0.08601	0.057083	-0.20308	-0.14891	0.532395	0.68181	0.137013	0.277913	-0.39899	0.237252	-0.30734	0.075984	0.003314	0.941705	0.02121	0.690085
LDLR	-0.11335	0.210429	-0.03768	0.041616	0.401155	0.119547	0.780807	0.758565	-0.06477	0.488499	-0.13225	0.288946	0.334459	0.999714	0.193246	0.974266
ARHGAP6	0.203905	-0.24925	0.359762	-0.12367	0.128166	0.063952	0.005984	0.359374	0.016239	-0.51059	0.377859	-0.22777	0.542652	0.000144	0.994753	0.063955
LECT2	0.113682	-0.12099	0.140047	-0.29987	0.404145	0.378898	0.303263	0.024745	0.127067	-0.27987	0.103997	-0.2636	0.797235	0.031302	0.749145	0.04009
LEP	-0.08956	-0.13405	0.069168	-0.34102	0.507642	0.324649	0.609175	0.009433	0.0313	-0.29072	0.09544	-0.31461	0.581799	0.024996	0.733569	0.016608
LEPR	0.275784	-0.21126	0.042095	0.398898	0.037852	0.118063	0.75587	0.002115	0.23963	0.121219	0.330806	0.320041	0.945641	0.788865	0.986776	0.984931
LETM1	-0.06937	0.132342	0.001048	0.035804	0.611455	0.335458	0.993884	0.793341	-0.10765	0.518284	-0.34658	0.223082	0.238196	0.999888	0.009842	0.931918
LFNG	0.139054	-0.09373	0.108672	-0.04042	0.306736	0.496075	0.425304	0.767385	0.022988	0.079378	-0.11317	-0.02189	0.560266	0.699992	0.229592	0.442587
LGALS1	0.281027	-0.31573	0.181781	0.369939	0.03421	0.017769	0.175954	0.004621	0.262884	-0.3336	0.135185	-0.02003	0.961226	0.011736	0.812031	0.447447
LGALS2	-0.20997	-0.17	0.003295	0.043668	0.120372	0.214666	0.980774	0.749298	-0.05674	-0.31505	-0.00553	-0.25602	0.35399	0.016479	0.485613	0.042952
LGALS3	-0.07869	0.359137	-0.23595	-0.1221	0.560697	0.006563	0.077235	0.365585	-0.10796	0.490529	-0.01455	0.231523	0.240118	0.999688	0.462666	0.937026
LGALS3BP	-0.06415	0.08625	-0.03117	0.286857	0.635466	0.52735	0.817944	0.030508	-0.1206	0.573097	-0.18723	0.407536	0.212324	0.999984	0.109054	0.997532
ARHGDI1	0.008162	-0.0219	0.060589	0.134229	0.95195	0.872743	0.65436	0.31951	-0.02847	0.419715	-0.04718	0.262216	0.425509	0.998156	0.379128	0.960834
LGALS4	-0.1872	-0.13338	-0.01173	-0.19096	0.163197	0.327079	0.931	0.154756	-0.11629	0.033212	0.012297	-0.01296	0.223406	0.585734	0.531572	0.466342
LGALS8	0.116115	0.278757	-0.03877	0.160015	0.394094	0.037488	0.776638	0.238778	-0.15701	0.550811	-0.12995	0.416797	0.148683	0.999964	0.197433	0.998021
LGALS9	-0.23371	-0.1596	0.030571	0.111011	0.080163	0.24001	0.821401	0.411023	-0.16566	0.279023	-0.12377	0.258952	0.135605	0.969798	0.208959	0.958872
ARHGDI2	-0.17051	0.087749	-0.2451	0.479815	0.208951	0.524093	0.068652	0.000183	-0.10858	0.181096	-0.00865	0.236209	0.236296	0.88579	0.477518	0.942994
LHB	0.112408	-0.07066	0.257661	-0.17752	0.405126	0.604825	0.052989	0.186479	0.255918	-0.36102	0.232098	-0.25497	0.95698	0.006852	0.937507	0.043625
LHCGR	0.305856	-0.11331	0.216068	0.100419	0.021881	0.410098	0.109733	0.461498	0.092956	-0.36738	0.167959	-0.26145	0.728186	0.006521	0.862101	0.041386
LHX1	-0.01545	-0.16371	0.27134	-0.25553	0.909187	0.227956	0.041185	0.055051	0.167949	-0.42352	0.215805	-0.42057	0.867721	0.001679	0.922743	0.001806
LIF	0.02439	-0.03818	0.234855	-0.00101	0.857085	0.779944	0.078658	0.994053	-0.07033	0.153266	0.002263	0.095787	0.321153	0.845403	0.505886	0.736712

LIFR	0.293318	-0.20001	0.133027	0.19112	0.026802	0.139427	0.3239	0.15441	0.444151	-0.43827	0.23939	-0.10595	0.999006	0.001158	0.943382	0.24172
LIG1	-0.17495	-0.02477	-0.01111	-0.18241	0.193033	0.856226	0.934643	0.174431	-0.1589	0.18302	-0.08543	0.111798	0.148575	0.885585	0.290698	0.767658
ARHGDI3	0.115432	-0.22447	0.185865	-0.3442	0.392523	0.096268	0.16628	0.008748	0.074234	-0.38508	0.244061	-0.35232	0.688039	0.004113	0.946918	0.008168
LIG3	-0.30306	-0.06453	-0.15344	-0.06716	0.023182	0.639756	0.25887	0.622878	-0.3644	-0.0067	-0.22971	-0.13356	0.006392	0.482373	0.064508	0.188109
LIG4	-0.14597	0.185759	-0.17755	-0.06972	0.278603	0.170467	0.186408	0.606324	-0.20706	0.11883	-0.08284	0.125865	0.083683	0.784229	0.294257	0.797715
LIM2	-0.07617	-0.04248	0.111988	-0.14707	0.573313	0.755886	0.406895	0.27495	0.009624	-0.20878	-0.01665	-0.15986	0.525306	0.081892	0.456774	0.144288
ABLIM1	0.139267	0.312387	-0.19422	0.097914	0.301513	0.01908	0.147713	0.468696	0.144865	0.413704	-0.1098	0.128501	0.831614	0.997868	0.236372	0.802639
LIMK1	-0.04072	-0.01845	0.017148	0.153176	0.763632	0.892617	0.899254	0.255305	-0.0247	0.276859	-0.04525	0.239928	0.435275	0.968746	0.383938	0.945868
LIMK2	-0.07996	0.014847	0.063328	-0.03311	0.554356	0.913514	0.639792	0.806827	-0.24241	0.280324	-0.15812	0.095372	0.052277	0.970417	0.149771	0.73581
LIMS1	-0.07669	0.148946	-0.16077	0.057616	0.570705	0.273255	0.232221	0.670321	0.040342	-0.00505	0.180449	0.101811	0.604954	0.486705	0.882227	0.749611
LIPA	-0.0951	0.305472	-0.34448	0.290445	0.481652	0.022056	0.008691	0.0284	-0.22633	0.549846	-0.16968	0.512738	0.065207	0.999962	0.132572	0.999865
RHOH	-0.04954	-0.38941	0.027124	0.447245	0.714406	0.003013	0.841258	0.000487	-0.10635	-0.12042	0.197939	0.070906	0.240879	0.212671	0.903779	0.680202
LIPC	0.028058	-0.09738	0.211397	-0.27042	0.835866	0.475238	0.11444	0.041907	0.141048	-0.43195	0.333557	-0.24653	0.825103	0.001361	0.987427	0.049305
LIPE	-0.08193	0.084789	0.197511	-0.15344	0.544611	0.534394	0.140835	0.254478	-0.06159	-0.16293	0.052133	-0.24779	0.342157	0.139653	0.633112	0.048425
FADS1	0.242551	-0.0328	0.177116	0.266441	0.069079	0.810345	0.187497	0.045135	0.368952	-0.22565	0.332105	-0.06609	0.994186	0.065797	0.987087	0.331269
LLGL2	-0.15391	-0.06523	-0.02742	-0.02426	0.25301	0.632908	0.839525	0.857809	-0.24904	0.254925	-0.26018	0.104822	0.04756	0.956347	0.042163	0.755936
SPRED3	0.001887	-0.21533	0.233314	-0.12553	0.988886	0.110978	0.080698	0.352142	0.109275	-0.41471	0.120578	-0.28108	0.765133	0.002081	0.784941	0.029228
TMEM200E	0.053649	-0.22084	0.305059	-0.06314	0.691842	0.101915	0.021031	0.640775	0.222023	-0.48053	0.187062	-0.3542	0.930959	0.000362	0.890732	0.007867
FADS3	0.121421	-0.29861	0.278457	0.122602	0.368261	0.025387	0.035957	0.363585	0.318863	-0.49936	0.249477	-0.23381	0.984608	0.000206	0.950804	0.058922
SLC25A35	-0.13178	-0.16649	0.098655	-0.06386	0.328494	0.220048	0.465322	0.636956	0.086677	-0.18275	0.072648	-0.32085	0.7166	0.112069	0.682339	0.014851
LLGL1	-0.01178	0.069681	-0.0745	-0.01243	0.930669	0.609838	0.581779	0.926881	-0.15712	0.347548	-0.18683	0.273669	0.148517	0.991024	0.109556	0.967141
MEX3D	-0.00347	-0.03453	0.160173	-0.06024	0.979533	0.800562	0.233972	0.65623	0.09217	-0.0956	0.1692	-0.12074	0.72881	0.26369	0.866742	0.212068
FAM102A	-0.29929	0.20484	-0.21561	-0.08954	0.02504	0.133563	0.11051	0.511667	-0.35187	0.328778	-0.25511	0.093961	0.008241	0.987157	0.045394	0.732737
NCRNA000	0.044961	-0.08591	0.23768	-0.19415	0.739816	0.528987	0.075027	0.147854	0.147181	-0.43087	0.164333	-0.24221	0.835489	0.001398	0.859642	0.052425
ZNF321	-0.20614	0.250462	-0.18062	-0.01386	0.123943	0.06263	0.178772	0.918525	-0.09875	0.389722	-0.2498	0.199964	0.256906	0.996289	0.04897	0.908636
RPL13AP17	0.155618	-0.21894	0.145885	-0.35399	0.247714	0.104985	0.278892	0.006904	0.041282	-0.33719	0.156192	-0.34189	0.607343	0.010965	0.847221	0.010021
HEATR4	-0.0406	-0.00522	0.007658	-0.43638	0.764272	0.96953	0.954916	0.00069	0.040226	-0.26984	0.149824	-0.38595	0.604659	0.034871	0.83703	0.004035
MYO18A	0.112062	0.033377	0.00245	0.061029	0.406582	0.807072	0.985571	0.65201	-0.01944	0.426241	-0.05079	0.362596	0.448993	0.99843	0.370202	0.993366
SHC4	0.26444	-0.20835	0.285142	0.245379	0.048899	0.12689	0.033161	0.068332	0.175034	-0.32166	0.277828	-0.2101	0.877682	0.014634	0.967688	0.080542
C10orf139	0.077301	-0.08001	0.366018	-0.23904	0.567638	0.557756	0.00511	0.073327	0.197517	-0.39905	0.126558	-0.33545	0.905874	0.003006	0.796285	0.011333
FLJ45983	-0.05263	-0.17401	0.119785	-0.16399	0.697438	0.199638	0.374798	0.222881	0.065562	-0.41487	0.227947	-0.26529	0.667453	0.002073	0.933965	0.037386
C10orf114	-0.04898	-0.20402	0.335573	-0.319	0.717509	0.131498	0.010715	0.015582	-0.09238	-0.50511	0.130829	-0.40467	0.270732	0.000172	0.804173	0.002639
LOC399744	-0.02778	-0.13772	0.201579	-0.18644	0.837468	0.31146	0.13267	0.164941	0.012175	-0.25414	0.08392	-0.30037	0.532002	0.044158	0.708182	0.021268
LMAN1	-0.02023	0.319763	-0.07347	0.168641	0.881288	0.01629	0.58706	0.20984	-0.06515	0.415993	-0.09864	0.35509	0.333545	0.997982	0.259585	0.992273
C10orf120	0.10552	-0.02817	0.223723	-0.27511	0.438933	0.83825	0.097416	0.040163	-0.0232	-0.18856	0.121353	-0.2255	0.439185	0.10474	0.786429	0.065926
METTL10	-0.07174	0.302233	-0.21186	0.082269	0.595907	0.023579	0.113621	0.54293	0.139721	0.415111	-0.0422	0.251453	0.822805	0.997939	0.391575	0.954074
FOXI2	0.083237	-0.16853	0.273665	-0.17011	0.54193	0.21872	0.041264	0.210042	0.074312	-0.3252	0.133232	-0.1789	0.688222	0.013718	0.808531	0.117099
FLJ46300	-0.04715	-0.15324	0.264126	-0.25638	0.727656	0.259504	0.047107	0.054225	0.098409	-0.43701	0.121769	-0.34851	0.742366	0.001196	0.787226	0.008808
FLJ44653	-0.04785	-0.19472	0.282343	-0.08453	0.72377	0.150407	0.033344	0.531837	0.06908	-0.36028	0.158554	-0.31534	0.675869	0.006956	0.850896	0.016393
C11orf55	0.001432	0.023205	0.180644	-0.14519	0.991567	0.865203	0.17872	0.281212	0.139524	-0.41915	-0.02819	-0.27115	0.822463	0.001869	0.427065	0.034174
FLJ41423	-0.05651	0.043676	0.282501	0.006046	0.676308	0.749255	0.033241	0.964401	0.040391	-0.21044	0.105477	-0.31376	0.605079	0.08019	0.754771	0.016861
FAM180B	0.044398	-0.29482	0.250746	-0.13305	0.745248	0.028886	0.062323	0.328303	0.121344	-0.23761	0.15918	-0.25269	0.789106	0.055911	0.851859	0.045108
PCNXL3	0.027438	0.112787	0.100937	-0.0438	0.840909	0.412295	0.45918	0.748552	-0.11757	0.393503	-0.15382	0.174849	0.218234	0.99659	0.15652	0.877428
FLJ42102	-0.00158	-0.06109	0.034692	0.007218	0.990695	0.654659	0.797801	0.957504	-0.33679	0.126148	-0.2544	0.058975	0.011049	0.798248	0.045861	0.651479
C11orf87	-0.04746	-0.04413	0.296137	-0.09341	0.725891	0.746725	0.025307	0.489495	0.117453	-0.31723	0.16918	-0.178	0.781533	0.015849	0.866713	0.118305
C11orf92	-0.13236	0.17405	-0.10081	-0.24728	0.326364	0.199524	0.455585	0.063673	-0.16918	-0.12537	0.14506	0.058848	0.133292	0.205944	0.826263	0.649508
C11orf88	-0.03917	-0.23361	0.051783	-0.21857	0.772361	0.083126	0.702053	0.102388	-0.13706	-0.31111	0.110756	-0.22489	0.181857	0.017666	0.765558	0.066471
LOC399965	-0.04571	0.079132	0.094115	-0.3478	0.735626	0.562102	0.486203	0.008026	0.293375	-0.33492	0.169665	-0.28136	0.97608	0.011448	0.867409	0.029098
PATE2	0.030838	-0.01043	0.149321	-0.24486	0.821496	0.939729	0.272036	0.068931	0.112465	-0.35047	0.099682	-0.39174	0.771606	0.008473	0.742638	0.003548
SNX19	-0.04368	0.321458	0.022993	0.110866	0.749221	0.016705	0.866425	0.415964	-0.02771	0.415134	-0.14274	0.253521	0.42747	0.99794	0.174795	0.955438

C11orf39	-0.12118	-0.02017	0.278509	-0.07449	0.369213	0.882671	0.035922	0.581866	-0.10844	-0.39932	0.069026	-0.2786	0.236571	0.002987	0.673842	0.030404
ACCN1	-0.10332	-0.12335	0.139995	-0.13585	0.444362	0.365077	0.298967	0.313644	-0.18499	-0.24242	0.086655	-0.13073	0.109203	0.052272	0.714307	0.193254
ARL1	0.017889	0.208093	-0.11191	0.180214	0.894926	0.123803	0.407235	0.179772	-0.09165	0.235922	-0.1108	0.288789	0.272328	0.942768	0.234353	0.9742
LMNA	0.096878	0.036963	-0.08216	0.048149	0.473437	0.786806	0.543466	0.722087	0.027308	0.494637	-0.15034	0.326273	0.571483	0.999762	0.162125	0.986549
LOC400061	-0.10506	-0.02185	-0.20917	-0.01091	0.436692	0.872988	0.118397	0.93578	-0.16819	0.06083	-0.01073	0.196678	0.131931	0.656006	0.472109	0.904912
FLJ40142	0.050344	-0.1805	0.191435	-0.20523	0.709966	0.183115	0.15372	0.125643	0.110972	-0.41396	0.111717	-0.34794	0.76859	0.002119	0.767495	0.008906
FLJ42957	0.059991	-0.03496	0.166092	-0.04388	0.657557	0.798107	0.216911	0.745851	0.282067	-0.23425	0.117271	-0.21231	0.97123	0.058567	0.778517	0.078311
LMNB1	-0.26135	0.205108	-0.255	0.179135	0.051704	0.133045	0.057871	0.186499	-0.30571	0.54348	-0.3608	0.320798	0.019409	0.999953	0.007449	0.985136
FLJ46358	0.030676	0.0674	-0.05748	-0.47067	0.820797	0.621616	0.671033	0.00022	-0.01675	-0.06052	-0.09503	-0.1581	0.455999	0.34475	0.267311	0.147003
C13orf36	0.049417	-0.25874	0.318017	-0.08589	0.715076	0.054165	0.015921	0.52526	0.158366	-0.50195	0.234073	-0.45227	0.853413	0.00019	0.939142	0.000801
C13orf35	0.099015	-0.12418	0.206619	-0.33638	0.463689	0.361838	0.123056	0.010516	0.123408	-0.39205	0.228136	-0.34913	0.793061	0.003523	0.934129	0.008701
STELLAR	0.027997	-0.1088	0.148747	-0.08653	0.836221	0.424736	0.269467	0.522161	0.11216	-0.23139	0.232964	-0.16876	0.770992	0.060903	0.938228	0.13111
C14orf181	-0.04802	-0.1365	0.260523	-0.09141	0.722794	0.315779	0.050316	0.49888	0.046495	-0.40388	0.139987	-0.26129	0.620514	0.002689	0.820472	0.039718
FLJ44817	0.05483	-0.30657	0.198772	-0.24811	0.685411	0.021558	0.138265	0.062756	0.158675	-0.45231	0.226701	-0.39605	0.85389	0.0008	0.932873	0.003219
C14orf180	-0.01346	-0.08647	0.208884	-0.15767	0.920851	0.5263	0.118912	0.241468	0.110806	-0.44744	0.18788	-0.36266	0.768251	0.000911	0.891754	0.006626
C15orf53	-0.0093	-0.31289	0.223578	0.013184	0.94529	0.018879	0.09456	0.922459	0.053468	-0.35733	0.27617	-0.23032	0.636391	0.007981	0.96521	0.06399
C15orf54	0.120993	-0.17641	-0.04693	-0.21996	0.369964	0.193407	0.728851	0.100159	0.070875	-0.25914	-0.06904	-0.4061	0.678191	0.042814	0.328058	0.00282
LMO1	-0.0324	0.074386	0.261567	-0.08926	0.810891	0.585855	0.049368	0.509076	0.072669	-0.2238	0.124263	-0.12355	0.684363	0.067435	0.791971	0.206671
ST20	-0.06992	-0.06064	0.166874	0.03447	0.605283	0.65708	0.214725	0.799066	-0.2073	-0.08048	-0.09113	0.025075	0.08343	0.297465	0.275812	0.565689
LOC400446	0.007262	0.221741	-0.29786	-0.01099	0.957242	0.100497	0.024428	0.935336	-0.17305	0.469906	-0.19948	0.313366	0.125048	0.999508	0.094464	0.983022
FAM174B	0.009908	0.033134	0.208934	-0.28564	0.941688	0.808449	0.118822	0.03125	-0.08035	-0.00798	-0.08695	-0.28183	0.299905	0.479252	0.287317	0.030356
UNQ9370	0.189408	-0.30438	0.061847	-0.12763	0.158208	0.022558	0.647648	0.34409	0.006749	-0.17065	0.164955	-0.15156	0.517752	0.128419	0.860563	0.15733
LOC400495	-0.21985	-0.33923	0.17781	-0.27753	0.100339	0.010538	0.185745	0.036605	-0.02782	-0.65192	0.243777	-0.46049	0.427188	4.60E-07	0.946708	0.00064
LMO2	-0.162	-0.31836	0.054906	-0.10715	0.228602	0.016791	0.684999	0.427598	-0.15609	-0.40009	-0.0427	-0.24572	0.150125	0.002935	0.390302	0.049879
C16orf88	-0.01531	0.243108	-0.17703	-0.0072	0.909997	0.07101	0.187709	0.957581	-0.14623	0.386853	-0.08211	0.38293	0.16609	0.996044	0.295907	0.995688
NCRNA001	-0.08327	-0.0831	0.020057	0.059535	0.538008	0.542599	0.882274	0.659999	-0.09349	-0.04074	-0.05284	0.07248	0.2683	0.394043	0.365151	0.68392
FLJ45256	0.23409	-0.26294	0.104985	-0.1659	0.079666	0.050245	0.437033	0.217436	-0.0725	-0.052	0.172318	-0.08805	0.316045	0.365724	0.871164	0.280331
FLJ26245	-0.05889	-0.16629	0.211857	-0.27337	0.663465	0.220608	0.113635	0.039635	-0.03352	-0.45217	0.134952	-0.44482	0.413476	0.000909	0.808779	0.001101
FLJ44674	0.004767	-0.16635	0.137959	-0.28297	0.971928	0.220439	0.306121	0.032934	-0.0832	-0.18993	0.148766	-0.31712	0.291267	0.103067	0.835297	0.015883
FLJ27243	0.011676	-0.1904	0.091254	-0.23545	0.931308	0.15984	0.499612	0.07788	0.13685	-0.19665	0.195622	-0.29332	0.817768	0.095122	0.901097	0.02394
C16orf85	-0.11817	0.090347	0.049385	-0.16168	0.381322	0.507839	0.715255	0.229532	0.106072	-0.24439	0.189115	-0.24748	0.758535	0.050832	0.893285	0.048638
C17orf97	-0.22941	-0.12063	0.049389	-0.29382	0.086054	0.375825	0.715229	0.026531	-0.20683	-0.29155	0.036118	-0.29197	0.08392	0.024652	0.593106	0.024484
MED11	-0.09755	-0.00076	-0.28012	-0.20938	0.470368	0.995571	0.034819	0.118011	-0.50918	0.170812	-0.24099	0.082114	0.000151	0.87181	0.05539	0.706268
FLJ45831	0.030574	-0.00568	0.202778	-0.27002	0.821382	0.966857	0.130333	0.042218	0.120848	-0.1748	0.229029	-0.29595	0.788148	0.122642	0.934903	0.022912
LOC400590	-0.05861	0.305783	-0.08928	0.074794	0.664985	0.021914	0.508967	0.580299	0.0767	0.114718	0.21074	0.186643	0.693794	0.77612	0.91767	0.892878
C17orf102	0.003944	-0.21292	0.182337	-0.27955	0.976983	0.118588	0.178619	0.036927	-0.11206	-0.25452	0.192168	-0.3543	0.231819	0.045779	0.894293	0.008473
FLJ45079	0.030619	-0.30511	0.167963	-0.37361	0.821126	0.022223	0.211703	0.004201	-0.03205	-0.40428	0.083133	-0.2836	0.416273	0.002664	0.706408	0.028071
FLJ35767	-0.0021	-0.11813	0.102084	-0.1946	0.98764	0.385866	0.449877	0.146894	0.030008	-0.23703	0.063402	-0.1374	0.578465	0.056365	0.660476	0.181255
LOC400657	-0.078	-0.18437	0.07349	-0.2142	0.564146	0.173739	0.586939	0.109596	-0.14805	-0.06262	0.12369	-0.19774	0.163077	0.339653	0.790887	0.093869
FLJ44313	-0.08116	-0.28958	0.198263	-0.13057	0.548413	0.030403	0.139298	0.333004	0.313508	-0.29231	0.179934	-0.23173	0.983065	0.024347	0.881547	0.06062
FLJ44881	0.172186	-0.14688	0.271164	-0.21394	0.204454	0.284581	0.04323	0.113355	0.032719	-0.28022	0.16168	-0.23655	0.585453	0.029634	0.85567	0.056736
PRSSL1	-0.08756	-0.16351	0.192177	-0.17905	0.517181	0.228539	0.1521	0.182646	0.10745	-0.34602	0.152571	-0.3163	0.761385	0.009249	0.841478	0.016116
VMAC	-0.19626	-0.06558	0.067609	-0.21049	0.143429	0.63107	0.617288	0.116041	-0.12607	-0.25562	-0.13394	-0.38374	0.204625	0.045061	0.193026	0.004631
LOC400690	-0.11006	-0.19408	0.080998	-0.07811	0.419383	0.155664	0.55289	0.567167	-0.00568	-0.20754	0.145617	-0.13667	0.48524	0.08566	0.827197	0.185343
PRICKLE3	0.02462	0.12757	0.008226	-0.0887	0.855752	0.348784	0.951576	0.511728	0.082088	0.317883	-0.07973	0.115467	0.70621	0.984334	0.30132	0.777609
SIGLEC16	-0.00529	-0.14161	0.15799	-0.17281	0.96915	0.302403	0.244851	0.20279	-0.01689	-0.46854	0.288996	-0.25402	0.455655	0.000512	0.97291	0.044237
FLJ26850	-0.12994	-0.34275	0.131411	-0.40093	0.335345	0.009712	0.329866	0.001997	-0.17925	-0.34498	0.029643	-0.16443	0.116634	0.009439	0.576638	0.137428
LOC400713	-0.07008	-0.0288	-0.02556	-0.03315	0.607813	0.834682	0.851664	0.808333	0.137557	-0.15272	-0.16325	-0.13591	0.819018	0.15547	0.141974	0.183906
ZNF772	0.128676	0.038453	-0.01449	-0.07189	0.340118	0.778429	0.914787	0.595145	0.096869	0.134272	-0.01959	0.051432	0.739051	0.813174	0.449183	0.632866
SH2D5	-0.06695	-0.1629	0.164423	-0.19687	0.620753	0.230301	0.221631	0.142164	0.146399	-0.34268	0.208532	-0.20081	0.834188	0.009869	0.915385	0.090427

C1orf130	0.163197	-0.28599	0.253069	-0.02978	0.225144	0.032622	0.057519	0.82595	0.317862	-0.48121	0.209838	-0.41858	0.984328	0.000355	0.916742	0.001896
C1orf141	-0.03225	0.150597	0.067812	-0.28056	0.811786	0.267913	0.616227	0.034521	-0.20561	-0.238	0.091595	-0.04735	0.08771	0.057703	0.722849	0.378711
FLJ35409	-0.16316	-0.10806	-0.08361	-0.31379	0.225239	0.427918	0.536338	0.017458	-0.18584	-0.28193	0.046317	-0.30999	0.108133	0.028831	0.618722	0.018017
NCRNA000	-0.10674	0.152248	0.145735	-0.12284	0.429377	0.262641	0.279391	0.362657	0.050187	-0.1896	0.139171	-0.12081	0.628317	0.106118	0.816199	0.214618
C1orf220	0.067876	0.130342	0.092901	0.013404	0.615894	0.338324	0.49187	0.92117	0.065507	0.155053	0.102994	0.034009	0.66732	0.848241	0.749607	0.588769
LMO7	-0.13416	0.422958	-0.18836	-0.19557	0.324247	0.001295	0.164457	0.148595	-0.1566	0.518307	-0.19683	0.218488	0.149333	0.999888	0.097495	0.927685
FAM177B	-0.09744	0.217926	0.02541	-0.13469	0.470877	0.106639	0.851171	0.317835	0.013288	0.079476	0.026398	-0.03896	0.534922	0.700218	0.568333	0.398555
DEFB132	-0.00363	0.017724	0.266178	-0.11304	0.978593	0.896843	0.045355	0.402482	0.064474	-0.39883	0.209105	-0.26388	0.664834	0.003021	0.915982	0.038195
FLJ44790	-0.04953	0.328006	0.153186	-0.10087	0.716954	0.014496	0.25968	0.459491	-0.05118	0.050718	-0.26237	0.071051	0.369242	0.629627	0.042665	0.678605
FLJ46020	-0.17885	-0.111	-0.16903	-0.1944	0.183141	0.415378	0.208777	0.147333	-0.08444	-0.04121	-0.06986	0.056459	0.288453	0.392832	0.324189	0.645308
NCRNA001	0.138497	-0.04251	0.259501	-0.17528	0.304221	0.755739	0.051258	0.192192	0.274917	-0.28437	0.195578	-0.42423	0.967776	0.027724	0.901046	0.001651
FLJ45139	0.047811	-0.10168	0.162873	-0.24189	0.7264	0.455846	0.230384	0.072485	0.130734	-0.36316	0.291473	-0.33296	0.806757	0.006557	0.973971	0.011879
FLJ41733	0.155576	-0.16199	0.289648	-0.13628	0.252227	0.237372	0.030365	0.316586	0.27466	-0.11731	0.222005	-0.10429	0.967646	0.218742	0.928636	0.245176
LOC400891	-0.16043	-0.21165	0.009123	-0.12681	0.233216	0.117369	0.946301	0.347211	-0.19717	-0.30362	-0.15864	-0.24144	0.097103	0.021302	0.151853	0.055045
LMX1A	0.026025	-0.10509	0.207291	-0.25657	0.849004	0.445103	0.12529	0.056294	0.097082	-0.24643	0.200346	-0.31256	0.739511	0.049377	0.90651	0.017222
CHCHD10	0.025623	-0.03893	0.061587	0.056915	0.849943	0.775775	0.649036	0.674104	0.166264	0.268402	-0.09143	0.07179	0.865276	0.964349	0.275136	0.682291
FLJ90680	-0.02672	-0.04142	0.105527	-0.10676	0.843617	0.761802	0.434657	0.429268	0.016881	-0.25424	0.161932	-0.19527	0.544329	0.044097	0.85605	0.09672
LOC400931	0.019008	-0.11858	0.196235	0.055364	0.88839	0.384052	0.143472	0.682509	0.171925	-0.07767	-0.01029	-0.03948	0.873376	0.303949	0.473266	0.397233
RP11-191L	-0.02145	-0.10984	0.229513	-0.10745	0.874152	0.420333	0.085905	0.426304	0.100164	-0.24183	0.282886	-0.2283	0.746116	0.052703	0.970144	0.063502
FLJ44385	-0.12758	0.118832	0.192943	-0.03137	0.344282	0.383048	0.150444	0.81679	-0.17228	-0.13222	-0.083	-0.16309	0.126128	0.190533	0.293894	0.13942
IL17REL	-0.13797	-0.17454	0.051787	-0.0851	0.306088	0.198244	0.702032	0.529089	-0.04343	-0.09408	0.059962	-0.20207	0.387211	0.267011	0.652202	0.08903
LOC40094C	0.048243	-0.18413	0.177202	-0.15706	0.721569	0.174315	0.187279	0.243308	0.028022	-0.42091	0.225013	-0.26636	0.573332	0.001791	0.931372	0.036786
FLJ42418	0.236192	-0.30327	0.301249	-0.17762	0.076924	0.023082	0.022776	0.186233	0.195656	-0.52499	0.219255	-0.39667	0.903733	8.99E-05	0.926065	0.003173
UNQ5830	-0.21095	-0.20042	0.019714	-0.26502	0.118622	0.142329	0.885331	0.048385	-0.14756	-0.30404	0.066756	-0.14547	0.163879	0.019977	0.668472	0.167375
EML6	-0.11393	0.071253	-0.11726	-0.45824	0.398764	0.601779	0.385019	0.000338	-0.29972	-0.1113	-0.18519	-0.30193	0.021504	0.230754	0.111631	0.020711
PAIP2B	0.153791	-0.32839	0.088481	-0.26086	0.253379	0.013476	0.512788	0.050004	0.02472	-0.46051	0.103737	-0.38115	0.564769	0.00064	0.751158	0.004482
LOC40098E	-0.2562	0.209861	-0.17138	0.190296	0.054394	0.120571	0.202423	0.156231	0.072215	0.464452	-0.11584	0.245912	0.683295	0.999426	0.224302	0.950258
PHOX2A	0.015481	-0.1678	0.259013	-0.16193	0.909001	0.216404	0.051712	0.228821	0.076662	-0.40487	0.198696	-0.21307	0.693706	0.002627	0.904644	0.077555
LMX1B	0.023779	-0.06132	0.251193	-0.29393	0.860627	0.653473	0.059457	0.026468	0.153611	-0.43153	0.193612	-0.38945	0.845954	0.001375	0.898728	0.003734
LOC40101C	-0.14307	-0.03247	0.142849	-0.07119	0.288387	0.812219	0.289125	0.598707	0.04571	-0.27461	0.085657	-0.28732	0.61854	0.03238	0.712079	0.026426
FLJ44048	-0.12076	-0.0797	0.021026	-0.15814	0.379814	0.566737	0.878898	0.248864	-0.03841	-0.03611	-0.21443	-0.26936	0.401105	0.40691	0.081099	0.036784
C2orf66	-0.10202	0.118568	-0.02028	-0.24178	0.450185	0.384113	0.881	0.069989	0.00011	-0.1593	0.167202	-0.13062	0.500289	0.145155	0.863856	0.193456
ASB18	-0.0548	-0.07536	0.197862	-0.10902	0.685593	0.580939	0.140116	0.419509	0.201714	-0.35011	0.256806	-0.28819	0.910575	0.008533	0.955709	0.026053
FLJ43879	-0.17258	-0.15398	0.194872	-0.13179	0.199234	0.257179	0.146328	0.328457	0.155735	-0.46088	0.005031	-0.29512	0.849315	0.000634	0.513082	0.023234
FLJ45964	0.083671	-0.16603	0.189386	-0.33726	0.53605	0.221346	0.158257	0.010302	0.135389	-0.43018	0.384076	-0.2882	0.815174	0.001423	0.995402	0.026049
FLJ41327	-0.06306	-0.23912	0.340321	-0.10298	0.641235	0.075916	0.00959	0.445899	-0.11263	-0.33761	0.070452	-0.28046	0.22806	0.010877	0.677199	0.029521
LOC401052	-0.13699	-0.25723	0.193308	-0.38639	0.309565	0.055643	0.149658	0.00299	-0.03935	-0.42799	0.209005	-0.2735	0.397582	0.001503	0.915878	0.032943
LOC401097	0.000281	-0.15773	0.176865	-0.20683	0.998344	0.245653	0.188133	0.122664	0.092066	-0.39567	0.230683	-0.32941	0.728583	0.003247	0.936316	0.012692
FLJ42393	0.303335	0.032533	0.144409	0.009876	0.021806	0.81186	0.283838	0.941876	0.449189	-0.00321	0.221972	-0.04638	0.99913	0.491555	0.928605	0.379769
FLJ35816	-0.23718	-0.04335	-0.03728	0.062347	0.075661	0.751046	0.783076	0.644993	-0.1151	0.08668	0.137631	0.130897	0.223128	0.716608	0.816359	0.807054
FLJ45721	-0.02475	-0.20097	0.120549	-0.2028	0.85633	0.141226	0.376161	0.133873	0.194068	-0.2276	0.05092	-0.19625	0.899269	0.06634	0.628639	0.098174
FLJ16686	-0.06416	-0.08638	0.060821	-0.18473	0.635406	0.526719	0.65312	0.168934	-0.08019	-0.26319	0.143665	-0.20198	0.298132	0.038593	0.826779	0.089128
LOC401127	-0.03821	0.389694	0.140389	-0.11718	0.777775	0.00299	0.297596	0.385346	-0.13051	0.076131	-0.01156	0.104955	0.193661	0.692471	0.469956	0.756213
SYT14L	-0.00253	-0.00058	-0.13786	-0.26703	0.985094	0.996613	0.306472	0.044643	-0.22529	-0.09352	-0.07695	-0.15272	0.066111	0.268236	0.307684	0.155471
C4orf40	-0.0577	-0.1928	0.107579	-0.32545	0.66989	0.154562	0.425726	0.013499	0.095234	-0.33887	0.157611	-0.29154	0.733123	0.011391	0.846557	0.026001
AMTN	0.060644	-0.16752	0.148495	-0.35432	0.654063	0.217183	0.270288	0.006848	0.009372	-0.22515	-0.07668	-0.17838	0.524361	0.068503	0.310389	0.120523
KIAA1680	-0.04355	0.35329	-0.01372	0.125573	0.747688	0.007565	0.919292	0.351988	0.214645	0.306665	-0.03444	0.071259	0.923998	0.980909	0.411143	0.681036
C4orf3	-0.04895	0.074711	-0.1845	0.139134	0.71766	0.584214	0.169459	0.301979	0.041671	-0.00244	0.050252	0.123247	0.60833	0.493582	0.628476	0.792754
FLJ44477	-0.00122	-0.33393	0.226131	-0.06213	0.992867	0.012717	0.093773	0.64921	-0.00519	-0.22042	0.202914	-0.15792	0.486515	0.072839	0.906753	0.150089
FLJ44896	-0.18673	-0.00958	0.018088	-0.01516	0.164291	0.944124	0.89376	0.910874	-0.06303	0.0474	-0.06803	0.172517	0.338662	0.622788	0.32852	0.874203

FLJ33360	-0.00816	-0.3173	0.201665	-0.23201	0.952409	0.018253	0.136108	0.085321	-0.16958	-0.22456	-0.1126	-0.11661	0.129939	0.066763	0.230741	0.220123
RGS7BP	0.034013	-0.11637	0.225438	0.241586	0.803468	0.397512	0.09481	0.072851	-0.03425	-0.15246	0.174865	0.134637	0.410625	0.155893	0.874701	0.813829
FLJ46010	-0.11916	-0.03471	-0.08536	-0.0548	0.377305	0.799513	0.527847	0.685556	-0.15666	-0.21287	-0.0265	-0.1565	0.149237	0.077748	0.431397	0.149488
LNPEP	0.124328	0.215494	-0.20399	0.231015	0.356818	0.110702	0.127998	0.083817	0.128025	0.349397	-0.07672	0.281534	0.801756	0.991345	0.308228	0.970983
FLJ44606	-0.07854	0.357896	-0.20465	-0.23204	0.56141	0.006765	0.126754	0.082411	-0.21843	0.338111	-0.17607	0.211901	0.072371	0.989225	0.123646	0.921282
LOC401233	-0.16882	-0.02895	0.065012	-0.09143	0.209354	0.832286	0.630895	0.498764	0.050448	-0.21262	0.031929	-0.1043	0.630414	0.077995	0.582467	0.245158
MCCD1	-0.09858	-0.11153	0.152867	-0.22939	0.465684	0.413151	0.256275	0.086084	0.136647	-0.30715	0.141248	-0.29777	0.817409	0.018932	0.822649	0.022224
C6orf26	-0.18445	-0.21445	0.185202	-0.34143	0.169588	0.112476	0.167824	0.009344	-0.12271	-0.51301	0.182209	-0.46254	0.208268	0.000133	0.884534	0.000605
FLJ43752	0.007864	-0.15268	0.2915	-0.15668	0.9537	0.261287	0.027804	0.244467	0.157199	-0.48435	0.222402	-0.38292	0.851605	0.000324	0.929002	0.004312
FLJ43093	0.04454	-0.07299	0.224955	-0.20879	0.744462	0.596386	0.095537	0.122519	0.049508	-0.37832	0.165115	-0.31923	0.628066	0.004765	0.860799	0.015292
FLJ41649	-0.03529	-0.18139	0.235614	-0.15922	0.796252	0.185052	0.080444	0.241164	0.041895	-0.38169	0.198441	-0.19879	0.608897	0.00443	0.904353	0.092684
FLJ38717	0.059885	-0.03173	-0.04979	0.012961	0.658127	0.81644	0.713032	0.923764	0.128184	0.033756	0.294637	-0.0839	0.802051	0.588119	0.975277	0.289674
CRIP3	0.006097	-0.094	0.246315	-0.25331	0.9641	0.490787	0.064746	0.057273	0.048455	-0.19966	0.198161	-0.21379	0.625433	0.091707	0.904034	0.076846
KLHL31	-0.1414	0.221991	-0.08547	-0.17374	0.298557	0.103331	0.531124	0.200337	0.211785	-0.24853	0.144832	-0.2245	0.921165	0.047906	0.828751	0.066817
FLJ42177	-0.1699	0.008491	-0.01722	-0.27067	0.206408	0.950474	0.898813	0.041711	-0.18345	-0.2314	0.080557	-0.1794	0.11116	0.06089	0.700572	0.116445
TCP10L2	-0.00017	0.089888	0.197517	-0.19069	0.999012	0.51001	0.140823	0.155365	0.026993	-0.02457	0.135632	-0.07134	0.570665	0.435613	0.812826	0.318773
C6orf122	-0.11827	-0.15301	0.131138	-0.11283	0.380928	0.260232	0.330879	0.403335	0.041045	-0.3765	0.128708	-0.23048	0.606741	0.004955	0.800279	0.061662
LOC401296	0.086229	-0.26583	0.249819	-0.0828	0.523618	0.047679	0.060911	0.540343	0.151662	-0.35395	0.282671	-0.14054	0.842828	0.007906	0.970043	0.175778
VWA5A	-0.17887	-0.01242	-0.20109	0.151177	0.18309	0.927609	0.133637	0.261632	-0.39896	0.537247	-0.12605	0.39059	0.003012	0.999941	0.204665	0.99636
FLJ45974	-0.00461	-0.13032	-0.12819	-0.27501	0.97286	0.338388	0.34195	0.038418	0.265003	-0.46204	0.0998	-0.40521	0.96245	0.000614	0.742887	0.002606
LOC401357	-0.16495	-0.02304	0.057146	-0.15992	0.224403	0.866126	0.6757	0.23905	-0.01461	-0.40376	0.274815	-0.25079	0.461612	0.002696	0.96615	0.046367
FLJ42280	-0.05422	0.001824	0.11259	-0.39142	0.688722	0.989358	0.404359	0.002605	0.060992	-0.36133	0.168945	-0.28158	0.656401	0.006808	0.866376	0.028995
LOC401397	0.032075	0.176626	-0.1355	0.030618	0.814463	0.197059	0.319379	0.822752	-0.10815	0.291665	-0.04463	0.276737	0.237183	0.975393	0.385496	0.968685
LOR	-0.09799	0.006185	0.149262	-0.09687	0.46837	0.963914	0.267793	0.473461	0.138673	-0.34146	0.162478	-0.36496	0.820977	0.010105	0.856872	0.006319
RAB19	-0.16083	-0.11666	0.075153	-0.09148	0.232034	0.391877	0.57848	0.498545	-0.43314	0.026019	-0.03795	0.029414	0.00132	0.568141	0.402262	0.57693
LOC401431	-0.19046	-0.20824	0.082639	-0.12616	0.155875	0.12354	0.54111	0.349713	-0.0525	-0.39949	0.034452	-0.18342	0.364478	0.002976	0.588883	0.111197
LOC401433	-0.06254	-0.37846	0.207841	-0.43034	0.643962	0.004026	0.120807	0.000834	-0.12393	-0.47789	0.167773	-0.41814	0.205944	0.000391	0.864685	0.001916
FLJ46365	-0.04415	-0.08648	0.120477	-0.10379	0.744371	0.526251	0.372025	0.442319	0.129414	-0.27946	0.156374	-0.14458	0.80158	0.031501	0.844627	0.171672
C8orf59	0.039385	0.119926	-0.20971	-0.08623	0.771145	0.378651	0.117436	0.523597	-0.1344	0.247718	-0.26946	0.244196	0.186604	0.951528	0.036728	0.949029
SAMD12	-0.12152	0.472997	-0.24855	0.103704	0.36788	0.000232	0.062276	0.442679	-0.09114	0.579509	-0.26093	0.369582	0.273448	0.999988	0.041706	0.994262
FLJ35024	-0.11684	-0.13957	0.043627	-0.10461	0.386748	0.304932	0.747277	0.4387	-0.30406	-0.2124	-0.03593	-0.19794	0.01997	0.07822	0.407372	0.093642
PTPLAD2	-0.08877	-0.05952	-0.03344	0.012996	0.511398	0.663029	0.804951	0.923561	-0.25425	-0.12094	0.018686	0.01298	0.044086	0.211668	0.548485	0.534115
TMEM215	0.205325	-0.1674	0.317187	-0.06693	0.125473	0.217512	0.016213	0.620854	0.234204	-0.2313	0.421167	-0.15707	0.941397	0.060978	0.998019	0.148591
LOX	0.016787	0.037609	-0.08072	0.196505	0.901363	0.783172	0.55057	0.14291	0.008072	0.366938	0.073243	0.370858	0.521231	0.993936	0.683727	0.994414
TOMM5	0.010116	0.19861	-0.25035	0.279616	0.940469	0.142267	0.060342	0.03516	0.02372	0.350129	-0.33948	0.416725	0.562169	0.991469	0.01126	0.998017
C9orf170	-0.06611	-0.03572	0.154809	-0.1635	0.625102	0.793823	0.250211	0.224266	0.100879	-0.35801	0.171897	-0.26508	0.747636	0.007285	0.870572	0.037504
CENPP	0.355848	0.193469	0.004124	-0.11871	0.006595	0.153098	0.975713	0.379114	-0.04059	0.487696	-0.03951	0.352814	0.394415	0.999707	0.398335	0.991913
C9orf152	-0.10119	0.242242	-0.09865	-0.23755	0.453872	0.072053	0.465345	0.075194	-0.23229	0.501183	-0.24192	0.141554	0.06016	0.999806	0.054681	0.825976
SNX30	0.05301	0.255654	0.01458	0.264267	0.695336	0.057207	0.914278	0.046985	0.122571	0.308657	0.039611	0.292542	0.791461	0.981559	0.601928	0.975747
WDR38	-0.2029	-0.27775	0.025226	-0.14382	0.130092	0.038211	0.852239	0.285838	-0.20594	-0.30372	0.032006	-0.20939	0.084862	0.020085	0.582664	0.08127
FLJ46836	-0.12662	0.030252	0.08732	-0.20505	0.347971	0.824837	0.518354	0.125988	0.281568	-0.27953	0.146243	-0.44918	0.970999	0.029959	0.831118	0.00087
LOC401557	-0.12497	-0.02107	0.057698	-0.12211	0.354326	0.87749	0.669876	0.365534	0.0548	-0.11674	0.164017	-0.16711	0.641217	0.219873	0.859173	0.133498
LCNL1	-0.09253	-0.05857	0.17597	-0.22153	0.493594	0.668092	0.190415	0.097692	-0.03413	-0.2513	0.083628	-0.25063	0.410915	0.046031	0.707523	0.046476
C9orf139	0.080912	-0.20484	0.305016	-0.22592	0.549624	0.129913	0.02105	0.091064	0.178548	-0.48928	0.130845	-0.40417	0.882428	0.00028	0.804202	0.00267
FAM166A	0.10334	-0.10262	0.319587	-0.18569	0.444291	0.451701	0.01538	0.166692	0.097648	-0.49344	0.173787	-0.3079	0.738308	0.000286	0.870382	0.019815
LOXL1	0.109256	-0.00163	0.065214	0.265296	0.418506	0.990508	0.629836	0.046101	-0.04716	0.185336	0.043234	0.305008	0.377808	0.891237	0.611026	0.980355
MCART6	0.114975	-0.05796	0.198612	0.086337	0.398788	0.674224	0.142263	0.526932	0.071405	-0.07226	0.094346	-0.13085	0.681382	0.316595	0.731205	0.193032
RPL7AP53	0.04909	-0.2256	0.102198	-0.17942	0.71938	0.097704	0.45356	0.185777	0.088739	-0.08776	0.143527	-0.17659	0.721214	0.280967	0.826544	0.120203
GOLGA7B	-0.18883	0.083629	-0.06453	-0.29209	0.159505	0.54002	0.633436	0.027473	0.058462	0.056987	-0.0967	-0.13409	0.650224	0.646606	0.263731	0.187146
OR51T1	0.08023	-0.10715	0.059998	-0.23435	0.55667	0.436198	0.660479	0.082135	-0.02273	-0.29875	0.016976	-0.16006	0.44041	0.021859	0.544064	0.143989

OR51A4	0.055829	-0.05472	0.061974	-0.17795	0.679983	0.68877	0.646977	0.185398	-0.03544	-0.28927	0.168166	-0.26934	0.408615	0.02697	0.8624	0.036796
OR51A2	0.048295	-0.27126	0.130915	-0.33699	0.723744	0.045153	0.336187	0.011095	0.078372	-0.18597	0.129568	-0.17291	0.697672	0.107959	0.801862	0.125256
LOXL2	0.141587	-0.20785	0.257705	0.18511	0.293452	0.12426	0.052947	0.168039	0.258063	-0.08938	0.218643	0.040309	0.958324	0.277366	0.925484	0.604871
FIGNL2	-0.06021	-0.02573	0.202592	-0.20866	0.656395	0.850668	0.130693	0.119313	-0.03023	-0.44476	0.205168	-0.3924	0.420952	0.000978	0.911814	0.003495
LPA	0.001111	-0.17986	0.192196	-0.18163	0.993458	0.184688	0.15206	0.176323	0.208552	-0.34822	0.198195	-0.29387	0.915405	0.009537	0.901417	0.025036
MSLNL	0.043269	-0.16628	0.335083	-0.25003	0.749282	0.220658	0.010837	0.060683	0.110013	-0.4395	0.283871	-0.38872	0.76664	0.001122	0.970605	0.003795
LOC401875	0.034867	0.091063	0.176339	-0.24506	0.796804	0.50447	0.189472	0.066162	-0.11326	-0.17168	0.133711	-0.1982	0.226795	0.126969	0.809393	0.093354
MGC57346	-0.04327	0.149446	-0.30129	-0.09359	0.749266	0.271631	0.022755	0.488663	0.009465	0.255929	0.022743	0.146318	0.524601	0.955143	0.55825	0.831243
ZNF833	-0.03688	-0.10908	0.039775	-0.03591	0.785365	0.423578	0.768943	0.790855	0.008241	-0.31226	0.012282	-0.1496	0.521675	0.017312	0.53191	0.16052
LDLRAD2	0.126548	-0.21706	0.349623	-0.10003	0.348232	0.10808	0.00768	0.459088	0.116839	-0.47132	0.149613	-0.3528	0.780323	0.000473	0.836685	0.00809
OR14I1	0.225946	-0.25821	0.374078	-0.10182	0.091029	0.054681	0.00415	0.451048	0.24746	-0.14603	0.304643	-0.11601	0.949383	0.169235	0.97782	0.223967
ARL2	0.231465	-0.16326	-0.03333	0.199247	0.083199	0.229252	0.805573	0.137307	-0.00038	0.313123	-0.01159	0.329532	0.499	0.982949	0.469895	0.987336
SRRD	0.129189	0.12981	-0.1367	0.192745	0.338179	0.340317	0.310584	0.150872	0.124384	0.497868	-0.17865	0.265198	0.794916	0.999785	0.120164	0.96256
SC22CB-1E	-0.04666	0.243347	0.070292	-0.23097	0.730331	0.070724	0.603356	0.083881	0.159036	0.208741	-0.17921	0.10691	0.851638	0.915603	0.122221	0.757724
VWC2L	-0.01133	-0.16425	0.018566	-0.27976	0.933971	0.23081	0.891967	0.036782	-0.01919	-0.3005	-0.09807	-0.25558	0.449634	0.021222	0.260785	0.043237
OR5K2	-0.0212	-0.12231	0.028936	-0.1043	0.876755	0.3737	0.832341	0.444292	0.169908	-0.29505	0.062784	-0.19381	0.867754	0.024555	0.657214	0.101034
LOC402175	-0.03447	0.236549	-0.0612	0.003323	0.799072	0.079216	0.651082	0.980431	-0.13452	0.354992	-0.3464	0.199753	0.186379	0.992258	0.009876	0.9084
RPL21P44	0.117172	-0.01452	0.200764	0.042557	0.38538	0.915385	0.134276	0.753275	-0.07984	-0.10048	0.182774	-0.03371	0.29895	0.253207	0.885267	0.412008
LPL	0.312718	-0.14406	0.143926	-0.11722	0.017865	0.289474	0.285468	0.385181	0.495836	-0.4739	0.230812	-0.44889	0.999771	0.000439	0.936426	0.000877
SOHLH1	-0.03262	-0.09172	0.259756	-0.22514	0.809645	0.501369	0.051021	0.092214	0.010628	-0.36069	0.089519	-0.31342	0.527943	0.006898	0.720656	0.016963
XKRX	-0.33316	0.210434	-0.48342	0.057558	0.01133	0.119538	0.000139	0.670631	-0.36929	0.574538	-0.35061	0.479823	0.005774	0.999985	0.009106	0.99963
PP13004	0.090055	-0.05146	0.211307	-0.32085	0.505287	0.706412	0.114597	0.014957	0.219097	-0.40803	0.206957	-0.43434	0.928257	0.00244	0.913726	0.001281
LPO	0.242538	-0.32022	0.308344	0.022752	0.069094	0.01613	0.01962	0.86659	0.265661	-0.31451	0.33171	-0.17988	0.962823	0.016636	0.986993	0.115809
KPNA7	-0.21664	-0.03881	-0.05778	-0.32482	0.105518	0.776416	0.669436	0.013693	-0.18876	-0.30126	0.021512	-0.39338	0.104493	0.020948	0.555774	0.003419
C7orf61	0.050457	-0.19828	0.213915	-0.15793	0.709343	0.142948	0.110089	0.240665	0.019851	-0.27044	0.169946	-0.30864	0.55149	0.036187	0.864962	0.019563
LPP	0.274719	-0.03805	0.167406	0.221421	0.03863	0.780671	0.213245	0.097869	0.38508	-0.17984	0.249659	-0.05672	0.995887	0.115859	0.95093	0.354062
IGLON5	0.223899	0.006018	0.219386	-0.22003	0.094075	0.964892	0.101072	0.100053	0.284812	-0.2227	0.098144	-0.30728	0.972474	0.068428	0.739366	0.018888
UFSP1	0.104045	-0.10853	0.320933	-0.19522	0.441175	0.425903	0.01493	0.145595	0.088674	-0.43266	0.182888	-0.36652	0.721068	0.001336	0.885416	0.006117
ARL3	-0.08443	-0.09751	-0.10043	-0.12348	0.532344	0.474658	0.457314	0.360145	-0.26522	-0.23294	0.0387	-0.08866	0.037426	0.059623	0.599634	0.278954
OR5H14	0.242868	-0.08945	0.171069	-0.14061	0.071298	0.516034	0.207451	0.301292	0.088575	-0.09105	0.134116	-0.14327	0.720849	0.273651	0.81012	0.17109
OR5H15	0.196909	-0.18431	0.188312	-0.21817	0.149606	0.177973	0.168564	0.109568	-0.35286	-0.17758	-0.13579	-0.07961	0.008716	0.121597	0.189729	0.301589
OR5K3	-0.11522	-0.14233	0.067789	-0.2657	0.393421	0.295362	0.616345	0.045756	0.161698	-0.5069	0.133408	-0.42548	0.855697	0.00019	0.806019	0.001786
OR5K4	0.084807	-0.29531	0.01146	-0.1211	0.53051	0.027133	0.932575	0.369533	0.098758	-0.30403	0.165152	-0.11764	0.743115	0.019978	0.860853	0.218107
OR6C65	-0.08103	-0.2066	0.076576	-0.43266	0.552725	0.130193	0.574835	0.000868	0.016723	-0.27975	0.080973	-0.36817	0.543411	0.031362	0.699343	0.006417
OR6C68	0.021868	-0.16737	-0.01362	-0.24748	0.871728	0.217593	0.91992	0.063451	0.001687	-0.31933	0.030183	-0.26164	0.504438	0.015264	0.578016	0.039508
LRMP	0.003241	0.135702	-0.24287	0.087079	0.980909	0.318657	0.068703	0.519517	-0.26801	0.477361	-0.05747	0.458216	0.035864	0.999603	0.353833	0.999318
MGC39545	0.044057	-0.06953	0.292724	-0.11724	0.744871	0.610612	0.027125	0.385105	0.100331	-0.35892	0.117544	-0.33952	0.746472	0.007151	0.779052	0.010489
PPAPDC2	-0.02969	0.284612	-0.07705	0.004526	0.828016	0.035202	0.572472	0.973592	-0.14095	0.51913	-0.4056	0.291909	0.175059	0.999891	0.002853	0.975491
APOBEC4	-0.09528	-0.14785	0.026406	-0.17302	0.480782	0.27685	0.845412	0.198078	-0.18311	-0.25918	0.11939	-0.13832	0.111596	0.040991	0.782645	0.179646
FAM92A3	0.177073	-0.1594	0.201432	-0.38193	0.191704	0.245046	0.136569	0.003677	-0.11097	-0.29011	0.185055	-0.22524	0.231416	0.025247	0.888197	0.066156
FLJ20444	0.161907	0.031274	0.026832	-0.14846	0.233199	0.820688	0.844375	0.274847	0.00968	-0.30832	0.087985	-0.10482	0.525454	0.018551	0.717262	0.244067
ZBTB34	-0.06107	0.170874	-0.16973	0.061415	0.651789	0.207976	0.206855	0.649954	0.114324	-0.15122	-0.0519	-0.33132	0.775334	0.157892	0.367454	0.012249
LRCH4	-0.05402	-0.14698	0.14046	-0.07317	0.689841	0.279715	0.297349	0.588567	-0.04361	-0.2228	0.094344	-0.24919	0.386768	0.068341	0.731201	0.047457
LRP1	0.258771	-0.09997	0.008499	0.299814	0.054138	0.467707	0.95043	0.024773	0.238037	0.221243	0.133099	0.263609	0.94442	0.930247	0.808291	0.961648
LRP2	0.013299	-0.16204	0.058906	-0.50996	0.921784	0.232801	0.663377	5.08E-05	0.031088	-0.43004	0.02625	-0.42095	0.580325	0.001597	0.567156	0.001991
LRP3	-0.04392	-0.16998	0.138416	-0.10308	0.745649	0.210396	0.304507	0.445461	0.202504	-0.19608	0.038965	-0.16762	0.911441	0.095771	0.600301	0.132748
LRP4	0.048356	0.367743	-0.23464	-0.11858	0.720942	0.005299	0.078946	0.379658	-0.1083	0.449899	-0.16562	0.234831	0.236874	0.999147	0.138456	0.9419
LRP6	0.357809	-0.11299	0.10181	0.179601	0.006283	0.407027	0.451099	0.181282	0.442154	-0.10191	0.056115	-0.07326	0.998953	0.250186	0.642864	0.314236
HAPLN4	0.042592	-0.10098	0.281721	-0.1551	0.753082	0.458989	0.033751	0.249319	0.103162	-0.28698	0.121958	-0.31796	0.752458	0.026574	0.787589	0.015644
CUEDC1	-0.22059	-0.04007	0.036049	-0.24837	0.099168	0.769357	0.790072	0.062473	-0.12139	-0.11138	0.068811	-0.20156	0.213504	0.233175	0.671417	0.092133

LRP5	0.059666	-0.03796	0.176005	0.083582	0.659298	0.781199	0.190325	0.536488	0.04953	0.159664	-0.06928	0.0967	0.628122	0.855407	0.325548	0.738687
C4orf12	0.05941	0.015667	0.236336	-0.32877	0.660671	0.90876	0.076738	0.012524	0.134801	-0.34332	0.183205	-0.33284	0.814123	0.009747	0.885825	0.011906
SPINK6	0.035252	-0.10238	-0.01294	-0.2878	0.794608	0.452769	0.92387	0.029941	0.158154	-0.43723	0.08165	-0.35976	0.853086	0.001189	0.703054	0.00703
C10orf85	0.025232	-0.09829	0.191062	-0.20455	0.85355	0.475255	0.158374	0.130483	0.172844	-0.28955	0.214161	-0.33436	0.874659	0.025479	0.921122	0.01157
CTXN1	-0.23913	-0.29229	0.099645	-0.39566	0.073217	0.028819	0.460834	0.002317	-0.1756	-0.44376	0.040645	-0.31169	0.121552	0.001004	0.60453	0.017486
C6orf201	0.056578	-0.18869	0.404203	-0.32901	0.675929	0.163706	0.001819	0.012456	0.103156	-0.39287	0.224609	-0.34676	0.752445	0.003459	0.931009	0.009116
LOC404266	0.014961	-0.26711	0.267197	-0.1591	0.912049	0.046577	0.044506	0.237148	0.199753	-0.4056	0.249263	-0.28531	0.908399	0.002583	0.950655	0.027305
YY2	-0.05429	0.015091	0.153482	-0.13406	0.688346	0.912101	0.254345	0.320135	0.120859	-0.39295	0.218387	-0.37347	0.78817	0.003453	0.925239	0.005286
LRPAP1	-0.0226	-0.09204	0.097321	0.112299	0.867488	0.499896	0.471408	0.405586	-0.00225	0.110299	0.068828	-0.02114	0.494149	0.764635	0.671456	0.445183
LSAMP	0.252857	0.053548	0.126472	0.277983	0.060079	0.697808	0.35298	0.038042	0.380013	-0.00812	0.144622	0.111693	0.994986	0.478885	0.825526	0.767448
C16orf74	-0.02856	0.191668	-0.07188	-0.07667	0.832989	0.157033	0.595184	0.570824	-0.061	0.266028	-0.00459	0.204442	0.343589	0.96303	0.488059	0.91354
SCGB1D4	0.150707	-0.19334	0.263039	-0.08763	0.263137	0.153374	0.048056	0.516881	0.030589	-0.27263	0.097798	-0.20401	0.579963	0.033394	0.738629	0.086924
LSP1	-0.10864	-0.14807	-0.02292	0.221655	0.421132	0.276123	0.865586	0.097506	-0.11931	0.088939	-0.05553	0.161775	0.214838	0.72166	0.358556	0.858614
C19orf31	0.070178	-0.06717	0.290031	-0.14003	0.603947	0.622832	0.028637	0.298838	0.117436	-0.38424	0.189204	-0.23394	0.781499	0.00419	0.893394	0.058815
C19orf290	-0.1972	-0.11231	0.092835	-0.11538	0.145189	0.409897	0.496175	0.397096	-0.08518	-0.44292	0.105478	-0.35452	0.286761	0.001026	0.754772	0.007816
GTF2H5	-0.13008	0.201604	-0.22773	0.035479	0.334845	0.136228	0.08844	0.793313	-0.29245	0.383197	-0.36155	0.243616	0.024288	0.995713	0.007338	0.948607
LSS	0.021109	-0.18052	0.080622	0.050293	0.877277	0.187215	0.554739	0.712796	0.191145	-0.203	0.038306	-0.23211	0.898402	0.088013	0.598638	0.060308
LTA4H	0.048174	0.268888	-0.27781	0.184963	0.724406	0.047139	0.038168	0.172338	0.055325	0.474737	-0.13386	0.330092	0.642514	0.999571	0.190335	0.987467
LTA	-0.00258	0.039516	0.299513	-0.13907	0.984806	0.772463	0.02361	0.302188	0.119511	-0.2621	0.129108	-0.1821	0.785557	0.039237	0.801017	0.112903
ARNT	0.26972	0.128468	-0.07158	0.07177	0.042458	0.345374	0.596718	0.595745	0.100877	0.165655	-0.02041	0.152604	0.745164	0.861595	0.447695	0.841531
LTB	-0.06632	-0.39004	0.150872	-0.0717	0.624013	0.002962	0.262608	0.596092	0.071261	-0.54399	0.178637	-0.38956	0.681041	4.66E-05	0.87982	0.003725
CYP4F3	-0.01484	0.329437	-0.2181	-0.2804	0.912771	0.013163	0.103138	0.03463	-0.22361	0.357448	-0.21412	0.044778	0.067604	0.992632	0.078915	0.616189
LTBP1	0.32124	-0.11049	0.167435	0.255419	0.015775	0.421954	0.217412	0.057444	0.278921	-0.20043	0.193463	0.083008	0.969749	0.090842	0.898551	0.708306
LTBP2	0.240962	-0.2233	0.09245	0.387902	0.070977	0.09807	0.493984	0.002869	0.142441	0.037727	0.153318	0.228339	0.827497	0.598289	0.842674	0.936532
LTBP3	0.204078	-0.2267	0.140847	0.193451	0.127834	0.092929	0.296007	0.149353	0.243246	0.027929	0.123352	0.044635	0.948337	0.57309	0.790247	0.615829
LTBR	-0.04327	0.111447	0.125178	0.054581	0.749254	0.413508	0.353517	0.686763	0.010027	0.325928	-0.15722	0.221332	0.526366	0.986464	0.151167	0.930328
LTC4S	0.004673	-0.02691	0.137349	-0.15289	0.972478	0.843921	0.308285	0.256191	0.044673	-0.08983	0.052348	-0.1768	0.614622	0.278664	0.63212	0.122653
LTF	0.20979	-0.42786	0.276095	0.14966	0.117284	0.001004	0.037628	0.266504	0.080405	-0.27933	0.345714	-0.17379	0.700224	0.031567	0.989993	0.126778
DUOXA2	-0.17337	0.162558	0.07818	0.167016	0.20132	0.23571	0.566828	0.218583	-0.07763	0.24431	-0.11074	0.092907	0.308221	0.945006	0.239803	0.725692
HERV-FRD	0.030642	-0.11752	0.191289	-0.15395	0.820993	0.388359	0.15404	0.252888	-0.0827	-0.18435	0.028305	-0.19469	0.292384	0.11001	0.573217	0.097392
LTK	-0.29465	-0.1398	0.014811	-0.23808	0.026089	0.304117	0.912923	0.074524	-0.26402	-0.19032	-0.01117	-0.27987	0.038113	0.102593	0.470978	0.029797
BCAM	0.144028	0.099831	-0.00538	0.190728	0.285123	0.46414	0.96834	0.155275	-0.05093	0.389866	-0.04101	0.343652	0.368374	0.9963	0.39455	0.990315
ARNTL	-0.0516	0.03801	-0.05423	0.046297	0.703052	0.780913	0.688664	0.732369	0.059129	0.216617	0.053328	0.185748	0.651856	0.925907	0.636049	0.891757
LUM	0.262045	-0.18683	0.014997	0.446522	0.048938	0.167961	0.911838	0.000498	0.155793	0.03287	0.232125	0.478292	0.849406	0.58584	0.93753	0.999613
LY6E	-0.07477	-0.02913	-0.01754	0.268026	0.5804	0.831209	0.896935	0.043824	-0.13573	0.477883	-0.21312	0.416346	0.186993	0.99955	0.082421	0.997778
LY6H	-0.11557	-0.1807	0.157587	-0.28995	0.391954	0.182624	0.241708	0.028683	0.006633	-0.41564	0.091425	-0.33449	0.517448	0.002035	0.724843	0.01154
LY9	0.05087	-0.33955	0.142856	0.344327	0.707067	0.010461	0.289101	0.008722	-0.00805	-0.41549	0.130081	-0.28737	0.479083	0.002268	0.799996	0.027804
CD180	-0.1672	-0.10968	-0.04701	0.500725	0.218068	0.425374	0.730807	8.49E-05	0.026157	-0.12014	0.105334	0.040117	0.567715	0.215898	0.751903	0.603203
LY75	-0.04992	-0.0802	-0.09321	0.115605	0.712293	0.556805	0.490414	0.39181	-0.12276	0.021955	0.099294	0.112792	0.210873	0.556916	0.739325	0.769652
LYL1	0.048956	-0.12334	0.297925	-0.13818	0.717622	0.365112	0.024396	0.305346	0.191313	-0.41172	0.266343	-0.27895	0.898604	0.002235	0.961512	0.030238
LYN	-0.33798	0.20019	-0.26225	0.295908	0.010132	0.139055	0.048754	0.025426	-0.34132	0.405461	-0.18251	0.239392	0.010131	0.997409	0.11508	0.945461
SH2D1A	-0.19316	-0.12734	-0.10575	0.25475	0.153777	0.354194	0.437949	0.058123	0.00654	-0.27998	0.036085	-0.08375	0.517006	0.031247	0.591944	0.292192
FXD8	0.216527	-0.11651	0.331905	-0.08656	0.108963	0.396938	0.012454	0.525853	0.207289	-0.28369	0.39271	-0.39065	0.916556	0.028027	0.996189	0.003635
LYZ	0.265882	-0.40235	0.294807	0.098879	0.045605	0.002112	0.026003	0.464305	0.141279	-0.24328	0.450935	-0.15826	0.822702	0.053665	0.999061	0.149566
ARR3	-0.09451	-0.02724	0.093666	-0.19659	0.484377	0.842064	0.488296	0.142731	0.026621	-0.37333	-0.01479	-0.39184	0.569701	0.005302	0.461603	0.00354
TACSTD2	-0.111	0.420794	-0.24893	-0.07284	0.415394	0.001379	0.064308	0.593709	-0.11248	0.648052	-0.28883	0.344211	0.228353	0.999999	0.027163	0.990419
TM4SF1	0.061249	0.339885	-0.16521	0.059323	0.653841	0.011122	0.22367	0.664067	0.151723	0.577122	-0.20194	0.357552	0.842926	0.999987	0.091714	0.992647
EPCAM	-0.05169	0.060562	-0.14238	-0.09435	0.705183	0.660498	0.295212	0.489154	-0.05868	0.202719	-0.1536	0.092987	0.350895	0.909148	0.159749	0.728254
M6PR	-0.07966	0.303226	-0.33708	0.312216	0.555819	0.023103	0.010347	0.01806	-0.14677	0.594202	-0.30636	0.401669	0.165198	0.999993	0.020338	0.99717
CAPRIN1	-0.03112	0.243471	-0.32098	0.151166	0.818229	0.070577	0.014914	0.261668	-0.12508	0.487168	-0.21882	0.469719	0.203774	0.999702	0.074347	0.999505

NBR1	-0.00388	0.05838	-0.28644	0.05402	0.977149	0.669098	0.030763	0.689821	-0.09847	0.320276	-0.1453	0.19958	0.257514	0.984995	0.170466	0.908206
FAM19A1	0.068358	-0.17575	0.003495	-0.20147	0.616656	0.199331	0.979602	0.136503	0.122528	-0.39375	-0.02863	-0.25681	0.788677	0.003724	0.426811	0.044287
LOC407835	0.08959	-0.22174	0.307229	-0.14982	0.507497	0.100506	0.020089	0.265997	0.163451	-0.40548	0.30015	-0.29139	0.861126	0.00259	0.977425	0.024721
MIRHG1	0.133658	0.15205	-0.02517	0.28192	0.321592	0.263271	0.852576	0.03362	0.193039	0.369761	-0.091	0.172713	0.900666	0.994283	0.276087	0.874476
ARRB1	0.116322	-0.45185	0.287935	0.115757	0.38886	0.000473	0.029861	0.391183	0.055593	-0.39075	0.280157	-0.33052	0.643175	0.003627	0.968838	0.012432
MGC50273	0.025788	0.032799	0.188628	-0.18534	0.848987	0.810349	0.159959	0.167496	0.055201	-0.38756	0.049505	-0.33861	0.642207	0.003894	0.626631	0.010672
MAB21L1	0.14337	-0.19506	0.230984	-0.11675	0.287353	0.149693	0.083859	0.387123	0.16023	-0.37373	0.019151	-0.2334	0.856272	0.005257	0.549684	0.05925
SPINK5L2	-0.17818	-0.08072	0.036616	-0.08542	0.188901	0.55426	0.788762	0.531367	0.035042	-0.20252	0.098314	-0.2711	0.59142	0.088538	0.739728	0.034197
MARCKS	0.01566	-0.2843	0.04408	-0.1068	0.908797	0.035409	0.747015	0.433351	-0.30142	0.037774	0.012238	0.078448	0.020889	0.598411	0.531797	0.697847
C5orf40	0.109836	-0.1414	0.174262	-0.15001	0.416023	0.29856	0.194821	0.265391	0.043939	-0.36335	0.175862	-0.34283	0.614072	0.006533	0.876069	0.00984
MXD1	-0.11792	0.053134	-0.18356	-0.01153	0.386743	0.700037	0.175669	0.93276	-0.14954	0.171228	-0.12507	-0.02672	0.160621	0.872396	0.206506	0.43003
MAD2L1	-0.07171	-0.20832	0.119596	-0.0658	0.599431	0.126943	0.379971	0.629956	0.08396	-0.27379	0.080618	-0.14668	0.710469	0.032797	0.700708	0.165336
SMAD1	-0.00553	0.295618	-0.08829	0.185564	0.967455	0.026967	0.513715	0.166979	-0.01277	0.462492	-0.0752	0.386483	0.466436	0.999394	0.311727	0.996012
SMAD2	-0.01369	0.180622	-0.18694	0.121496	0.919478	0.182811	0.163795	0.367965	-0.01902	0.27829	-0.06578	0.208763	0.450082	0.969444	0.333841	0.918088
SMAD3	-0.00476	0.517271	-0.14893	-0.02033	0.972226	4.46E-05	0.273299	0.881803	-0.17178	0.696607	-0.13112	0.394841	0.126831	1	0.195293	0.996692
SMAD4	0.071869	0.161314	-0.18162	0.2011	0.595233	0.234938	0.176349	0.133613	0.120854	0.276701	-0.01532	0.200858	0.78816	0.968668	0.46021	0.909631
ARRB2	-0.11978	-0.30747	-0.05183	0.17965	0.374818	0.021157	0.701788	0.181161	-0.34866	0.005827	-0.18595	-0.02886	0.009456	0.515151	0.113425	0.42536
SMAD5	0.093464	0.247075	-0.24965	0.129246	0.48924	0.066385	0.061087	0.337964	0.031312	0.52158	-0.20072	0.416721	0.58183	0.999899	0.093073	0.998017
SMAD6	0.36469	-0.26247	0.357136	0.076201	0.005285	0.050667	0.006388	0.573178	0.352119	-0.32973	0.332283	-0.18534	0.9918	0.012618	0.987129	0.108755
SMAD7	0.372302	-0.27395	0.292012	0.132667	0.004347	0.041047	0.027519	0.325222	0.128245	-0.28239	0.203413	-0.1499	0.802165	0.02862	0.909909	0.160026
SMAD9	0.125033	-0.173	0.169984	0.066696	0.354076	0.20229	0.206179	0.622055	0.384012	-0.40114	0.250289	-0.30165	0.995789	0.002865	0.951367	0.020808
MAF	0.310369	-0.11791	0.152366	0.14244	0.01879	0.386793	0.257855	0.290524	0.439837	-0.08878	0.183787	-0.04704	0.99875	0.280982	0.883803	0.379477
MAFG	-0.07255	0.170576	0.021655	-0.14759	0.591757	0.208782	0.872969	0.273245	-0.06456	0.092212	0.085909	-0.04935	0.334964	0.728903	0.712641	0.372334
MAG	-0.03128	-0.18418	0.159889	-0.1815	0.817303	0.174205	0.234813	0.176631	0.034261	-0.44301	0.242162	-0.3458	0.589416	0.001024	0.945501	0.009289
ACCN2	-0.06478	-0.10501	-0.03855	-0.46508	0.632111	0.441174	0.775862	0.000267	-0.37585	0.080894	-0.15801	-0.10833	0.005024	0.703477	0.149941	0.236803
ARSA	-0.05678	-0.0644	0.082991	0.080555	0.674817	0.63727	0.53938	0.551396	-0.00633	0.050195	0.105483	0.007713	0.48355	0.628336	0.752209	0.520051
MAGEA1	-0.01918	0.121814	0.14204	-0.28913	0.887397	0.371136	0.291893	0.029159	0.081347	-0.27704	0.086915	-0.23726	0.704515	0.031166	0.714885	0.056179
MAGEA3	-0.35777	0.146789	-0.11365	-0.26023	0.006289	0.280341	0.399929	0.05058	-0.08081	-0.26867	-0.09323	-0.26689	0.296712	0.035504	0.271219	0.036488
MAGEA4	-0.14022	-0.08247	0.051834	-0.19643	0.298178	0.545662	0.701775	0.143066	-0.12121	-0.19834	-0.01208	-0.28695	0.211158	0.093191	0.468601	0.026588
MAGEA5	-0.15063	-0.19765	0.113981	-0.23164	0.263381	0.144239	0.39854	0.082962	-0.13685	-0.27049	0.158954	-0.16705	0.182227	0.034521	0.851512	0.133586
MAGEA8	-0.03846	-0.23686	0.156824	-0.21499	0.776402	0.078814	0.244023	0.10827	0.119496	-0.33896	0.115018	-0.28347	0.785528	0.010601	0.77408	0.02813
MAGEA10	-0.1016	-0.17234	0.213542	-0.14245	0.456215	0.208327	0.11405	0.294957	-0.02881	-0.41969	0.140228	-0.33292	0.42462	0.001845	0.820889	0.011887
ARSB	0.328118	-0.03333	0.299655	0.397735	0.012711	0.807319	0.023541	0.002186	0.287285	-0.2708	0.238158	-0.00075	0.973558	0.034358	0.94242	0.498035
MAGEA11	0.054799	-0.20288	0.138871	-0.12263	0.688325	0.137393	0.307382	0.367921	0.112997	-0.28797	-0.03216	-0.29125	0.772676	0.026146	0.416947	0.024775
MAGEA12	-0.1517	-0.11424	0.168794	-0.26371	0.259954	0.401835	0.209419	0.04747	0.124055	-0.32462	0.241211	-0.25933	0.794293	0.013865	0.944781	0.040896
MAGEB1	-0.08415	0.124896	0.084358	-0.18569	0.533694	0.359061	0.532696	0.166679	0.051643	-0.37921	0.056668	-0.36616	0.633391	0.004675	0.644212	0.006163
MAGEB2	-0.11426	-0.27754	0.102353	-0.31113	0.397375	0.038362	0.44868	0.018484	-0.11062	-0.37935	0.026198	-0.3028	0.232123	0.004661	0.56782	0.020405
MAGEB3	0.153306	-0.38661	0.125918	-0.19437	0.254895	0.003248	0.350654	0.147391	0.030985	-0.31381	0.179949	-0.18841	0.580987	0.016845	0.881566	0.104926
MAGEB4	0.097027	-0.23525	0.083113	-0.14691	0.472753	0.080928	0.538785	0.275486	0.153779	-0.29277	0.236905	-0.27133	0.846221	0.024163	0.941429	0.034077
MAGOH	-0.0381	0.132558	-0.19598	0.006595	0.778426	0.330103	0.144009	0.961169	-0.31318	0.302426	-0.21223	0.26615	0.017034	0.979464	0.080815	0.963099
MAK	-0.12125	-0.12115	0.000802	-0.1909	0.368958	0.373787	0.995274	0.154895	-0.20498	-0.2272	0.028902	-0.14187	0.085883	0.064451	0.574744	0.173487
MAL	0.020812	0.259628	-0.17153	0.004086	0.878993	0.055596	0.206218	0.976155	0.097834	0.263401	-0.13332	-0.04003	0.738705	0.959789	0.194143	0.397011
STS	-0.17473	0.143734	0.013143	0.0375	0.193615	0.290581	0.922702	0.781821	-0.26134	0.521071	-0.18813	0.454892	0.039688	0.999898	0.107936	0.999254
MAN1A1	0.126941	-0.16105	-0.02164	0.561561	0.346721	0.235716	0.87303	5.50E-06	0.16822	0.383813	0.078829	0.526973	0.868112	0.995771	0.696627	0.999916
MAN2A2	0.09832	-0.02375	0.169875	0.197017	0.466847	0.862055	0.206474	0.141852	0.123112	-0.02318	-0.01128	-0.06473	0.792497	0.439241	0.470698	0.334555
MAN2C1	0.095042	-0.12343	0.14375	0.055468	0.4819	0.364763	0.286065	0.681943	0.123697	-0.01109	0.027586	-0.02067	0.793612	0.470833	0.571376	0.44577
MAN2A1	0.042687	0.327157	-0.2299	0.482949	0.752549	0.01385	0.085357	0.000142	0.118254	0.536126	-0.20643	0.422632	0.783103	0.999939	0.086833	0.998283
MAN2B1	-0.06758	-0.0783	-0.01807	0.341565	0.617413	0.566247	0.89388	0.009313	-0.10202	0.368977	-0.09585	0.277753	0.249953	0.994189	0.265559	0.969184
MANBA	0.084971	0.17661	-0.29894	0.194637	0.529712	0.192887	0.023893	0.146824	0.11942	0.226181	0.08633	0.163085	0.78538	0.934667	0.71358	0.86058
MAOA	0.080235	0.329615	-0.23722	-0.08205	0.556645	0.013993	0.078346	0.547711	0.277175	0.304706	-0.16573	0.031049	0.968901	0.980252	0.138292	0.581152

MAOB	0.187437	-0.29648	0.055843	-0.13271	0.162661	0.026502	0.679907	0.325077	-0.10752	-0.3133	0.097507	-0.07869	0.241022	0.018058	0.735544	0.303703
MAP1A	-0.14539	-0.20163	0.104718	-0.22488	0.280535	0.136184	0.438206	0.0926	-0.28808	-0.26986	0.074117	-0.08815	0.026103	0.034861	0.68576	0.280098
MAP1B	0.197291	-0.20383	0.189492	-0.15666	0.141286	0.131867	0.158019	0.244531	0.12432	-0.40508	0.204891	-0.25639	0.794796	0.002614	0.911516	0.042723
MAP2	0.412868	-0.00915	0.120827	-0.15795	0.001565	0.947156	0.375052	0.244966	0.061657	-0.30794	0.156395	-0.30756	0.658017	0.018673	0.847539	0.018795
MAP4	0.406103	-0.12053	0.16398	0.160717	0.001722	0.376248	0.222896	0.232365	0.412227	-0.2203	0.276172	-0.08782	0.997552	0.072954	0.965211	0.283107
MAP6	-0.1983	-0.16453	0.081421	-0.40344	0.139229	0.225618	0.547111	0.001859	-0.21711	-0.3894	0.033716	-0.23446	0.073625	0.003739	0.587013	0.0584
MAPT	0.245648	-0.16339	0.289076	-0.2677	0.06802	0.233285	0.030709	0.046082	0.247474	-0.4507	0.113535	-0.38736	0.951357	0.000835	0.771136	0.003911
MARK1	-0.06179	0.425604	-0.19731	-0.06658	0.647973	0.001075	0.141255	0.622674	-0.15491	0.32136	-0.39523	0.195805	0.154794	0.984323	0.003962	0.901312
ARSD	0.031813	-0.04547	0.131633	-0.11133	0.81427	0.739288	0.329042	0.409689	-0.0937	0.1761	-0.03221	0.031133	0.267826	0.879135	0.41682	0.581366
MARK3	-0.09591	0.194007	-0.16629	0.136154	0.47787	0.151937	0.216342	0.312553	0.048056	0.166621	-0.14602	0.043101	0.624433	0.865796	0.169253	0.611954
TBC1D3B	-0.12085	-0.23739	0.036846	-0.01746	0.370538	0.078119	0.785535	0.897416	-0.07573	-0.14201	-0.00351	-0.07941	0.308459	0.173233	0.49086	0.29994
DNAJB3	0.025817	0.140073	0.151359	-0.26898	0.848815	0.30317	0.261051	0.043051	-0.02897	-0.24369	0.066279	-0.18451	0.425095	0.053358	0.665477	0.112497
MARS	0.025586	-0.00201	-0.00508	0.362851	0.850154	0.98827	0.970067	0.005537	-0.0778	0.430979	-0.2416	0.308542	0.303663	0.998606	0.054922	0.981522
ACBD7	-0.13513	-0.14023	-0.17493	-0.28372	0.32071	0.307173	0.197236	0.03409	-0.17152	-0.18713	-0.04446	-0.19258	0.127187	0.10652	0.385913	0.099877
C10orf62	-0.14361	0.013352	0.066903	-0.34374	0.286541	0.922198	0.620975	0.008845	0.027719	-0.40118	0.166904	-0.4702	0.572547	0.002862	0.863423	0.000488
CCNYL2	-0.05176	-0.01328	0.012659	-0.13841	0.704786	0.923366	0.926221	0.308991	-0.08267	-0.04845	-0.10762	-0.07663	0.292467	0.374591	0.240821	0.306376
C10orf31	-0.08153	-0.23233	0.140626	-0.09555	0.546579	0.084875	0.296772	0.479556	0.126592	-0.35902	0.106634	-0.22272	0.79908	0.007137	0.757157	0.068408
MAS1	0.129797	0.088833	0.183302	-0.15375	0.340366	0.518959	0.176293	0.257922	-0.07664	-0.17967	0.054576	-0.1215	0.30634	0.11608	0.639106	0.210601
C10orf108	-0.03858	-0.22611	0.111321	-0.26619	0.775729	0.093803	0.40971	0.045343	-0.14442	-0.37829	0.049241	-0.31838	0.169145	0.004768	0.625978	0.015526
C10orf55	-0.02625	-0.20591	0.172492	-0.20949	0.84634	0.127891	0.199464	0.117828	-0.0243	-0.40093	0.085812	-0.44186	0.43632	0.002879	0.712423	0.001055
MAT1A	-0.16663	-0.15971	0.094934	-0.34073	0.215401	0.23968	0.4824	0.009499	-0.24663	-0.34273	0.026807	-0.25039	0.049235	0.00986	0.569381	0.046639
DDI1	0.033087	-0.10236	-0.02637	-0.30722	0.806974	0.452821	0.845636	0.020093	0.119347	-0.37205	0.100284	-0.44713	0.785237	0.005448	0.743911	0.000919
C9orf106	-0.00658	-0.20887	0.228986	-0.09986	0.961241	0.122374	0.086648	0.459853	-0.03319	-0.15772	0.002032	-0.18772	0.413336	0.147589	0.505285	0.105784
C9orf103	-0.13227	-0.17674	0.087452	-0.24301	0.326696	0.192548	0.517722	0.068536	-0.31899	-0.32781	0.147099	-0.09266	0.015356	0.013074	0.832542	0.270115
LCN10	0.136414	-0.21628	0.301699	-0.05234	0.311621	0.109378	0.022564	0.698981	0.188004	-0.35788	0.309699	-0.15669	0.89457	0.007304	0.980786	0.149185
MAT2A	0.065215	0.30856	-0.21076	0.367493	0.629826	0.020682	0.115563	0.004921	0.241709	0.36805	-0.13392	0.292811	0.947204	0.994075	0.190231	0.975855
MATK	-0.1837	-0.23784	0.136612	-0.01609	0.171357	0.077548	0.310913	0.905435	-0.11777	-0.38178	0.110262	-0.26332	0.217841	0.004421	0.764561	0.038522
MATN1	0.198372	-0.13425	0.357725	-0.29667	0.146543	0.33311	0.007332	0.027849	0.365498	-0.22045	0.218141	-0.24003	0.993224	0.072812	0.922563	0.056121
MATN2	0.402092	-0.0438	-0.00684	0.282486	0.001932	0.748562	0.959709	0.033251	0.321384	0.172834	0.326589	0.248601	0.985293	0.874645	0.985724	0.952139
MATN3	0.257846	0.011199	0.183638	0.22049	0.055035	0.935321	0.175488	0.10248	0.281376	-0.15156	0.307989	-0.08601	0.969427	0.160158	0.979019	0.287138
BLID	0.296517	-0.15803	0.303187	0.135867	0.026483	0.249202	0.023121	0.318064	0.429552	-0.41004	0.338727	-0.23386	0.998555	0.002326	0.988579	0.058881
MAX	-0.07775	0.068838	-0.09272	0.35749	0.565359	0.614178	0.492734	0.006332	-0.0486	0.282397	-0.1693	0.263946	0.374202	0.971382	0.13312	0.961843
FAM116B	-0.23119	-0.2533	0.066096	-0.3479	0.083575	0.059618	0.625199	0.008007	-0.28238	-0.39825	-0.02791	-0.34611	0.028624	0.003061	0.427783	0.009232
C8orf82	0.131957	-0.12122	0.179024	-0.01538	0.327842	0.373493	0.182712	0.909587	0.11395	-0.21114	0.114653	-0.17997	0.774588	0.079488	0.773358	0.115685
ARSE	0.157366	-0.25227	0.044454	-0.19606	0.242376	0.060696	0.742649	0.143835	0.285913	-0.30811	0.049523	-0.32054	0.972961	0.018618	0.626675	0.014934
MAZ	0.007229	-0.12913	0.137582	-0.32231	0.957438	0.342873	0.307457	0.014482	0.01668	-0.18136	0.203531	-0.18346	0.543806	0.113871	0.910038	0.111151
MB	-0.0883	-0.35079	0.136716	-0.33443	0.513636	0.008032	0.310541	0.011002	0.007631	-0.47571	0.130473	-0.39056	0.520071	0.000417	0.803523	0.003643
PIM3	0.097603	-0.24043	0.210667	0.062078	0.470116	0.07428	0.115725	0.646422	0.385927	-0.25596	0.102144	-0.39383	0.995963	0.042993	0.747829	0.003385
STX19	-0.19482	0.161829	-0.2609	-0.28119	0.146429	0.233428	0.049973	0.034103	-0.19165	0.111847	-0.06855	-0.10268	0.100988	0.77036	0.327287	0.248565
MBD1	-0.02438	0.16122	-0.02161	0.112842	0.858453	0.23964	0.874417	0.407649	-0.05115	0.367345	0.019692	0.165932	0.369318	0.993474	0.550479	0.862001
MBL2	0.081441	-0.16358	0.077041	-0.45326	0.547012	0.228332	0.568945	0.000399	0.164855	-0.35697	0.13652	-0.36321	0.863207	0.00744	0.814401	0.006551
MBNL1	0.196754	-0.01902	-0.07069	0.332459	0.142395	0.889328	0.601324	0.011513	0.342527	0.042138	0.090831	0.130865	0.990102	0.609514	0.723542	0.806997
MBP	-0.33797	-0.04773	-0.19783	-0.09272	0.010133	0.726847	0.14018	0.492737	-0.21552	-0.39271	0.006561	-0.23919	0.075154	0.003471	0.517058	0.05469
MC1R	-0.09941	-0.07265	0.194699	-0.23505	0.461887	0.594659	0.146693	0.078409	-0.00704	-0.15172	0.098926	-0.33048	0.481473	0.157075	0.741032	0.012443
MC2R	-0.01011	-0.19426	0.130909	-0.25783	0.940523	0.151392	0.331732	0.052828	-0.08396	-0.38033	0.270472	-0.19918	0.289529	0.004563	0.963831	0.092242
MC3R	0.038373	0.112245	0.064749	-0.28728	0.776874	0.410151	0.632281	0.030255	0.229683	-0.39368	0.130505	-0.36375	0.937673	0.003396	0.803581	0.006478
ARSF	0.088084	-0.11467	0.258278	-0.20411	0.514687	0.400028	0.052403	0.127775	0.005197	-0.25519	0.210122	-0.22354	0.513673	0.043487	0.917035	0.067671
MC4R	-0.10287	-0.20606	0.082796	-0.01343	0.446361	0.127606	0.540338	0.921039	-0.15143	-0.29061	-0.01621	-0.16918	0.157541	0.025038	0.457906	0.130505
MC5R	0.013245	0.015946	0.092333	-0.06739	0.922101	0.907143	0.494533	0.618415	0.049334	0.04255	0.046246	-0.029	0.627632	0.610558	0.618543	0.424147
MCAM	0.413079	-0.10671	0.301779	0.214684	0.001556	0.438076	0.023799	0.112082	0.346095	-0.15999	0.258087	0.002386	0.990765	0.144091	0.956526	0.506277

MCC	0.138187	0.250818	-0.1595	0.225574	0.305313	0.062245	0.235956	0.091577	0.090091	0.596602	-0.21755	0.361373	0.724221	0.999994	0.07556	0.993197
CHST6	-0.22279	-0.02549	-0.11703	-0.1823	0.098864	0.853442	0.390361	0.178717	-0.30448	0.077008	-0.13714	-0.00126	0.019825	0.694511	0.184512	0.496672
MCF2	0.143796	-0.39188	0.258068	-0.09489	0.29037	0.003088	0.054818	0.48665	-0.06213	-0.43817	0.172175	-0.30054	0.340847	0.001161	0.870963	0.021207
ART1	0.100705	-0.04521	0.344762	-0.14808	0.456054	0.740726	0.008632	0.271655	0.244629	-0.23804	0.239439	-0.25471	0.94934	0.05558	0.94342	0.043794
MCL1	0.036745	0.136362	-0.23837	0.363113	0.786109	0.316287	0.074155	0.005501	0.239372	0.495583	-0.00261	0.320751	0.943368	0.999731	0.493281	0.984152
MCM2	-0.1563	-0.01338	-0.13632	-0.22339	0.245631	0.922018	0.311942	0.094842	-0.48158	0.436579	-0.37997	0.15615	0.000351	0.998791	0.005019	0.849966
MCM3	0.056737	0.258905	-0.00358	0.161869	0.677894	0.056304	0.979137	0.233312	-0.23104	0.655686	-0.28013	0.509399	0.061193	1	0.031174	0.99985
MCM4	-0.19638	0.410013	-0.26638	-0.02248	0.146894	0.001878	0.047206	0.869399	-0.33022	0.744133	-0.33285	0.495863	0.012503	1	0.012738	0.999771
MCM5	0.007686	0.027646	-0.09736	0.129017	0.955163	0.8412	0.475341	0.343298	-0.17333	0.624075	-0.15366	0.435382	0.124669	0.999998	0.156775	0.998753
MCM6	0.22566	0.12804	-0.14768	0.289723	0.094476	0.351542	0.277414	0.030321	0.127839	0.459671	-0.09752	0.34761	0.80141	0.999345	0.261962	0.991035
MCM7	-0.03338	0.278621	-0.17249	0.263162	0.805305	0.037585	0.199464	0.047949	-0.16747	0.679557	-0.36124	0.45224	0.132971	1	0.007384	0.999198
CD46	0.023448	0.028076	-0.10703	0.288831	0.862551	0.837255	0.42811	0.029332	-0.02119	0.14844	-0.07791	0.188759	0.444428	0.837572	0.305475	0.8955
SMCP	-0.06656	-0.213	0.069892	-0.2962	0.622757	0.114999	0.605423	0.025277	-0.06026	-0.27082	0.05572	-0.27441	0.345392	0.034348	0.641901	0.032482
ADAM11	-0.01511	-0.24985	0.24449	-0.18503	0.911202	0.063299	0.066819	0.168221	0.109039	-0.38904	0.132313	-0.31643	0.764651	0.003769	0.806871	0.016079
MDFI	0.034807	-0.05817	0.106625	-0.05433	0.797144	0.670241	0.429866	0.688141	0.141768	0.004734	0.001971	0.021304	0.826343	0.512456	0.505125	0.55588
DNAJB9	0.147136	0.02601	0.017679	0.377402	0.279193	0.850487	0.897099	0.004139	0.243109	0.287939	-0.02941	0.220587	0.948237	0.973839	0.423947	0.929643
ART3	0.234728	-0.36298	0.213887	0.008861	0.081623	0.006456	0.113453	0.948324	0.485316	-0.47766	0.143946	-0.47538	0.999636	0.000453	0.824386	0.000483
MDH1	0.139239	0.230498	-0.30632	0.088982	0.30161	0.087435	0.020478	0.510395	-0.18837	0.532682	-0.24986	0.397626	0.104976	0.999931	0.04893	0.996895
MDH2	-0.04948	0.193976	-0.10514	0.037953	0.717245	0.155887	0.440573	0.781239	-0.31601	0.662482	-0.32598	0.436313	0.016199	1	0.014433	0.998782
MDK	-0.08718	-0.10072	0.152978	0.052316	0.519013	0.46014	0.255928	0.699133	-0.06624	0.068556	-0.02665	0.145708	0.330924	0.674621	0.431026	0.833032
MDM2	-0.19438	0.319374	-0.33263	-0.03661	0.147366	0.016428	0.011469	0.786901	-0.25793	0.494322	-0.25737	0.377232	0.041759	0.99976	0.043928	0.995122
MDM4	-0.05281	0.137058	-0.06473	0.378266	0.696412	0.313801	0.632369	0.003717	0.142573	0.177056	-0.18108	0.185385	0.827723	0.880428	0.116941	0.891298
MDS1	-0.11868	0.431702	-0.14565	-0.20703	0.379257	0.000893	0.27968	0.122301	-0.20695	0.187917	-0.08312	0.116628	0.083796	0.894463	0.29363	0.779906
ME1	-0.00946	0.445563	-0.19474	-0.06693	0.944309	0.000579	0.146616	0.620824	-0.1904	0.509559	-0.27044	0.396119	0.102492	0.999851	0.036188	0.996786
ART4	0.02154	-0.27026	0.146648	-0.13439	0.873638	0.043957	0.276357	0.318916	-0.01047	-0.23353	0.173067	-0.2471	0.472478	0.059148	0.872211	0.048906
ME2	-0.08286	0.259161	-0.26308	0.23296	0.540001	0.053763	0.048024	0.081171	-0.17067	0.420203	-0.13925	0.434728	0.12839	0.998178	0.180803	0.998732
MEA1	-0.06015	-0.11063	0.046223	-0.20517	0.656711	0.416978	0.732782	0.125767	-0.17151	0.100549	0.035909	0.039081	0.127208	0.746936	0.592577	0.601745
MECP2	0.069171	-0.15038	-0.04061	0.140529	0.612461	0.273138	0.766334	0.301586	-0.02966	0.102192	-0.08505	-0.07878	0.422432	0.750415	0.289279	0.301389
MEF2A	0.19521	0.085534	-0.0275	-0.03251	0.149363	0.534663	0.840575	0.811978	0.162094	0.065929	0.121345	0.145025	0.859094	0.668334	0.786414	0.831883
MEF2B	0.044629	-0.10971	0.281123	-0.14889	0.741669	0.420874	0.034147	0.268991	-0.03118	-0.47465	0.055699	-0.38544	0.419447	0.000493	0.640242	0.004465
MEF2C	0.293593	-0.23528	0.144532	0.425954	0.026653	0.080891	0.283421	0.000955	0.387459	-0.25287	0.36128	0.068293	0.996097	0.044989	0.992622	0.673994
MEF2D	0.340962	-0.05322	0.311023	0.21269	0.009447	0.696861	0.018528	0.112189	0.262026	0.126623	0.286823	-0.04266	0.960721	0.799138	0.971951	0.389157
ARVCF	-0.03978	-0.10037	0.120573	-0.33558	0.768899	0.46174	0.371639	0.010712	-0.05002	-0.11566	0.196235	-0.18798	0.370649	0.222006	0.901812	0.105454
MEFV	-0.11855	-0.44103	0.131944	-0.11609	0.379761	0.000669	0.327892	0.389798	-0.1638	-0.48742	0.121372	-0.39451	0.141153	0.000342	0.783721	0.003663
MEIS1	0.083195	0.15142	-0.04243	0.038584	0.538383	0.265278	0.753964	0.775679	0.224004	0.163096	-0.12914	0.222795	0.930463	0.857799	0.201736	0.929363
MEIS2	0.189821	-0.28385	0.239765	-0.25844	0.157284	0.034002	0.072433	0.052249	-0.04991	-0.29528	0.069248	-0.13633	0.370932	0.023174	0.674367	0.183145
MEIS3P1	-0.24963	-0.05638	-0.08804	-0.05841	0.061118	0.679808	0.514885	0.666037	-0.17395	-0.09726	-0.1682	-0.13248	0.123803	0.260112	0.1347	0.190068
MAP3K1	0.105445	0.082364	-0.21092	0.19097	0.435016	0.546188	0.11528	0.154741	-0.06049	0.305436	-0.01965	0.202904	0.34483	0.980499	0.449027	0.911878
MAP3K3	0.104155	-0.43303	0.245416	0.209483	0.440689	0.000858	0.06576	0.117833	0.252793	-0.55916	0.171625	-0.43752	0.954962	2.68E-05	0.870189	0.00118
MAP3K4	-0.00816	0.379155	-0.20734	-0.21021	0.951985	0.003954	0.121721	0.116535	0.091914	0.34347	-0.17081	0.024859	0.728248	0.990281	0.130962	0.565131
MAP3K5	-0.05855	0.306523	-0.19558	0.397976	0.66527	0.021579	0.144844	0.002171	0.255116	0.276575	0.016595	0.278612	0.956469	0.968605	0.543079	0.9696
RAB8A	-0.10826	0.08016	-0.14497	0.353083	0.427074	0.560725	0.286409	0.007603	-0.09968	0.572557	-0.18843	0.419915	0.254919	0.999984	0.107565	0.998165
MEN1	-0.00738	-0.0664	0.177036	-0.0966	0.956562	0.626791	0.187699	0.474709	0.054483	0.036109	-0.01954	-0.01713	0.640433	0.594152	0.449319	0.455022
MEOX1	0.317707	-0.30456	0.282712	0.109602	0.016029	0.022477	0.033104	0.417024	0.09364	-0.23137	0.150258	-0.0249	0.732036	0.060921	0.837739	0.434774
MEOX2	0.305183	-0.24447	0.235416	0.186326	0.020977	0.069394	0.077927	0.165213	0.364987	-0.16911	0.356454	0.167306	0.993685	0.130605	0.991879	0.866792
MEP1A	0.097984	-0.34125	0.199741	-0.35568	0.468376	0.010056	0.136314	0.006623	-0.02703	-0.49028	0.20196	-0.16363	0.429228	0.000271	0.90831	0.138615
MEP1B	-0.04876	-0.0974	0.059005	-0.26105	0.71873	0.475135	0.662847	0.049833	0.043848	-0.31368	-0.04213	-0.25721	0.613841	0.016884	0.39175	0.042204
MEST	0.142072	0.125577	-0.06854	0.154614	0.291784	0.356428	0.612421	0.250816	0.17816	0.210838	-0.00314	0.418008	0.88191	0.920211	0.491832	0.998078
MET	0.08457	-0.02607	-0.06675	0.365768	0.531664	0.848735	0.621793	0.005142	-0.02941	0.523099	-0.07624	0.5634	0.423081	0.999904	0.309313	0.999977
METTL1	0.036676	-0.0042	0.016725	0.230304	0.786502	0.975486	0.901728	0.084801	0.161577	0.080559	0.13717	0.077944	0.858315	0.702709	0.815548	0.696681

MFAP1	-0.11043	0.196622	-0.34882	-0.04171	0.413475	0.146384	0.007831	0.758052	-0.38539	0.338437	-0.18673	0.250198	0.004085	0.989292	0.109683	0.953231
MFAP2	0.254767	-0.09193	0.212553	0.143448	0.055809	0.500426	0.112426	0.287089	0.214248	-0.01642	0.152846	0.156975	0.923609	0.456873	0.841919	0.851256
MFAP3	0.000172	0.28286	-0.31411	0.253964	0.998994	0.036393	0.018394	0.058929	0.010581	0.55112	-0.23275	0.417297	0.52782	0.999964	0.061949	0.998045
MFAP4	0.278029	-0.1627	0.066806	0.452143	0.036256	0.230893	0.621479	0.000414	0.15065	0.008357	0.145512	0.299885	0.841189	0.521978	0.829894	0.978557
MFGE8	0.454282	-0.39755	0.304688	0.075059	0.000386	0.002413	0.021196	0.578954	0.630539	-0.4947	0.444263	-0.32132	0.999999	0.000237	0.998883	0.014725
MFI2	-0.04839	-0.01746	0.192771	-0.07313	0.723241	0.899321	0.154615	0.592226	0.080257	-0.01281	0.026882	-0.18316	0.697726	0.467115	0.567933	0.117013
MFNG	0.041437	-0.37863	0.182937	0.41906	0.75957	0.004009	0.173176	0.001177	0.037491	-0.2478	0.114956	0.061874	0.597688	0.048415	0.773958	0.658543
MGAT1	-0.01772	-0.02196	0.045265	0.371704	0.895891	0.872374	0.738122	0.004415	0.054835	0.251318	-0.12533	0.224656	0.641305	0.953984	0.206007	0.933325
SCGB2A1	-0.21595	0.061244	-0.18217	-0.43314	0.106669	0.653872	0.175027	0.000764	-0.24677	-0.24259	-0.0314	-0.18784	0.049135	0.052142	0.41888	0.105632
MGAT2	-0.05269	0.103189	-0.1343	0.235747	0.699764	0.453437	0.323712	0.080269	-0.01595	0.339224	0.021974	0.335302	0.458097	0.989452	0.556963	0.988635
MGAT3	0.013057	-0.21515	0.250165	0.111005	0.923201	0.111282	0.060542	0.41105	-0.12437	-0.0847	-0.02107	0.037122	0.205115	0.287859	0.445359	0.596745
MGAT5	-0.04986	0.145051	-0.20904	-0.03368	0.712631	0.286139	0.118627	0.803555	-0.23526	0.292736	-0.14452	0.230379	0.05776	0.975825	0.171781	0.938257
SCGB2A2	0.1257	0.018117	0.150641	-0.30902	0.351494	0.894566	0.263348	0.019339	0.098432	-0.24136	0.157379	-0.25307	0.742414	0.053054	0.849074	0.044856
CTAGE5	0.007192	0.273796	-0.05881	0.073768	0.957654	0.041162	0.663889	0.58552	-0.03849	0.297829	-0.17844	0.117678	0.399756	0.977798	0.120442	0.781974
KITLG	0.207309	0.005914	-0.09985	0.226777	0.121782	0.965498	0.459919	0.089814	0.104689	0.404195	-0.13706	0.43862	0.755657	0.997331	0.184639	0.998853
MGMT	-0.03875	-0.33197	0.210044	-0.07014	0.774751	0.012435	0.116831	0.604147	-0.13418	-0.2017	0.002849	-0.0958	0.186991	0.089435	0.507411	0.263261
MGP	0.355336	-0.30968	0.268503	0.303784	0.0072	0.021405	0.045405	0.022839	0.46256	-0.33553	0.428065	-0.01559	0.999311	0.012121	0.998126	0.459514
MGST1	0.030449	0.535955	-0.27985	-0.04915	0.822099	2.07E-05	0.035002	0.71657	-0.13964	0.563093	-0.29225	0.360076	0.177335	0.999977	0.025703	0.993015
MGST2	0.022605	0.364575	-0.35387	0.100289	0.867444	0.005737	0.006925	0.457925	-0.1931	0.631989	-0.36912	0.4278	0.099259	0.999999	0.006293	0.99849
MGST3	0.015439	-0.07023	-0.20428	-0.04542	0.90925	0.607042	0.127459	0.737268	-0.24916	0.111393	-0.0825	0.217014	0.04748	0.769442	0.295021	0.926287
CIITA	-0.0788	-0.18229	0.208123	0.477818	0.563757	0.182854	0.123747	0.000196	-0.05729	-0.07646	0.029471	0.173548	0.352661	0.30677	0.576199	0.875636
ASAH1	0.045444	0.224323	-0.17131	-0.11253	0.737124	0.096498	0.202613	0.404624	-0.12602	0.269895	-0.1282	0.149107	0.20199	0.965159	0.200659	0.838669
MICB	-0.17047	-0.11116	0.171671	0.287125	0.204854	0.414722	0.201647	0.030346	-0.02045	0.026754	0.166256	0.225716	0.446344	0.570047	0.862476	0.93426
MID1	-0.0679	0.25741	-0.19602	-0.06281	0.615789	0.055461	0.143915	0.64254	-0.10753	0.521882	-0.13714	0.344714	0.241006	0.999882	0.187349	0.9898
MIF	-0.0587	0.023888	-0.07411	0.151419	0.664493	0.861271	0.583792	0.260862	-0.1573	0.44355	-0.26846	0.325343	0.148245	0.998991	0.037284	0.986317
CXCL9	0.068758	-0.18733	0.153112	0.556342	0.614594	0.170842	0.259911	8.50E-06	-0.01705	-0.04282	0.348795	0.32877	0.456265	0.391289	0.989056	0.985334
MIP	-0.1706	-0.08312	0.025638	-0.29256	0.204513	0.54249	0.849852	0.027214	-0.11217	-0.33205	0.074881	-0.33864	0.228984	0.012082	0.687533	0.010667
MIPEP	-0.16491	-0.00646	-0.10011	-0.19515	0.220237	0.962299	0.458745	0.145741	-0.35553	-0.00549	-0.16429	-0.01341	0.007659	0.485561	0.140425	0.464758
MITF	-0.08898	0.02386	-0.00158	-0.21135	0.510406	0.861434	0.990697	0.114514	-0.00855	-0.0634	0.036315	0.013925	0.477508	0.337753	0.593605	0.536591
ATXN3	0.123116	0.122403	-0.10995	0.138308	0.361562	0.36881	0.415542	0.304886	0.25184	0.177494	0.150655	0.156289	0.954332	0.881017	0.838384	0.850185
MKI67	-0.06777	0.295412	-0.10391	-0.05394	0.619687	0.02855	0.44598	0.692959	-0.10223	0.638526	-0.19189	0.345401	0.249498	0.999999	0.10333	0.990639
MKLN1	0.072918	0.169344	-0.1699	0.212364	0.589858	0.21214	0.206414	0.112753	0.238845	0.151142	-0.04993	0.181017	0.945042	0.841988	0.372321	0.885687
ASCL1	-0.2256	0.317528	-0.18324	-0.31312	0.09154	0.017096	0.172458	0.017712	-0.21804	0.071394	0.043044	-0.03624	0.072742	0.681355	0.610551	0.405505
MLF1	-0.09178	-0.15439	-0.05635	-0.12024	0.497112	0.255917	0.677161	0.372986	-0.21229	-0.19259	0.020284	-0.09462	0.078334	0.099867	0.552609	0.265827
MLH1	0.092313	0.217704	-0.16571	0.147988	0.494627	0.107005	0.217997	0.271945	-0.01502	0.473531	-0.15703	0.34648	0.460531	0.999556	0.151467	0.990834
MAP3K9	-0.09893	0.19673	-0.02305	-0.19149	0.464088	0.146159	0.864877	0.153602	-0.0311	0.22786	-0.10712	-0.06905	0.418727	0.936121	0.241855	0.324201
MAP3K10	0.036759	-0.04033	0.325307	-0.01538	0.786029	0.767903	0.013543	0.909596	0.149162	-0.3374	0.2751	-0.2181	0.83876	0.010921	0.966298	0.072685
MLN	0.07186	-0.1444	0.26786	-0.19729	0.59528	0.288324	0.04396	0.141281	0.035595	-0.42483	0.166192	-0.36737	0.592835	0.001626	0.862383	0.006011
MAP3K11	0.14878	-0.14468	0.147936	0.092425	0.26936	0.287396	0.272114	0.494103	0.123089	0.186099	-0.02898	0.176695	0.792452	0.892197	0.425062	0.879942
MLL	0.185318	-0.00396	0.053801	0.177879	0.167554	0.976869	0.691015	0.185573	0.371058	-0.13877	0.113432	-0.08913	0.994437	0.178857	0.77093	0.277923
MLLT1	0.03433	-0.00143	0.115467	-0.15017	0.799865	0.991669	0.39238	0.264847	0.064245	-0.07778	0.071266	-0.15679	0.664281	0.303709	0.679108	0.149036
AFF1	0.135226	0.263207	0.065063	0.009498	0.315894	0.050002	0.630627	0.944095	0.369109	0.137613	0.20257	-0.01617	0.994205	0.819115	0.908984	0.457519
ACHE	0.121394	-0.34559	0.26873	-0.10558	0.368368	0.009087	0.043252	0.434431	0.073243	-0.40734	0.153955	-0.34699	0.685713	0.00248	0.843689	0.009074
ASCL2	-0.07993	-0.13188	0.090107	-0.22189	0.554514	0.332609	0.505039	0.097147	0.04909	-0.24103	0.136789	-0.31514	0.625603	0.055359	0.812031	0.01749
MLLT3	-0.05004	0.253794	-0.19801	0.078603	0.714206	0.061527	0.143494	0.564725	0.006215	0.400694	-0.06094	0.244278	0.516349	0.997106	0.345437	0.949087
MLLT4	-0.11879	-0.08943	-0.10752	-0.2264	0.378824	0.51216	0.425973	0.090357	-0.18798	-0.05788	-0.03226	-0.10961	0.105463	0.351206	0.416678	0.234178
MLLT6	0.003494	-0.1663	0.156311	-0.0199	0.979419	0.220582	0.245587	0.883167	0.094644	-0.15169	0.083566	-0.09771	0.734226	0.157123	0.707385	0.25914
FOXO4	0.127278	-0.22697	0.021369	-0.16738	0.349899	0.092525	0.875782	0.217579	0.305316	-0.39639	0.174443	-0.51287	0.979298	0.003513	0.871293	0.000158
NR3C2	0.228924	-0.25539	0.185442	-0.24329	0.086736	0.057473	0.167263	0.068209	0.06896	-0.02646	0.197668	0.02725	0.673688	0.431503	0.900808	0.570517
TRPM1	-0.01245	-0.10886	0.155925	-0.27715	0.926761	0.424514	0.246772	0.036873	-0.0294	-0.39227	0.145639	-0.33694	0.423116	0.003506	0.830106	0.011018

MME	0.177672	-0.26057	-0.03273	0.149719	0.190183	0.05468	0.810744	0.270745	-0.04507	-0.47105	0.092659	-0.17445	0.383065	0.000476	0.72754	0.123126
MMP1	0.163572	0.033187	0.158735	-0.08803	0.237261	0.813502	0.251609	0.526724	-0.01983	0.135878	0.17182	0.240162	0.449167	0.810423	0.864708	0.941824
MMP2	0.234524	-0.11599	0.073732	0.329905	0.084807	0.403604	0.592661	0.013904	0.148871	0.128663	0.225004	0.408847	0.838282	0.80294	0.931364	0.997607
MMP3	0.043997	-0.05226	-0.01121	-0.12154	0.745206	0.70207	0.934034	0.367771	0.195694	-0.073	0.1337	-0.09503	0.901181	0.316832	0.806543	0.267314
MMP7	-0.05153	-0.35703	0.186532	0.268502	0.706051	0.007454	0.168663	0.045406	0.044266	-0.31356	-0.04798	-0.0574	0.613605	0.017978	0.37855	0.354
MMP8	-0.11715	-0.15777	-0.06758	-0.23714	0.389862	0.249973	0.620663	0.078446	-0.13985	-0.38118	-0.00308	-0.28286	0.176978	0.004479	0.491997	0.028406
RGS21	0.31976	-0.22314	0.218706	-0.14695	0.015322	0.098312	0.102161	0.275346	0.071334	-0.20414	0.120884	-0.21803	0.681215	0.086787	0.785528	0.072746
ASTL	-0.0133	-0.09227	0.213835	-0.15932	0.921785	0.498835	0.110223	0.2365	0.176573	-0.26032	0.178877	-0.25382	0.879777	0.040295	0.88014	0.044368
LHX8	-0.0759	-0.17493	0.130723	-0.31022	0.574685	0.197222	0.332425	0.018849	-0.07561	-0.35654	0.138988	-0.35755	0.308743	0.007505	0.818735	0.007353
MMP9	0.013232	-0.38762	0.146558	-0.08287	0.922892	0.003457	0.281106	0.543715	-0.21424	-0.21708	0.167249	-0.18467	0.078795	0.07602	0.861069	0.112294
MMP10	-0.02293	0.096082	-0.02457	0.427455	0.865528	0.481169	0.856061	0.000912	-0.00122	0.425447	-0.04457	0.493646	0.496792	0.998399	0.385645	0.999755
ASGR1	-0.09201	-0.1097	0.162389	-0.16916	0.496033	0.420921	0.227479	0.208429	0.108361	-0.42043	0.119974	-0.36659	0.763259	0.001812	0.783774	0.006108
MMP11	-0.03857	-0.03365	0.086524	-0.0581	0.777758	0.805532	0.526035	0.670594	0.228982	-0.14604	0.050615	-0.17896	0.934862	0.169215	0.627895	0.11975
MMP12	0.115686	-0.12234	0.119041	0.195749	0.400306	0.378148	0.386688	0.152068	-0.10899	0.143053	0.087452	0.19444	0.238015	0.825738	0.713784	0.899709
MMP13	0.049042	0.153824	-0.08265	0.186072	0.719643	0.26217	0.544787	0.169734	0.077927	0.428549	-0.03333	0.415534	0.69456	0.998343	0.414968	0.997735
MMP14	0.085542	0.145487	-0.13122	0.063767	0.526944	0.284677	0.330579	0.637467	-0.06853	0.635435	-0.20011	0.44729	0.325436	0.999999	0.093752	0.999085
ATP5EP2	-0.02256	-0.0188	-0.1568	0.086587	0.867714	0.890633	0.244101	0.521889	-0.17191	0.056648	-0.30088	0.094606	0.126647	0.645772	0.022302	0.734145
MMP15	0.155307	-0.02901	0.188003	0.015617	0.253058	0.833501	0.165271	0.909051	0.054456	0.324419	0.059943	0.195873	0.640367	0.986084	0.652155	0.903984
MMP16	0.270728	-0.31155	0.235388	0.076481	0.041663	0.01942	0.077963	0.571763	0.280351	-0.27146	0.495356	-0.14441	0.968933	0.035631	0.999685	0.171966
MMP17	-0.13813	-0.0182	0.122832	-0.06851	0.305527	0.894062	0.36268	0.612614	0.040957	-0.23961	0.002997	-0.24856	0.606518	0.05437	0.507795	0.047892
MMP19	0.095229	-0.10952	0.266699	0.339307	0.481034	0.421701	0.04492	0.009821	0.35438	-0.06701	0.246471	-0.01374	0.992162	0.32908	0.948675	0.463885
ALDH6A1	0.208858	0.04774	-0.08781	-0.14783	0.118959	0.726791	0.516018	0.272462	0.307195	-0.04921	0.009703	-0.14485	0.981084	0.372683	0.52522	0.168415
ASGR2	-0.02688	-0.12461	0.261296	-0.18554	0.842658	0.360177	0.049612	0.167026	0.139096	-0.35847	0.103436	-0.25856	0.818924	0.007803	0.747985	0.043178
MN1	0.314716	-0.07191	0.352117	0.002546	0.017109	0.598419	0.007228	0.985006	0.31042	-0.34159	0.346415	-0.21389	0.982118	0.01008	0.990127	0.076747
MNAT1	-0.16276	0.210669	-0.22707	-0.15872	0.226398	0.119116	0.089396	0.238301	-0.24319	0.200782	-0.15825	0.035868	0.051706	0.909546	0.14958	0.593536
MNDA	0.033494	-0.60141	0.043143	-0.00051	0.808188	1.51E-06	0.754466	0.997038	-0.20859	-0.57159	0.037288	-0.43256	0.082094	1.67E-05	0.596069	0.00134
MNT	0.049359	0.060566	0.201504	-0.05193	0.715396	0.65746	0.132819	0.701233	0.12496	-0.06817	0.124777	-0.14552	0.796008	0.326297	0.792942	0.167288
MOBP	-0.04094	-0.12748	0.118726	-0.23791	0.762397	0.349146	0.379066	0.074733	0.085562	-0.3723	0.157066	-0.36647	0.714092	0.005419	0.848588	0.006124
MOCS1	0.03122	-0.19545	0.290099	-0.00904	0.819325	0.152716	0.030097	0.947254	0.276732	-0.25986	0.167687	-0.07512	0.968683	0.040573	0.864561	0.309886
MOCS2	0.028233	0.175292	-0.11715	0.08435	0.83486	0.196284	0.385484	0.532735	0.007278	0.108738	0.066749	0.164578	0.519144	0.764033	0.668456	0.862799
ASIP	-0.03017	-0.20945	0.163162	-0.18851	0.823709	0.121326	0.225243	0.160214	0.131072	-0.43377	0.197312	-0.35151	0.807375	0.001299	0.903059	0.008301
MOG	-0.07583	-0.16835	0.262429	-0.14054	0.575035	0.214862	0.048596	0.297068	0.076268	-0.36043	0.112855	-0.29699	0.692789	0.006936	0.769777	0.022516
MOS	-0.02954	-0.09138	0.187112	-0.23805	0.827304	0.502968	0.163405	0.074563	0.024386	-0.32349	0.03584	-0.30882	0.5639	0.014155	0.592403	0.018388
MOV10	-0.07172	0.026187	0.03264	0.141793	0.595978	0.848075	0.809529	0.292742	-0.01683	0.361441	-0.0496	0.354716	0.455808	0.993207	0.373136	0.992215
CD200	0.264915	-0.36	0.269733	0.002993	0.046427	0.006425	0.042448	0.982373	0.177144	-0.43093	0.246561	-0.11996	0.880547	0.001396	0.94874	0.213571
ASL	-0.07142	-0.20539	0.113414	-0.09159	0.597567	0.128872	0.400909	0.498036	-0.2516	-0.01308	-0.09004	-0.16678	0.047733	0.466028	0.280541	0.136754
MPG	-0.0127	-0.1351	0.227578	-0.14526	0.925281	0.320819	0.088655	0.280964	0.125884	-0.28325	0.049268	-0.19588	0.79775	0.028226	0.626044	0.096007
MPI	-0.14857	0.024791	-0.15277	0.158308	0.270027	0.856082	0.256584	0.239534	-0.07377	0.372466	-0.0618	0.323271	0.31304	0.9946	0.343379	0.985789
MPL	-0.07018	-0.3276	0.242128	-0.3237	0.60395	0.013713	0.06958	0.014039	0.112335	-0.66131	0.266292	-0.51829	0.771345	2.82E-07	0.961482	0.000112
MPO	-0.06663	-0.23783	0.206916	-0.21751	0.622387	0.077559	0.122506	0.1041	0.063818	-0.45586	0.168388	-0.35172	0.663251	0.000727	0.865575	0.008266
MPP1	0.141372	-0.45837	0.094709	0.184639	0.298665	0.000433	0.487483	0.173105	0.083056	-0.36886	0.098621	-0.19426	0.704019	0.006873	0.735384	0.103198
MPP2	-0.00253	-0.37562	0.169226	-0.0788	0.985116	0.004335	0.208239	0.560121	0.146978	-0.39989	0.272137	-0.1195	0.835152	0.002949	0.964734	0.214468
MPP3	-0.07879	0.003688	0.006081	-0.03923	0.560181	0.97848	0.964194	0.772025	0.257337	-0.04895	0.018706	-0.03493	0.957873	0.373328	0.548537	0.408874
MPST	0.049917	0.058553	0.127737	-0.09475	0.712315	0.668173	0.343682	0.483267	0.154048	0.010117	0.05796	-0.08466	0.84665	0.526602	0.647354	0.287956
MPV17	-0.00104	0.17428	-0.23157	0.214578	0.99389	0.19892	0.083056	0.108963	-0.12253	0.588055	-0.23311	0.490644	0.208616	0.999991	0.061647	0.999732
MPZ	0.001074	-0.24294	0.111447	-0.03626	0.993674	0.07121	0.409176	0.788841	0.358511	-0.53247	0.187817	-0.37977	0.992789	6.98E-05	0.891676	0.004619
MRE11A	-0.01361	0.104322	-0.11414	0.000217	0.919939	0.444177	0.397878	0.998724	-0.01538	0.311509	-0.0356	0.224073	0.459596	0.982457	0.408213	0.932807
ABCC1	-0.07262	0.421221	-0.15646	0.01101	0.594805	0.001362	0.24951	0.935813	-0.19561	0.687292	-0.32994	0.460731	0.096324	1	0.013435	0.999364
KLK14	-0.07054	-0.23154	0.158319	-0.19042	0.602102	0.085981	0.239502	0.15595	0.139875	-0.38553	0.006352	-0.34293	0.823072	0.004073	0.516516	0.009821
KLK12	0.172158	-0.12274	0.262406	-0.09593	0.20453	0.371981	0.050729	0.481879	0.088417	0.180789	0.105146	0.097569	0.720496	0.885388	0.754084	0.740561

ASNA1	-0.10886	-0.06857	-0.12214	-0.09632	0.420214	0.615572	0.365421	0.475992	-0.31056	0.294399	-0.16342	0.17247	0.017839	0.976484	0.141713	0.874137
KRTAP5-5	0.032259	0.050644	0.08817	-0.03965	0.811711	0.710882	0.514276	0.769652	0.079411	0.010069	0.018001	-0.03171	0.700069	0.526475	0.546716	0.417143
C12orf37	-0.10522	-0.08991	0.05829	-0.2243	0.435983	0.509925	0.666689	0.093474	0.009811	-0.30972	-0.01453	-0.31643	0.5255	0.019207	0.462707	0.017102
MXRA7	0.390648	0.149114	0.111216	0.12555	0.002661	0.272708	0.410157	0.352077	0.232628	0.108235	0.087828	0.221844	0.937949	0.760438	0.714613	0.928488
C8orf15	-0.05258	0.167332	-0.00552	0.300368	0.697685	0.217699	0.967516	0.023196	-0.02159	0.137118	-0.04428	0.200353	0.44338	0.818243	0.386365	0.90907
LOC439951	0.025934	-0.21196	0.32749	-0.14726	0.848139	0.116813	0.012893	0.274343	0.164594	-0.42219	0.267746	-0.42568	0.862821	0.001735	0.962313	0.001592
LOC100133	-0.10543	-0.14266	0.149172	-0.24191	0.43507	0.294251	0.268086	0.069834	0.022116	-0.3448	0.240735	-0.28395	0.557996	0.009471	0.944418	0.02791
RPS3AP5	0.248418	0.146837	-0.07599	0.12417	0.062422	0.280181	0.574239	0.357437	0.019066	0.23919	-0.20031	0.213967	0.55004	0.945307	0.09353	0.923333
IFIT1L	-0.12893	-0.02929	0.024108	-0.13966	0.343609	0.831875	0.860008	0.304605	-0.01209	-0.53456	-0.00985	-0.37221	0.468599	7.76E-05	0.474694	0.005904
ASNS	-0.03639	0.178388	-0.11693	0.362989	0.790013	0.192557	0.390745	0.005968	0.138686	0.079639	-0.14075	0.040601	0.821	0.700594	0.178213	0.605614
LOC440015	0.174028	-0.16448	0.242936	-0.10362	0.195431	0.225748	0.068626	0.443062	0.301776	-0.16413	0.264683	-0.2903	0.979236	0.137868	0.960547	0.025168
KRTAP5-2	-0.01875	-0.04663	0.056313	-0.24893	0.889915	0.732912	0.677363	0.061861	0.083619	-0.29913	0.11071	-0.19395	0.709695	0.021719	0.765465	0.098256
KRTAP5-6	0.109765	-0.08265	0.085455	-0.16606	0.41633	0.544787	0.527365	0.217001	0.17843	-0.17932	0.219743	-0.15948	0.882272	0.116543	0.926526	0.144875
TMEM41B	-0.11818	0.378562	-0.28999	0.15025	0.381286	0.004016	0.028662	0.264604	-0.15145	0.472806	-0.2049	0.263072	0.157508	0.999547	0.088472	0.961336
SLC22A20	-0.19898	-0.07314	0.043458	-0.00887	0.137843	0.592167	0.748222	0.94781	0.076647	-0.04443	-0.01493	-0.12581	0.693672	0.38468	0.461227	0.202394
FLJ42258	-0.08537	-0.15414	0.18664	-0.10334	0.527788	0.256689	0.164488	0.444302	0.15231	-0.47486	0.338448	-0.20646	0.843871	0.000427	0.988519	0.084313
KRTAP5-7	-0.12855	0.048318	-0.11219	-0.19918	0.345061	0.726108	0.410401	0.141104	-0.20261	-0.11149	-0.13348	-0.23168	0.088444	0.230365	0.191023	0.060657
KRTAP5-11	-0.01904	-0.1435	0.155121	-0.21833	0.888202	0.291379	0.249248	0.102762	0.114087	-0.32365	0.06849	-0.32286	0.77486	0.014113	0.672577	0.014317
CARD17	0.099735	-0.17349	0.052156	-0.15684	0.460425	0.200984	0.70001	0.243963	0.053377	-0.24775	-0.05417	-0.11265	0.637696	0.048453	0.36188	0.228027
NCRNA001	-0.03094	-0.06731	0.194381	-0.18878	0.81927	0.622063	0.147368	0.159616	-0.04138	-0.30237	0.143019	-0.22773	0.392401	0.020554	0.825681	0.063993
IQSEC3	0.003464	-0.24977	0.181664	-0.24458	0.979598	0.063386	0.176236	0.066721	0.082037	-0.43751	0.145605	-0.40532	0.706093	0.001181	0.83005	0.0026
ZNF705A	0.002541	-0.02433	0.100346	-0.04013	0.985032	0.85875	0.45767	0.766947	0.069688	-0.26084	0.049162	-0.09447	0.677313	0.039982	0.625782	0.266159
RPS6P1	-0.06185	0.046066	0.096274	-0.11305	0.647615	0.736019	0.476214	0.402445	0.049784	0.00176	-0.10818	-0.00176	0.628757	0.504632	0.239675	0.495361
C12orf69	0.121463	-0.28403	0.137794	-0.32374	0.368094	0.033883	0.306707	0.014026	0.028237	-0.33647	0.24145	-0.3544	0.573887	0.011117	0.944963	0.007834
LOC440093	0.015348	-0.10853	-0.10041	0.113948	0.909783	0.425925	0.457376	0.398677	-0.16303	0.265477	-0.32082	0.156593	0.13951	0.962719	0.015829	0.850659
DBX2	-0.06485	-0.2535	0.190298	-0.26062	0.631735	0.059414	0.156224	0.050226	-0.00467	-0.35307	0.136926	-0.26509	0.487717	0.008047	0.815117	0.037502
LOC440104	0.029234	0.077485	0.233286	0.022183	0.83064	0.573915	0.083569	0.871089	-0.07759	0.053167	-0.12079	0.013757	0.30415	0.637175	0.214645	0.536151
PLEKHG7	-0.21776	-0.10506	-0.0243	-0.06957	0.10369	0.440952	0.857616	0.607085	-0.27335	-0.02337	0.012988	-0.00392	0.033024	0.438747	0.533742	0.489698
ALG11	0.068951	0.178232	-0.25451	0.144423	0.610304	0.188768	0.056065	0.283789	-0.04545	0.502611	-0.18101	0.405252	0.382112	0.999814	0.117039	0.997396
RNASE13	-0.06396	-0.09384	0.088667	-0.12766	0.639549	0.491519	0.515798	0.348433	0.289623	-0.43867	0.196161	-0.50077	0.97455	0.001146	0.901725	0.000197
C14orf53	0.019346	-0.07306	0.003939	-0.25921	0.886421	0.592594	0.976801	0.051524	0.050176	-0.16356	0.03789	-0.24428	0.62829	0.141511	0.596457	0.052918
CCDC88C	-0.24775	-0.0202	-0.07953	-0.16392	0.06315	0.882542	0.556466	0.223054	-0.38874	0.044563	-0.11893	-0.09185	0.003794	0.615647	0.218251	0.271893
FLJ41170	0.061236	-0.11996	0.165623	-0.17751	0.650904	0.378516	0.218231	0.186502	0.200345	-0.38741	0.179183	-0.33821	0.909061	0.003907	0.880549	0.010755
EIF2AK4	0.153472	0.305253	-0.05807	0.20912	0.254377	0.022156	0.667862	0.118486	0.122037	0.390486	-0.07739	0.351018	0.790439	0.996351	0.306674	0.991618
CATSPER2F	-0.11046	-0.11855	0.003378	0.127192	0.413359	0.384165	0.980104	0.345763	0.048936	-0.02027	-0.12978	-0.03509	0.626636	0.446817	0.197753	0.408457
UNC13C	0.117128	0.026452	0.025764	-0.05788	0.394419	0.849415	0.851888	0.674671	-0.1187	0.057296	-0.05315	0.038033	0.21602	0.647366	0.364395	0.599072
TTLL13	-0.34882	-0.23704	0.032806	-0.38256	0.00842	0.081429	0.810312	0.003616	-0.21895	-0.52139	0.059897	-0.38085	0.071879	0.000101	0.652043	0.004511
LOC440311	0.125766	0.08429	0.203341	0.016633	0.351241	0.536812	0.129247	0.902261	0.16827	0.084283	0.078909	0.051731	0.868183	0.711202	0.69681	0.633611
LOC440313	-0.09705	-0.15001	-0.10931	-0.14379	0.472664	0.269806	0.418263	0.285915	0.153692	-0.09587	0.092213	-0.05184	0.846084	0.263111	0.726568	0.366121
LOC440337	0.011534	0.047427	0.291477	-0.03182	0.932138	0.728515	0.027817	0.814248	0.346826	-0.36144	0.160584	-0.23967	0.990896	0.006794	0.854006	0.054324
LOC100133	-0.08237	-0.15061	0.141317	-0.14881	0.54242	0.267872	0.294383	0.269248	0.177185	-0.41618	0.149276	-0.49994	0.880603	0.002009	0.836135	0.000202
CTRB2	0.036214	-0.00893	0.200334	-0.08189	0.789129	0.947929	0.13513	0.544779	0.20422	-0.23987	0.133713	-0.09436	0.913301	0.054173	0.809397	0.266399
RNASEK	-0.07009	0.247087	-0.17027	0.144919	0.60441	0.066372	0.205396	0.282123	-0.20743	0.34322	-0.23549	0.269876	0.083293	0.990234	0.059707	0.965149
LOC440415	-0.07156	-0.11477	0.22683	-0.17355	0.596813	0.399628	0.089738	0.196686	0.119539	-0.38362	0.170668	-0.39135	0.785612	0.004247	0.868837	0.003579
GPR179	-0.13072	-0.00809	0.059829	-0.23015	0.332419	0.952838	0.658424	0.085013	0.126307	-0.31832	0.096565	-0.27794	0.798546	0.015544	0.735989	0.030724
PLEKHM1P	-0.102	0.058032	0.049541	-0.15753	0.450253	0.670955	0.714391	0.241871	0.056108	-0.04721	-0.04031	-0.12724	0.644445	0.377681	0.396318	0.199705
LOC440461	0.077787	-0.13182	0.281937	-0.15944	0.565198	0.332836	0.033609	0.236159	0.106613	-0.38265	0.198463	-0.28265	0.759656	0.004338	0.904378	0.028502
FLJ90757	-0.15712	-0.39213	0.201836	-0.29039	0.243135	0.0028	0.132167	0.02843	-0.09674	-0.39441	0.154971	-0.36961	0.261219	0.003341	0.845299	0.005735
ANKRD20A	0.138997	0.052837	0.194314	-0.17897	0.302459	0.698945	0.147509	0.182839	0.019622	-0.00084	0.025934	-0.06212	0.551492	0.497783	0.567144	0.340847
CLEC4GP1	0.030941	-0.16948	0.207135	-0.10593	0.819275	0.211766	0.122103	0.432896	0.14582	-0.47323	0.209098	-0.42883	0.833218	0.000448	0.915974	0.001472

ZNF506	0.022704	0.090116	-0.09927	0.253978	0.866871	0.508931	0.462535	0.056599	0.148563	0.140908	-0.06287	0.193998	0.837776	0.824863	0.34081	0.901797
PSG8	-0.20332	-0.02005	-0.06724	-0.07626	0.129282	0.883366	0.619217	0.572855	-0.11292	-0.14425	0.133685	-0.07009	0.227475	0.169418	0.809347	0.321729
PRAMEF11	0.083323	-0.04168	0.104977	-0.25623	0.537754	0.760344	0.437071	0.054364	0.063617	-0.12764	-0.05703	-0.09535	0.662765	0.19896	0.35491	0.264247
LOC440563	0.154958	-0.28905	0.256122	-0.12291	0.24975	0.030723	0.054474	0.362365	-0.00304	-0.39805	0.292627	-0.31884	0.491989	0.003075	0.974453	0.0154
C1orf151	-0.00211	0.118175	-0.15765	0.091319	0.987551	0.385701	0.241529	0.499307	-0.03296	0.354966	-0.15131	0.283383	0.41491	0.991637	0.163439	0.970377
FAM183A	-0.1378	-0.24754	0.061101	-0.3085	0.306694	0.065859	0.651625	0.019554	-0.23239	-0.32853	0.019615	-0.21516	0.060074	0.012902	0.550883	0.075497
RPS2P8	-0.0837	-0.02962	0.081463	0.015882	0.535925	0.828411	0.5469	0.906658	0.13903	-0.03764	-0.01741	0.033625	0.821601	0.401941	0.454818	0.587783
ZYG11A	-0.0664	0.058912	-0.07694	-0.29709	0.623617	0.666259	0.569453	0.024819	-0.08613	-0.29164	-0.0344	-0.4656	0.28686	0.025958	0.412279	0.000634
EEF1A19	0.096349	0.16172	-0.18427	0.086092	0.475866	0.233745	0.170008	0.52428	0.248239	0.266779	-0.24617	0.11945	0.951889	0.963451	0.051543	0.785437
BCL2L15	-0.26256	0.326753	-0.13262	0.173332	0.050586	0.014898	0.329885	0.201412	-0.23886	0.565211	-0.21772	0.41442	0.054946	0.999979	0.075402	0.997904
HIST2H2BF	-0.13868	0.030117	-0.15069	-0.07618	0.30359	0.825607	0.263206	0.573293	-0.02999	0.06418	0.07804	0.008054	0.421585	0.664125	0.694819	0.521184
ETV3L	-0.13869	-0.24117	0.222517	-0.1411	0.303553	0.073359	0.096176	0.295132	0.10056	-0.50944	0.178343	-0.35496	0.746958	0.00015	0.879425	0.007747
LRRC52	-0.11611	-0.16106	0.17874	-0.2186	0.389741	0.235691	0.183418	0.102336	0.025749	-0.41079	0.115289	-0.31637	0.56744	0.002285	0.774618	0.016095
LOC440706	0.057701	0.115351	-0.06406	-0.06477	0.669861	0.397237	0.635936	0.632148	0.055123	-0.14026	0.056894	-0.14099	0.640444	0.179063	0.643124	0.177799
C1orf186	-0.01932	0.011894	-0.03351	0.166094	0.886559	0.930673	0.804555	0.216906	-0.00707	-0.0067	0.06408	0.225098	0.481391	0.482376	0.662097	0.933716
TRIM67	0.037105	-0.06289	0.251742	-0.2207	0.784064	0.645182	0.058885	0.099002	0.132699	-0.29464	0.180105	-0.3402	0.810336	0.023422	0.881772	0.010352
LOC440733	0.052932	0.053306	0.082854	-0.14876	0.695762	0.696396	0.540052	0.269413	0.09705	-0.00553	0.067776	-0.16254	0.737029	0.485624	0.668993	0.143039
RPL35P1	0.156658	0.104033	0.096662	-0.04442	0.244528	0.445447	0.474429	0.742867	0.094691	0.287823	-0.16966	0.174309	0.734329	0.973789	0.132594	0.876686
MAP1LC3C	-0.08965	-0.12651	0.176717	-0.24828	0.50722	0.352833	0.188508	0.062572	0.028542	-0.41596	0.279345	-0.36561	0.574676	0.00202	0.968441	0.006235
LOC440742	0.019781	0.033244	0.050852	0.017921	0.884947	0.809594	0.709744	0.895702	0.001359	-0.16299	0.060425	-0.21533	0.503575	0.139557	0.65332	0.075336
MGC44328	0.109735	0.014872	0.356418	-0.27779	0.416458	0.91337	0.006503	0.036424	0.213061	-0.37675	0.199188	-0.41079	0.922438	0.004928	0.905203	0.002285
LOC440786	0.029562	-0.2389	0.145814	0.066429	0.828769	0.078986	0.283582	0.626659	-0.0528	-0.15757	0.1895	-0.09172	0.36374	0.147812	0.893758	0.272187
PIWIL3	0.0536	-0.11353	0.133223	-0.27702	0.69211	0.404795	0.32318	0.036965	-0.01391	-0.41153	0.04048	-0.38813	0.463449	0.002246	0.604117	0.003845
ODF3B	-0.16926	-0.30538	0.155874	-0.08223	0.208133	0.022098	0.246927	0.543127	-0.23427	-0.31508	0.017459	-0.18711	0.058551	0.01647	0.545315	0.106533
FLJ46838	0.08281	-0.24666	0.266112	-0.15066	0.54027	0.066859	0.045411	0.263281	0.218945	-0.29774	0.084398	-0.23819	0.928115	0.022236	0.709257	0.05546
ACTBL3	-0.01742	-0.11651	-0.01075	0.042199	0.897652	0.39246	0.936772	0.755284	0.126843	0.181753	0.126997	-0.08267	0.799551	0.886647	0.797104	0.292466
LOC440925	-0.1106	0.00785	0.06587	-0.38697	0.412784	0.954212	0.626385	0.002943	0.014988	-0.40867	0.025355	-0.31371	0.539375	0.002403	0.565655	0.016875
LOC440934	-0.00848	-0.17185	0.215893	-0.09448	0.950083	0.205342	0.10676	0.484494	0.154196	-0.26449	0.169071	-0.22937	0.846884	0.037841	0.866557	0.062588
LOC440944	0.084963	0.150343	-0.03003	0.100045	0.529755	0.268731	0.824533	0.459027	0.286273	0.136995	0.17792	-0.04296	0.973119	0.818025	0.878857	0.388409
TMEM89	-0.03285	-0.20246	0.238676	-0.18363	0.808347	0.134538	0.073779	0.171527	0.194429	-0.48895	0.207962	-0.46213	0.902303	0.000282	0.914787	0.000612
LOC440957	-0.1478	0.251846	-0.18989	0.203542	0.272569	0.061146	0.157133	0.12886	-0.08602	0.175869	-0.19398	0.217072	0.287111	0.876078	0.103527	0.923975
LOC440993	-0.07907	-0.0563	-0.00942	-0.10224	0.558768	0.680224	0.94456	0.449197	-0.09727	0.150403	-0.14055	-0.08601	0.260073	0.840787	0.178548	0.284892
LOC441016	-0.1852	-0.0039	0.217902	-0.05021	0.167839	0.977238	0.10346	0.710682	0.156043	-0.09186	0.370095	-0.07834	0.849798	0.271865	0.993832	0.302413
MTHFD2L	-0.02544	0.100346	-0.12118	-0.08763	0.851012	0.461825	0.36923	0.516849	-0.22432	0.261011	-0.13337	0.001596	0.06697	0.960118	0.191224	0.504201
LOC441046	0.053324	-0.03272	0.155358	-0.01718	0.693618	0.810777	0.248514	0.899074	0.125638	-0.32157	0.024066	-0.20625	0.797287	0.014657	0.562346	0.084536
MARCH11	0.124473	-0.20914	0.295282	-0.37064	0.360704	0.125424	0.027149	0.004924	0.038762	-0.18738	0.165015	-0.21263	0.60093	0.106205	0.860651	0.077991
RPL26P19	-0.04315	-0.07055	0.110794	-0.06292	0.749972	0.605395	0.411946	0.641973	-0.102	-0.17994	0.018829	-0.19412	0.249993	0.115721	0.548852	0.098054
LOC441108	0.038003	-0.28774	0.246819	0.451712	0.77897	0.031525	0.064183	0.00042	0.211796	-0.31191	0.252818	-0.01672	0.921176	0.017418	0.953089	0.4561
FLJ45422	-0.00686	-0.16898	0.234157	0.256853	0.959987	0.217472	0.082389	0.05601	0.022882	-0.18897	0.167283	0.027347	0.559989	0.104241	0.863974	0.571582
C6orf226	-0.20507	-0.04571	-0.03267	-0.07682	0.129472	0.737965	0.811101	0.573631	-0.20493	-0.1003	0.070173	-0.09512	0.085937	0.253603	0.676542	0.264743
TMEM151E	-0.11374	-0.13253	0.169603	-0.2913	0.399529	0.330204	0.207212	0.027916	-0.16858	-0.23788	0.064557	-0.22864	0.131367	0.055704	0.663237	0.063209
FAM26F	-0.04704	-0.09414	0.285391	0.101774	0.728223	0.490094	0.031406	0.451263	-0.05327	-0.29559	0.134255	-0.0983	0.362575	0.023054	0.810368	0.25786
LOC441178	-0.29324	0.022284	-0.02236	-0.12926	0.026846	0.870505	0.868889	0.33792	-0.14229	-0.18377	-0.02802	-0.17791	0.175571	0.113449	0.428349	0.121152
LOC441179	0.007095	-0.15254	0.221761	-0.18936	0.958225	0.261707	0.097342	0.158308	0.059117	-0.4707	0.278544	-0.32653	0.651827	0.000481	0.968045	0.013386
PMS2CL	-0.2983	0.289187	-0.34274	0.193814	0.02421	0.030642	0.009057	0.148574	0.177812	0.218701	-0.0033	0.102	0.878713	0.925538	0.49152	0.747526
LOC441208	-0.02624	-0.16623	0.217617	-0.13502	0.846391	0.220776	0.103922	0.316645	0.122534	-0.36847	0.122271	-0.26384	0.791391	0.005873	0.788186	0.03822
RP9P	0.399547	-0.00612	0.201946	-0.09833	0.002077	0.964281	0.131952	0.466822	0.46564	-0.00652	0.239166	-0.10163	0.999445	0.482858	0.943208	0.250777
LOC441233	-0.34338	-0.07382	-0.15434	-0.10508	0.008921	0.588695	0.251676	0.436627	-0.09824	0.022464	-0.01765	-0.04461	0.257992	0.5589	0.454196	0.38424
ZNF716	0.004981	0.097683	0.005904	-0.16277	0.970665	0.473855	0.965233	0.226365	0.023637	-0.12911	0.155287	-0.09171	0.561243	0.198973	0.842919	0.274534
LOC441235	-0.08962	-0.20768	0.214938	-0.25076	0.507343	0.12457	0.108357	0.059917	0.056543	-0.47892	0.181574	-0.39417	0.645515	0.00038	0.883705	0.003359

LOC441242	-0.20823	0.24184	-0.24125	-0.03209	0.120089	0.072541	0.070624	0.812667	0.045526	0.281192	-0.21516	0.104599	0.618075	0.970824	0.077885	0.755468
hCG_19833	0.120091	0.089013	0.033844	-0.00327	0.377799	0.518112	0.804428	0.980943	0.118052	0.368876	-0.20975	0.182124	0.782708	0.994176	0.083349	0.887128
TYW1B	0.055559	-0.2637	-0.09842	-0.00643	0.681448	0.049556	0.466375	0.962116	0.133697	-0.17269	-0.01499	-0.1329	0.81214	0.125549	0.461062	0.189309
SPDYE7P	0.149204	-0.07838	0.16104	-0.16505	0.267982	0.565842	0.231416	0.219839	0.008847	-0.09688	0.018996	-0.25215	0.523267	0.260933	0.549284	0.045464
LOC441268	-0.12487	-0.0908	0.10961	-0.12294	0.354718	0.505703	0.416991	0.362267	0.244753	-0.30899	0.127715	-0.23946	0.94943	0.018335	0.79844	0.054489
C8orf85	0.024438	-0.11597	0.113278	-0.20247	0.858112	0.399138	0.405828	0.134511	0.125463	-0.18883	-0.10479	-0.21479	0.791455	0.109808	0.251832	0.080739
LRRC24	-0.00418	0.029742	0.234303	-0.1947	0.97538	0.827744	0.079385	0.146694	0.2319	-0.4459	0.137546	-0.40614	0.937342	0.001071	0.813363	0.002818
ANKRD18B	-0.18143	0.129552	-0.26786	-0.2147	0.176793	0.341284	0.043962	0.108764	-0.30271	0.298277	-0.23633	0.04873	0.020436	0.977965	0.059033	0.626123
LOC441476	0.152016	-0.22486	0.289386	-0.31263	0.258965	0.09568	0.029009	0.017898	0.138015	-0.37751	0.318706	-0.29201	0.819823	0.004849	0.983569	0.024469
NRARP	0.093587	0.058558	0.051663	0.026579	0.488663	0.668149	0.702712	0.84441	-0.0777	0.363476	-0.14468	0.228204	0.303876	0.993485	0.171505	0.936416
FTHL18	-0.07716	0.026895	0.207673	-0.10592	0.56834	0.844015	0.121114	0.432955	0.058977	-0.35271	0.124234	-0.20115	0.651484	0.008104	0.791917	0.090045
RPS26P11	0.128956	0.139073	0.04756	-0.20486	0.339057	0.30667	0.725351	0.126347	0.038659	-0.00361	0.191632	0.007744	0.600668	0.490514	0.896356	0.520367
LOC441506	-0.02098	0.218966	-0.17262	0.000253	0.878035	0.108239	0.2033	0.998523	-0.0275	0.475039	-0.31732	0.303802	0.428019	0.999575	0.016836	0.979943
GLRA4	0.047697	-0.25191	0.346403	-0.09222	0.724595	0.061077	0.0083	0.495055	0.167168	-0.49773	0.224684	-0.32058	0.863807	0.000252	0.928717	0.015896
FAM127C	0.368816	0.060914	0.189666	0.12099	0.004757	0.655618	0.15763	0.369976	0.38469	-0.00047	0.305858	0.053278	0.995851	0.498752	0.979487	0.637451
RP13-36C9	-0.00812	-0.06584	0.085421	-0.13338	0.952177	0.629734	0.527529	0.322604	0.259248	-0.23501	0.117999	-0.27172	0.959053	0.057953	0.77994	0.03387
SPANXN4	-0.25886	0.035093	0.043151	-0.30638	0.051851	0.797356	0.749946	0.020452	-0.17926	-0.23929	0.207982	-0.28678	0.116619	0.054619	0.914808	0.026662
PGAM4	-0.21681	0.134661	-0.24094	-0.33292	0.105245	0.32242	0.070999	0.011393	-0.0205	-0.10683	0.112437	-0.1659	0.446205	0.239899	0.76894	0.135255
ARMETL1	-0.08373	-0.19802	-0.01181	-0.29385	0.539521	0.147283	0.931141	0.027938	-0.10446	-0.37916	0.066316	-0.38547	0.244829	0.004679	0.667428	0.004078
LOC441601	-0.03491	-0.14162	0.132967	-0.17505	0.796583	0.297813	0.324121	0.192789	0.18858	-0.22326	0.228816	-0.21685	0.89528	0.06792	0.934719	0.07387
OR5B3	-0.03239	-0.16891	-0.01637	-0.2286	0.810975	0.213333	0.90379	0.087195	0.015059	-0.27017	0.104871	-0.25823	0.539561	0.034695	0.753515	0.041572
TSPAN11	0.159118	-0.2369	0.112433	-0.0215	0.237107	0.078754	0.405021	0.873853	-0.17527	0.109848	0.020489	0.159251	0.121995	0.766303	0.553136	0.854775
OR9K2	-0.11342	-0.05549	-0.01396	-0.35333	0.400871	0.684622	0.917931	0.007017	0.057881	-0.33492	0.154591	-0.29475	0.648801	0.011448	0.844698	0.023377
OR4Q3	0.030264	-0.07357	0.042731	-0.29726	0.823163	0.590001	0.752301	0.024731	0.009766	-0.10271	0.1598	-0.30702	0.525383	0.250989	0.849934	0.020113
OR4M1	-0.08301	-0.20829	0.081202	-0.14731	0.539274	0.123442	0.548191	0.274167	0.140215	-0.32077	0.037384	-0.3317	0.823664	0.014873	0.596311	0.012163
LOC441722	-0.09692	0.001248	-0.09806	0.003607	0.473236	0.992716	0.468054	0.978758	0.102571	-0.00229	-0.12989	-0.09589	0.751214	0.493962	0.197552	0.263068
LOC441728	-0.09764	-0.11993	0.098051	-0.21427	0.469934	0.378623	0.468071	0.109479	0.0937	-0.37169	0.108847	-0.289	0.732168	0.005489	0.761687	0.025712
LOC441795	-0.03671	-0.17232	0.150752	-0.22472	0.788219	0.208385	0.267416	0.095894	-0.14507	-0.2484	-0.16737	-0.1662	0.168039	0.048	0.135902	0.134812
WBP11P1	-0.22511	0.086102	-0.09526	-0.10704	0.092268	0.528061	0.480894	0.428083	0.155365	-0.36498	0.179596	-0.38056	0.848732	0.006316	0.881098	0.00454
RPS16P1	-0.07517	0.171611	-0.03133	0.161034	0.578384	0.205992	0.817067	0.231433	0.148951	0.327582	-0.12459	0.1294	0.835601	0.985977	0.210185	0.801554
OR10J3	0.041015	0.001319	0.146038	-0.17343	0.761949	0.992305	0.278383	0.196995	0.210455	-0.34337	0.204915	-0.43602	0.919822	0.009739	0.911542	0.001227
LOC441931	0.236638	-0.01449	0.169255	-0.45378	0.076351	0.915561	0.208161	0.000392	0.14719	-0.36761	0.162378	-0.39485	0.832694	0.006491	0.853852	0.003635
OR2W5	-0.01804	-0.22302	0.239614	-0.13615	0.894991	0.1017	0.075292	0.317045	0.067663	-0.39968	0.096934	-0.28252	0.67249	0.002963	0.736779	0.028563
OR13G1	-0.00579	-0.05324	0.11981	-0.36282	0.965892	0.696736	0.374697	0.005542	0.18142	-0.27434	0.153936	-0.31565	0.886212	0.032514	0.843659	0.016303
C20orf199	0.07437	0.493331	-0.29844	0.245596	0.585935	0.000112	0.025473	0.06808	0.078288	0.560828	-0.35774	0.437454	0.697477	0.999975	0.007917	0.998818
LOC441956	0.015887	-0.26732	0.148059	-0.03407	0.906626	0.046399	0.271713	0.801359	0.201557	-0.30206	0.244239	-0.24798	0.910403	0.020666	0.94705	0.04829
LOC442028	-0.12532	-0.21192	-0.03046	-0.23502	0.35295	0.116891	0.822037	0.078438	-0.15785	-0.24478	0.122333	-0.17112	0.14739	0.050552	0.788306	0.127759
SULT1C3	0.097315	-0.12016	0.225286	-0.37998	0.471434	0.377728	0.092002	0.003552	0.187427	-0.5207	0.139162	-0.38917	0.893855	0.000104	0.819038	0.003758
LOC442075	-0.18763	0.110864	-0.09457	-0.17036	0.162221	0.41597	0.484102	0.205156	-0.26716	0.05271	-0.10563	-0.09002	0.036337	0.636043	0.244906	0.275938
GALNTL6	-0.05147	-0.14957	0.215905	-0.13835	0.70378	0.271218	0.10674	0.304741	-0.12002	-0.30979	0.13329	-0.18996	0.213452	0.018081	0.808636	0.103031
LOC442132	-0.20272	-0.09876	-0.09571	-0.20793	0.13403	0.473161	0.482873	0.124111	0.025039	-0.35003	0.221075	-0.28671	0.565597	0.008547	0.927774	0.026692
OR2B3	0.084965	-0.06172	0.177915	-0.31926	0.529742	0.651355	0.185484	0.015491	0.058092	-0.26916	0.152436	-0.2524	0.649318	0.035236	0.841261	0.045298
OR2J3	-0.06648	0.014593	0.137517	0.098385	0.626381	0.915785	0.312169	0.470669	0.175367	-0.14262	0.177569	-0.10262	0.87539	0.174998	0.875575	0.251167
OR14J1	0.150554	0.021693	0.157403	-0.40148	0.263625	0.87391	0.242264	0.001966	0.07923	-0.44536	0.107506	-0.40812	0.699653	0.000963	0.758947	0.002435
OR10C1	-0.07899	-0.04713	0.224094	-0.13319	0.559188	0.730161	0.093782	0.323286	-0.03743	-0.22462	-0.05957	-0.30853	0.402474	0.066708	0.348744	0.018484
C6orf138	0.123775	-0.13116	0.215879	-0.07874	0.358978	0.335273	0.106784	0.560424	0.321181	-0.43524	0.40712	-0.21967	0.985238	0.001252	0.997245	0.071211
MCART3P	-0.17386	-0.01503	0.055047	-0.11804	0.19587	0.912463	0.68423	0.381828	-0.16628	-0.37935	0.019646	-0.4146	0.134699	0.00466	0.550962	0.002087
LOC442245	0.027435	-0.06208	0.185558	-0.22215	0.839465	0.649446	0.166994	0.096747	0.06296	-0.2429	-0.00362	-0.14278	0.659418	0.053946	0.490699	0.174726
RFPL4B	0.134706	-0.22382	0.170482	-0.20581	0.317777	0.09727	0.204832	0.124569	0.056054	-0.37687	0.096913	-0.37787	0.644311	0.004916	0.736735	0.004812
LOC442245	-0.05232	0.161655	-0.03347	-0.1299	0.699107	0.233937	0.8048	0.335487	-0.10902	0.408431	-0.04778	0.181294	0.23538	0.997583	0.377647	0.886048

OR2A2	0.133193	-0.10607	0.317036	-0.30336	0.323292	0.436522	0.016266	0.021794	-0.03639	-0.40577	0.131296	-0.32218	0.405136	0.002572	0.805024	0.014496
LOC442381	0.060019	0.16947	0.15148	-0.32948	0.660367	0.216116	0.265085	0.01315	0.09064	0.007096	-0.10031	0.032139	0.723122	0.51845	0.258537	0.583004
FOXB2	0.022143	-0.18631	0.238807	-0.21033	0.870132	0.169173	0.073616	0.116325	0.104815	-0.48817	0.247668	-0.43231	0.75592	0.000289	0.949531	0.001348
FAM47C	0.127101	-0.19186	0.301754	-0.18033	0.350574	0.160545	0.023812	0.183521	0.168028	-0.34455	0.154033	-0.33636	0.867835	0.009517	0.843813	0.01114
RP11-278E	0.048742	0.007772	-0.11257	-0.25243	0.721287	0.955088	0.408798	0.060532	0.239356	-0.12738	0.194013	-0.23075	0.945434	0.199454	0.899204	0.061429
LOC442461	0.072322	-0.19716	0.410247	-0.10345	0.59291	0.145272	0.001527	0.443792	0.125697	-0.45341	0.232211	-0.21296	0.797399	0.000777	0.937602	0.077663
DPY19L2P4	-0.12378	-0.09868	0.104101	-0.15614	0.358969	0.469349	0.440925	0.246127	-0.15898	-0.52335	0.061538	-0.41931	0.148447	0.000113	0.654251	0.002071
LOC442572	-0.1519	0.091639	0.03784	-0.09423	0.259335	0.501769	0.779893	0.485667	-0.06739	-0.26543	0.051998	-0.28846	0.328163	0.037307	0.63278	0.025938
SPDYE5	-0.084	0.102232	-0.02078	-0.12524	0.534467	0.453409	0.878072	0.353293	0.195036	-0.21025	0.049748	-0.14087	0.903013	0.080387	0.627231	0.175203
LOC442668	0.17462	-0.14957	0.270398	-0.1505	0.193892	0.271217	0.041922	0.263803	0.18451	-0.32981	-0.00379	-0.32982	0.890191	0.012598	0.490139	0.012597
LMOD2	0.040571	-0.25288	0.221996	-0.19473	0.764449	0.060053	0.096979	0.146618	0.083819	-0.31966	0.130469	-0.29558	0.71015	0.015174	0.803515	0.023058
ASPA	0.135079	-0.01997	-0.04301	0.362006	0.320907	0.884944	0.752982	0.006115	0.009461	-0.10723	0.162242	0.198125	0.524879	0.239064	0.856517	0.906565
MYO1B	-0.0727	0.143688	-0.12933	-0.02063	0.59441	0.290739	0.342107	0.88004	-0.3335	0.301884	-0.01755	0.31645	0.011759	0.979274	0.454441	0.983927
CITED1	0.076635	-0.14816	0.261878	-0.17424	0.570988	0.275836	0.049088	0.194888	0.114036	-0.37742	0.259616	-0.16745	0.774758	0.004858	0.957485	0.133007
MSH2	0.023498	0.207151	-0.27531	0.03352	0.86226	0.125551	0.038197	0.804496	-0.15711	0.516761	-0.21193	0.318487	0.148536	0.999882	0.081112	0.984503
MSH3	0.011189	0.15174	-0.20058	0.059929	0.934162	0.264256	0.134647	0.657891	-0.15732	0.479574	-0.21612	0.336231	0.1482	0.999627	0.076953	0.988833
MSH4	-0.1358	-0.13387	0.113501	-0.14966	0.318322	0.329855	0.404901	0.270926	0.169431	-0.42962	0.19963	-0.4246	0.869848	0.001443	0.905703	0.001635
MSH5	-0.15984	0.007364	-0.01383	-0.32611	0.234968	0.957045	0.918678	0.013302	-0.26452	-0.02979	-0.12974	-0.24007	0.03783	0.422107	0.197827	0.054026
ASPH	0.152005	0.291276	-0.10507	0.209234	0.258998	0.029405	0.436659	0.118281	0.158315	0.476125	-0.13521	0.345664	0.853334	0.999588	0.187923	0.990687
MSI1	0.089643	-0.22143	0.341744	-0.14249	0.507245	0.100988	0.009274	0.290365	-0.02176	-0.41849	0.207693	-0.3625	0.443596	0.002112	0.911944	0.0072
IGFL4	-0.07515	0.050276	-0.09418	-0.25622	0.578488	0.71289	0.485879	0.054374	0.210014	-0.28989	0.007045	-0.30118	0.919373	0.025338	0.518318	0.020975
ASS1	-0.07319	0.366268	-0.09458	0.183037	0.591906	0.005956	0.48807	0.176929	-0.0168	0.59985	-0.31696	0.392563	0.455884	0.999995	0.016941	0.996517
FLJ43692	-0.056	0.191287	-0.22526	0.035335	0.68187	0.161815	0.095072	0.795991	-0.15548	0.626322	-0.27002	0.396843	0.151079	0.999998	0.03642	0.996839
TNAP	0.210269	0.033464	0.288449	0.104272	0.116431	0.806579	0.029557	0.440172	0.159534	-0.18171	0.136379	-0.04902	0.855208	0.113405	0.81415	0.373149
PALM2-AK	0.122522	-0.09829	-0.00871	-0.09331	0.363902	0.471121	0.948704	0.489964	-0.09084	-0.14155	0.185402	0.0035	0.274113	0.174023	0.888639	0.509209
MSMB	0.042493	0.343014	-0.00565	-0.02619	0.758051	0.011111	0.967352	0.849476	-0.04648	-0.17194	-0.07741	-0.28098	0.382238	0.132213	0.310868	0.032334
MSN	0.215519	-0.2529	0.066003	0.558178	0.107384	0.060031	0.625687	6.44E-06	0.337773	-0.1431	0.294627	0.146973	0.989156	0.171373	0.975273	0.835144
MSR1	-0.11108	-0.31878	0.074716	0.36263	0.410729	0.01664	0.580695	0.005568	-0.20297	-0.22881	0.187293	-0.00763	0.090581	0.065283	0.888275	0.480167
MSRA	-0.02367	-0.08045	0.072938	0.103848	0.862529	0.559307	0.593191	0.446263	-0.32579	0.226572	-0.2438	0.333337	0.013571	0.935007	0.053273	0.988206
MST1	-0.06561	0.13381	-0.00581	-0.06054	0.627728	0.325514	0.965785	0.654616	-0.06012	-0.20771	-0.11288	-0.20227	0.345726	0.083	0.23018	0.088811
MST1R	-0.16769	0.246393	-0.14688	-0.04287	0.212459	0.067162	0.275588	0.751526	-0.15171	0.544253	-0.20308	0.330652	0.157089	0.999954	0.090452	0.987597
MSX1	0.125118	-0.15298	0.277551	-0.15052	0.353748	0.260325	0.036591	0.263719	0.123058	-0.38928	0.052319	-0.302	0.792394	0.003748	0.63357	0.020685
MSX2	0.13139	-0.29754	0.278554	-0.23252	0.334421	0.027371	0.037632	0.084621	0.058569	-0.28122	0.231764	-0.17821	0.650486	0.029164	0.937228	0.118022
KPRP	-0.18737	-0.12945	-0.01825	-0.28585	0.166728	0.341667	0.893825	0.032707	0.032578	-0.44901	0.251707	-0.4198	0.585089	0.000874	0.952338	0.00184
MT1A	0.046842	-0.14782	0.198337	0.278487	0.734158	0.286101	0.146616	0.039514	0.338976	-0.14698	-0.04275	-0.13038	0.989402	0.164837	0.390182	0.193891
MT1B	0.083635	-0.07303	0.084689	-0.00948	0.53623	0.592699	0.531087	0.944222	0.251497	0.103667	-0.15337	-0.0507	0.952196	0.751012	0.16013	0.370413
MT1E	0.067528	-0.14128	-0.08509	0.059048	0.620954	0.303532	0.532931	0.665532	0.274127	0.037904	-0.17278	-0.12896	0.967375	0.598743	0.128189	0.196518
MT1F	0.09553	-0.42035	0.26031	0.031414	0.483702	0.001397	0.052673	0.818222	0.255886	-0.51305	0.130104	-0.29889	0.95696	0.000133	0.802847	0.021806
MT1G	0.085682	-0.27366	0.200501	-0.04168	0.530085	0.043212	0.13843	0.760364	0.246434	-0.59611	0.114645	-0.56381	0.948648	7.78E-06	0.770661	2.75E-05
GGNBP1	0.055947	-0.01776	0.117187	-0.32503	0.679347	0.896642	0.38532	0.013628	0.133971	-0.33995	0.192274	-0.35839	0.812632	0.010403	0.89713	0.007229
MT1H	-0.03613	-0.29557	0.158217	-0.18836	0.789629	0.026991	0.239807	0.160571	0.060233	-0.33993	-0.06469	-0.3528	0.652856	0.011167	0.338269	0.008725
MT1M	0.012755	-0.12792	0.198995	0.329928	0.925665	0.351998	0.14148	0.01302	0.414653	-0.17955	0.047336	-0.246	0.997916	0.116244	0.621255	0.049676
MT1L	0.123081	-0.19082	-0.01262	0.101403	0.361701	0.158912	0.925741	0.452924	0.451047	-0.19437	-0.02153	-0.2519	0.999172	0.097762	0.444177	0.045629
MT1X	0.23357	-0.10209	-0.02314	0.08981	0.080356	0.454042	0.864338	0.506453	0.456896	-0.17212	0.065129	-0.29751	0.999293	0.126345	0.664603	0.022321
MT2A	0.031778	-0.12959	0.01599	0.231585	0.81447	0.341146	0.906027	0.083035	0.344972	-0.08342	-0.00145	-0.04074	0.99056	0.290755	0.496239	0.394041
MT3	0.008166	-0.14891	0.245514	-0.32402	0.951928	0.273361	0.065649	0.013939	0.147769	-0.48768	0.160468	-0.38832	0.836465	0.000293	0.85383	0.003829
MTAP	0.027136	0.300711	-0.18652	0.253514	0.84119	0.024325	0.164776	0.057067	0.110788	0.570512	-0.07609	0.327929	0.768215	0.999983	0.309669	0.986954
MTCP1	-0.11243	0.195566	-0.17156	-0.09502	0.405035	0.148608	0.20193	0.481983	-0.06117	0.062976	-0.14571	-0.14673	0.343155	0.661216	0.16977	0.165256
MTF1	-0.14569	0.26973	-0.27344	-0.1504	0.279558	0.044391	0.039578	0.264107	-0.26729	0.260911	-0.117	0.125791	0.036263	0.960058	0.222016	0.797576
NUDT1	0.113153	-0.22595	0.236559	-0.14031	0.402001	0.094046	0.076452	0.297855	-0.01787	-0.29326	0.095665	-0.1711	0.45308	0.023967	0.734054	0.127778

MTHFD1	0.02924	0.217589	-0.16566	0.131008	0.83061	0.110532	0.222389	0.335838	-0.11569	0.625321	-0.23711	0.414426	0.221956	0.999998	0.058411	0.997904
MTHFR	-0.13854	0.197538	-0.02519	0.21327	0.304064	0.144477	0.852453	0.111189	-0.06079	0.545848	-0.11413	0.385653	0.344092	0.999956	0.22768	0.995938
MTIF2	-0.14249	0.325862	-0.3139	0.049617	0.290365	0.014253	0.017416	0.713971	-0.20185	0.445568	-0.1966	0.303969	0.089274	0.999043	0.09777	0.980001
MTM1	-0.03278	0.133641	-0.16825	0.024445	0.808733	0.326132	0.210925	0.856764	-0.13164	0.130188	0.023415	0.149738	0.19159	0.805754	0.560672	0.839702
MYO1F	-0.10707	-0.49529	0.100998	0.348048	0.427938	0.000104	0.454737	0.007978	-0.22794	-0.36674	0.016843	-0.22759	0.06381	0.006089	0.543723	0.064114
MTNR1A	-0.20172	-0.16066	0.007827	0.164008	0.135994	0.241309	0.954344	0.22711	-0.21953	0.181755	-0.08772	-0.04261	0.071336	0.886649	0.28332	0.389299
MTNR1B	0.09981	-0.02543	0.192655	-0.26825	0.460089	0.852386	0.151065	0.04364	0.151316	-0.18945	0.279395	-0.17284	0.842269	0.103651	0.968466	0.125348
MTPP	0.040545	-0.16188	0.089168	-0.43833	0.766703	0.237691	0.513417	0.000728	-0.1545	-0.4063	0.028831	-0.17579	0.152626	0.002541	0.574563	0.121283
MTR	0.103854	0.045506	-0.07876	0.228458	0.442017	0.739112	0.560328	0.087396	0.382665	-0.1015	0.25862	-0.07849	0.995663	0.25105	0.956862	0.302064
MTRR	-0.07742	0.367598	-0.13179	0.210668	0.567035	0.005318	0.328462	0.115724	-0.00861	0.432659	-0.06395	0.263365	0.477369	0.998664	0.338216	0.961506
MTX1	-0.01677	-0.1166	-0.04311	-0.19277	0.901441	0.39212	0.750181	0.150815	-0.28823	-0.00456	-0.27828	-0.08132	0.026038	0.487996	0.032087	0.295544
MUC1	-0.25556	0.131445	0.012549	0.030947	0.055029	0.334215	0.926184	0.819241	-0.22522	0.332738	-0.19097	0.253696	0.066181	0.988072	0.10445	0.955552
MUC2	-0.05668	0.133564	-0.04168	-0.16053	0.675365	0.326412	0.758183	0.23291	-0.13653	0.019351	0.027712	0.087144	0.182789	0.550785	0.5717	0.717648
MUC3A	-0.07136	-0.09525	0.228576	-0.14909	0.597877	0.485001	0.087229	0.268365	0.147787	-0.35381	0.284362	-0.20369	0.836494	0.007928	0.970832	0.087267
MUC4	-0.28935	0.201589	-0.04325	-0.05608	0.030545	0.136257	0.751624	0.681448	-0.42646	0.509768	-0.24882	0.376136	0.001562	0.999852	0.049654	0.995006
MUC6	0.106299	-0.04947	0.254394	-0.1528	0.431284	0.71731	0.056181	0.256488	0.168202	-0.18792	0.065309	-0.18636	0.868086	0.105529	0.665031	0.107469
MUC7	-0.04185	-0.20559	0.075562	-0.10126	0.759391	0.13211	0.579927	0.457739	0.107796	-0.03156	0.160675	-0.08615	0.759541	0.418461	0.851272	0.28682
TRIM37	-0.03076	0.109566	-0.18705	-0.07724	0.820296	0.421486	0.163549	0.567922	-0.28406	0.180166	-0.13652	0.151527	0.02786	0.884571	0.185606	0.84261
MUSK	0.07529	0.053137	0.125374	-0.03596	0.577782	0.697316	0.352757	0.790602	0.288079	-0.3099	0.158151	-0.37815	0.973899	0.018044	0.850272	0.004783
MUT	0.169879	0.196068	-0.2277	0.021297	0.206463	0.147549	0.088483	0.875053	-0.00139	0.330705	-0.19668	0.153385	0.496333	0.987609	0.097675	0.845594
MUTYH	-0.00509	-0.02656	0.25498	-0.01319	0.970302	0.847344	0.057889	0.923148	-0.12165	-0.10275	-0.05304	-0.12821	0.21301	0.250903	0.366203	0.200635
MVD	-0.09348	-0.09578	0.100919	-0.06008	0.489148	0.482533	0.455092	0.65708	-0.11045	-0.17823	-0.09185	-0.25083	0.232476	0.117992	0.274221	0.046344
MVK	-0.1343	0.379328	-0.24203	-0.29999	0.319248	0.003936	0.069696	0.02338	-0.30079	0.526981	-0.08601	0.138924	0.021116	0.999916	0.287143	0.821416
MX1	-0.17621	-0.0778	-0.13416	0.336927	0.193904	0.572332	0.324251	0.011111	-0.35138	0.298588	0.046178	0.323196	0.009672	0.97551	0.615637	0.98382
ASTN1	0.243279	-0.2289	0.326478	-0.22203	0.068224	0.089714	0.013191	0.096923	0.320484	-0.54272	0.242547	-0.42746	0.985051	4.88E-05	0.945791	0.001523
MX2	-0.23421	-0.1709	-0.02411	0.476272	0.082315	0.21222	0.859999	0.000207	-0.44242	0.017683	-0.08383	0.127084	0.001319	0.545353	0.296514	0.794476
MXI1	0.007776	-0.3011	0.178276	-0.2575	0.95422	0.024133	0.184576	0.053143	0.250632	-0.59284	0.279882	-0.40627	0.949596	1.12E-05	0.965449	0.003105
MYB	-0.20864	0.007051	-0.1113	-0.28134	0.119349	0.958867	0.409793	0.034005	-0.31039	-0.06687	-0.031	-0.09142	0.01789	0.329399	0.41991	0.27284
MYBL1	0.346256	-0.20236	0.104852	0.155857	0.008946	0.138435	0.441856	0.251361	0.316055	-0.45638	0.326949	-0.29497	0.983814	0.000717	0.985816	0.023292
MYBPC1	0.090823	-0.25479	0.235912	-0.17635	0.501647	0.05808	0.077284	0.189445	0.093788	-0.47293	0.165603	-0.4293	0.729996	0.000518	0.858657	0.001627
MYBL2	-0.01431	0.155086	-0.02286	-0.08804	0.915838	0.253745	0.865942	0.514889	-0.01054	0.318941	-0.00578	0.187677	0.472295	0.984629	0.484979	0.894166
MYBPC2	-0.00856	-0.09772	0.19115	-0.11259	0.949588	0.47368	0.154346	0.404367	0.002811	-0.22307	-0.03277	-0.20063	0.507397	0.068094	0.415388	0.090623
MYBPC3	0.035457	-0.07807	0.300361	-0.1839	0.793439	0.567371	0.023199	0.170877	0.182927	-0.50466	0.322866	-0.52817	0.888165	0.000174	0.984737	8.08E-05
MYBPH	-0.01312	-0.29445	0.338759	-0.24607	0.923572	0.029096	0.010654	0.067534	0.060179	-0.49551	0.218731	-0.35599	0.65442	0.000231	0.925567	0.007588
MYC	0.089348	0.215956	-0.23406	0.143518	0.508649	0.109923	0.079701	0.286851	0.122598	0.499611	-0.17714	0.294084	0.791515	0.999796	0.1222	0.97636
MYCL1	-0.19618	-0.03702	-0.07901	-0.41918	0.143596	0.786509	0.559061	0.001172	-0.21199	-0.16628	0.002206	-0.16718	0.078634	0.134701	0.505738	0.13339
MYCN	-0.1129	-0.12874	0.136733	0.093379	0.407411	0.344333	0.314962	0.493644	0.248751	-0.38836	0.203683	-0.29285	0.952243	0.003826	0.910204	0.024129
MYD88	-0.23068	0.222986	-0.28193	0.259823	0.084274	0.098553	0.033612	0.050959	-0.12697	0.378235	-0.19861	0.269698	0.200216	0.995226	0.095454	0.965053
GADD45B	0.05672	-0.4163	0.247747	-0.0914	0.67516	0.001416	0.063156	0.498917	0.251427	-0.43906	0.253399	-0.43119	0.952148	0.001275	0.951511	0.001552
MYF5	0.084779	-0.1549	0.196027	-0.22135	0.530647	0.254336	0.143904	0.097987	-0.0181	-0.38707	0.261924	-0.42809	0.452471	0.003937	0.958902	0.0015
MYF6	-0.07687	-0.16008	0.165791	-0.24922	0.569798	0.238576	0.217758	0.061548	-0.03086	-0.40666	0.190352	-0.30282	0.419336	0.00252	0.894802	0.020399
MYH1	0.055376	-0.28812	0.016928	-0.2562	0.685215	0.032912	0.901448	0.056663	0.044632	-0.40888	0.273413	-0.44432	0.61452	0.002646	0.963737	0.001115
SERPINC1	0.084295	0.102112	0.31476	-0.12079	0.533005	0.453942	0.017093	0.370771	0.198926	-0.37776	-0.03686	-0.36731	0.904905	0.005259	0.406121	0.00653
MYH2	-0.08177	-0.12486	0.177858	-0.22723	0.545385	0.359212	0.185627	0.089156	0.073326	-0.1918	0.078988	-0.30928	0.683921	0.103446	0.694856	0.019351
MYH3	-0.03151	-0.03306	0.121216	-0.05226	0.815996	0.808849	0.369078	0.699423	0.141812	-0.3287	0.181801	-0.25359	0.82642	0.01286	0.884002	0.044516
MYH4	0.011491	0.016615	0.133449	-0.05871	0.932395	0.903263	0.322353	0.664414	0.030403	-0.23003	0.100452	-0.30964	0.579485	0.062036	0.744267	0.018128
MYH6	-0.02249	-0.31529	0.126792	-0.21874	0.868123	0.017937	0.347296	0.102102	0.042845	-0.35565	0.153704	-0.32309	0.611305	0.007641	0.843289	0.014259
MYH7	0.010185	-0.23214	0.170003	-0.26881	0.940059	0.085147	0.206127	0.043188	-0.09353	-0.35241	0.104003	-0.27045	0.268203	0.008153	0.751713	0.034547
MYH8	-0.07367	-0.21436	0.118862	-0.26216	0.586005	0.112634	0.378514	0.048833	0.158735	-0.37847	0.12014	-0.41072	0.853982	0.00475	0.784095	0.00229
MYH9	0.218335	-0.01353	-0.00807	0.394604	0.102759	0.921144	0.95248	0.002386	0.117097	0.377738	0.00154	0.280829	0.780833	0.995175	0.504006	0.970654

MYH10	0.303554	-0.10408	0.119082	0.179756	0.022947	0.449525	0.382037	0.184954	0.238021	-0.33333	0.251121	-0.16283	0.944409	0.011796	0.951939	0.139799
MYH11	0.414149	-0.20167	0.343249	0.046366	0.001508	0.139809	0.0096	0.73436	0.42158	-0.34016	0.355058	-0.15343	0.998038	0.011118	0.990985	0.157141
ZFH3	0.157375	-0.02503	0.229375	-0.38229	0.246716	0.856052	0.089032	0.003642	0.119172	-0.40334	0.377792	-0.28869	0.784896	0.002723	0.994745	0.025842
MYL1	0.165706	-0.11398	0.073967	-0.34186	0.217997	0.402922	0.584505	0.009248	0.042677	-0.52224	0.196609	-0.42695	0.610881	9.85E-05	0.902247	0.001543
MYL2	0.02026	-0.24271	0.189348	-0.1793	0.881091	0.071486	0.158341	0.182031	0.067599	-0.46743	0.168479	-0.38884	0.672335	0.000528	0.865705	0.003785
MYL3	0.033517	-0.28455	0.149512	-0.16291	0.806281	0.035244	0.271418	0.230273	0.294466	-0.39484	0.225554	-0.34037	0.97651	0.003308	0.931856	0.010319
MYL4	-0.12821	-0.26974	0.209007	-0.29347	0.341882	0.044387	0.118689	0.02672	-0.06957	-0.35351	0.079422	-0.22815	0.324881	0.008606	0.695839	0.065862
MYL5	-0.00385	-0.05739	0.095959	-0.1967	0.977301	0.674412	0.477665	0.142497	-0.08923	-0.0647	0.139228	0.022431	0.277696	0.334632	0.819153	0.558815
MYL6	0.30878	-0.16895	0.124875	0.038076	0.019438	0.213206	0.354691	0.778554	0.071037	-0.08164	0.039409	0.001826	0.680512	0.29482	0.601421	0.504805
MYLK	0.396997	-0.23095	0.343	0.07923	0.00245	0.089807	0.009656	0.561617	0.328549	-0.43538	0.32966	-0.2053	0.987103	0.001247	0.986497	0.085541
MYO1A	-0.10157	-0.18031	0.1362	-0.24378	0.452187	0.183588	0.312387	0.067645	-0.02235	-0.24377	0.220727	-0.14544	0.441392	0.051282	0.927449	0.167416
MYO1C	0.286549	-0.08592	0.170166	0.242147	0.030695	0.52896	0.205686	0.069558	0.249516	0.248386	0.003162	0.251451	0.952766	0.951991	0.508223	0.954072
MYO1D	-0.06608	0.274429	-0.24545	-0.04308	0.6253	0.040678	0.065722	0.750367	-0.15032	0.515683	-0.10407	0.286561	0.159354	0.999878	0.248159	0.973244
MYO1E	-0.12001	0.245188	-0.24927	-0.338	0.373905	0.068554	0.0615	0.010126	-0.27675	0.197209	-0.09421	0.029573	0.031306	0.905522	0.269094	0.577341
MYO5A	0.221083	0.029618	-0.09946	0.449537	0.098395	0.828451	0.46167	0.000451	0.250355	0.30936	-0.0488	0.331932	0.953336	0.981784	0.375112	0.98789
MYO5B	-0.28016	0.241349	-0.29946	-0.23971	0.036501	0.075877	0.024954	0.075176	-0.33851	0.491397	-0.29899	0.179248	0.010692	0.999738	0.023014	0.883359
MYO6	-0.10241	0.341046	-0.21047	-0.01339	0.448408	0.010105	0.116065	0.921227	-0.15436	0.413309	-0.17123	0.275867	0.152863	0.997848	0.130363	0.968253
MYO7A	-0.00214	-0.11924	0.286647	0.117235	0.987391	0.381398	0.030635	0.385124	0.12318	-0.27084	0.198164	-0.18296	0.78992	0.035966	0.901382	0.114494
MYO7B	-0.05946	-0.12436	0.252526	-0.25565	0.660417	0.361134	0.058074	0.05494	-0.05453	-0.29949	0.143482	-0.21969	0.359457	0.021588	0.826467	0.071189
MYO9A	0.244871	-0.04339	-0.04097	0.111148	0.066381	0.750826	0.762219	0.410442	0.355446	-0.06772	0.125904	-0.02358	0.992328	0.327383	0.795062	0.438194
MYO9B	-0.02026	-0.1028	0.038074	0.208926	0.881117	0.450903	0.77857	0.118836	0.101263	-0.08903	0.05895	-0.00862	0.74845	0.278139	0.649754	0.477318
MYO10	-0.01773	0.388931	-0.06009	-0.11713	0.896791	0.003339	0.66001	0.389926	-0.16914	0.556324	-0.3081	0.264356	0.133349	0.999964	0.020944	0.960355
MYOC	0.271716	-0.29287	0.183707	0.002023	0.042789	0.030011	0.175324	0.988194	0.387883	-0.37677	0.352115	-0.313	0.996134	0.004927	0.991157	0.017088
MYOD1	-0.10136	-0.11812	0.22291	-0.20806	0.453115	0.385925	0.095576	0.120406	0.074623	-0.52564	0.094981	-0.49845	0.686934	0.000104	0.730156	0.000246
MYOG	-0.08051	-0.00299	0.219175	-0.3168	0.55163	0.982563	0.10141	0.016351	0.231063	-0.22656	0.22124	-0.31372	0.938827	0.065	0.927927	0.016872
PPP1R12A	0.229971	0.010506	-0.02064	0.109723	0.085264	0.938745	0.87886	0.416509	0.302705	-0.15645	0.109417	-0.06566	0.979563	0.149564	0.762847	0.332307
ATF1	-0.05721	0.179513	-0.27807	0.142313	0.672519	0.185556	0.036229	0.290957	-0.03424	0.415758	-0.01961	0.269611	0.410647	0.997971	0.449124	0.965006
PPP1R12B	0.312535	-0.1968	0.377977	0.090158	0.01902	0.149845	0.004077	0.508732	0.256897	-0.33714	0.183014	-0.18257	0.957598	0.010976	0.885578	0.112299
MYT1	0.02219	-0.06583	0.203549	-0.24831	0.86986	0.629779	0.128847	0.062535	-0.18319	-0.11893	0.00902	-0.08516	0.114189	0.21825	0.523171	0.289033
NAB1	-0.00075	0.177161	-0.32215	-0.07821	0.995587	0.191481	0.014531	0.563053	-0.00061	0.434604	-0.13527	0.214613	0.498385	0.998728	0.18782	0.923966
NAB2	0.108919	-0.12826	0.103553	-0.10789	0.41995	0.34617	0.443348	0.424372	0.171744	-0.18765	0.033886	-0.20178	0.873122	0.105863	0.587446	0.089352
NACA	0.046893	0.33065	-0.33687	0.18789	0.729055	0.01281	0.010397	0.16163	-0.02454	0.569645	-0.33586	0.413661	0.435707	0.999982	0.01205	0.997866
NAGA	-0.165	0.317957	-0.20411	-0.04652	0.220005	0.016938	0.127782	0.731115	-0.23425	0.295106	-0.09224	0.245993	0.060714	0.975466	0.275758	0.94833
NAGLU	0.016542	0.013059	0.268539	-0.08776	0.90369	0.924613	0.045375	0.520134	0.082742	-0.13691	-0.1342	-0.12125	0.707701	0.182128	0.189738	0.211069
ATF3	0.029349	-0.13109	-0.06493	-0.2123	0.829985	0.340098	0.634487	0.116227	-0.13929	0.246126	-0.05425	0.139176	0.180731	0.948426	0.363264	0.819062
HNRNPM	0.033599	0.269547	-0.27338	0.118848	0.804046	0.044541	0.039629	0.378572	-0.10039	0.507146	-0.05136	0.392776	0.253406	0.999839	0.368792	0.996534
NAIP	-0.03659	-0.14626	0.105591	0.28358	0.786984	0.28209	0.434379	0.032546	-0.03148	-0.49093	0.134711	-0.18045	0.417738	0.000266	0.811185	0.11506
NAP1L1	0.022082	0.141721	-0.2092	0.097291	0.870484	0.297462	0.118351	0.471546	0.090548	0.105094	-0.09666	0.191151	0.725232	0.756501	0.263808	0.898409
NAP1L2	0.28116	-0.03906	-0.02783	0.077761	0.034122	0.77501	0.837188	0.565325	0.300076	-0.11601	0.207622	-0.00801	0.978626	0.221321	0.914429	0.47893
NAP1L3	0.28101	-0.15809	0.175232	0.115137	0.034222	0.244563	0.192309	0.393742	0.379521	-0.46046	0.297208	-0.24092	0.995357	0.000641	0.976298	0.053384
NAP1L4	-0.25617	0.324347	-0.42715	-0.04557	0.054424	0.014737	0.00092	0.736426	-0.29915	0.494511	-0.40649	0.21649	0.021714	0.999761	0.002795	0.925785
NARS	-0.00636	0.263737	-0.28979	0.09582	0.962559	0.049525	0.028773	0.478306	-0.20472	0.446299	-0.18952	0.301339	0.086158	0.999061	0.106214	0.97908
NASP	0.166868	-0.01726	-0.15436	0.097414	0.214741	0.899529	0.251619	0.470981	-0.06347	0.488464	-0.1315	0.347512	0.337588	0.999713	0.194613	0.991018
ATF4	0.073091	-0.05716	0.172983	0.141123	0.588973	0.675644	0.198169	0.295052	0.134341	-0.13769	0.033212	-0.16729	0.813298	0.180745	0.585733	0.133236
CEACAM6	-0.20408	0.262248	-0.13325	-0.06141	0.127828	0.050874	0.323095	0.649976	-0.2734	0.480757	-0.23435	0.295594	0.032997	0.99964	0.060633	0.976949
NBL1	0.177261	-0.08714	0.162812	0.095223	0.187131	0.523098	0.226253	0.481064	0.1033	0.197918	0.105829	0.197677	0.752748	0.90633	0.755498	0.906056
NUBP1	-0.13382	0.189841	-0.29098	0.186864	0.321015	0.161101	0.028095	0.163974	-0.28632	0.521837	-0.15315	0.335554	0.026862	0.9999	0.157588	0.988689
NBN	0.035558	0.180198	-0.21939	0.199409	0.792867	0.183857	0.101061	0.136981	0.07028	0.402919	-0.05462	0.359317	0.678719	0.997251	0.360797	0.992906
NCAM1	0.233891	-0.09105	0.12075	0.146626	0.07993	0.504523	0.370934	0.276432	0.321265	-0.39447	0.247302	-0.39638	0.985261	0.003336	0.94927	0.003195
NCAM2	0.126733	-0.18749	0.043175	0.352151	0.347522	0.166453	0.749809	0.007222	0.215146	-0.2934	0.147579	-0.10075	0.924486	0.023908	0.833339	0.252644

NCBP1	-0.02916	0.253696	-0.30602	0.205604	0.829517	0.059206	0.02061	0.124948	0.038872	0.474923	-0.15767	0.346162	0.601213	0.999574	0.150477	0.990777
NCF2	-0.21656	-0.17462	-0.20708	-0.03118	0.108905	0.202264	0.125681	0.819537	-0.42698	-0.28599	-0.11992	-0.24717	0.001722	0.028425	0.219053	0.050822
NCF4	-0.11099	-0.36242	0.127479	0.468038	0.411105	0.006052	0.344664	0.000241	-0.38107	-0.03559	-0.07919	0.071452	0.004902	0.408226	0.304679	0.679545
NCK1	-0.00379	0.257512	-0.21338	0.363166	0.977662	0.055361	0.111009	0.005493	0.009775	0.459671	-0.14326	0.470161	0.525705	0.999345	0.173907	0.999511
NCL	0.140992	0.258738	-0.23884	0.185468	0.295505	0.05417	0.073575	0.167202	-0.02581	0.549498	-0.12594	0.474341	0.432395	0.999962	0.204863	0.999566
NDN	0.198332	-0.23486	0.243397	0.105545	0.139157	0.081441	0.068085	0.43458	0.306835	-0.27626	0.084338	-0.10511	0.980965	0.031551	0.709122	0.243458
NDP	0.223675	-0.20452	0.165386	-0.24795	0.09749	0.134193	0.223173	0.065402	0.161339	-0.3869	0.221106	-0.22498	0.857956	0.003952	0.927803	0.066391
NDUFA1	0.083109	0.033939	0.072044	-0.17315	0.542553	0.805691	0.597737	0.201895	-0.36615	0.3137	-0.46343	0.199262	0.006164	0.983122	0.000673	0.907849
NDUFA2	-0.05628	0.095485	-0.21926	0.031505	0.677526	0.483907	0.10127	0.816036	-0.28997	0.382439	-0.28216	0.254935	0.025305	0.995642	0.030199	0.956353
NDUFA3	0.007578	-0.15019	0.189219	-0.29181	0.955798	0.273733	0.162502	0.029094	-0.25895	-0.28013	0.091342	-0.22756	0.042929	0.031175	0.7223	0.06637
NDUFA4	-0.12477	0.179065	-0.34234	0.127555	0.355115	0.186675	0.009145	0.344378	-0.18764	0.325534	-0.41638	0.280462	0.105883	0.986365	0.00222	0.970482
NDUFA5	-0.14192	0.149886	-0.20839	0.060585	0.292322	0.270207	0.119798	0.65438	-0.01626	0.193099	-0.23856	0.162527	0.457287	0.900736	0.057266	0.859744
ACLY	-0.00712	0.064425	-0.02544	0.099112	0.958105	0.637119	0.850983	0.463245	-0.09216	0.29354	-0.17128	0.250655	0.271208	0.976145	0.130301	0.953539
NDUFA6	-0.02331	0.332485	-0.35278	0.167184	0.864589	0.013133	0.007659	0.218112	-0.24211	0.586202	-0.39037	0.382288	0.052498	0.999991	0.004011	0.995627
NDUFA7	-0.23096	-0.05488	-0.0884	-0.11581	0.083892	0.687874	0.513162	0.39098	-0.45048	0.283646	-0.39312	0.166508	0.00084	0.971951	0.003777	0.865632
NDUFA8	-0.0246	0.251228	-0.34974	-0.08427	0.855848	0.061805	0.007658	0.533104	-0.29213	0.503513	-0.37982	0.296261	0.024421	0.999819	0.005034	0.977205
NEB	-0.06941	0.015965	0.050993	-0.27045	0.611212	0.907902	0.708975	0.043803	-0.10717	-0.27777	0.089857	-0.12446	0.239195	0.03081	0.721401	0.204945
NDUFA9	-0.18075	0.191052	-0.32923	0.38935	0.182507	0.16234	0.013224	0.003018	-0.1594	0.671595	-0.3717	0.451981	0.144999	1	0.005968	0.999193
NDUFA10	-0.10042	0.501366	-0.3082	0.18007	0.465725	0.000113	0.022068	0.188327	-0.11341	0.635592	-0.28326	0.29097	0.226502	0.999999	0.029679	0.975109
NDUFAB1	-0.04904	0.056095	-0.1943	-0.0495	0.717151	0.681344	0.147546	0.714645	-0.40719	0.312564	-0.3546	0.172501	0.002489	0.98278	0.008423	0.874181
NDUFB1	-0.33549	0.112087	-0.07144	-0.12323	0.010735	0.410813	0.597418	0.361112	-0.24077	0.075164	-0.46521	-0.0496	0.053499	0.690216	0.000641	0.371691
NDUFB2	-0.01795	-0.08553	-0.13564	0.070181	0.894593	0.530815	0.314407	0.60393	-0.24195	0.372412	-0.30067	0.283228	0.052615	0.994594	0.022379	0.971762
NDUFB3	-0.12602	0.022241	-0.25976	-0.35229	0.350252	0.870753	0.051016	0.007198	-0.44042	0.160777	-0.26997	-0.01183	0.001095	0.857103	0.036443	0.468909
ATIC	-1.27E-05	0.26542	-0.24648	0.28949	0.999925	0.048037	0.064556	0.028949	-0.14559	0.569399	-0.28865	0.434416	0.16716	0.999982	0.027241	0.998722
NDUFB4	-0.08634	0.316993	-0.37393	-0.02624	0.523062	0.017294	0.004166	0.846375	-0.25471	0.434908	-0.39474	0.284538	0.043793	0.998738	0.003644	0.972352
NDUFB5	-0.01495	0.244326	-0.31141	0.113183	0.912111	0.069564	0.018376	0.401873	-0.2234	0.46331	-0.26312	0.375542	0.067796	0.999408	0.040378	0.994942
NDUFB6	-0.01153	0.146768	-0.35602	0.080053	0.932174	0.280411	0.006568	0.553884	-0.25133	0.277971	-0.23619	0.226899	0.046005	0.96929	0.059144	0.935292
NDUFB7	0.032116	-0.04284	0.085628	-0.11394	0.812531	0.75389	0.526523	0.398727	-0.20758	0.117056	-0.29818	0.059933	0.083134	0.780752	0.023324	0.653821
NDUFB8	-0.02303	0.151368	-0.10333	0.035655	0.866232	0.269955	0.44855	0.79418	-0.35079	0.496736	-0.46247	0.185584	0.009074	0.999741	0.000691	0.88887
NDUFB9	0.017762	-0.01129	-0.10306	-0.11629	0.896624	0.934826	0.44976	0.393367	-0.25069	0.497343	-0.10012	0.317219	0.046439	0.999781	0.256437	0.984147
NDUFB10	-0.05275	-0.09517	-0.05403	-0.20205	0.696776	0.485358	0.689769	0.131748	-0.29541	0.089353	-0.19349	0.121513	0.023121	0.722582	0.101418	0.789431
NDUFC1	0.033479	0.203943	-0.13914	0.024158	0.80473	0.131645	0.301955	0.858431	-0.21254	0.332233	-0.26441	0.264339	0.078078	0.987959	0.039613	0.962069
NDUFC2	0.061783	0.174244	-0.29495	0.224842	0.647992	0.199014	0.025928	0.092663	-0.11531	0.43025	-0.15535	0.443513	0.222703	0.99858	0.154103	0.99899
NDUFS1	0.000622	0.268769	-0.32237	0.080998	0.996335	0.045184	0.014461	0.5492	-0.15031	0.527851	-0.21311	0.361792	0.15936	0.999918	0.079925	0.993256
ATM	0.19996	-0.00359	-0.01891	0.36234	0.135876	0.979033	0.88895	0.005609	0.341963	0.003767	0.13905	0.145428	0.989993	0.509912	0.818843	0.83256
NDUFS2	-0.09465	0.21615	-0.24778	0.283487	0.48776	0.112968	0.065591	0.034241	-0.20037	0.672689	-0.31312	0.451522	0.090912	1	0.018113	0.999183
NDUFS3	-0.10816	0.146605	-0.23901	0.204704	0.427504	0.285492	0.076059	0.13018	-0.21537	0.595879	-0.34588	0.42117	0.075294	0.999994	0.009975	0.998221
NDUFV1	-0.07728	0.17412	-0.1625	0.078859	0.571292	0.20359	0.231458	0.563456	-0.19256	0.575178	-0.27171	0.304109	0.099909	0.999986	0.035495	0.980049
NDUFS4	0.05615	0.06708	-0.2627	0.168595	0.681047	0.62654	0.050465	0.214196	-0.24148	0.472163	-0.32904	0.351759	0.052967	0.999538	0.013656	0.991741
NDUFS5	-0.03615	0.107343	-0.18514	0.011896	0.78952	0.431023	0.167971	0.930016	-0.33483	0.439359	-0.32343	0.42827	0.011468	0.998874	0.01511	0.998507
NDUFS6	-0.15699	0.26201	-0.14768	-0.14117	0.243523	0.051091	0.272951	0.294892	-0.24212	0.34345	-0.29373	0.269607	0.05249	0.990277	0.025091	0.965003
NDUFS8	-0.10239	0.028685	-0.00756	0.012693	0.44852	0.833775	0.955508	0.925341	-0.16405	0.147484	-0.16122	0.03652	0.137984	0.835993	0.145034	0.595204
NDUFV2	-0.00317	0.192015	-0.06252	0.05763	0.981341	0.15627	0.64406	0.670242	-0.11706	0.221974	-0.2194	0.219678	0.219249	0.930914	0.0738	0.9288
RERE	0.002771	-0.07839	0.185507	-0.23566	0.983831	0.569423	0.171057	0.080386	0.070973	-0.22123	0.129153	-0.19069	0.68036	0.069766	0.801099	0.102149
NDUFV3	-0.21125	0.239825	-0.16718	0.168182	0.1147	0.075029	0.213885	0.211102	-0.14819	0.310574	-0.22315	0.142229	0.162836	0.982167	0.070313	0.827135
DRG1	-0.05809	0.473476	-0.25623	0.21186	0.66777	0.000228	0.054367	0.113629	0.099334	0.507496	-0.10766	0.359814	0.744347	0.999841	0.240731	0.992977
NEDD4	0.311366	-0.12042	-0.04088	0.182072	0.019497	0.381153	0.764815	0.179262	0.513302	0.095126	0.169419	0.087359	0.999844	0.73289	0.864207	0.715874
Sep-02	0.068481	0.288652	-0.22436	0.200606	0.612746	0.030966	0.093378	0.13459	0.037996	0.471947	-0.08398	0.353771	0.598977	0.999536	0.291694	0.992066
RPL10A	0.222639	0.289414	-0.21918	-0.07921	0.09599	0.030506	0.101403	0.558084	0.020677	0.379759	-0.22813	0.295731	0.554244	0.995381	0.065872	0.977002
NEDD8	-0.05084	0.122784	-0.1578	0.185709	0.70726	0.367309	0.241076	0.166642	-0.2161	0.277046	-0.43761	0.359465	0.076971	0.967294	0.001486	0.99235

NEDD9	0.343557	-0.27874	0.094132	0.172893	0.008884	0.037499	0.486123	0.198407	0.548898	-0.30221	0.25976	-0.18918	0.999961	0.02061	0.957574	0.103983
ATOH1	0.004436	-0.07523	0.20677	-0.19981	0.973874	0.581603	0.122777	0.136168	-0.04429	-0.314	0.195018	-0.36076	0.385036	0.01679	0.900389	0.006888
NEFM	-0.00999	-0.1397	0.274272	-0.08839	0.941229	0.304489	0.03896	0.513242	0.053006	-0.35122	0.124256	-0.27411	0.636776	0.008348	0.791959	0.032631
STGC3	0.148855	-0.2203	0.35089	-0.18959	0.269116	0.10278	0.007447	0.157801	0.172781	-0.21134	0.368675	-0.19208	0.874571	0.079284	0.993649	0.100472
SUMO1P3	0.147088	0.130562	0.095425	0.110751	0.274903	0.337501	0.480129	0.41213	0.029859	0.193073	0.038766	0.028674	0.578079	0.900706	0.5998	0.575018
SPIN2B	0.096677	-0.17551	0.239885	-0.09334	0.474362	0.195722	0.072286	0.489827	0.12103	-0.38203	0.113967	-0.36443	0.7885	0.004397	0.771995	0.006388
GIMAP6	0.084194	-0.13484	0.089804	0.471919	0.537275	0.326334	0.510406	0.000241	0.208651	-0.08114	0.118677	0.061364	0.917972	0.295958	0.78126	0.657304
LRRC18	-0.12613	-0.22157	0.043763	-0.25352	0.349822	0.100766	0.746513	0.057058	-0.20948	-0.36307	0.060398	-0.16141	0.081172	0.00657	0.653255	0.141932
NEFH	0.027967	-0.18735	0.170563	-0.10883	0.83788	0.170783	0.208819	0.424613	-0.00161	-0.25396	0.036786	-0.13221	0.495764	0.044276	0.594798	0.190545
NELL1	0.095389	-0.05723	0.119488	-0.20168	0.480294	0.675236	0.375992	0.132475	0.171242	-0.24323	0.078359	-0.15309	0.872417	0.051672	0.695549	0.154878
NEFL	-0.17041	-0.05803	0.097711	-0.2565	0.209238	0.670978	0.473729	0.056363	0.138955	-0.41181	0.340356	-0.3618	0.82147	0.002231	0.988923	0.006744
ATOX1	0.058663	-0.07137	0.048438	0.056888	0.664684	0.601192	0.720486	0.674251	-0.27706	-0.0229	-0.10849	-0.08693	0.031154	0.439972	0.239049	0.282831
NEK1	-0.06912	0.00303	-0.13892	-0.13402	0.609431	0.982318	0.302739	0.320286	-0.11982	-0.13441	0.048055	-0.05627	0.213842	0.186581	0.623039	0.355147
NEK2	-0.04867	0.002036	-0.31166	-0.22661	0.719231	0.988121	0.018277	0.090062	-0.28934	0.423637	-0.30507	0.22911	0.025569	0.998325	0.020788	0.937188
NEK3	0.09289	-0.17734	0.047368	-0.0471	0.491922	0.191032	0.726416	0.727924	0.139312	-0.25893	0.305232	-0.13529	0.822094	0.04114	0.979269	0.18501
NELL2	0.181668	-0.27925	0.108926	-0.21684	0.176227	0.037138	0.419923	0.105189	-0.01933	-0.3488	0.088001	-0.26844	0.449277	0.008757	0.717297	0.035628
NEO1	0.124321	0.254925	-0.17697	0.12726	0.361296	0.060339	0.19198	0.349968	0.191313	0.235962	0.053002	0.272373	0.898605	0.942799	0.635248	0.966471
NEU1	-0.07764	0.019894	-0.04617	0.101432	0.565922	0.884291	0.733076	0.452793	-0.12771	0.293301	-0.28869	0.18437	0.198831	0.976051	0.027225	0.890013
NEU2	0.008911	-0.00496	0.225034	-0.31528	0.947548	0.971073	0.092376	0.0169	0.211892	-0.34553	0.228763	-0.38351	0.921272	0.009337	0.934673	0.004258
ATP1A1	0.011369	0.288455	-0.27043	0.073386	0.933106	0.031086	0.041898	0.587468	-0.13167	0.485291	-0.17307	0.304079	0.191527	0.999685	0.127778	0.980038
NEUROD1	0.159078	-0.11679	0.13967	-0.23238	0.237226	0.391313	0.300104	0.081953	0.266109	-0.36602	0.257766	-0.23803	0.961377	0.006704	0.954417	0.05768
NEUROD2	0.059809	-0.18746	0.256421	-0.07506	0.65853	0.166514	0.054183	0.578947	0.111819	-0.31733	0.048296	-0.31734	0.770303	0.015823	0.623636	0.015819
NEUROG1	0.020815	0.027375	0.208887	-0.14057	0.877858	0.841266	0.118906	0.296978	0.086157	-0.33038	0.200637	-0.18655	0.715431	0.012465	0.906836	0.107233
NF1	0.094102	0.254886	-0.22419	0.234118	0.486266	0.057985	0.093641	0.079629	0.092193	0.434409	-0.11981	0.379498	0.728862	0.998722	0.216546	0.995354
ATP1A2	0.404433	-0.2482	0.289733	-0.01436	0.001992	0.067684	0.030315	0.916347	0.531696	-0.57313	0.361403	-0.40463	0.999928	1.57E-05	0.99264	0.002642
NF2	-0.11632	0.074877	-0.1398	0.199733	0.393275	0.586914	0.304133	0.139979	-0.05813	0.369114	-0.10606	0.273686	0.350584	0.994205	0.244023	0.96715
NFATC1	0.057266	-0.11202	0.162547	-0.16615	0.672209	0.411077	0.227022	0.216739	0.045662	-0.29515	0.075645	-0.27647	0.618419	0.023221	0.689301	0.031449
NFATC2	0.007156	-0.58552	0.15608	0.257322	0.957867	2.14E-06	0.246297	0.053313	0.061897	-0.44791	0.399358	-0.14786	0.656864	0.001016	0.996713	0.1662
NFIA	0.146577	0.071499	-0.11391	-0.08845	0.276593	0.600522	0.398854	0.512914	0.228445	0.155265	0.003173	0.125254	0.936622	0.848575	0.508253	0.796563
NFATC3	-0.01669	-0.00183	-0.13698	0.164055	0.901922	0.989307	0.309591	0.222682	-0.12818	0.101691	-0.18164	0.133247	0.197958	0.749357	0.116206	0.811328
NFATC4	0.153192	-0.06277	0.202365	0.131752	0.255254	0.645814	0.131135	0.328601	0.296682	-0.05572	0.141625	0.172833	0.976092	0.358095	0.820435	0.871885
NFE2	-0.01147	-0.34977	0.162381	-0.196	0.932491	0.00823	0.227503	0.143961	-0.04423	-0.55904	0.088162	-0.40943	0.386492	3.28E-05	0.715347	0.002613
NFE2L1	-0.01872	0.044127	-0.00963	0.132424	0.891104	0.749046	0.943864	0.330598	0.021007	0.277332	-0.11009	0.222035	0.555105	0.968978	0.235781	0.93097
ATP1A3	-0.07112	0.025407	0.059255	-0.10832	0.599068	0.852548	0.661503	0.42254	0.108004	-0.22629	-0.01713	-0.29	0.762526	0.06524	0.455544	0.025293
NFE2L2	0.087172	0.452654	-0.24002	0.008071	0.522927	0.00046	0.074789	0.952926	-0.17525	0.65029	-0.20168	0.44228	0.122026	0.999999	0.091995	0.998956
NFIB	0.316963	-0.31669	0.238051	0.284119	0.016292	0.017408	0.07456	0.032203	0.379562	-0.19456	0.265338	0.015235	0.995361	0.097548	0.96093	0.540021
NFIC	0.141664	-0.06402	0.21239	-0.13145	0.297659	0.642398	0.116061	0.334183	0.205267	-0.1617	0.131169	-0.10351	0.914421	0.141502	0.804793	0.246809
NFIL3	0.070969	-0.00925	0.015476	0.265929	0.603228	0.946574	0.909869	0.047594	0.335585	-0.29309	0.198752	-0.20533	0.988695	0.024032	0.904708	0.085512
NFIX	0.207029	-0.13686	0.198414	-0.06872	0.122298	0.31452	0.138992	0.611496	0.208016	0.037847	0.225378	-0.04405	0.917315	0.598597	0.931699	0.385657
ATP12A	-0.14298	-0.02607	-0.11708	0.069604	0.288686	0.84875	0.385748	0.606918	-0.18609	0.487237	-0.13934	0.223443	0.107808	0.999703	0.180651	0.932242
NFKB1	0.018518	0.297645	-0.31467	0.336517	0.891248	0.025887	0.017125	0.010483	-0.13737	0.734884	-0.14705	0.488913	0.18132	1	0.167542	0.999717
NFKB2	0.043917	-0.16023	0.216462	0.252769	0.745651	0.238132	0.105816	0.057825	0.006513	0.077817	0.019292	0.127311	0.516935	0.694307	0.54946	0.797689
NFKBIA	0.193188	-0.30485	0.073293	0.395138	0.149917	0.022343	0.587945	0.00235	0.44316	-0.10054	0.137072	-0.11996	0.99898	0.253093	0.815375	0.213562
NFKBIB	0.011444	-0.09652	0.063408	-0.04482	0.932671	0.479164	0.639366	0.740616	-0.02638	0.105237	0.03552	-0.00687	0.430915	0.756801	0.591592	0.48194
NFKBIE	-0.11121	-0.03263	0.098574	-0.00748	0.410162	0.811324	0.46569	0.955965	-0.03173	0.004377	-0.0018	0.063512	0.417101	0.511516	0.49533	0.662511
NFKBIL1	-0.12972	-0.16562	0.142677	-0.09059	0.336163	0.222521	0.289715	0.502755	0.071364	-0.33706	0.10447	-0.39468	0.681285	0.010993	0.752683	0.003321
NFKBIL2	0.092823	-0.02304	0.277815	-0.14606	0.492233	0.866164	0.036405	0.278298	0.173116	-0.18026	0.174879	-0.21383	0.875037	0.115302	0.874721	0.076799
NFRKB	-0.10765	0.423831	-0.1062	0.073659	0.425425	0.001134	0.4317	0.586074	-0.09313	0.543703	-0.01004	0.533397	0.271436	0.999943	0.474208	0.999919
NFX1	-0.1427	0.415869	-0.24017	-0.00896	0.289638	0.001435	0.071935	0.947288	0.011914	0.297411	-0.07296	0.089114	0.531319	0.977641	0.316931	0.72205
ACO1	0.162325	0.040719	-0.04886	0.263466	0.227663	0.76573	0.718151	0.047681	0.191289	0.10875	0.104028	0.167986	0.898576	0.764058	0.751765	0.867774

ATP1A4	-0.00107	-0.0271	0.147551	-0.1792	0.993716	0.842813	0.273379	0.182281	0.000142	-0.47412	0.20255	-0.36802	0.500374	0.000437	0.908962	0.005929
NFYA	-0.12228	0.06738	-0.25921	0.158672	0.364864	0.621719	0.051532	0.23844	-0.08991	0.441663	-0.32138	0.384308	0.278473	0.998806	0.016701	0.995425
NFYB	0.060671	0.189602	-0.15151	0.167786	0.653922	0.161638	0.260556	0.212193	0.149385	0.359361	-0.13252	0.323591	0.836312	0.992334	0.195577	0.984934
NFYC	0.090281	0.020312	-0.28641	-0.00592	0.504214	0.881878	0.030778	0.965163	0.020903	0.427859	-0.11939	0.271963	0.554833	0.998492	0.217362	0.966256
NGF	0.043618	-0.34093	0.224265	-0.1552	0.747328	0.010132	0.093525	0.248988	0.166267	-0.47241	0.14521	-0.34493	0.86528	0.000458	0.829386	0.009448
NGFR	0.088128	-0.15019	0.054837	0.106539	0.514476	0.269218	0.685375	0.430239	0.23817	0.140507	0.129602	0.181861	0.944523	0.824169	0.801925	0.886787
NHLH1	0.045063	0.001283	0.240218	-0.241	0.741562	0.992584	0.074539	0.073565	0.216215	-0.38992	0.251325	-0.40292	0.92552	0.003695	0.952078	0.002749
NHLH2	0.015746	-0.0864	0.103373	-0.3852	0.90745	0.526619	0.444145	0.003087	0.075501	-0.32298	0.138521	-0.3104	0.691001	0.014287	0.81792	0.017888
NHP2L1	-0.0151	0.112498	-0.30267	0.065413	0.911247	0.409092	0.02211	0.628786	-0.16707	0.366083	-0.26502	0.258129	0.133545	0.993827	0.039255	0.958365
ATP1B1	-0.17635	0.476895	-0.39083	0.119804	0.189445	0.000202	0.002648	0.374721	-0.05443	0.593727	-0.24482	0.313735	0.359695	0.999993	0.05252	0.983133
NHS	-0.06236	0.279848	-0.00751	-0.24574	0.64492	0.036717	0.955776	0.065389	-0.05983	0.115211	-0.02256	0.011952	0.34643	0.777101	0.441527	0.531418
NID1	0.33088	-0.19493	0.202478	0.341636	0.011937	0.149953	0.130915	0.009297	0.425627	-0.306	0.280961	-0.08836	0.998406	0.019312	0.969228	0.279633
NINJ1	-0.05843	-0.20983	0.071447	-0.00505	0.665913	0.120623	0.597406	0.970233	0.147984	-0.34364	-0.03892	-0.18601	0.836821	0.009688	0.399809	0.107911
NINJ2	-0.10682	-0.14223	0.161003	-0.33757	0.429034	0.295709	0.231524	0.010229	0.064668	-0.3875	0.262719	-0.42336	0.665302	0.003899	0.959382	0.001686
NIT1	-0.16769	0.006404	-0.08495	0.035885	0.212461	0.962638	0.529809	0.791004	-0.38075	0.188706	-0.1666	0.133438	0.004522	0.895436	0.137014	0.811673
NKG7	-0.09652	-0.27932	0.140828	0.433855	0.475094	0.03709	0.296073	0.000747	0.031091	-0.34188	0.067012	-0.22584	0.58126	0.010022	0.66908	0.065628
ATP1B2	0.311458	-0.13184	0.294277	0.017278	0.018356	0.332743	0.026285	0.898492	0.210559	-0.42433	0.311482	-0.27632	0.919927	0.001646	0.981366	0.03152
NKTR	0.146368	0.113285	0.063276	0.185645	0.277286	0.405802	0.640064	0.166792	0.434898	-0.12795	0.149294	-0.00761	0.998738	0.198391	0.836163	0.479992
NKX2-2	-0.03289	-0.07172	0.138937	-0.22799	0.808113	0.599393	0.302672	0.088066	-0.0153	-0.20447	0.077376	-0.26037	0.459809	0.086432	0.693293	0.040268
NKX3-1	0.030233	-0.05484	0.079814	0.029509	0.823345	0.688109	0.555073	0.827505	0.173015	-0.06146	0.065791	-0.25713	0.874897	0.342467	0.666178	0.042255
NKX6-1	0.130219	-0.12353	0.378756	-0.15038	0.33431	0.364402	0.003669	0.264177	0.206981	-0.36604	0.180498	-0.32666	0.916234	0.006179	0.882292	0.013356
NNAT	0.038431	-0.13603	0.166532	-0.15338	0.776545	0.317471	0.215678	0.254659	0.186062	-0.29474	0.182783	-0.14579	0.892151	0.023384	0.885278	0.166826
NMB	-0.05294	-0.11169	0.233054	-0.28249	0.695743	0.412482	0.081046	0.033245	0.049934	-0.34319	0.168901	-0.263	0.629132	0.009773	0.866313	0.038708
NMBR	0.134624	-0.25615	0.143512	-0.52418	0.318072	0.056713	0.286869	2.85E-05	0.114803	-0.58982	0.255624	-0.54058	0.776289	8.03E-06	0.954944	5.26E-05
ATP1B3	0.1575	0.244434	-0.35428	0.217992	0.241972	0.069436	0.006855	0.103314	0.058615	0.712133	-0.15003	0.543097	0.650598	1	0.16264	0.999952
NME1	-0.12763	0.162324	-0.19486	0.127638	0.348571	0.236394	0.150101	0.348524	-0.07206	0.551569	-0.29981	0.454283	0.317081	0.999965	0.022702	0.999241
NME2	0.063013	-0.04945	0.332997	0.04131	0.64146	0.717386	0.011372	0.760285	0.05237	-0.25787	0.067175	-0.29431	0.635199	0.041796	0.669467	0.02355
NME3	0.091794	-0.06589	0.21784	-0.05985	0.50104	0.632668	0.10678	0.661261	0.082473	-0.39694	0.142011	-0.42592	0.704918	0.00347	0.821095	0.001766
NME4	0.12555	-0.19682	0.21411	-0.12754	0.352077	0.145978	0.109756	0.344437	0.423518	-0.38679	0.307147	-0.24607	0.99832	0.003961	0.979931	0.049627
NQO2	0.033992	0.079625	0.05262	0.012481	0.801801	0.559659	0.69747	0.926583	-0.04253	0.147023	-0.17522	0.073307	0.389493	0.835227	0.124808	0.685865
NMT1	-0.02185	0.362029	-0.18568	0.311577	0.871844	0.006111	0.166705	0.01831	0.041961	0.538352	-0.07848	0.395482	0.609065	0.999943	0.304182	0.996739
NNMT	0.131919	-0.23964	0.126059	0.379562	0.327982	0.075258	0.35011	0.003592	0.439017	-0.1858	0.182184	-0.11735	0.998723	0.110856	0.881718	0.221338
NODAL	-0.15003	-0.20779	0.302209	-0.1409	0.265319	0.12437	0.022325	0.29583	-0.0292	-0.36479	0.013665	-0.30749	0.423622	0.006341	0.535497	0.018819
NOP2	-0.16023	0.311004	-0.21091	0.283758	0.233797	0.019646	0.115304	0.032432	-0.01553	0.486987	-0.36207	0.275673	0.459196	0.999701	0.007261	0.968156
NONO	-0.07636	0.362612	-0.37656	0.045854	0.572373	0.006024	0.003888	0.734837	-0.19182	0.639344	-0.3089	0.441763	0.100781	0.999999	0.019479	0.998942
NOS1	-0.09701	0.374768	-0.2154	-0.08349	0.472854	0.00443	0.107589	0.536952	-0.05547	0.43612	-0.17374	0.228421	0.357122	0.998776	0.126859	0.936602
NOS2	-0.17282	0.00332	-0.09709	-0.0084	0.202766	0.980807	0.476541	0.951009	-0.24109	0.057535	0.302633	0.198397	0.05531	0.646321	0.977074	0.904304
NOS3	0.191782	-0.11746	0.358705	-0.00433	0.152962	0.38862	0.006144	0.974493	0.012093	-0.24494	0.065075	0.039989	0.531788	0.050432	0.664472	0.604056
CNOT2	0.037192	0.211856	-0.26814	0.177659	0.78357	0.117004	0.043733	0.186126	0.123078	0.388196	-0.17484	0.327447	0.792431	0.99616	0.12533	0.986837
CNOT3	-0.0094	-0.13834	0.107031	-0.17931	0.944654	0.309264	0.428101	0.182014	0.222845	-0.18868	0.371854	-0.27006	0.929408	0.107252	0.99353	0.036395
CNOT4	0.017177	0.247913	-0.12344	0.132625	0.899082	0.06544	0.360307	0.325379	0.046931	0.261695	-0.04724	0.255403	0.621611	0.960525	0.378981	0.956653
NOTCH1	0.087208	-0.01258	-0.06694	0.170799	0.518893	0.926689	0.620768	0.20398	0.014195	0.309545	-0.06371	0.205613	0.537297	0.981842	0.338798	0.91479
NPY	-0.06458	-0.02778	0.083739	-0.27117	0.633157	0.838931	0.535722	0.041318	0.139016	-0.43715	0.034895	-0.38814	0.821576	0.001192	0.590007	0.003844
NOTCH2	0.19252	-0.00798	-0.10677	0.394354	0.155163	0.953915	0.433505	0.002635	0.329152	0.22263	0.211211	0.186007	0.986371	0.929211	0.91563	0.889405
NOTCH3	0.119659	0.135996	0.007064	0.076166	0.375304	0.317602	0.958409	0.573354	0.039792	0.476872	-0.13152	0.299565	0.603554	0.999597	0.194562	0.97844
NOTCH4	0.163125	-0.18442	0.308698	0.110164	0.225349	0.173629	0.019473	0.414624	0.248676	-0.16687	0.239178	-0.02271	0.952191	0.133841	0.943217	0.440467
NOV	0.143838	0.076653	0.129088	0.050264	0.290229	0.578051	0.343031	0.712955	0.325995	-0.17739	0.279376	-0.29147	0.98648	0.119121	0.968456	0.024686
NOVA1	-0.09557	-0.23521	0.025208	-0.16863	0.479477	0.080984	0.852346	0.209858	0.19867	-0.40254	0.33079	-0.18665	0.907182	0.002774	0.986772	0.107117
NOVA2	0.110758	-0.16231	0.32118	-0.04706	0.412097	0.232021	0.014848	0.728137	0.129451	-0.27947	0.35571	-0.19439	0.804397	0.029988	0.991758	0.097743
FXD2	-0.06271	-0.28849	0.192511	-0.04297	0.643085	0.031067	0.151377	0.750933	0.118012	-0.35806	0.173591	-0.24262	0.78263	0.007277	0.87294	0.052121

NP	-0.20001	0.16914	-0.36116	0.230905	0.139423	0.217024	0.006244	0.086862	-0.26444	0.493829	-0.26211	0.411456	0.037872	0.999756	0.040983	0.99775
NPAS1	-0.02916	-0.14701	0.253002	-0.15961	0.82952	0.279614	0.057588	0.235637	-0.00551	-0.38991	0.159728	-0.32158	0.485683	0.004052	0.849825	0.015617
NPAS2	-0.19017	0.48187	-0.14809	-0.21181	0.156506	0.00017	0.271611	0.113715	0.009916	0.405385	-0.08859	0.096448	0.525773	0.997133	0.283701	0.735738
NPAT	0.046558	0.240456	-0.20294	0.154873	0.730916	0.074242	0.130017	0.250014	0.19369	0.231747	0.073483	0.152551	0.901435	0.939395	0.684285	0.844258
NPC1	0.161557	0.13971	-0.11265	0.373035	0.229902	0.304438	0.404125	0.004264	0.156344	0.343737	-0.10397	0.199156	0.850271	0.990331	0.248348	0.90773
NPHP1	-0.15297	-0.09594	-0.01428	-0.22466	0.255941	0.481806	0.916044	0.092929	-0.22634	-0.24749	0.029347	-0.13808	0.06519	0.048631	0.57588	0.180057
NPHS1	-0.02106	-0.27536	0.294535	-0.10698	0.876435	0.039977	0.026147	0.428331	-0.05265	-0.46085	0.248667	-0.22811	0.364113	0.000634	0.950237	0.063664
NPM1	0.042383	0.348463	-0.46939	0.215	0.754253	0.008491	0.00023	0.108252	0.16457	0.600252	-0.30351	0.448907	0.862786	0.999995	0.02134	0.999124
ATP2A1	-0.11305	-0.05823	0.009625	-0.26647	0.402438	0.669901	0.943348	0.04511	-0.03833	-0.24504	0.033793	-0.35641	0.400177	0.05036	0.58721	0.007525
NPPA	0.032892	-0.12765	0.282591	-0.14051	0.808086	0.348478	0.033183	0.297165	-0.02283	-0.44855	0.205798	-0.31929	0.440152	0.000885	0.912491	0.015275
NPPB	0.003188	-0.18589	0.197602	-0.14683	0.981222	0.170168	0.140649	0.275764	0.117745	-0.38517	0.219513	-0.32173	0.782106	0.004105	0.926309	0.014615
ATP2A2	0.055944	0.205349	-0.21464	0.074329	0.679359	0.128947	0.108858	0.582661	-0.15929	0.431717	-0.26809	0.349557	0.145161	0.998631	0.037491	0.991372
NPPC	0.049106	-0.1877	0.270023	-0.03686	0.716796	0.165965	0.042217	0.785456	0.059471	-0.18573	0.122525	-0.13459	0.652693	0.108262	0.788672	0.186254
NPR1	0.314626	-0.27127	0.280447	0.113301	0.017143	0.043145	0.034599	0.401378	0.317111	-0.42165	0.31304	-0.27587	0.984116	0.001758	0.981861	0.031743
NPR2	0.183429	-0.18229	0.184831	0.213012	0.172002	0.178738	0.168692	0.111633	0.265801	-0.5084	0.280776	-0.11643	0.962902	0.000155	0.969138	0.220476
NPR3	0.158811	-0.13224	0.047596	-0.0662	0.238025	0.331292	0.725151	0.624665	0.257616	-0.23364	0.214007	-0.25655	0.958047	0.059058	0.920969	0.042621
NPTX1	-0.0535	-0.0719	0.249977	-0.17806	0.692673	0.598476	0.060743	0.185126	-0.03445	-0.2819	0.001746	-0.37485	0.411133	0.030324	0.504488	0.00559
NPTX2	0.127468	-0.25612	0.339387	-0.12032	0.344708	0.056737	0.009803	0.372643	0.284427	-0.43769	0.128879	-0.49412	0.972302	0.001175	0.800595	0.000241
NPY1R	0.287697	-0.26751	0.204221	-0.02716	0.030003	0.046239	0.127562	0.841057	0.245579	-0.31741	0.226902	-0.17226	0.950021	0.015799	0.93305	0.126153
NPY2R	0.088745	-0.09062	0.17899	-0.12618	0.511526	0.506563	0.182797	0.349635	0.222481	-0.39407	0.270181	-0.27116	0.931375	0.003366	0.963671	0.034166
NPY6R	0.086889	-0.05857	0.321955	-0.31657	0.524282	0.671036	0.01553	0.017453	0.318929	-0.37774	0.234958	-0.34018	0.984626	0.004825	0.939864	0.010357
NPY5R	-0.00601	-0.08155	0.029146	-0.24561	0.964611	0.550163	0.8296	0.065543	0.089343	-0.28039	0.155491	-0.28643	0.722559	0.029554	0.84612	0.026814
ATP2A3	0.077465	-0.23212	0.171069	0.000219	0.566811	0.085173	0.203255	0.998713	0.088294	-0.12355	0.134052	-0.15448	0.720222	0.206664	0.810004	0.152661
SLC11A2	-0.00735	0.09488	-0.15634	0.206759	0.956712	0.486698	0.245513	0.122797	-0.0878	0.307392	-0.06499	0.185729	0.280889	0.981148	0.335736	0.891733
NRAP	0.15048	-0.18652	0.27965	-0.47731	0.268289	0.172719	0.036856	0.000199	0.150547	-0.44446	0.176728	-0.38514	0.841021	0.000986	0.877248	0.004108
NRAS	-0.13797	0.379674	-0.33939	0.293871	0.306072	0.003901	0.009803	0.026503	-0.17949	0.601245	-0.2465	0.440937	0.116316	0.999995	0.051306	0.998919
NRCAM	0.219871	0.025898	0.108177	0.18615	0.100302	0.849727	0.423143	0.16562	0.022047	-0.04742	0.064095	0.108243	0.557151	0.378541	0.660322	0.760454
NRD1	-0.07246	0.207192	-0.28672	0.156405	0.592184	0.125475	0.03059	0.245302	-0.10302	0.350158	-0.1166	0.241397	0.247845	0.991474	0.222798	0.946972
NRF1	-0.20784	-0.11323	-0.00548	-0.22317	0.120813	0.406045	0.967718	0.095179	-0.1785	-0.31052	0.094731	-0.26009	0.117634	0.01785	0.732038	0.040433
ACR	0.020037	-0.09755	0.083428	-0.14202	0.883464	0.474474	0.540999	0.29644	0.213894	-0.28743	-0.01088	-0.31659	0.923261	0.026379	0.471734	0.016033
ATP2B1	0.063354	0.209728	-0.29188	0.15651	0.639654	0.120813	0.027594	0.24498	0.061403	0.366796	-0.05763	0.271754	0.657399	0.993918	0.353446	0.966147
NRGN	-0.01821	-0.51404	0.149285	-0.15148	0.893039	5.07E-05	0.267718	0.26068	-0.1121	-0.55458	0.109158	-0.31534	0.231736	3.86E-05	0.759701	0.017429
NRL	-0.08476	-0.19323	0.144789	-0.09758	0.530756	0.153609	0.282557	0.470216	-0.09178	-0.21171	0.053284	-0.08067	0.272053	0.078914	0.635941	0.297031
NRTN	0.037055	-0.17954	0.276633	-0.13264	0.784351	0.185479	0.037242	0.325328	0.14785	-0.3515	0.14616	-0.32759	0.836598	0.008301	0.830978	0.013128
NSF	0.05102	0.35497	-0.23389	0.004222	0.706246	0.007264	0.079925	0.975135	-0.11856	0.468028	-0.21172	0.296147	0.216303	0.999481	0.08133	0.977162
NT5E	0.138888	-0.16871	-0.0426	0.122385	0.302843	0.21387	0.753012	0.364443	0.161278	0.215668	0.081611	0.208629	0.857863	0.924992	0.702966	0.91795
NTF3	0.152649	0.116118	0.059797	0.036588	0.256961	0.394083	0.658597	0.787001	0.20484	0.017345	0.16499	0.116173	0.913966	0.545543	0.860615	0.779009
NTF4	-0.01832	-0.12771	0.127613	0.027574	0.892386	0.348242	0.344156	0.838662	-0.13813	-0.09458	0.081739	-0.06583	0.179967	0.265906	0.703256	0.331895
ATP2B2	-0.0891	-0.09785	0.071303	-0.12847	0.509811	0.473094	0.598147	0.340915	0.258176	-0.3103	0.178165	-0.22568	0.958394	0.01792	0.879187	0.065769
NTHL1	0.083429	-0.15975	0.214588	-0.15764	0.537237	0.239571	0.108946	0.241547	-0.23572	-0.10503	0.042444	-0.17609	0.057395	0.243626	0.609047	0.120884
NTRK1	-0.00157	-0.12187	0.200163	-0.27312	0.990749	0.370901	0.13547	0.03982	0.003753	-0.43947	0.163971	-0.24015	0.509874	0.001123	0.859104	0.053966
NTRK2	0.514106	-0.08186	0.221163	-0.10477	4.30E-05	0.548675	0.098271	0.437991	0.450668	-0.02991	0.159786	-0.04838	0.999054	0.42268	0.849913	0.376154
NTRK3	0.300484	-0.15872	0.183337	0.086483	0.023141	0.24264	0.172221	0.522389	0.243602	-0.22669	0.225186	-0.06293	0.948597	0.064887	0.931527	0.338906
NTN3	-0.02588	-0.06364	0.276464	-0.11319	0.848472	0.641225	0.037363	0.401851	0.021581	-0.31297	0.14026	-0.28629	0.556602	0.017097	0.820944	0.026875
ROR1	0.406185	-0.27906	0.302783	0.091642	0.001718	0.037272	0.022059	0.497783	0.419768	-0.50727	0.430802	-0.28102	0.998159	0.00016	0.998433	0.029256
ATP2B3	-0.05458	-0.06625	0.261021	-0.11966	0.686761	0.627583	0.049862	0.375305	0.150355	-0.28506	0.333764	-0.3082	0.840709	0.027414	0.987475	0.018588
ROR2	0.264546	-0.1516	0.208084	0.207484	0.046744	0.264709	0.120364	0.121461	0.392253	-0.24601	0.220763	-0.03869	0.996151	0.051656	0.925074	0.40038
DDR2	0.417839	-0.34295	0.231191	0.307959	0.00122	0.009667	0.083575	0.019781	0.515365	-0.41928	0.419059	-0.11096	0.999876	0.001864	0.997916	0.231432
NTS	0.175403	0.060219	-0.11062	-0.17368	0.19187	0.659304	0.412684	0.196335	-0.23026	0.150271	0.165672	0.143856	0.06404	0.83776	0.858757	0.827101
NTSR1	-0.0121	-0.08691	0.293199	-0.16922	0.928815	0.524181	0.026866	0.208254	0.091292	-0.47306	0.282271	-0.36081	0.726878	0.00045	0.969854	0.006881

LOC492303	0.04409	-0.01875	0.202088	-0.42061	0.744687	0.890905	0.131675	0.001123	-0.235	-0.14865	0.069442	-0.31796	0.057961	0.162077	0.674824	0.015644
C8orf22	-0.0935	0.066984	-0.05615	-0.14974	0.489091	0.623774	0.678249	0.266259	0.149552	-0.16637	0.224294	-0.22892	0.839398	0.134572	0.930725	0.062977
C5orf53	0.101013	0.117115	-0.05614	0.162057	0.454672	0.390007	0.678321	0.228444	0.140241	0.15352	0.018151	0.198171	0.823707	0.845808	0.547102	0.906617
NUCB1	0.073072	-0.03103	0.13876	0.101169	0.58907	0.82042	0.303293	0.453969	0.080485	0.271565	0.000762	0.182369	0.702538	0.966047	0.501981	0.887445
NUCB2	-0.05954	0.038425	-0.0267	-0.23787	0.659973	0.778585	0.843722	0.074793	-0.17895	-0.0599	-0.01363	-0.07142	0.119768	0.347959	0.465001	0.32052
NUMA1	0.067996	-0.00571	-0.12926	-0.00256	0.618531	0.966995	0.3424	0.985074	0.051883	0.207438	-0.042	0.062703	0.632499	0.914235	0.393317	0.658801
NUP88	-0.03637	0.311023	-0.28302	0.151911	0.788239	0.019638	0.032906	0.259296	-0.10831	0.526609	-0.23341	0.339084	0.236837	0.999915	0.061404	0.989424
NUP98	0.030486	0.273312	-0.25696	0.244733	0.821889	0.041537	0.053658	0.066539	-0.00844	0.516265	-0.15327	0.352345	0.477806	0.99988	0.157409	0.991837
NR4A2	0.220685	-0.01079	-0.03625	-0.08474	0.102169	0.937677	0.790828	0.534639	0.254833	0.121949	0.120455	-0.1733	0.956288	0.79027	0.784703	0.124711
ATP2B4	0.131081	0.230625	-0.17924	0.158179	0.331092	0.087257	0.182167	0.239921	0.055319	0.418544	0.008545	0.410429	0.642498	0.998103	0.522213	0.997695
NVL	-0.106	0.105529	-0.13857	0.112331	0.432569	0.438895	0.303956	0.405447	-0.06582	0.213448	-0.17998	0.206515	0.331934	0.922821	0.118396	0.915745
GPR143	0.191404	-0.04566	0.227088	-0.05879	0.153788	0.738257	0.089364	0.66399	0.075868	0.20465	-0.04221	0.116776	0.691857	0.913762	0.391549	0.780199
C2orf64	-0.14995	0.057315	-0.16652	-0.054	0.26556	0.674792	0.215721	0.689914	-0.15928	0.127424	-0.13185	-0.13769	0.145176	0.800636	0.193975	0.180751
OAS1	-0.19363	0.346135	-0.23583	0.31344	0.152748	0.009637	0.080157	0.018659	-0.14386	0.507513	-0.24745	0.393061	0.170089	0.999841	0.050625	0.996556
TRIM72	-0.27064	-0.07813	0.069828	-0.16536	0.043654	0.567094	0.609081	0.223261	0.057545	-0.28832	0.305616	-0.24247	0.647977	0.025999	0.979403	0.052229
CISD2	0.016931	0.196862	-0.0945	0.311292	0.90052	0.145883	0.484435	0.018422	-0.12361	0.222482	-0.20098	0.280348	0.206551	0.931376	0.092776	0.970428
CCDC73	0.053948	-0.02286	-0.02426	-0.45064	0.690215	0.867172	0.857838	0.000435	0.010626	-0.26771	0.073723	-0.3661	0.527938	0.036034	0.684845	0.006171
EID3	-0.03947	0.306531	0.03933	-0.15484	0.770648	0.021576	0.771457	0.25011	-0.0308	0.32949	-0.05214	0.104646	0.419495	0.987326	0.36686	0.755568
GPX8	-0.00515	0.033969	-0.05924	0.041406	0.969696	0.803715	0.661572	0.759748	-0.17696	0.138092	0.007893	0.359836	0.1197	0.819958	0.52052	0.99298
OAS2	-0.23605	-0.0061	-0.02567	0.401974	0.079875	0.964729	0.851038	0.002134	-0.36167	0.39187	-0.04081	0.413186	0.007927	0.995739	0.39749	0.997345
RNASE12	-0.20447	0.116433	-0.10406	-0.10166	0.127081	0.392793	0.441104	0.451762	0.015853	-0.13518	0.056245	-0.28046	0.541161	0.187977	0.641561	0.031013
PHOSPHO2	0.13043	-0.02432	0.019339	0.116516	0.333521	0.858775	0.886459	0.388065	0.217145	0.016873	0.127209	-0.06684	0.926412	0.54431	0.7975	0.329474
PAPPAS	-0.05376	-0.15895	0.070146	-0.2301	0.691216	0.241951	0.604111	0.085089	-0.04984	-0.35347	0.034094	-0.28171	0.371108	0.007982	0.587974	0.028936
OAS3	-0.16011	-0.00153	-0.05849	0.457905	0.238499	0.991137	0.668485	0.000387	-0.35271	0.476155	-0.15756	0.368629	0.009431	0.999457	0.156464	0.993096
LOC100133	-0.17713	-0.24831	0.186074	-0.39677	0.187457	0.064995	0.165795	0.002245	-0.25446	-0.28545	0.074509	-0.126	0.043953	0.027242	0.686669	0.202028
SPANXN1	0.052065	-0.30146	0.033694	-0.09441	0.700508	0.023956	0.803501	0.484826	0.064967	-0.24186	0.287872	-0.15479	0.666023	0.052683	0.972418	0.152175
SPANXN2	-0.05556	-0.16397	0.279909	-0.0562	0.68145	0.22722	0.034962	0.677949	0.125107	-0.10867	0.094404	-0.14699	0.796287	0.236109	0.73133	0.164822
LOC494141	0.09182	0.144769	0.20652	0.016594	0.496943	0.287085	0.123239	0.902491	0.260032	-0.22897	0.299227	-0.20196	0.959529	0.06293	0.977077	0.089151
CHAC2	-0.00138	-0.05132	-0.12708	0.09122	0.991941	0.709829	0.350647	0.503735	-0.06877	0.167369	-0.06421	0.011782	0.32486	0.866883	0.33758	0.530972
FBXO47	-0.02775	-0.08574	0.122634	-0.25049	0.837645	0.529791	0.363461	0.060198	0.076143	-0.32068	0.078676	-0.40471	0.692498	0.014897	0.696276	0.002637
SPANXN5	-0.02681	0.016253	0.113546	-0.12035	0.844474	0.906245	0.404714	0.376959	0.150558	-0.22173	0.092446	-0.09583	0.841039	0.069305	0.727074	0.263201
OAT	0.10671	0.340582	-0.28662	0.18091	0.429498	0.010214	0.030654	0.178069	0.007842	0.610078	-0.20902	0.364854	0.520626	0.999997	0.084107	0.993668
TBC1D25	-0.11089	-0.00192	-0.02836	0.073337	0.411541	0.988822	0.834129	0.587718	-0.30419	0.172818	-0.18395	-0.08447	0.019923	0.874623	0.113219	0.288384
RNF165	0.002121	0.005809	-0.07105	0.186637	0.987507	0.966107	0.599427	0.164496	0.072005	0.162034	-0.12075	0.141636	0.680838	0.856204	0.217477	0.823315
C18orf56	-0.014	-0.08507	0.152024	-0.22066	0.917673	0.53302	0.258937	0.099057	0.103497	-0.38929	0.189638	-0.32719	0.753163	0.003747	0.893927	0.013227
OAZ1	-0.04908	-0.02029	-0.22218	0.116734	0.716958	0.882004	0.096691	0.387172	-0.12622	0.128522	-0.24307	0.064294	0.201616	0.802679	0.05382	0.664399
OAZ2	0.074948	-0.15728	-0.10572	-0.14152	0.579519	0.247007	0.433826	0.293676	-0.01404	-0.10528	0.020678	0.037886	0.463105	0.24312	0.553623	0.598696
OCA2	-0.0732	0.160361	0.014696	-0.32711	0.588428	0.237751	0.9136	0.013004	-0.0227	-0.05709	-0.06967	-0.2625	0.440496	0.353141	0.324639	0.038997
ATP4A	0.060664	-0.16484	0.222146	-0.16034	0.65396	0.224721	0.096747	0.233469	0.137805	-0.28688	0.143672	-0.24375	0.819453	0.026619	0.82679	0.051298
OCLN	-0.14276	0.301756	-0.30618	-0.16985	0.289446	0.02381	0.020541	0.20654	-0.12994	0.413473	-0.29683	0.152556	0.194704	0.997856	0.023848	0.844266
OCM2	-0.20184	-0.0727	-0.05021	-0.17607	0.132152	0.594418	0.710694	0.19017	0.044516	-0.1599	0.154667	-0.13427	0.615529	0.144226	0.84482	0.186823
OCRL	0.23172	0.165036	-0.15733	0.060801	0.082851	0.224168	0.242479	0.653228	0.207216	0.338351	-0.13684	0.172744	0.916481	0.989275	0.18504	0.87452
ODC1	0.129091	0.222826	-0.16858	0.046548	0.343018	0.102008	0.214235	0.733358	0.118718	0.267211	-0.28932	0.064478	0.784011	0.963692	0.02695	0.664844
ODF1	-0.1393	-0.2452	0.129302	-0.38441	0.301398	0.068536	0.337752	0.003154	-0.01248	-0.5633	0.185663	-0.39922	0.467191	2.29E-05	0.88897	0.002994
ODF2	-0.11231	-0.18019	0.054604	-0.39353	0.405552	0.183876	0.686641	0.002458	-0.2517	-0.23079	0.053192	-0.19164	0.045759	0.061401	0.635714	0.101004
OMD	0.264309	-0.27043	0.011209	0.13102	0.051179	0.047952	0.935265	0.340352	0.334712	-0.14034	0.325999	0.065956	0.987693	0.178916	0.984597	0.666571
ATP4B	-0.02564	-0.0152	0.185482	-0.27824	0.849833	0.911468	0.167171	0.03611	0.103584	-0.34778	0.205406	-0.30453	0.753345	0.008935	0.91207	0.019808
OGDH	0.05794	0.265228	-0.23863	0.098636	0.668575	0.048205	0.073831	0.465407	-0.11377	0.565013	-0.22673	0.300555	0.22577	0.999979	0.067098	0.978799
OGG1	0.049918	-0.30602	0.24877	-0.04399	0.712311	0.021805	0.06204	0.745223	0.109729	-0.19782	0.246926	-0.12079	0.76606	0.09378	0.949002	0.211958
OGN	0.418966	-0.19437	0.183016	0.222739	0.00131	0.155036	0.17698	0.098936	0.393861	-0.42637	0.442523	-0.03574	0.996618	0.001565	0.998832	0.406783

KU-MEL-3	0.030732	-0.02524	0.142079	-0.33287	0.822099	0.854875	0.296229	0.012185	0.155744	-0.27525	0.328595	-0.13063	0.84933	0.032054	0.986233	0.193437
FLJ25758	0.130877	0.160682	0.260009	0.022967	0.331852	0.236803	0.050787	0.86534	0.250837	-0.0313	0.125275	0.053547	0.953662	0.418191	0.79388	0.638117
TIFAB	-0.13013	0.0012	0.089595	0.07499	0.334658	0.992996	0.507472	0.579305	0.059707	-0.28737	-0.00644	-0.05649	0.653269	0.026407	0.483268	0.354623
OLR1	-0.02631	-0.18806	0.133929	-0.16352	0.845968	0.165144	0.3206	0.224205	0.007031	-0.33684	0.188874	-0.35144	0.518494	0.011039	0.892987	0.008311
OMG	0.088436	0.047049	0.150463	-0.04064	0.516892	0.733029	0.268343	0.766172	0.198297	-0.3397	0.162794	-0.38722	0.904189	0.011215	0.854476	0.004296
OMP	-0.21812	0.010229	0.074124	-0.28648	0.103109	0.940355	0.583707	0.030734	-0.1719	-0.17599	-0.02404	-0.2093	0.126662	0.121012	0.437711	0.081356
OPA1	-0.03659	0.389211	-0.27285	0.179889	0.787008	0.003029	0.040025	0.180573	0.080917	0.46975	-0.13534	0.303658	0.703529	0.999506	0.187698	0.979893
C18orf32	-0.05374	0.081644	-0.08123	-0.02479	0.691368	0.549712	0.548033	0.854774	-0.12458	-0.05574	-0.00134	0.031129	0.204708	0.356469	0.496509	0.581357
OPCML	0.024206	-0.11085	0.224861	-0.0372	0.859442	0.420401	0.09568	0.785454	0.216712	-0.4332	0.315988	-0.27772	0.923627	0.001477	0.981671	0.032368
ATP5A1	0.108381	0.176856	-0.19109	0.235013	0.426556	0.196466	0.15832	0.081242	-0.24633	0.62169	-0.39228	0.457263	0.049447	0.999998	0.003847	0.9993
TNFRSF11B	0.400139	-0.23257	0.231095	-0.09763	0.002246	0.087514	0.086597	0.474082	0.423542	-0.37667	0.162331	-0.36904	0.998129	0.00538	0.853781	0.006303
OPHN1	0.148193	0.16338	0.045131	-0.14982	0.271274	0.228917	0.73887	0.265997	0.292978	-0.04042	0.134003	-0.05064	0.975922	0.394841	0.809918	0.369097
OPRD1	-0.08531	-0.08763	0.225866	-0.22559	0.528049	0.520751	0.091146	0.091557	0.10969	-0.35088	0.180062	-0.34536	0.76598	0.008404	0.881716	0.009369
ZNF295	0.003043	0.28337	-0.22541	0.116951	0.982245	0.034318	0.094857	0.390674	0.045774	0.364094	0.045334	0.336044	0.6187	0.993567	0.616272	0.988793
SCAPER	0.063165	-0.0417	-0.15147	0.100947	0.643734	0.762435	0.265121	0.459135	0.085746	0.047696	-0.0939	0.125477	0.712278	0.622149	0.272169	0.79426
WDR8	-0.10826	0.033843	-0.0769	0.139996	0.422776	0.804429	0.569635	0.298964	-0.28542	0.233195	-0.13058	0.10538	0.027256	0.940581	0.196282	0.757098
OPRK1	0.048912	-0.21248	0.223077	-0.12315	0.717865	0.115899	0.095321	0.361437	-0.00836	-0.36693	0.252696	-0.23628	0.47801	0.006065	0.953007	0.056952
CRNN	0.084176	0.066464	0.113403	-0.26502	0.537361	0.629717	0.405307	0.048389	0.125819	-0.30638	0.013767	-0.34871	0.79212	0.021552	0.535338	0.010174
CLDN20	0.003739	-0.12213	0.00778	-0.35518	0.977978	0.369894	0.954197	0.006705	-0.19473	-0.17402	0.00911	-0.23446	0.097347	0.123718	0.523682	0.058397
OPRL1	0.008983	-0.30249	0.141072	-0.32571	0.947126	0.023457	0.295229	0.013421	0.020086	-0.40806	0.220457	-0.34267	0.552704	0.002438	0.927197	0.009872
OPRM1	-0.06104	0.002597	0.168927	-0.12406	0.654946	0.984985	0.213283	0.362299	0.163509	-0.29205	0.033531	-0.20709	0.861212	0.024452	0.586544	0.083652
SIX6	-0.02159	-0.20919	0.183059	-0.09705	0.87334	0.121799	0.172883	0.472631	0.070348	-0.36978	0.134389	-0.24156	0.67888	0.005714	0.810609	0.052909
OR1D2	-0.08131	0.019266	0.062086	-0.23352	0.547678	0.887921	0.646381	0.080425	0.111119	-0.4601	0.08215	-0.35116	0.768887	0.000647	0.704187	0.008359
OR1F1	0.085883	-0.05612	0.212328	-0.15366	0.529112	0.684024	0.116171	0.258197	0.09108	-0.25108	0.07617	-0.30993	0.72641	0.046176	0.690515	0.018037
OR2C1	-0.02639	-0.09552	0.152423	-0.2401	0.846908	0.487863	0.262087	0.07468	0.079252	-0.4673	0.218808	-0.32075	0.699703	0.00053	0.92564	0.014878
OR3A1	0.113991	-0.17063	0.214005	-0.10544	0.398502	0.208637	0.109934	0.435035	-0.14156	-0.18726	0.029711	-0.03057	0.174021	0.106351	0.576812	0.420083
OR3A2	0.043259	-0.28347	0.082074	-0.11196	0.74934	0.034254	0.543891	0.407025	0.127595	-0.35435	0.138003	-0.26166	0.800955	0.007843	0.817012	0.039497
ORC1L	-0.01588	0.190511	-0.12031	-0.28369	0.907543	0.163556	0.377101	0.03411	-0.0599	0.26943	-0.08802	0.168493	0.346251	0.964908	0.282658	0.868504
ORC2L	0.008258	0.313217	-0.23225	0.233073	0.951388	0.018747	0.082133	0.08102	0.173964	0.468577	-0.13936	0.28181	0.876211	0.999489	0.180612	0.971111
ACO2	-0.04138	0.160343	-0.20011	0.085948	0.759913	0.237804	0.135584	0.524976	-0.28059	0.631369	-0.28553	0.404945	0.029456	0.999999	0.028632	0.997377
ORC4L	-0.07063	0.100506	-0.22718	-0.02217	0.601591	0.461108	0.089237	0.869996	-0.08121	0.136169	-0.02639	0.109474	0.295805	0.816562	0.431689	0.76554
ORC5L	-0.00903	0.252366	-0.30391	0.230842	0.946835	0.060595	0.021547	0.084055	-0.03608	0.467242	-0.18787	0.356596	0.405916	0.999469	0.108257	0.992504
SLC22A18	-0.0654	0.016408	-0.05722	-0.20799	0.628861	0.904461	0.672434	0.120538	-0.31485	0.175928	-0.14521	0.004057	0.016536	0.878902	0.170621	0.510675
SLC22A18A	0.065164	-0.05229	0.167602	-0.32535	0.630098	0.701895	0.212701	0.013531	0.065375	-0.10866	0.049708	-0.14943	0.667004	0.236132	0.627132	0.1608
ORM1	-0.03053	-0.03171	0.155817	-0.21229	0.821659	0.816524	0.247101	0.11289	-0.04121	-0.4993	-0.04246	-0.37257	0.392848	0.000206	0.390907	0.005388
ORM2	-0.05811	-0.14699	-0.05944	-0.14587	0.670525	0.279675	0.663428	0.283391	0.088451	-0.37831	0.23127	-0.27004	0.720571	0.004766	0.936813	0.034764
OSBP	0.045579	0.029931	-0.06662	0.037856	0.736371	0.826665	0.622441	0.779803	-0.07449	0.350071	-0.12957	0.228495	0.311362	0.99146	0.198139	0.936665
OSM	-0.01371	-0.28269	0.230439	-0.28613	0.919376	0.03477	0.084613	0.03095	0.22358	-0.49765	0.295528	-0.51179	0.932365	0.000217	0.975635	0.000139
OTC	0.110327	-0.07408	0.305803	-0.21653	0.413932	0.587389	0.020705	0.105709	-0.02462	-0.15453	-0.04896	-0.14427	0.435488	0.152581	0.374717	0.169389
ALDH7A1	0.180288	0.162105	-0.214	0.122989	0.179592	0.232619	0.109951	0.362062	0.03042	0.311061	-0.12451	0.35644	0.579528	0.982318	0.207553	0.99248
CLDN11	0.245184	-0.203	0.276789	0.321053	0.066024	0.133489	0.03713	0.01489	0.257085	-0.07628	0.210327	-0.01304	0.957716	0.307177	0.917246	0.465722
OTX1	-0.06866	0.194266	0.001446	-0.16776	0.611802	0.151379	0.991485	0.212255	-0.16413	0.286947	0.002745	0.030613	0.137863	0.973412	0.50714	0.580025
OTX2	-0.01162	-0.22767	0.152706	-0.20408	0.931616	0.091504	0.256781	0.127828	0.032759	-0.41306	0.071519	-0.39217	0.585556	0.002165	0.6797	0.003514
OVGP1	-0.12069	0.073259	-0.15204	0.102825	0.371176	0.591561	0.258897	0.446579	-0.15527	0.102699	-0.0656	-0.14495	0.151417	0.751485	0.334285	0.168248
OVOL1	-0.04296	0.343116	0.071177	-0.19225	0.753212	0.010331	0.602166	0.155762	-0.01993	0.432903	-0.1844	0.06837	0.447713	0.998672	0.112641	0.674176
OXA1L	-0.12979	0.312436	-0.25275	0.394186	0.340393	0.020215	0.060193	0.002647	0.02079	0.629421	-0.29427	0.42501	0.554539	0.999999	0.024873	0.998381
OXCT1	0.261297	0.19507	-0.10191	0.300103	0.049611	0.149662	0.450652	0.023324	0.06446	0.475851	-0.13406	0.444332	0.663007	0.999523	0.192805	0.998885
OXT	-0.02758	-0.08138	0.265521	-0.13931	0.838644	0.551003	0.04591	0.301356	0.159438	-0.284	0.141896	-0.33128	0.855061	0.02789	0.823762	0.012258
OXTR	-0.21591	-0.11411	0.037741	-0.31394	0.106734	0.402387	0.780458	0.017401	-0.25379	-0.32592	-0.03069	-0.34203	0.044389	0.013539	0.420699	0.009994
P2RX1	0.160179	-0.36701	0.269238	0.307668	0.233953	0.005398	0.042844	0.019903	0.021422	-0.35544	0.150181	-0.18352	0.555541	0.008285	0.834733	0.113766

P2RX3	0.087066	-0.04148	0.230214	-0.17364	0.51958	0.761507	0.084926	0.196448	0.180492	-0.41396	0.297869	-0.28443	0.885	0.002119	0.976556	0.027696
P2RX4	-0.17766	0.088686	0.101908	0.183904	0.190208	0.519655	0.454849	0.174851	-0.15219	0.07535	-0.04659	0.212843	0.156326	0.69065	0.380597	0.922221
P2RX5	-0.18608	-0.30635	0.091531	0.357169	0.165772	0.021656	0.498307	0.006383	-0.04239	-0.13997	0.169012	-0.19899	0.391094	0.179563	0.863622	0.095023
P2RX7	0.176647	-0.08045	0.246833	0.310856	0.188687	0.555593	0.064167	0.018595	0.153118	-0.17213	0.260552	0.022999	0.842353	0.1291	0.9562	0.559601
P2RY1	0.052213	0.458144	-0.1767	-0.08689	0.702333	0.000436	0.192665	0.524258	-0.02149	0.63252	-0.21282	0.262639	0.443648	0.999999	0.08022	0.961082
P2RY2	-0.09806	0.351098	-0.13324	0.068439	0.472139	0.008582	0.327584	0.616237	-0.18789	0.558159	-0.39781	0.267897	0.105571	0.999972	0.003403	0.964071
P2RY4	0.010719	-0.33815	0.234817	-0.07296	0.936923	0.010804	0.078709	0.589651	0.095022	-0.42748	0.281768	-0.30495	0.73505	0.001522	0.969615	0.019664
P2RY6	-0.21513	0.075795	0.056321	0.022817	0.10804	0.578757	0.677321	0.866216	-0.02939	-0.08453	-0.0068	-0.18952	0.423132	0.288241	0.482332	0.103567
P2RY11	0.061821	-0.27074	0.148016	-0.15841	0.647787	0.043568	0.271855	0.239216	-0.08313	-0.11222	-0.01191	-0.14909	0.291406	0.22888	0.469061	0.161357
P4HA1	-0.08957	0.107766	-0.16165	-0.02772	0.511509	0.433545	0.23394	0.839318	0.026617	-0.00708	0.078893	0.041793	0.56969	0.481368	0.696773	0.608639
P4HB	0.034181	0.248761	-0.04132	0.147934	0.802518	0.067042	0.762398	0.276564	0.025509	0.477949	-0.21659	0.287012	0.566816	0.999609	0.076497	0.97344
MS4A13	-0.05581	-0.17169	0.128807	-0.23117	0.68008	0.205768	0.339622	0.083599	0.105915	-0.36558	-0.05565	-0.27057	0.758209	0.006237	0.358263	0.034478
SPRN	0.1085	-0.05012	0.306928	-0.19608	0.421754	0.713738	0.020218	0.143791	0.237739	-0.41716	0.294837	-0.36637	0.94419	0.001962	0.975358	0.006136
ARGFX	-0.05593	-0.16978	-0.02302	-0.32102	0.682226	0.215259	0.866271	0.015851	-0.03	-0.38849	0.204836	-0.27071	0.421564	0.003815	0.911456	0.034403
PA2G4	-0.1747	0.143415	-0.23914	0.102329	0.193683	0.291666	0.073209	0.448785	-0.06433	0.298478	-0.30567	0.290208	0.335502	0.97804	0.020579	0.974794
PEBP1	0.200721	-0.11058	0.039908	-0.03789	0.134362	0.417195	0.768191	0.779597	0.163715	-0.2159	-0.05426	-0.24603	0.861518	0.074779	0.361656	0.049657
DPRX	0.028114	-0.03558	0.219047	-0.29841	0.835543	0.794595	0.101614	0.024155	0.101314	-0.35148	0.111842	-0.30996	0.748559	0.008304	0.767747	0.018026
DUXA	0.061623	-0.33436	0.020538	-0.20422	0.651867	0.012597	0.880576	0.131101	-0.09559	-0.27694	0.143962	-0.14896	0.266105	0.032761	0.824413	0.164384
PABPC3	-0.03478	0.252191	-0.0873	-0.13103	0.797291	0.06078	0.518436	0.331276	0.23175	0.159004	0.142666	-0.07671	0.939397	0.854394	0.825078	0.306172
FURIN	0.145229	-0.1577	0.149323	0.047769	0.281083	0.245723	0.267596	0.724193	0.354175	-0.13891	0.052228	-0.16089	0.99213	0.178615	0.633347	0.142724
PCSK6	-0.02374	-0.19497	0.197163	-0.10707	0.860876	0.149871	0.14155	0.42792	0.013803	-0.212	0.060146	-0.02195	0.536272	0.078618	0.652645	0.442426
PAEP	0.013177	-0.17186	0.286831	-0.07934	0.922499	0.205337	0.030523	0.557438	-0.01953	-0.21143	0.10632	-0.2314	0.448739	0.079196	0.756511	0.060893
PAFAH1B1	0.081825	0.202309	-0.212	0.137421	0.545115	0.134834	0.11338	0.308028	0.030051	0.331798	-0.05909	0.257307	0.578577	0.98786	0.349896	0.957855
RRM2B	0.01226	0.03379	-0.15525	-0.03533	0.927878	0.80473	0.248844	0.794173	-0.08192	0.085711	0.036098	0.040737	0.294168	0.714428	0.593056	0.605958
SMARCAL1	0.009196	0.21317	-0.08962	-0.03632	0.946371	0.118142	0.51129	0.790405	-0.23669	0.561256	-0.08073	0.375558	0.058743	0.99997	0.30121	0.994493
GOS2	0.124156	-0.3374	0.077871	-0.117	0.357491	0.010991	0.564777	0.386087	0.125436	-0.47144	0.346965	-0.30855	0.796907	0.000471	0.99023	0.018477
PLA2G3	-0.1463	-0.13966	0.092223	-0.22902	0.277499	0.30463	0.49505	0.086597	0.058073	-0.18141	-0.04017	-0.14072	0.649272	0.113802	0.396665	0.175464
MINK1	-0.00505	0.058409	-0.03604	-0.00614	0.970277	0.668945	0.790098	0.963852	-0.03362	0.364836	-0.13468	0.234356	0.412231	0.993665	0.188865	0.941519
CD207	-0.11716	-0.04384	-0.11778	-0.22249	0.385414	0.748362	0.382917	0.096224	-0.24918	0.060023	-0.12391	0.074008	0.047462	0.65404	0.208696	0.68751
PAFAH1B2	0.088574	0.128332	-0.24523	0.263161	0.512343	0.345887	0.065974	0.047949	-0.11384	0.493313	-0.26538	0.480273	0.225638	0.999753	0.039047	0.999635
PAFAH1B3	-0.08357	0.036609	0.090126	-0.17102	0.536541	0.7888	0.50495	0.203393	-0.09525	0.144853	-0.04811	0.049325	0.264458	0.831593	0.376825	0.627611
DUOX2	-0.22284	0.367208	-0.20554	0.266725	0.095682	0.00537	0.125078	0.044898	-0.12637	0.616551	-0.24999	0.431518	0.201333	0.999997	0.048842	0.998624
NOX4	0.119391	-0.13576	0.119315	0.002132	0.37638	0.318443	0.376689	0.987439	0.256031	-0.442	0.215798	-0.3278	0.957052	0.001051	0.922736	0.013078
NOX3	0.018885	-0.16269	0.143293	-0.36376	0.889108	0.230906	0.287614	0.005411	0.033536	-0.43442	0.219703	-0.38283	0.587554	0.001278	0.926488	0.004321
COL5A3	-0.00598	-0.23424	0.235105	-0.0978	0.964781	0.082277	0.078332	0.469225	0.166232	-0.44008	0.226817	-0.32448	0.865229	0.001105	0.932976	0.0139
PAFAH2	-0.0498	0.324606	-0.12642	-0.137	0.715474	0.015609	0.353179	0.313995	-0.10289	0.277721	-0.18209	0.014608	0.248123	0.969168	0.115621	0.538381
SYCP3	-0.00924	-0.30592	0.041192	-0.21079	0.945588	0.02185	0.76095	0.1155	0.23783	-0.39823	0.281127	-0.29059	0.942162	0.003371	0.967741	0.026402
PODXL2	0.09379	-0.25895	0.285883	-0.01233	0.487716	0.053965	0.031102	0.92749	0.132889	-0.34748	0.187642	-0.33328	0.81068	0.008987	0.891458	0.011808
Dec-01	0.062066	-0.18185	0.023769	-0.16341	0.649524	0.183932	0.861954	0.228833	0.110341	-0.24513	0.056567	-0.15192	0.764721	0.052294	0.642336	0.159577
CHST11	-0.04751	-0.33696	0.165001	0.286903	0.725654	0.011102	0.219987	0.03048	-0.06263	-0.51526	0.071789	-0.30878	0.339611	0.000124	0.680332	0.018401
PRDX1	-0.08853	0.393472	-0.2954	-0.1365	0.512542	0.002699	0.025689	0.311324	-0.16529	0.291863	-0.17416	0.176423	0.138945	0.974135	0.129107	0.876832
PAH	0.170961	-0.23701	0.176317	-0.38488	0.203546	0.078611	0.189528	0.003115	0.037112	-0.3501	0.144239	-0.40513	0.595622	0.009197	0.82488	0.002884
SERPINE1	0.084791	-0.07899	0.081532	0.018229	0.530591	0.562793	0.546563	0.892935	0.178124	-0.17932	0.141191	-0.21057	0.881862	0.116551	0.822551	0.080058
SERPINE2	0.039336	0.397128	-0.25079	-0.28079	0.771425	0.002441	0.059881	0.034372	-0.04119	0.573215	-0.12238	0.287777	0.392893	0.999984	0.2116	0.973769
PAK1	0.115931	0.163318	-0.06435	0.004342	0.394851	0.229095	0.637523	0.974662	-0.17675	0.306964	-0.07725	0.313209	0.122721	0.979869	0.309087	0.981913
ATP5B	0.040668	0.250687	-0.24803	0.226799	0.766015	0.064887	0.065309	0.09278	-0.15761	0.645853	-0.28864	0.453633	0.147759	0.999999	0.027243	0.999228
IL20	-0.21521	0.171676	-0.17521	-0.18302	0.111188	0.210109	0.196507	0.176973	-0.08479	-0.18967	-0.24997	-0.19375	0.287658	0.103385	0.048851	0.098491
UBQLN3	-0.04331	-0.1923	0.177053	-0.14559	0.749025	0.155639	0.187657	0.279868	-0.02457	-0.27562	0.076114	-0.18935	0.435621	0.031871	0.690386	0.103772
GALNT9	-0.06242	-0.27005	0.145922	-0.16617	0.64462	0.044133	0.27877	0.216687	0.053922	-0.5075	0.235697	-0.35413	0.639046	0.000159	0.940462	0.007878
IL21R	-0.1063	-0.213	0.24667	0.321535	0.431277	0.114996	0.064348	0.014732	-0.04587	-0.28954	0.158089	-0.07569	0.381051	0.025485	0.850176	0.308562

IL22	0.212097	-0.18343	0.236286	-0.33083	0.116577	0.180083	0.079561	0.012759	0.230555	-0.40424	0.191681	-0.33219	0.936208	0.002943	0.893702	0.012893
ATP6VOA4	-0.06466	-0.01152	0.09519	-0.14099	0.632745	0.932839	0.481216	0.295505	-0.31574	-0.23687	0.066794	-0.08977	0.016277	0.056486	0.668562	0.276501
ITSN2	0.093845	0.088571	-0.1771	0.264736	0.487462	0.516251	0.18754	0.04658	0.18128	0.087401	0.080438	0.058507	0.88603	0.718225	0.700299	0.650334
DEF6	0.04974	-0.11275	0.152176	0.103414	0.713291	0.408036	0.258456	0.443964	-0.07545	0.004776	-0.05493	-0.05097	0.309107	0.512564	0.360036	0.368296
PAK2	-0.08271	0.348564	-0.24773	0.07718	0.540785	0.008471	0.063171	0.568243	0.044953	0.332401	-0.11139	0.211415	0.616631	0.987996	0.233167	0.920793
CUZD1	0.031056	-0.13732	0.050005	-0.068	0.818615	0.312869	0.71183	0.615236	-0.04156	-0.10572	0.048599	-0.20005	0.391951	0.242206	0.624388	0.091271
CYHR1	-0.13843	-0.23588	0.219953	-0.12837	0.304442	0.080097	0.100172	0.341275	0.000931	-0.25989	0.030946	-0.22314	0.502449	0.040558	0.579962	0.06803
GEMIN4	-0.00142	0.189157	-0.07196	0.102172	0.991612	0.162644	0.594752	0.449486	-0.12936	0.440539	-0.28719	0.263592	0.195772	0.998908	0.027887	0.961638
PAK3	0.214878	-0.37236	0.167904	0.14137	0.108457	0.004713	0.211866	0.294201	0.387322	-0.54376	0.438728	-0.28712	0.996085	4.70E-05	0.998714	0.026515
CALY	-0.07482	-0.00953	0.167509	-0.10869	0.580186	0.944444	0.212959	0.420947	-0.04428	-0.2998	0.052234	-0.32749	0.385073	0.021474	0.63336	0.013152
ANO7	-0.03717	-0.08418	0.270466	-0.21644	0.783712	0.537348	0.041868	0.105856	0.150996	-0.44195	0.214431	-0.379	0.84175	0.001052	0.92139	0.004695
PALM	0.044824	-0.14156	0.177097	-0.10086	0.740583	0.29802	0.187545	0.455364	0.074849	-0.06996	0.062844	-0.11893	0.689479	0.322049	0.65914	0.215575
PNPLA8	0.029641	0.262645	-0.21273	0.17314	0.826748	0.050512	0.112116	0.197756	0.173377	0.311769	-0.05072	0.207284	0.8754	0.982537	0.370368	0.916551
ARHGEF4	0.035552	0.109065	-0.07229	-0.35837	0.792897	0.423624	0.59305	0.006195	-0.05151	0.221379	-0.15746	-0.06484	0.366938	0.930371	0.150803	0.334287
ARHGEF3	-0.12316	0.441166	-0.34525	0.27689	0.3614	0.000666	0.008532	0.037058	-0.04214	0.581709	-0.1476	0.394892	0.390489	0.999989	0.16663	0.996696
SLC45A1	0.085167	-0.14905	0.255957	-0.09432	0.528762	0.272928	0.054635	0.485273	0.096742	-0.26599	0.129712	-0.30338	0.738777	0.036992	0.802127	0.020202
PAM	0.100056	-0.06337	0.00667	0.231907	0.463125	0.64579	0.961086	0.085464	0.219063	0.137722	0.052152	0.050775	0.928225	0.819307	0.63316	0.63123
CNTN3	0.007443	-0.06671	0.072789	-0.25078	0.956181	0.625204	0.590518	0.059896	-0.0101	-0.32813	0.071674	-0.22874	0.473447	0.012997	0.680064	0.06313
NEUROG3	-0.11458	-0.16435	0.241366	-0.12491	0.396071	0.226116	0.07049	0.354539	-0.13917	-0.36092	0.059149	-0.42387	0.180953	0.00743	0.648542	0.001856
REG3A	0.126839	-0.04716	0.181325	-0.22307	0.351576	0.732417	0.181083	0.098427	0.111274	-0.32936	0.150746	-0.25529	0.7692	0.012705	0.838533	0.043417
PAPPA	-0.01377	0.226779	-0.14699	0.447915	0.919774	0.095917	0.279672	0.000537	0.266297	0.012669	0.123976	0.135337	0.961485	0.532914	0.788662	0.812301
RDH8	0.001552	-0.13353	0.224596	-0.15835	0.990857	0.326555	0.09303	0.2394	0.09535	-0.23999	0.174754	-0.30377	0.735762	0.054084	0.874548	0.020069
PARK2	0.008628	-0.0086	0.254049	0.149217	0.949211	0.949813	0.056527	0.267939	0.214345	-0.3628	0.235299	-0.27683	0.923704	0.006607	0.940141	0.031269
WDR42A	-0.06491	0.066254	-0.1145	0.032131	0.634604	0.630804	0.400744	0.814142	0.153943	-0.0223	-0.03125	-0.12216	0.846482	0.441518	0.419251	0.209335
PARN	0.108732	0.209691	-0.07421	0.117224	0.420753	0.12088	0.583273	0.385167	0.089925	0.211818	-0.043	0.22245	0.723853	0.921198	0.389571	0.931347
PAWR	-0.00794	0.411169	-0.2567	-0.14406	0.95324	0.001644	0.053912	0.285017	0.186052	0.459306	-0.02838	0.227719	0.889463	0.999248	0.427438	0.933766
PAX1	-0.06923	-0.09003	0.209167	-0.12276	0.612139	0.513336	0.121832	0.367399	0.095275	-0.31572	0.128475	-0.33026	0.733212	0.017314	0.797048	0.013356
PAX2	-0.04817	-0.22593	0.214303	-0.19864	0.721977	0.094066	0.109428	0.138539	0.031413	-0.46761	0.126814	-0.32303	0.582088	0.000525	0.796763	0.014274
PAX3	-0.00981	-0.03601	0.109271	-0.23659	0.942808	0.794076	0.422744	0.079167	-0.01272	-0.34006	0.055447	-0.37754	0.466563	0.010381	0.641236	0.004846
PAX4	0.004279	-0.07272	0.224864	-0.17168	0.975029	0.597746	0.095675	0.205801	0.155788	-0.29705	0.19328	-0.2565	0.849398	0.022494	0.898333	0.042651
PAX5	-0.16718	-0.29968	0.076197	-0.02072	0.218117	0.026227	0.576737	0.879545	-0.06937	-0.50234	0.081639	-0.40471	0.325339	0.000219	0.700843	0.002912
PAX6	0.022194	0.112542	0.018121	-0.28598	0.871023	0.413317	0.894542	0.032626	0.034716	-0.23483	0.055196	-0.27824	0.590583	0.058098	0.640622	0.030579
KCNK4	-0.02457	-0.12921	0.316062	-0.08709	0.85605	0.342569	0.016616	0.519458	-0.0285	-0.2875	0.024717	-0.33103	0.425443	0.026351	0.564018	0.012316
MYEF2	0.062578	-0.26319	0.212729	-0.20042	0.643768	0.05002	0.112121	0.134951	0.053136	-0.45893	0.176925	-0.29217	0.6371	0.000668	0.877514	0.024403
IRX4	0.02157	-0.15547	0.262882	-0.23132	0.873461	0.252547	0.048195	0.0834	0.117811	-0.42979	0.326393	-0.42367	0.782235	0.001437	0.985673	0.001673
ASAP1	0.251301	0.008007	0.049317	0.435397	0.059345	0.953298	0.715626	0.000712	0.419488	-0.04756	0.187659	0.119978	0.998146	0.376823	0.891479	0.786464
AK3	-0.019	0.445567	-0.36419	0.216629	0.888412	0.000579	0.005353	0.105542	0.043463	0.549385	-0.13434	0.374207	0.61287	0.999962	0.189483	0.994796
HP1BP3	0.217542	0.332057	-0.12545	0.343595	0.104045	0.012411	0.352466	0.008875	0.329598	0.449286	-0.0765	0.375646	0.987351	0.999132	0.30873	0.994953
PAX7	-0.05855	-0.12722	0.147222	-0.11219	0.665267	0.350103	0.274463	0.40606	0.059751	-0.22544	0.067933	-0.2145	0.653376	0.065984	0.67126	0.076148
HDGFRP3	0.081742	0.097883	-0.1315	0.021497	0.545527	0.472947	0.329553	0.87389	0.215564	0.040425	0.249975	0.167001	0.924892	0.605165	0.95115	0.866348
COPS7A	0.022205	0.254395	-0.16482	0.021022	0.869769	0.058485	0.220504	0.876653	-0.18003	0.617509	-0.13515	0.341051	0.115614	0.999998	0.188029	0.989816
NSDHL	-0.10796	0.27441	-0.20267	-0.25188	0.428357	0.042617	0.134131	0.061114	-0.35093	0.515151	-0.23938	0.331273	0.008396	0.999876	0.056627	0.98774
PDCL	0.031469	0.279664	-0.24303	0.204869	0.81791	0.038652	0.071107	0.129864	-0.07309	0.442562	-0.12126	0.335279	0.314636	0.998964	0.213752	0.98863
PAX9	0.083069	0.404319	-0.08875	0.044324	0.542749	0.002202	0.515388	0.745657	-0.02972	0.743088	-0.30907	0.451107	0.422266	1	0.019422	0.999174
TAS2R3	0.053869	0.236997	-0.09338	0.17182	0.690647	0.078633	0.489617	0.201249	0.220358	0.211067	-0.14932	0.034137	0.929432	0.920442	0.163793	0.589098
TAS2R4	0.052236	0.252633	-0.07757	0.081176	0.699569	0.060314	0.5663	0.548322	0.105386	0.146009	-0.10983	0.137743	0.75711	0.833535	0.23632	0.819345
TAS2R16	-0.08129	0.204474	-0.08445	-0.31016	0.547768	0.130622	0.532226	0.018873	0.02348	-0.21129	-0.0032	-0.28271	0.561545	0.079331	0.491677	0.028473
TAS2R1	0.054103	-0.02062	0.14311	-0.16605	0.689369	0.880122	0.288236	0.217037	0.015585	-0.2908	0.015318	-0.17933	0.540939	0.02496	0.539777	0.116527
TAS2R9	0.032687	-0.07387	0.006594	-0.18484	0.809263	0.588463	0.961176	0.168679	0.048122	-0.21033	0.086246	-0.24177	0.624599	0.080303	0.713393	0.052751
TAS2R8	0.000246	0.02724	0.060429	-0.17721	0.998562	0.843502	0.658191	0.191353	0.156362	-0.22847	0.262357	-0.26134	0.847487	0.065579	0.957326	0.041454

TAS2R7	-0.04313	0.030449	0.085892	-0.25194	0.752291	0.825341	0.529071	0.061043	0.135727	-0.29425	0.077825	-0.28686	0.815776	0.023573	0.694325	0.026625
TAS2R13	0.113539	0.133547	-0.11751	0.051387	0.400386	0.326475	0.384018	0.70423	0.171947	0.19579	-0.27008	0.133622	0.870643	0.901293	0.038109	0.809233
TAS2R10	0.061362	-0.04925	-0.02632	-0.01216	0.650233	0.718486	0.845898	0.928442	0.15357	-0.25081	0.244532	-0.08366	0.845888	0.046358	0.947265	0.290207
TAS2R14	0.145322	0.078609	-0.09469	0.095933	0.280772	0.564698	0.483553	0.477781	0.195031	0.099696	-0.16474	-0.03399	0.900405	0.742667	0.142614	0.412282
DHH	0.037852	-0.14162	0.267975	-0.14899	0.779829	0.297808	0.043866	0.268691	0.173697	-0.43343	0.198475	-0.30252	0.875842	0.001311	0.904392	0.020502
F11R	-0.14708	0.345361	-0.31011	-0.06331	0.274915	0.009137	0.018893	0.639906	-0.16968	0.556408	-0.2332	0.286128	0.132572	0.999964	0.063828	0.971639
TRAT1	-0.05609	-0.24246	-0.04734	0.434551	0.678568	0.071795	0.72658	0.000731	-0.0829	-0.30869	0.024281	-0.08671	0.294114	0.019547	0.562159	0.285571
VILL	-0.23419	0.235379	-0.22696	-0.23263	0.079528	0.080756	0.089546	0.08162	-0.36833	0.428604	-0.35757	0.13362	0.005891	0.99852	0.007943	0.812001
C6orf48	0.162211	0.226616	-0.19426	0.299394	0.227997	0.093052	0.147631	0.023668	0.241716	0.334175	-0.16195	0.202205	0.94721	0.98839	0.14393	0.911114
PARD6A	0.023939	-0.19093	0.226326	-0.21576	0.859701	0.15866	0.090472	0.106983	0.078372	-0.49763	0.123128	-0.36359	0.697672	0.000217	0.789821	0.0065
CLEC4A	-0.05582	-0.12623	-0.06278	0.255638	0.680053	0.353897	0.642686	0.054947	-0.16332	-0.23899	0.136783	-0.16647	0.141865	0.056928	0.812021	0.137211
SPOCK3	0.305885	-0.24881	-0.02306	-0.01367	0.020669	0.064437	0.8648	0.91962	-0.24387	0.388524	-0.01583	0.417324	0.05322	0.995824	0.459384	0.997829
STMN3	0.024778	-0.16576	0.166971	-0.11232	0.856159	0.226483	0.218708	0.409851	0.147629	-0.19445	0.008697	-0.27489	0.836232	0.097673	0.522609	0.032238
RNF141	-0.0349	0.392738	-0.25256	0.13509	0.796612	0.002753	0.058045	0.316385	-0.09568	0.530447	-0.32325	0.29399	0.263519	0.999925	0.015159	0.976324
NTM	0.099621	-0.15938	0.060885	0.15942	0.46094	0.240685	0.652778	0.236205	0.299048	-0.36047	0.260622	-0.4347	0.97825	0.00693	0.958107	0.001269
HEBP1	0.289186	0.038762	0.05128	0.215559	0.030643	0.778731	0.707409	0.110592	0.370386	0.091455	0.028555	0.037037	0.994358	0.727237	0.573856	0.596527
PBX1	0.305863	-0.01754	0.009352	-0.15164	0.020678	0.897899	0.944954	0.260167	0.229117	-0.07906	0.262072	0.031646	0.937194	0.300733	0.958992	0.582688
PBX2	-0.10671	-0.18026	0.036035	-0.05381	0.429481	0.183704	0.790149	0.690956	0.145849	-0.28509	0.100235	-0.18109	0.833267	0.027401	0.743807	0.114218
ATP5C1	0.075145	0.269252	-0.21417	0.234249	0.582027	0.04683	0.112968	0.082266	-0.08147	0.587346	-0.18445	0.398311	0.295203	0.999991	0.112577	0.996943
PBX3	0.181126	-0.33923	0.141063	0.045425	0.177542	0.010538	0.29526	0.737227	0.271413	-0.52319	0.25048	-0.31315	0.965967	9.55E-05	0.951499	0.017043
PC	0.117646	0.076961	0.077854	-0.1686	0.383448	0.572908	0.56486	0.209954	0.246902	-0.07612	-0.03954	-0.11108	0.950957	0.307546	0.398257	0.231195
PCBD1	-0.15544	0.307761	-0.14533	-0.20604	0.248254	0.02103	0.280737	0.124135	-0.12638	0.220488	-0.23787	0.13705	0.204053	0.927226	0.059991	0.815336
PCBP1	0.115191	0.135869	-0.24331	0.337822	0.39352	0.318056	0.068187	0.010169	0.008734	0.421244	-0.03707	0.366513	0.522969	0.998224	0.404492	0.993882
CDON	0.116946	0.061726	0.046762	-0.27979	0.386304	0.651322	0.729786	0.035045	0.120686	-0.282	0.126907	-0.28435	0.787836	0.0288	0.796936	0.027733
IMPG2	-0.16539	-0.19405	-0.11027	-0.24506	0.218886	0.151847	0.414179	0.066167	0.043948	-0.32686	0.162144	-0.15514	0.612812	0.014208	0.853498	0.154426
PCBP2	-0.12436	0.233768	-0.41946	0.213274	0.356697	0.082915	0.001163	0.111184	-0.02054	0.432089	-0.27098	0.205142	0.446113	0.998644	0.035893	0.914288
PDE11A	0.051481	-0.08221	0.077013	-0.26815	0.703713	0.546939	0.569084	0.043726	0.151758	-0.46607	0.150292	-0.42486	0.842983	0.000548	0.837794	0.001625
FOXP3	0.014993	-0.21687	0.277076	-0.20944	0.911861	0.10839	0.036926	0.11792	-0.03907	-0.32836	0.116687	-0.20365	0.398275	0.012943	0.777372	0.087308
SHANK1	0.030786	-0.13359	0.255968	-0.13882	0.820167	0.326303	0.054625	0.303088	0.074619	-0.46801	0.191347	-0.33876	0.688941	0.000519	0.896012	0.010642
TBX22	0.104379	-0.18632	0.042417	-0.22218	0.4397	0.169149	0.754061	0.096697	0.120132	-0.39302	0.190091	-0.38851	0.786763	0.003447	0.894483	0.003813
PCCA	0.043366	0.14771	-0.05853	0.358462	0.748738	0.2773	0.665393	0.006181	0.169149	0.344663	-0.03366	0.239782	0.869446	0.990503	0.413118	0.945757
PCCB	0.112216	0.172384	-0.08636	0.028058	0.410272	0.208205	0.526813	0.837362	-0.19716	0.598742	-0.2266	0.382973	0.094532	0.999994	0.06722	0.995692
SOST	0.011899	-0.13116	0.266847	-0.11685	0.929998	0.33526	0.044796	0.386697	-0.04595	-0.35931	0.105809	-0.24566	0.380858	0.007096	0.755456	0.049924
PCDH1	-0.08044	-0.06759	0.080706	-0.28221	0.551976	0.620635	0.550644	0.033429	-0.11867	-0.17776	0.019367	-0.18374	0.216075	0.118621	0.550241	0.11079
PCDHGC3	0.207034	0.134592	0.027678	0.432725	0.122288	0.322671	0.838059	0.000774	0.300293	0.402953	-0.02222	0.398883	0.978704	0.997253	0.442411	0.996983
PCDH7	0.150725	-0.0112	0.044383	0.045428	0.263076	0.934735	0.743045	0.737211	0.079571	0.03254	0.060639	0.047551	0.700438	0.584992	0.653835	0.623166
TMED5	-0.01388	0.285001	-0.16294	0.371969	0.918366	0.033253	0.225889	0.004384	-0.05414	0.38173	-0.14323	0.37473	0.360424	0.995574	0.173956	0.994854
ACOX1	0.095602	0.103035	-0.19456	0.112245	0.483371	0.454115	0.150759	0.410152	-0.04149	0.412705	-0.2565	0.302974	0.392122	0.997816	0.044485	0.979656
PCDH8	-0.03552	-0.18319	0.222242	-0.17367	0.793102	0.176556	0.096599	0.196378	0.044442	-0.4366	0.135577	-0.34584	0.615341	0.001209	0.812729	0.009281
SLC35B3	-0.11198	0.265757	-0.14983	0.100477	0.40692	0.047743	0.265962	0.457079	-0.1433	0.330473	-0.09873	0.225597	0.171034	0.987556	0.259393	0.934156
MTERFD1	-0.07126	0.291075	-0.25843	0.186163	0.59839	0.029522	0.052262	0.165589	-0.07801	0.347587	-0.0973	0.274831	0.303175	0.991031	0.262431	0.967733
TPRKB	-0.11778	0.099595	-0.45897	0.101681	0.382915	0.4652	0.00033	0.451678	-0.23222	0.489107	-0.0737	0.356169	0.060212	0.999719	0.315203	0.992439
MED31	-0.15644	0.196628	-0.28142	-0.07172	0.245203	0.146372	0.03395	0.595984	-0.17168	0.267489	-0.13222	0.209087	0.126967	0.963846	0.1933	0.918423
COQ6	-0.08487	0.238423	-0.11186	0.146161	0.530212	0.076798	0.407452	0.277972	-0.03696	0.150133	-0.23813	0.003316	0.403682	0.840348	0.057601	0.508725
AMDHD2	0.007783	-0.0802	0.275243	-0.07223	0.954181	0.556807	0.038246	0.593363	0.108642	-0.21247	0.065075	-0.20409	0.763837	0.078148	0.664474	0.086837
SLC35C2	0.086636	0.02802	0.121532	0.117923	0.525495	0.839083	0.372253	0.386722	-0.00514	0.359564	-0.24692	0.212144	0.486475	0.992941	0.051005	0.921525
ASCC1	-0.10759	0.116428	-0.25682	-0.00524	0.429937	0.392811	0.056042	0.969427	-0.14748	0.212452	-0.16682	0.12261	0.164008	0.921833	0.136703	0.791537
DERL2	0.055256	0.202785	-0.14627	0.328317	0.683097	0.133899	0.277596	0.012654	-0.04925	0.524607	-0.22449	0.407743	0.372565	0.999909	0.069095	0.997544
PCDH9	0.181672	-0.32933	0.170536	-0.14366	0.176217	0.013194	0.204688	0.28638	0.382027	-0.55832	0.16249	-0.42158	0.995603	2.77E-05	0.85689	0.001762
EXOSC3	0.065839	0.213564	-0.17539	0.213533	0.626551	0.114012	0.191898	0.11074	0.113331	0.406165	-0.18461	0.369623	0.773347	0.997451	0.112366	0.994267

FAHD2A	-0.03309	-0.0305	0.022798	-0.1391	0.808698	0.82503	0.867542	0.306565	-0.03314	-0.05246	-0.25197	-0.30353	0.413464	0.364579	0.047481	0.020151
SLMO2	-0.15501	0.41597	-0.36803	0.15636	0.249595	0.00143	0.004854	0.245437	-0.16737	0.646853	-0.2538	0.418226	0.133113	0.999999	0.046257	0.998088
EXOSC1	-0.10798	0.310039	-0.25625	0.184429	0.424007	0.02005	0.054345	0.169635	-0.20137	0.48065	-0.27222	0.332204	0.089798	0.999639	0.035221	0.987952
TMED7	-0.03763	0.265197	-0.20978	0.184361	0.781061	0.048232	0.117306	0.169797	0.10721	0.384786	-0.07429	0.317987	0.76089	0.99586	0.313833	0.984364
ISOC1	0.037698	0.135372	-0.1634	0.11991	0.780697	0.319847	0.224545	0.374295	-0.13849	0.560031	-0.16921	0.357146	0.179353	0.999974	0.133241	0.992586
FAM158A	-0.11011	-0.14252	0.076007	-0.17851	0.419169	0.299287	0.57769	0.188061	-0.17301	-0.14761	-0.16251	-0.19559	0.12511	0.163801	0.143082	0.096345
RRP15	0.119486	0.087834	-0.26666	0.325092	0.376001	0.519764	0.044948	0.013608	0.017104	0.244729	0.02768	0.394334	0.544913	0.949413	0.571616	0.996654
CCDC53	-0.11163	-0.0778	-0.16852	0.06382	0.412735	0.572359	0.214394	0.640293	-0.00082	0.029061	0.008061	0.085363	0.497844	0.576019	0.520956	0.713643
HDDC2	0.11565	0.362878	-0.1523	0.200358	0.391624	0.005984	0.258067	0.135083	0.203954	0.532784	-0.03927	0.345776	0.913015	0.999931	0.398919	0.990707
MRPS16	-0.06942	0.307228	-0.26588	-0.02306	0.607862	0.021265	0.045605	0.86479	-0.226	0.523657	-0.39079	0.325396	0.065489	0.999906	0.003975	0.986331
GLRX2	-0.04769	0.195485	-0.01562	0.118951	0.724613	0.148779	0.908194	0.378154	-0.07722	0.284826	-0.33044	0.197595	0.304999	0.972481	0.013312	0.905963
MRPS18C	-0.06209	0.251624	-0.25646	0.1972	0.646369	0.061381	0.054149	0.141474	-0.05641	0.352252	-0.26443	0.211223	0.354822	0.991822	0.0396	0.9206
FIS1	-0.01096	-0.21036	0.114166	-0.09074	0.935492	0.119671	0.39777	0.502021	-0.18349	-0.17407	-0.08488	-0.05655	0.111113	0.123644	0.28967	0.354469
Magmas	0.021941	-0.10553	0.265423	-0.33406	0.871307	0.438892	0.045993	0.011096	-0.01445	-0.21003	0.062213	-0.25027	0.462027	0.080614	0.657624	0.04672
GOLT1B	-0.00138	0.303124	-0.17969	0.22604	0.991853	0.023151	0.181065	0.09089	0.0423	0.368399	-0.09688	0.295628	0.609923	0.994118	0.263331	0.976962
BOLA1	-0.10271	-0.06101	-0.10313	-0.0486	0.447109	0.655094	0.445207	0.719582	-0.13648	0.229962	-0.1961	0.019654	0.18289	0.937907	0.098343	0.551575
VPS36	-0.01886	0.322988	-0.26548	0.240609	0.889236	0.015184	0.045943	0.071404	-0.00341	0.514047	-0.20315	0.370507	0.491038	0.999871	0.090373	0.994372
PPPDE1	-0.13266	0.176125	-0.33905	0.210528	0.325248	0.194132	0.00988	0.115971	-0.16632	0.227524	-0.22187	0.246055	0.134647	0.935832	0.071488	0.95036
FAM18B	0.017471	0.142066	-0.13342	0.249283	0.897365	0.296274	0.322471	0.061486	-0.08354	0.28674	-0.04844	0.221971	0.290489	0.973322	0.375995	0.930912
GLOD4	0.001955	0.275457	-0.32053	0.041984	0.988487	0.0399	0.015062	0.756494	-0.29629	0.595715	-0.24909	0.348982	0.022785	0.999994	0.049469	0.991274
RP11-265F	0.112549	-0.20488	0.154615	-0.13124	0.404531	0.129844	0.250812	0.330509	0.025877	-0.39968	0.208193	-0.40044	0.567772	0.002963	0.91503	0.002912
UBXN1	-0.1041	-0.0389	-0.05796	-0.03567	0.440912	0.775922	0.668446	0.792206	-0.12865	0.05652	-0.1441	-0.19525	0.197082	0.645458	0.172493	0.096744
SERPINA5	0.169455	-0.14872	0.277435	-0.22377	0.207616	0.27398	0.036673	0.094273	0.325437	-0.42437	0.270865	-0.32043	0.986341	0.001644	0.964046	0.014963
ZNF593	-0.22424	-0.06119	-0.00086	0.049953	0.096621	0.654152	0.994978	0.714656	-0.00269	-0.17332	-0.03351	-0.23737	0.49291	0.124681	0.413501	0.056097
ZBTB7B	-0.06131	-0.02032	0.052266	0.010572	0.650505	0.881833	0.699409	0.937786	0.184259	0.002778	0.060285	-0.07729	0.88987	0.50731	0.652981	0.304836
ST8SIA3	-0.01872	-0.28103	0.094865	-0.19397	0.890083	0.035896	0.482722	0.148249	0.001858	-0.18573	0.077101	-0.11225	0.504833	0.11095	0.690564	0.231431
PCK1	0.151705	0.060385	0.219115	-0.17505	0.264368	0.661428	0.104695	0.196916	0.188082	-0.09333	0.238482	-0.26367	0.892006	0.270996	0.940497	0.040052
PI15	-0.05149	-0.11463	-0.11206	0.16926	0.706262	0.404668	0.410912	0.212368	0.071106	-0.12795	0.028886	-0.15681	0.678732	0.201129	0.573828	0.151818
PRLH	-0.09937	-0.06577	0.202542	-0.15823	0.462081	0.630098	0.130791	0.239753	0.265995	-0.34477	0.192567	-0.38769	0.963012	0.009476	0.897481	0.003883
GMNN	0.06174	0.053129	-0.26389	0.014113	0.651246	0.700063	0.049385	0.917778	-0.30945	0.603031	-0.48297	0.381686	0.018188	0.999995	0.000389	0.99557
PLEKHA9	0.148072	-0.07157	0.25669	0.002154	0.271671	0.60014	0.053922	0.987312	0.046428	-0.10775	0.330276	-0.02013	0.618998	0.240544	0.985723	0.447791
LAP3	-0.19561	-0.03876	-0.19244	0.495317	0.14851	0.778752	0.155339	0.000104	-0.38015	0.316429	-0.01487	0.407583	0.005458	0.981809	0.462298	0.996985
C2orf86	-0.10921	0.039424	-0.12455	-0.1544	0.418685	0.772981	0.355954	0.251478	-0.23122	0.005276	-0.00798	0.061138	0.061041	0.513879	0.479252	0.656754
ZNF691	-0.34676	0.096538	-0.05774	-0.13692	0.008228	0.479077	0.669652	0.30983	0.25885	-0.064	0.136926	-0.04497	0.957007	0.338095	0.812273	0.384647
FAM135B	0.06245	-0.04469	0.234301	-0.1935	0.644445	0.743634	0.079387	0.149241	-0.01573	-0.23431	0.13051	-0.25495	0.45869	0.058521	0.80359	0.04364
PCK2	-0.12051	0.033416	0.060229	0.130515	0.371896	0.80685	0.656283	0.333204	0.029173	0.084825	-0.08866	0.015474	0.576308	0.712428	0.281248	0.54065
TXNDC12	-0.13122	0.246882	-0.31935	0.15942	0.330562	0.066604	0.015462	0.236206	-0.22297	0.559089	-0.23264	0.463165	0.068185	0.999973	0.06204	0.999405
TXNDC11	-0.0254	0.272352	0.093038	0.395704	0.851204	0.042286	0.491227	0.002313	0.073436	0.575298	-0.15956	0.414192	0.686168	0.999986	0.147557	0.997893
ATL1	0.228065	-0.28473	0.018897	-0.1708	0.087957	0.03343	0.889041	0.203966	0.250657	-0.18148	0.298009	-0.11694	0.95354	0.113711	0.97661	0.21947
CALHM2	0.199357	-0.23829	0.397523	0.076085	0.137085	0.076968	0.002199	0.573764	0.233741	-0.41287	0.27317	-0.27426	0.941024	0.002175	0.965286	0.032557
RPS27L	0.156763	-0.08052	0.023121	0.183435	0.248583	0.558953	0.865686	0.175975	0.079592	-0.09421	-0.05177	0.09463	0.698371	0.269093	0.36929	0.731818
C3orf32	-0.16506	-0.00423	0.089554	-0.50408	0.219829	0.975336	0.507671	6.40E-05	-0.12923	-0.39482	0.071438	-0.35083	0.196019	0.00331	0.679511	0.008413
YARS2	0.023835	0.229436	-0.12748	0.085413	0.861576	0.091985	0.349123	0.531382	0.02274	0.540264	-0.16112	0.338352	0.55962	0.999947	0.145175	0.989275
NMD3	0.085834	0.244208	-0.25635	0.243493	0.525527	0.069703	0.05425	0.067973	0.16307	0.431545	-0.11857	0.355315	0.860558	0.998625	0.218947	0.992308
MRPL2	-0.05718	-0.03698	-0.01371	0.176642	0.672686	0.786703	0.919384	0.188699	-0.2164	0.520867	-0.24483	0.301224	0.074298	0.999897	0.052515	0.979039
NOSIP	-0.09969	-0.11819	0.066865	-0.1952	0.460641	0.385625	0.621174	0.145632	-0.09698	-0.28585	-0.01253	-0.35834	0.260716	0.027066	0.467452	0.007237
DERA	-0.11576	0.435709	-0.4206	0.15368	0.391153	0.00079	0.001124	0.253724	-0.2245	0.609841	-0.28833	0.477477	0.066816	0.999997	0.027382	0.999604
MRPL4	0.003201	0.205735	-0.06407	0.046599	0.981149	0.128215	0.635854	0.730689	-0.05952	0.351486	-0.01979	0.182468	0.347185	0.991696	0.448659	0.887573
APIP	0.093949	0.032995	0.067688	0.049682	0.486979	0.80924	0.616874	0.713615	0.105386	0.058831	-0.02267	-0.16326	0.757109	0.651127	0.441239	0.139152
TMX2	-0.10095	0.216708	-0.13508	0.151411	0.4591	0.112018	0.320912	0.265305	-0.07023	0.377714	-0.3069	0.44219	0.321388	0.995172	0.020155	0.998954

CUTC	0.038225	0.126678	0.018838	0.431585	0.777714	0.352192	0.889382	0.000802	-0.05137	0.115114	-0.21086	0.220819	0.367299	0.776908	0.082212	0.929857
FCF1	-0.01236	0.086287	-0.17305	-0.05814	0.92732	0.52717	0.197991	0.667496	-0.27027	0.289156	-0.13162	0.28604	0.03464	0.974355	0.194391	0.973017
THAP4	-0.03867	0.073735	-0.12968	-0.04193	0.77518	0.589149	0.336313	0.756802	-0.27243	0.449889	-0.20732	0.121673	0.0335	0.999146	0.085886	0.789738
NDUFA13	-0.0493	-0.12726	0.055834	-0.12331	0.715715	0.349951	0.679961	0.360813	-0.17103	-0.10963	-0.09091	-0.05643	0.127881	0.234135	0.276275	0.35476
PCM1	-0.07842	-0.04214	-0.11083	-0.05424	0.562007	0.757783	0.411778	0.688613	-0.12764	-0.08497	0.055877	-0.02749	0.198958	0.287244	0.642285	0.428052
MRPS7	-0.15331	0.171848	-0.23402	-0.09071	0.254897	0.205359	0.079762	0.502185	-0.31428	0.524674	-0.43042	0.2968	0.016706	0.999909	0.001582	0.97741
POLR1D	-0.09887	0.465845	-0.43444	-0.0065	0.464356	0.000297	0.000734	0.961714	0.014679	0.400377	-0.1124	0.246165	0.538568	0.997084	0.231143	0.950438
GAL	-0.11912	0.004014	0.134685	-0.10915	0.381884	0.976574	0.322331	0.423271	0.184762	-0.35296	0.289491	-0.32021	0.89051	0.008063	0.973125	0.015023
CRYL1	0.097336	-0.0914	0.040382	-0.01824	0.475433	0.502904	0.767613	0.89386	0.311548	-0.33139	0.101506	-0.21684	0.982469	0.012232	0.746488	0.073876
MLXIPL	-0.07582	-0.18102	0.162146	-0.10178	0.575099	0.181839	0.228183	0.451215	0.077003	-0.27469	0.050102	-0.20974	0.694499	0.032339	0.628107	0.080911
TNNI3K	0.275839	-0.05714	0.13998	-0.23052	0.037812	0.675751	0.29902	0.084505	0.283242	-0.51751	0.13219	-0.50947	0.971768	0.000115	0.806648	0.000149
YBX2	-0.00412	-0.14164	0.295702	-0.08291	0.975742	0.297746	0.025533	0.539782	0.014654	-0.41187	0.119246	-0.28483	0.538501	0.002228	0.782364	0.027519
KLHL5	-0.025	0.291431	-0.19546	0.131513	0.853563	0.029315	0.1451	0.329486	-0.13017	0.41068	-0.12893	0.333448	0.194285	0.997708	0.19932	0.98823
PLLP	-0.17615	0.009924	-0.0557	-0.11275	0.189953	0.942131	0.680659	0.403687	-0.26282	0.107699	-0.08369	0.122787	0.038813	0.761899	0.292341	0.791875
SEPSECS	-0.10013	0.137847	-0.27975	0.133743	0.458624	0.310997	0.035067	0.321279	-0.07855	0.264334	-0.12872	0.117838	0.301908	0.962066	0.199694	0.782288
SIDT2	-0.20452	0.041702	-0.09738	-0.10687	0.130527	0.762427	0.47524	0.433078	0.091768	-0.17219	-0.13357	-0.17252	0.727927	0.126258	0.190869	0.125789
C1orf66	-0.07592	0.072167	0.126357	-0.14051	0.578109	0.600561	0.353425	0.301645	-0.08853	0.027786	-0.1349	-0.13335	0.279242	0.572719	0.188475	0.188483
ADIPOR1	-0.14694	-0.03911	-0.24866	-0.17765	0.279847	0.776809	0.064607	0.190226	-0.07764	0.0007	-0.03219	-0.04171	0.306089	0.501819	0.417843	0.392784
TRNT1	-0.02985	0.246871	-0.10587	0.253292	0.825539	0.066617	0.433164	0.057292	0.114356	0.315516	-0.05854	0.21392	0.775398	0.983658	0.351246	0.923287
UTP18	-0.0286	0.385052	-0.32506	0.296429	0.832767	0.003386	0.013617	0.025156	0.083148	0.50745	-0.12443	0.344197	0.708624	0.999841	0.207703	0.990417
SCCPDH	-0.06869	0.034927	-0.10987	-0.1231	0.611635	0.798297	0.415874	0.361627	-0.19276	-0.03906	-0.03655	0.012252	0.099668	0.3983	0.405797	0.532205
IFT52	-0.16745	-0.10203	-0.1807	-0.15685	0.213133	0.454323	0.178594	0.243938	-0.30809	-0.0383	-0.02067	-0.05911	0.018623	0.40025	0.446384	0.348192
ABHD5	-0.14668	0.249608	-0.20563	0.168107	0.280717	0.066087	0.128416	0.215545	-0.17299	0.46293	-0.27841	0.132849	0.125137	0.999401	0.032024	0.810608
PCMT1	0.010962	0.196904	-0.38412	0.190548	0.935496	0.145795	0.003179	0.155672	-0.07152	0.348026	-0.22249	0.313476	0.318348	0.991108	0.070915	0.983055
SH3GLB1	0.026353	0.281648	-0.34103	0.183354	0.845715	0.035474	0.009432	0.172182	0.003109	0.460109	-0.17456	0.360976	0.508181	0.999353	0.125726	0.993142
FAM164A	-0.08422	-0.01278	-0.09043	-0.17977	0.533367	0.925492	0.503512	0.180876	-0.21582	-0.08138	0.007378	-0.08181	0.074861	0.295419	0.519181	0.294433
MECR	-0.1004	0.207889	-0.11017	-0.11289	0.457432	0.124179	0.414596	0.403112	-0.20526	0.438567	-0.25113	0.190666	0.088087	0.998709	0.050054	0.895184
NDUFAF1	0.06588	0.31131	-0.27768	0.030741	0.626335	0.01952	0.036497	0.820423	-0.15055	0.484651	-0.11054	0.315462	0.158975	0.999679	0.234883	0.983642
FAM108B1	-0.17154	0.211382	-0.29876	-0.02133	0.201986	0.117844	0.02398	0.874879	-0.13027	0.325897	-0.18594	0.160094	0.194096	0.986456	0.110685	0.856065
PHF20L1	0.032889	0.352149	-0.15799	0.173076	0.808107	0.007776	0.240479	0.197924	-0.01646	0.491353	-0.32672	0.311297	0.457273	0.999695	0.015209	0.981307
TFB1M	-0.03144	0.290467	-0.25477	-0.00844	0.816414	0.029879	0.055801	0.950315	0.040877	0.557245	-0.14138	0.259083	0.606313	0.999971	0.177116	0.958952
APH1A	0.062184	0.143387	-0.13074	0.211618	0.645861	0.291761	0.33238	0.114052	-0.15292	0.567478	-0.34951	0.417359	0.155153	0.99998	0.009303	0.998048
METTL9	-0.2108	0.455453	-0.31488	0.010016	0.115487	0.00042	0.01705	0.941054	-0.07367	0.570961	-0.18115	0.399329	0.313288	0.999983	0.116848	0.997013
RDH11	0.286005	0.059741	0.060639	0.279307	0.031027	0.661846	0.65409	0.035371	0.083091	0.350364	-0.10218	0.257706	0.708495	0.991509	0.252096	0.958103
PCNA	0.060186	0.200034	-0.24917	0.191337	0.659481	0.143122	0.064037	0.157764	-0.11329	0.665431	-0.24332	0.441221	0.226744	1	0.053632	0.998927
LACTB2	0.035998	0.038505	-0.19723	0.244632	0.790358	0.778134	0.141416	0.066655	-0.24098	0.341952	-0.11228	0.338064	0.055391	0.989251	0.234021	0.988436
SUV420H1	-0.00023	0.167858	-0.16657	0.01106	0.998627	0.216236	0.215584	0.934922	0.116109	0.168634	-0.05588	0.010862	0.778882	0.868708	0.357714	0.528558
TTC15	-0.04539	0.164863	0.032558	-0.07329	0.737439	0.224662	0.81	0.58794	-0.11513	0.149958	-0.20812	-0.02948	0.225695	0.837249	0.087607	0.423786
ZDHHC9	0.016016	0.427273	-0.04765	0.002832	0.905875	0.001022	0.724849	0.983321	0.086658	0.527618	-0.17182	0.314721	0.716559	0.999918	0.129536	0.983425
FAM82B	0.019238	0.233367	-0.26433	0.068563	0.887048	0.083459	0.046931	0.612317	-0.11781	0.495525	-0.20941	0.407519	0.217764	0.999769	0.083704	0.997531
MRPS2	-0.0091	0.087333	-0.07022	-0.1384	0.946465	0.522159	0.603721	0.304576	-0.24538	0.293978	-0.15311	0.107534	0.050124	0.976319	0.157665	0.76156
COQ4	-0.13082	0.024791	0.076039	-0.1678	0.336522	0.85742	0.577531	0.216409	-0.19973	0.105626	0.034284	-0.18341	0.094179	0.755078	0.587427	0.11391
UTP11L	0.130442	0.237097	-0.27494	0.209414	0.333474	0.078504	0.038466	0.117957	0.01954	0.522134	-0.16856	0.340374	0.551279	0.999901	0.134172	0.989682
SBDS	0.23082	0.02961	-0.09583	0.302018	0.084086	0.828498	0.478249	0.022414	0.314681	0.010164	0.040081	-0.03099	0.983413	0.526724	0.603112	0.419013
RPL26L1	0.035447	-0.10428	0.084958	-0.14303	0.7935	0.444379	0.529778	0.288513	-0.09166	-0.13089	0.073448	-0.11243	0.274648	0.195719	0.682184	0.231064
COMMD2	-0.13325	0.104981	-0.2117	0.08727	0.323078	0.441288	0.113904	0.518598	0.027966	0.113688	-0.11792	-0.00614	0.572349	0.771441	0.222932	0.484031
ZNF706	0.005275	0.213746	-0.15366	0.208382	0.968934	0.113696	0.253786	0.11982	0.190799	0.222943	-0.03964	0.177103	0.897985	0.931793	0.397993	0.880492
IER3IP1	0.107595	0.351995	-0.03521	0.186129	0.429934	0.008403	0.796704	0.169603	-0.01575	0.415915	-0.18264	0.259306	0.458618	0.997978	0.114908	0.959088
GOLGA7	-0.04371	0.334523	-0.22934	0.187543	0.746797	0.011737	0.086151	0.162419	0.198045	0.314818	0.0357	0.196802	0.906474	0.983454	0.592049	0.905055
NAT5	-0.0909	0.260479	-0.22007	-0.19203	0.50128	0.052514	0.099981	0.15242	-0.37576	0.321218	-0.33265	0.233957	0.005034	0.985248	0.012783	0.941198

TRIM17	-0.01821	-0.26676	0.188913	-0.3298	0.893057	0.046881	0.159318	0.012234	0.002008	-0.37855	0.23897	-0.30699	0.505283	0.004741	0.943055	0.018984
SAR1B	-0.03615	0.335626	-0.22037	0.120597	0.789507	0.011447	0.099508	0.371545	-0.04424	0.334984	-0.13299	0.255323	0.385162	0.988566	0.1919	0.956601
ANGPTL4	-0.14259	-0.05029	0.24959	-0.11379	0.290001	0.712794	0.061156	0.399328	0.137364	-0.21997	0.212631	-0.25301	0.818677	0.070933	0.919592	0.044895
ASB3	0.095223	0.05936	-0.17071	0.212621	0.481062	0.66387	0.20421	0.112307	-0.00189	0.377629	-0.15902	0.377619	0.495082	0.994727	0.151269	0.994726
PHF11	-0.02824	0.134406	-0.05789	0.255481	0.834838	0.323343	0.668844	0.055102	0.053252	0.224304	0.07788	0.288063	0.637387	0.933012	0.694451	0.973891
RLIM	0.053623	0.198408	-0.2544	0.071506	0.691985	0.142681	0.056179	0.597099	0.112634	0.37989	-0.04485	0.257059	0.771947	0.995394	0.384924	0.957699
KCTD3	0.097367	0.352766	-0.26853	0.12734	0.471197	0.007661	0.043412	0.345195	0.279936	0.414196	-0.12322	0.211099	0.970233	0.997893	0.210009	0.920474
CCDC41	-0.07971	-0.00251	-0.02617	-0.17812	0.555596	0.985381	0.84677	0.184958	-0.13847	-0.05249	0.041903	-0.0324	0.179387	0.364501	0.607691	0.415381
IRAK4	-0.09276	0.290897	-0.22731	0.332595	0.492523	0.029626	0.089046	0.011477	-0.01696	0.445941	-0.07416	0.349549	0.455453	0.999052	0.314136	0.991371
RNFT1	-0.00022	0.161907	-0.01743	-0.04109	0.998715	0.2332	0.898567	0.76368	-0.07619	0.085279	0.115947	0.11341	0.307381	0.713454	0.775915	0.773506
COPS4	0.102244	0.093059	-0.34872	0.087946	0.449163	0.495132	0.00785	0.515351	-0.14952	0.491528	-0.22128	0.389911	0.160651	0.999739	0.072033	0.996304
INSIG2	0.118633	0.194045	-0.12497	0.150419	0.379442	0.151855	0.354337	0.264061	0.199497	0.201865	0.090716	0.171849	0.908113	0.910742	0.72329	0.873269
CHCHD2	0.012299	-0.02303	-0.18113	0.081603	0.927651	0.866236	0.177533	0.546209	-0.15866	0.209353	-0.15735	0.253379	0.146135	0.918696	0.150969	0.955346
DYNC1L1	-0.08428	0.200316	-0.394	0.161053	0.533077	0.138801	0.002426	0.231377	-0.18597	0.463809	-0.11719	0.299713	0.107965	0.999416	0.221637	0.978494
HSD17B12	0.075548	0.294049	-0.27117	0.072753	0.576477	0.027827	0.041314	0.590701	-0.03782	0.466058	-0.0786	0.406314	0.401464	0.999451	0.303901	0.99746
LOC51145	0.089867	-0.16849	0.211865	-0.34982	0.506178	0.214498	0.11362	0.007643	0.096691	-0.37111	0.160417	-0.3883	0.738667	0.005557	0.853752	0.00383
A4GNT	0.064013	-0.18491	0.216459	-0.1369	0.639278	0.176539	0.109077	0.314355	-0.1649	-0.38614	0.04446	-0.17474	0.136725	0.004018	0.614092	0.122722
ING4	-0.06232	-0.00979	0.045906	-0.16692	0.645129	0.942932	0.734546	0.214601	-0.13568	-0.19972	0.159623	-0.23156	0.184301	0.091638	0.852539	0.060762
CERCAM	0.472196	-0.2396	0.374255	0.073841	0.000239	0.078091	0.004489	0.588608	0.322825	-0.05872	0.211043	-0.02773	0.983714	0.352481	0.912844	0.429087
C5orf45	-0.19612	-0.21106	0.047567	-0.27432	0.14372	0.118422	0.725314	0.038923	-0.11182	-0.35312	-0.03548	-0.31954	0.2297	0.008039	0.408497	0.015207
SDF4	0.060914	-0.07455	0.087273	-0.02731	0.652626	0.585031	0.518583	0.840212	0.054166	0.215885	-0.01569	0.098592	0.639651	0.925202	0.459265	0.742757
SLC45A2	-0.02475	-0.09801	0.185052	-0.30461	0.85631	0.472347	0.17213	0.022451	0.317012	-0.33181	0.166735	-0.32383	0.984088	0.012138	0.863176	0.014068
MRTO4	-0.08937	0.089194	-0.11684	-0.0867	0.512448	0.517257	0.391115	0.525189	-0.08657	0.558646	-0.31225	0.371757	0.283631	0.999973	0.018387	0.994519
HN1	-0.22626	0.488492	-0.34973	0.040706	0.093575	0.000154	0.008238	0.765804	-0.23069	0.782581	-0.4082	0.437884	0.061485	1	0.002688	0.998831
SERPINA10	0.027281	-0.17962	0.18723	-0.27603	0.840355	0.185299	0.163135	0.037672	0.139799	-0.4378	0.135938	-0.39527	0.822941	0.001172	0.81337	0.003276
ZNF580	0.070693	-0.16948	0.325726	-0.08417	0.601289	0.211775	0.013416	0.533591	0.247849	-0.43871	0.2586	-0.37172	0.951619	0.001145	0.956849	0.005485
PCNT	0.053481	0.031642	0.008367	-0.24179	0.692761	0.816921	0.950743	0.069979	-0.13293	0.206767	-0.07427	0.02804	0.189237	0.91601	0.313874	0.573377
VPS28	-0.05795	-0.16509	-0.0248	-0.07739	0.668544	0.224027	0.85472	0.567169	-0.2269	-0.05325	-0.19583	-0.04087	0.064703	0.362624	0.098657	0.393705
C3orf18	0.017562	-0.28143	0.25428	-0.18049	0.896835	0.035624	0.056295	0.179085	0.049656	-0.46306	0.216943	-0.34039	0.628436	0.000596	0.92385	0.010315
EGFL7	0.146633	-0.20638	0.28514	0.029145	0.276409	0.126991	0.031562	0.829601	0.182823	-0.32175	0.217472	-0.13568	0.888031	0.014611	0.924362	0.184306
DBR1	0.079649	0.045624	-0.23469	0.163448	0.555892	0.73846	0.07887	0.224421	-0.14207	0.327412	-0.07455	0.288803	0.173143	0.986829	0.313244	0.974206
DCTN4	0.057021	0.151527	-0.2737	0.110889	0.673531	0.264937	0.039388	0.411542	-0.08919	0.402168	-0.06384	0.298119	0.277785	0.997202	0.338478	0.977907
AADAT	-0.06765	0.182168	-0.14919	-0.08301	0.617077	0.17903	0.268022	0.539265	-0.0333	0.155457	-0.14951	0.081908	0.413061	0.848878	0.163475	0.705797
CYB5R4	-0.07714	0.300103	-0.27824	0.15607	0.568464	0.024628	0.036111	0.246327	-0.139	0.464628	-0.23869	0.284468	0.178459	0.999429	0.05716	0.972321
MYO15A	-0.02039	-0.06525	0.275838	-0.20209	0.88032	0.632803	0.037813	0.131669	0.011846	-0.5034	0.163482	-0.37776	0.530779	0.000212	0.855508	0.005258
HSD17B11	-0.03115	-0.09356	-0.14269	0.140424	0.818084	0.492806	0.289668	0.297476	-0.05175	-0.07298	0.151244	0.032221	0.366352	0.3149	0.839339	0.58417
HSD17B14	0.219033	-0.40509	0.259009	0.026213	0.101636	0.001955	0.051716	0.846524	0.262541	-0.41205	0.268283	-0.20045	0.959275	0.002458	0.960863	0.093368
NAGPA	-0.07303	-0.0018	0.128502	-0.06099	0.589307	0.989524	0.340778	0.652213	-0.24915	0.028718	-0.03535	0.060028	0.047486	0.575131	0.408831	0.654052
TUBD1	0.089587	0.166119	-0.23906	0.151247	0.507514	0.221101	0.073299	0.261408	0.028824	0.233094	-0.1739	0.057599	0.575405	0.940499	0.126627	0.648108
TUBE1	0.038377	0.041101	-0.01444	0.023408	0.776852	0.763597	0.91512	0.86278	0.148122	-0.08765	-0.04012	-0.08679	0.837049	0.28121	0.39679	0.283148
LEF1	0.033237	0.237067	-0.16372	0.118226	0.806115	0.078542	0.223629	0.381091	0.179614	0.012554	0.088298	0.035452	0.883842	0.532996	0.717956	0.59247
PLEKHO1	0.105445	-0.31543	0.255296	0.315893	0.435017	0.017883	0.055284	0.016677	0.207577	-0.46125	0.331194	-0.26853	0.916858	0.000627	0.98687	0.035582
HAO2	0.093033	-0.09816	0.243688	-0.27959	0.495256	0.475866	0.070318	0.0369	0.029017	-0.26337	0.291222	-0.32194	0.575037	0.040232	0.972441	0.015515
PCOLCE	0.385546	-0.26653	0.318223	0.287065	0.003059	0.047072	0.015849	0.030382	0.175757	0.078562	0.322417	0.318245	0.87867	0.69811	0.984615	0.984436
DCXR	0.152904	0.00566	0.102848	-0.0295	0.256159	0.966977	0.446474	0.827552	0.404426	0.003108	0.046895	-0.20954	0.997345	0.508179	0.62016	0.081114
HSPA14	0.03232	0.305021	-0.3307	0.134704	0.811367	0.022263	0.011987	0.317785	-0.06533	0.525985	-0.32208	0.194984	0.333093	0.999913	0.015477	0.902951
GPN3	0.093085	0.051439	-0.189	0.08265	0.491008	0.706544	0.159132	0.541057	-0.21429	0.478314	-0.33988	0.289279	0.076346	0.999613	0.011176	0.974406
CRBN	0.0364	0.054243	-0.09977	0.207168	0.788073	0.691326	0.460252	0.122041	0.186119	0.023208	0.144221	0.07726	0.892222	0.560837	0.82772	0.695095
WBP5	0.181512	-0.06632	-0.15168	0.025845	0.176606	0.627224	0.260031	0.848657	0.271356	-0.05589	0.009464	0.006593	0.965937	0.356102	0.5246	0.517343
RSL24D1	0.047452	0.189643	-0.29464	0.12748	0.725952	0.161546	0.026092	0.344664	0.026341	0.298858	-0.15606	0.297043	0.568977	0.97818	0.152986	0.977502

SS18L2	-0.23979	0.114247	-0.23393	0.177174	0.072403	0.4018	0.079875	0.18735	0.018565	0.355208	-0.15229	0.259247	0.548732	0.992291	0.158974	0.959052
CHMP1A	-0.09484	0.069574	-0.17191	-0.2481	0.486867	0.613747	0.205205	0.06523	-0.31258	0.302938	-0.26261	0.029864	0.017216	0.979644	0.040682	0.578093
HERC5	0.193162	-0.31163	0.207086	0.238493	0.153763	0.020555	0.125673	0.076709	0.116078	-0.35148	0.09664	-0.23157	0.776175	0.008954	0.733702	0.062932
CKLF	-0.1059	-0.12752	-0.12122	0.369894	0.43303	0.348983	0.369053	0.004626	-0.37965	0.150047	-0.12318	0.252739	0.00463	0.840208	0.210086	0.954926
ZNF639	0.065576	0.01355	-0.16358	0.14555	0.627932	0.921048	0.224042	0.280008	0.084657	0.266947	0.045099	0.158985	0.712047	0.963545	0.615685	0.854366
IPO11	-0.02735	0.180112	-0.22658	0.041194	0.83994	0.184071	0.090101	0.760938	-0.15884	0.380424	-0.06144	0.356186	0.145849	0.995447	0.344231	0.992441
RAPGEFL1	-0.12869	0.431376	-0.27037	-0.21091	0.340081	0.000902	0.041945	0.115301	-0.18798	0.655977	-0.28111	0.332583	0.105463	1	0.0307	0.988037
PLCE1	-0.02565	0.406156	-0.29589	-0.34791	0.849811	0.001897	0.025436	0.008004	-0.16091	0.51288	-0.16095	0.347071	0.142697	0.999866	0.14544	0.99094
C9orf53	-0.04962	-0.0288	0.082771	-0.28698	0.713964	0.833104	0.540463	0.030431	0.174269	-0.39407	0.277614	-0.28883	0.876632	0.003367	0.96758	0.025783
NIN	-0.01003	-0.1011	-0.06321	0.023408	0.941001	0.458439	0.640403	0.862782	0.118453	-0.30004	0.203063	-0.19251	0.783493	0.021388	0.909526	0.099957
CPA4	-0.02739	0.354235	-0.09545	-0.25325	0.841206	0.007969	0.48405	0.059673	-0.03074	0.551857	-0.22973	0.243839	0.419657	0.999965	0.064496	0.94877
ZDHC2	0.03693	0.271697	-0.15842	0.064829	0.785057	0.042804	0.239199	0.631859	0.14459	0.010388	-0.05083	-0.01357	0.831149	0.527313	0.370091	0.464341
DDX47	0.023536	0.382567	-0.34752	0.141618	0.862036	0.003616	0.00808	0.293346	-0.02401	0.480052	-0.20302	0.300746	0.437086	0.999632	0.09052	0.978868
NUSAP1	-0.077	0.292902	-0.12666	-0.04228	0.572713	0.029994	0.352243	0.757026	-0.11223	0.54942	-0.02368	0.342182	0.231481	0.999954	0.439359	0.989298
CCDC44	-0.02497	0.178348	-0.06451	-0.14489	0.853713	0.188474	0.633563	0.282217	-0.30556	0.254515	-0.06759	0.162015	0.019461	0.956083	0.329554	0.858975
ACP6	-0.07629	0.360363	-0.1364	-0.13858	0.572706	0.006368	0.311665	0.303942	0.005309	0.401389	-0.19309	0.189477	0.513968	0.997152	0.101889	0.89638
GP6	-0.06857	-0.09492	0.15609	-0.30024	0.612282	0.486488	0.246266	0.023257	0.032308	-0.43984	0.130202	-0.37373	0.584394	0.001112	0.803026	0.005257
DUSP13	-0.03	-0.19375	0.199434	-0.26033	0.826278	0.156375	0.140584	0.05265	0.138264	-0.3358	0.229718	-0.36481	0.820259	0.011258	0.935495	0.006338
CLDN18	0.072719	-0.1946	0.205184	-0.30917	0.590877	0.150663	0.125738	0.019278	0.076977	-0.37133	0.213494	-0.32035	0.694439	0.00553	0.920457	0.014984
RAB9B	0.141637	-0.27073	0.388062	0.000396	0.293278	0.043577	0.002857	0.997666	0.175191	-0.42501	0.271635	-0.31364	0.877897	0.001619	0.964464	0.016897
PCP4	0.111964	0.102193	0.114905	-0.27822	0.411333	0.457831	0.399074	0.037869	0.171573	-0.34175	0.102454	-0.26527	0.867276	0.011589	0.743368	0.040907
LUZP4	0.022032	-0.16514	0.088337	-0.23677	0.870778	0.223876	0.513476	0.076182	-0.10122	-0.24378	0.142896	-0.06152	0.251648	0.051272	0.825471	0.342318
IGF2AS	0.016768	-0.04674	0.270289	-0.18723	0.901471	0.732301	0.042008	0.163143	0.04749	-0.37477	0.15143	-0.38306	0.623013	0.005142	0.83964	0.004299
GLRX5	-0.0841	-0.16671	0.123872	-0.01101	0.533954	0.219452	0.358598	0.935233	0.130157	-0.03087	-0.12439	0.064751	0.802944	0.420219	0.210558	0.663701
PCSK1	0.153065	-0.26305	0.294558	-0.14068	0.26006	0.05234	0.027545	0.301055	0.015772	-0.17815	0.149242	-0.25478	0.541428	0.1181	0.836078	0.043747
ZNF219	0.167172	0.166039	0.043909	-0.19268	0.213895	0.221327	0.745696	0.151002	0.089617	0.247977	0.017478	0.047878	0.723169	0.951708	0.545363	0.623986
TCEB3B	-0.09437	-0.17773	0.185922	-0.32238	0.485	0.190029	0.166148	0.014458	0.056099	-0.49545	0.14433	-0.35413	0.644422	0.000232	0.827905	0.007877
ABI3	-0.02904	-0.26579	0.206361	0.367723	0.830215	0.047713	0.123535	0.004892	0.032338	-0.31128	0.196087	-0.06149	0.584471	0.017615	0.90164	0.3424
COPZ2	0.166009	-0.22889	0.068653	0.025658	0.221411	0.089724	0.615136	0.851107	0.324977	-0.37498	0.164982	-0.1438	0.986225	0.005119	0.860603	0.170182
PIGP	-0.05647	0.144378	-0.1029	-0.11276	0.676536	0.288403	0.446234	0.403658	-0.0051	-0.15497	0.035268	-0.14995	0.486586	0.151889	0.590954	0.159947
GLTP	-0.18098	0.365305	-0.08362	0.000951	0.18194	0.006099	0.540057	0.99445	-0.1563	0.654423	-0.31639	0.33465	0.149795	1	0.017114	0.988494
PHF20	0.066424	-0.10933	-0.11405	0.132823	0.62348	0.422476	0.398238	0.324651	0.085002	-0.16827	0.191737	-0.14253	0.712827	0.131812	0.896483	0.172343
VRK3	-0.41351	-0.00074	-0.16941	-0.13402	0.001537	0.995723	0.211964	0.32475	-0.46319	0.108243	-0.1204	0.099494	0.000594	0.763019	0.215409	0.744688
CRIM1	0.353282	-0.26259	0.161677	0.236816	0.007025	0.050558	0.229551	0.076123	0.435342	-0.31383	0.285062	-0.16965	0.998752	0.01684	0.971154	0.129842
LOC51233	-0.06164	-0.03342	0.183431	-0.18528	0.648757	0.806842	0.171998	0.16765	-0.25117	-0.31566	0.005011	-0.3029	0.048029	0.017333	0.512878	0.021562
TMEM85	-0.01854	0.098288	-0.2589	0.210428	0.891111	0.471106	0.051816	0.116148	-0.17692	0.451167	-0.23119	0.353674	0.11976	0.999175	0.063257	0.99205
MGC29506	0.013238	-0.15288	0.166838	0.53119	0.922144	0.260649	0.214823	2.13E-05	-0.11833	0.21227	-0.0125	0.335487	0.216742	0.921651	0.467521	0.988674
ANKRD39	-0.14865	-0.25563	0.163359	-0.26231	0.269791	0.057233	0.224677	0.048703	-0.09261	-0.29622	0.054573	-0.28371	0.27023	0.02281	0.639099	0.02802
COX16	-0.0364	0.25677	-0.24212	0.148268	0.78807	0.056092	0.069585	0.27103	-0.21225	0.468731	-0.28426	0.371196	0.078364	0.999491	0.029213	0.994453
C3orf19	0.20441	0.206075	-0.06196	0.258151	0.127202	0.127572	0.647033	0.052523	0.080255	0.535378	-0.31557	0.147848	0.699884	0.999925	0.01846	0.833783
SHISA5	-0.09756	0.251252	-0.06982	0.389011	0.4703	0.06178	0.605794	0.002784	-0.08975	0.625791	-0.15973	0.514776	0.276541	0.999998	0.147296	0.999874
PAIP2	-0.01034	0.121024	-0.19444	0.070248	0.939169	0.374269	0.147251	0.603586	-0.07213	0.146626	-0.07292	0.208225	0.316904	0.834565	0.317024	0.917532
PDZD11	0.04015	-0.16025	-0.11939	-0.28372	0.766823	0.238075	0.3764	0.032454	-0.03421	0.222946	-0.11027	-0.02164	0.410712	0.931795	0.235426	0.44324
TMEM69	-0.00168	0.453573	-0.2416	0.073948	0.990133	0.000447	0.07021	0.584603	0.03788	0.554499	-0.15177	0.382415	0.59868	0.999968	0.159804	0.99564
PCSK5	-0.23828	0.205538	-0.19933	-0.19519	0.074268	0.128589	0.137144	0.145667	-0.29085	0.271874	-0.13725	0.098212	0.024942	0.96621	0.184319	0.741942
C6orf203	-0.25179	0.169954	-0.26449	-0.15016	0.058835	0.210473	0.046794	0.264892	-0.25014	0.085804	-0.21941	0.083436	0.046809	0.714638	0.073785	0.709279
NT5C3	-0.10849	-0.05629	-0.07244	0.102028	0.4218	0.680279	0.592306	0.450129	-0.0696	-0.06382	0.1564	-0.11826	0.324811	0.33853	0.844668	0.219561
FAM178B	0.040936	-0.232	0.330268	-0.19996	0.762391	0.085341	0.012105	0.135873	0.052886	-0.39766	0.171973	-0.2653	0.63648	0.003103	0.87068	0.037384
MRPL37	-0.03732	0.414791	-0.08308	-0.09416	0.784796	0.00164	0.542685	0.490043	-0.14866	0.661926	-0.31663	0.367391	0.16207	1	0.017041	0.993993
RNF181	-0.01914	-0.14081	0.069714	0.049009	0.887616	0.300603	0.606347	0.717332	-0.02333	-0.1618	-0.00559	-0.04246	0.438838	0.141349	0.485468	0.38966

TBC1D7	-0.0758	0.400092	-0.14965	0.166752	0.575214	0.002249	0.266522	0.215063	-0.02103	0.45352	-0.24433	0.284256	0.444831	0.999226	0.052881	0.972226
MARCH2	-0.20239	-0.10682	0.025485	0.004246	0.131092	0.433283	0.850736	0.97499	0.053706	-0.20722	0.162922	-0.10576	0.638512	0.083511	0.857538	0.242109
MRPL51	-0.05202	0.332235	-0.38276	0.095564	0.700742	0.012362	0.003298	0.479486	-0.21702	0.563031	-0.39968	0.42442	0.073711	0.999977	0.003264	0.998357
TMEM216	-0.05861	0.168054	-0.21331	0.159903	0.66495	0.215693	0.111116	0.234772	-0.09684	0.242402	-0.13529	0.310374	0.261016	0.947718	0.187775	0.982104
PCSK2	0.108514	0.072981	-0.07991	0.067034	0.421692	0.592973	0.554616	0.620289	0.225179	-0.10531	-0.01093	-0.25034	0.933787	0.243056	0.471588	0.046672
CXorf26	0.05181	0.182449	-0.19381	0.178852	0.704521	0.182459	0.152369	0.187209	-0.1201	0.54322	-0.26342	0.363891	0.213294	0.999952	0.040198	0.99354
MRPL30	-0.0015	0.433934	-0.33906	-0.01172	0.991192	0.000834	0.00988	0.931058	0.021207	0.468176	-0.16535	0.360881	0.555628	0.999483	0.138851	0.993128
MRPL27	-0.14988	0.172705	-0.02758	0.045286	0.265792	0.203074	0.838637	0.738003	0.047762	0.264113	-0.40529	0.089561	0.623696	0.961939	0.002873	0.723043
CDKL3	0.003048	-0.03434	-0.01759	-0.25005	0.982049	0.8016	0.896669	0.060662	-0.09893	-0.25939	0.137181	-0.22136	0.256513	0.04086	0.815568	0.069649
CLEC1B	0.017775	-0.42253	0.101255	-0.22597	0.895588	0.001179	0.453584	0.091	0.023701	-0.60409	0.088021	-0.39659	0.561408	5.57E-06	0.715037	0.003497
CLEC1A	0.252358	-0.07568	0.207659	0.337214	0.058248	0.579328	0.121139	0.010314	0.292384	-0.08841	0.280988	0.1097	0.975684	0.279515	0.96924	0.766
PIPOX	-0.03133	-0.17075	0.308883	-0.26244	0.818697	0.212622	0.020543	0.050701	-0.19657	-0.27195	0.084343	-0.17038	0.095213	0.03375	0.709131	0.128808
PCTK1	-0.09105	0.16327	-0.12795	-0.2181	0.500567	0.229236	0.342855	0.103138	-0.07125	0.462702	-0.2427	0.147284	0.318974	0.999398	0.054091	0.83566
TFDP3	0.03093	-0.15455	0.217661	-0.09849	0.819339	0.25542	0.103851	0.466083	0.215275	-0.38959	0.325582	-0.23991	0.924611	0.003722	0.985462	0.054144
UBAP1	-0.15809	0.224053	-0.2155	0.160575	0.244552	0.100085	0.110687	0.237117	-0.03052	0.522361	-0.38692	0.265295	0.420203	0.999902	0.004324	0.962616
BET1L	0.0703	-0.08704	0.037464	0.076349	0.603315	0.523539	0.782025	0.572431	0.094594	0.039411	-0.24887	0.053694	0.734118	0.602584	0.049619	0.638483
KLF3	-0.00324	0.501311	-0.22254	-0.05171	0.980911	8.30E-05	0.096145	0.70248	-0.00722	0.617233	-0.1369	0.409102	0.480996	0.999998	0.184935	0.997621
ZNF571	0.05292	0.095069	-0.13077	0.049867	0.695825	0.485823	0.332254	0.712593	0.051953	0.10448	0.025182	0.105834	0.634162	0.75522	0.565213	0.758043
DNAJC27	-0.10561	-0.05838	-0.09474	-0.35279	0.434306	0.669079	0.483278	0.00711	-0.21351	-0.19476	0.070902	-0.11621	0.077118	0.097315	0.678254	0.22091
IER5	0.140162	-0.15816	0.212064	0.027145	0.298385	0.244324	0.113273	0.841137	0.132477	-0.10239	0.144148	-0.11127	0.809934	0.249162	0.827597	0.230807
C1RL	0.03373	-0.01749	0.092531	0.46539	0.803296	0.898209	0.493603	0.000265	0.273263	0.351165	-0.0217	0.325305	0.966932	0.991643	0.443731	0.986308
PCTK2	-0.03077	0.16618	-0.18856	0.249514	0.820285	0.220929	0.160113	0.061237	0.077209	0.145644	-0.10241	0.222524	0.694978	0.832924	0.251606	0.931414
GOLM1	-0.03582	-0.00185	0.090004	0.005975	0.79137	0.989193	0.505529	0.964818	0.10149	-0.02769	-0.04388	-0.19105	0.748931	0.427516	0.387359	0.101715
ANKMY1	-0.20786	-0.12392	-0.04265	-0.25557	0.120776	0.362871	0.752735	0.055013	-0.31655	-0.16603	-0.06524	-0.18984	0.016043	0.135061	0.335135	0.103174
SCAND1	-0.19426	0.114352	-0.06995	-0.0522	0.151392	0.401363	0.608449	0.702388	0.075538	0.053365	-0.03516	-0.15606	0.691089	0.637666	0.409312	0.15017
BFAR	0.033088	0.154981	-0.24617	0.199455	0.806964	0.254069	0.064906	0.136888	0.132966	0.344387	0.013967	0.247563	0.810821	0.990452	0.536279	0.95142
TLR7	-0.18307	-0.16536	0.115596	0.326778	0.172868	0.223236	0.391849	0.013102	-0.14101	-0.10326	0.207788	0.019901	0.17497	0.247331	0.914604	0.55222
RASL12	0.333927	-0.21579	0.368981	0.116632	0.011131	0.1102	0.004736	0.38759	0.400779	-0.45658	0.384746	-0.28338	0.997111	0.000713	0.995468	0.028167
CEND1	0.001499	-0.25458	0.241995	-0.17851	0.991168	0.058298	0.069739	0.183985	0.180226	-0.49714	0.274934	-0.34874	0.88465	0.00022	0.966211	0.008767
CHCHD8	-0.16831	0.421913	-0.25603	0.23305	0.21076	0.001201	0.054566	0.081052	-0.05872	0.548393	-0.27744	0.367188	0.349136	0.99996	0.032507	0.993967
RXFP3	-0.04236	-0.18375	0.241392	-0.12609	0.754405	0.175221	0.070459	0.349988	0.20666	-0.46645	0.204741	-0.36584	0.915896	0.000543	0.911354	0.006204
PCTK3	0.052628	-0.02617	0.169568	-0.21981	0.697424	0.848165	0.207307	0.100406	0.140797	-0.07662	0.009138	-0.05703	0.82467	0.3064	0.523754	0.353286
ERGIC2	-0.03667	0.31117	-0.24131	0.143375	0.786554	0.019578	0.070562	0.287336	0.004091	0.421912	-0.12063	0.334369	0.510763	0.998253	0.214954	0.988432
GMIP	-0.02947	-0.17332	0.105885	0.265097	0.827748	0.201455	0.433092	0.046271	-0.04822	-0.12542	0.133617	-0.20405	0.375149	0.20312	0.809224	0.086885
GMPR2	-0.07814	0.00386	-0.19607	0.007889	0.563452	0.977473	0.14382	0.953558	-0.35613	0.274992	-0.34756	0.173697	0.007568	0.967814	0.009658	0.875843
CD320	0.119588	-0.21175	0.307958	-0.03692	0.375589	0.117189	0.019781	0.785142	0.128674	-0.21356	0.137858	-0.08782	0.802961	0.077073	0.816758	0.280835
PCDH12	0.047641	-0.12222	0.088798	0.161478	0.724906	0.369548	0.511272	0.230132	-0.05089	-0.089	-0.02899	0.075408	0.368474	0.278206	0.425038	0.690785
ECSIT	0.09065	-0.10077	0.246833	-0.04883	0.502465	0.459931	0.064168	0.718344	-0.0377	0.136791	-0.05334	-0.18672	0.401767	0.817665	0.363929	0.107021
SLC15A3	-0.04195	-0.23303	0.105661	0.38653	0.758886	0.086864	0.438321	0.003255	-0.07821	-0.04038	-0.02813	0.108319	0.30479	0.396127	0.428092	0.76061
PLUNC	0.245925	-0.28319	0.327753	0.0363	0.065185	0.034436	0.012817	0.788641	0.146833	-0.18956	0.243754	-0.16692	0.834911	0.103521	0.946691	0.133769
THEG	0.076147	-0.29704	0.291171	-0.1648	0.576988	0.027643	0.029466	0.224849	0.013835	-0.34809	0.225476	-0.20724	0.536354	0.008881	0.931787	0.08349
NRN1	0.354109	-0.224	0.134697	0.363704	0.006884	0.09699	0.317807	0.005419	0.326836	-0.30721	0.241821	0.034973	0.986688	0.018913	0.945244	0.591242
ATP5D	0.086586	0.22984	0.036569	-0.02586	0.52189	0.088369	0.787111	0.848543	0.05317	0.418976	0.01661	0.164468	0.637184	0.998123	0.54312	0.862636
PCYT1A	-0.00913	0.194523	-0.18059	0.078072	0.946745	0.154701	0.182877	0.567366	-0.07836	0.497378	-0.32724	0.231559	0.302354	0.999781	0.014109	0.939239
C3orf1	-0.00129	0.325061	-0.24893	0.333696	0.992417	0.014507	0.061863	0.01119	-0.03402	0.548108	-0.2204	0.450111	0.411193	0.99996	0.072854	0.999151
GCNT4	0.008011	0.044872	-0.08146	-0.07386	0.95284	0.742619	0.546895	0.585025	-0.09847	-0.17811	0.034282	-0.18844	0.257503	0.118162	0.588453	0.104888
CYP39A1	0.143204	-0.10011	0.018401	-0.20292	0.292382	0.467094	0.892922	0.133633	0.121481	-0.39932	0.159612	-0.14735	0.789369	0.002987	0.852522	0.164232
FKBP11	-0.03501	-0.0164	0.143875	0.366704	0.796002	0.904507	0.285641	0.005021	-0.04559	0.24914	-0.13617	0.235132	0.381758	0.95251	0.186218	0.942141
ZDHC3	-0.30604	0.505429	-0.2425	-0.1589	0.023067	9.69E-05	0.074443	0.246556	-0.22395	0.68202	-0.46344	0.347926	0.069589	1	0.000767	0.990409
KCNK9	-0.11234	-0.00028	0.172909	-0.11404	0.405429	0.998378	0.198365	0.3983	0.088211	-0.38929	0.18244	-0.34439	0.720037	0.003747	0.884833	0.009547

FAM13B	0.079309	0.041829	-0.08322	0.236802	0.557587	0.759534	0.538267	0.076142	0.235421	-0.02782	0.037997	0.048036	0.94237	0.427186	0.597858	0.624383
FAM53C	0.446669	-0.30107	0.258697	-0.22232	0.000496	0.024147	0.052008	0.09648	0.216643	0.10476	0.205344	-0.14549	0.92356	0.753285	0.909419	0.170145
REEP2	0.201431	-0.13172	0.343599	-0.2825	0.132961	0.33319	0.008875	0.03324	0.15294	-0.33517	0.23413	-0.30607	0.844883	0.011393	0.939189	0.019287
ARMCX1	0.374272	-0.30975	0.176167	0.03331	0.004129	0.020174	0.189911	0.805699	0.438639	-0.44711	0.259479	-0.25943	0.998853	0.000919	0.9574	0.040834
SLC22A17	0.366073	-0.28382	0.343126	0.062053	0.005103	0.034022	0.008975	0.646555	0.340977	-0.28397	0.193375	-0.11315	0.989051	0.029351	0.895747	0.229631
TLR8	-0.09727	-0.35535	0.076655	0.220039	0.475735	0.00776	0.574443	0.103202	-0.12455	-0.4657	0.00507	-0.27367	0.207482	0.000632	0.513028	0.03445
SLC25A37	0.023221	-0.36693	0.150779	-0.04559	0.86387	0.005408	0.262906	0.736329	0.13697	-0.63839	-0.01981	-0.57609	0.815195	1.19E-06	0.449207	1.73E-05
C4orf18	0.232032	-0.19793	0.148967	0.377962	0.082425	0.14366	0.268751	0.003747	0.323188	-0.18849	0.25727	0.171935	0.985767	0.104832	0.956006	0.873389
TXNDC3	0.064842	-0.21008	-0.00329	-0.1339	0.631792	0.12017	0.980603	0.320689	0.107137	-0.41547	0.167765	-0.33533	0.760741	0.002043	0.864675	0.011359
KRCC1	-0.04799	0.229647	-0.28029	0.055225	0.722969	0.088644	0.034706	0.683264	-0.1027	0.358317	-0.03836	0.303351	0.248506	0.99276	0.401237	0.979787
PLAC8	-0.12377	0.167923	-0.29284	-0.11362	0.359008	0.216055	0.027063	0.400057	-0.12914	0.204012	-0.16734	0.033114	0.198927	0.910563	0.138804	0.585484
PHF21A	0.102849	0.103549	-0.02884	-0.0702	0.446472	0.447577	0.831352	0.603812	0.236386	-0.15316	0.289767	0.006028	0.943133	0.154761	0.973244	0.515858
MRPL35	0.019762	0.237135	-0.19777	0.063091	0.883994	0.078454	0.140294	0.641045	0.021338	0.4928	-0.23743	0.367417	0.555969	0.999749	0.058155	0.993996
RSRC1	0.054741	0.173022	-0.15469	0.012351	0.685895	0.202233	0.250576	0.927344	0.056651	0.113801	-0.09001	0.108062	0.64417	0.771665	0.280604	0.760086
PDC	0.108055	-0.23672	0.072905	-0.17144	0.423671	0.078988	0.589923	0.202256	-0.0286	-0.35337	-0.00761	-0.21214	0.425174	0.007999	0.480218	0.078476
MEX3C	0.11275	-0.09874	-0.04646	0.437793	0.403687	0.469082	0.731453	0.00066	0.155936	0.171937	0.026703	0.284314	0.84963	0.873392	0.569113	0.972252
AMZ2	-0.04575	0.061881	-0.11861	-0.17034	0.735436	0.650502	0.379531	0.205212	-0.22454	0.161339	-0.03148	0.091765	0.066775	0.857955	0.418665	0.72792
WAC	0.031543	0.189013	-0.18326	0.062524	0.815816	0.162968	0.172398	0.644053	0.282433	0.099994	0.122718	0.089598	0.971398	0.745754	0.789041	0.723126
SPG21	-0.06275	0.254774	-0.28507	0.219459	0.645915	0.060496	0.033211	0.104138	-0.02206	0.317239	-0.23137	0.232299	0.442813	0.98314	0.06538	0.937675
ERAF	-0.11666	-0.2217	0.180422	-0.16017	0.387492	0.100558	0.179261	0.233973	0.037524	-0.37998	0.122311	-0.17136	0.596663	0.005018	0.78551	0.130186
ARL6IP4	-0.09457	-0.08249	0.086811	-0.08466	0.484082	0.545558	0.520809	0.53122	-0.04653	-0.17523	0.063677	-0.13102	0.379391	0.122051	0.661135	0.192726
PDCD1	0.153121	-0.16315	0.299583	0.099282	0.255475	0.229596	0.023576	0.462477	0.17588	-0.24522	0.234936	-0.12727	0.878836	0.050236	0.939846	0.199651
TNFRSF12A	-0.06151	0.010817	0.009995	0.085291	0.649431	0.936934	0.941175	0.52816	0.26255	0.093655	-0.00399	-0.06319	0.96103	0.732068	0.489634	0.338262
SPTBN5	-0.06999	-0.19699	0.204415	-0.15335	0.60491	0.145617	0.127192	0.254753	0.119168	-0.315	0.077023	-0.33459	0.784889	0.016493	0.692481	0.011519
ZNF771	-0.01404	0.015663	0.193023	0.028453	0.917468	0.908783	0.150271	0.833592	0.221288	-0.32208	0.136235	-0.21573	0.930288	0.014524	0.813896	0.074947
PRR16	0.276921	-0.2782	0.24946	-0.0621	0.038815	0.039724	0.063722	0.649349	0.201329	-0.49256	0.224576	-0.32969	0.90761	0.000294	0.928618	0.013497
NGRN	-0.08982	0.013894	-0.10855	-0.13191	0.506394	0.919047	0.421521	0.327999	-0.23307	-0.08064	-0.21101	0.020135	0.059518	0.297095	0.082056	0.552832
C8orf55	-0.09304	0.246189	0.119601	-0.14421	0.491206	0.067397	0.375538	0.284524	-0.20279	0.140419	-0.25801	-0.11744	0.090776	0.82122	0.045422	0.221159
MS4A4A	-0.12455	-0.22081	-0.02471	0.296022	0.355973	0.101965	0.855248	0.025366	-0.00508	-0.03518	0.005831	0.192375	0.486646	0.408231	0.515162	0.899876
DACT1	0.226315	-0.35887	0.18624	0.085024	0.090488	0.006606	0.165411	0.529457	0.442114	-0.52733	0.354273	-0.32796	0.998952	8.31E-05	0.991522	0.013038
PDCD2	0.036451	0.245893	-0.08035	-0.12944	0.787783	0.067737	0.552396	0.337217	0.102088	-0.02053	-0.08665	-0.10272	0.750195	0.446138	0.285705	0.248469
CRNKL1	0.166493	0.025182	-0.1643	0.048383	0.215787	0.85384	0.221968	0.720794	0.260603	0.188157	0.034249	0.024609	0.959874	0.894759	0.588367	0.56448
ZBTB7A	-0.05522	-0.10317	0.170878	-0.13668	0.683274	0.449231	0.203768	0.310652	-0.06575	-0.12226	0.154085	-0.11755	0.332085	0.209129	0.843896	0.218283
FZR1	0.048138	-0.11396	0.095897	-0.16738	0.722151	0.403	0.477949	0.213304	-0.06132	0.001879	0.043476	-0.06043	0.342792	0.504944	0.611632	0.344972
TAOK3	-0.01378	0.202641	-0.25602	0.314609	0.918942	0.134182	0.054571	0.017149	0.098801	0.316406	-0.10095	0.250065	0.743205	0.983915	0.254683	0.95314
KLRF1	-0.08414	-0.04973	-0.27492	-0.09913	0.537523	0.71842	0.040306	0.467292	-0.13581	-0.09784	0.037967	-0.21358	0.18685	0.261287	0.596648	0.07946
KRT76	0.031689	0.105856	0.086888	-0.29063	0.814982	0.437469	0.520435	0.028297	0.089286	-0.13352	0.154265	-0.23257	0.722432	0.188178	0.844182	0.059932
ZNF117	0.016956	0.116653	-0.02348	-0.1783	0.900376	0.391894	0.862339	0.184505	0.00205	0.024042	0.012444	0.014303	0.505394	0.563007	0.532332	0.537581
WIT1	0.054598	-0.08226	0.257807	-0.32452	0.689411	0.550478	0.055073	0.014681	-0.07063	-0.28428	0.073561	-0.20016	0.32046	0.027763	0.684467	0.091141
PDE1A	0.128078	-0.10315	-0.01098	0.138432	0.342386	0.449344	0.935382	0.304449	0.085307	0.00678	0.109103	0.123331	0.713517	0.517835	0.762208	0.792914
MBTPS2	0.130462	0.177581	-0.17189	0.135869	0.3334	0.190414	0.201067	0.313575	0.104081	0.407511	-0.03007	0.314343	0.754387	0.99753	0.422281	0.983314
HOOK1	-0.01287	0.115635	-0.15638	-0.02891	0.924305	0.396066	0.245372	0.830954	-0.12857	0.174702	-0.11923	0.119848	0.199968	0.874477	0.220396	0.783531
CDC40	0.039565	0.074025	-0.25874	0.222997	0.770131	0.587679	0.051964	0.095443	-0.05184	0.281529	-0.13567	0.291913	0.366108	0.970981	0.187109	0.975493
GALNAC4S	-0.05925	-0.14378	-0.02493	0.400937	0.664438	0.290414	0.855311	0.002197	0.059434	-0.09246	0.037679	-0.19703	0.652601	0.270547	0.597055	0.094687
ZMYND10	-0.18176	-0.21647	0.04587	-0.17216	0.175999	0.109051	0.734748	0.200334	-0.26707	-0.23618	0.008458	-0.15787	0.036386	0.057027	0.521988	0.147356
PLA1A	-0.07901	-0.09541	0.239126	0.148491	0.562716	0.488382	0.075907	0.274739	0.00987	-0.35262	0.231804	-0.09689	0.525653	0.008757	0.934994	0.263314
UBR5	0.050813	0.12666	-0.18442	0.23824	0.707383	0.352263	0.169668	0.074324	0.027726	0.330012	-0.09223	0.344011	0.572564	0.987448	0.273397	0.990382
POP5	-0.01752	0.193341	-0.23379	0.203787	0.898047	0.157272	0.082878	0.131949	0.05078	0.283175	-0.14446	0.202614	0.631241	0.971737	0.171874	0.911562
TEX264	-0.17804	-0.10433	0.047392	0.045206	0.185165	0.444162	0.726284	0.73845	-0.1722	0.076251	-0.08926	-0.0428	0.12624	0.692751	0.279916	0.388807
PDE1C	0.314114	-0.20195	0.164579	-0.0325	0.017334	0.135545	0.221186	0.810337	0.317544	-0.38928	0.285309	-0.17778	0.984239	0.003748	0.971267	0.118604

POMP	-0.10267	0.208436	-0.32079	0.209854	0.447247	0.123172	0.014978	0.11717	-0.18506	0.387291	-0.20621	0.344661	0.109112	0.996083	0.087068	0.990503
MRPS17	0.032166	-0.09579	-0.16892	0.10705	0.812246	0.482503	0.209082	0.428017	-0.05802	0.271396	-0.16281	0.28997	0.35085	0.965958	0.142624	0.974695
C2orf28	0.069078	0.093567	-0.09198	0.136216	0.609643	0.492773	0.496173	0.31233	-0.06654	0.337758	-0.18551	0.272793	0.330206	0.989152	0.111226	0.966689
SNX7	-0.28124	0.307405	-0.39524	-0.08376	0.03407	0.021187	0.002344	0.535625	-0.25665	0.380202	-0.15752	0.187265	0.042556	0.995425	0.150711	0.893654
UCHL5	-0.0009	0.305392	-0.23067	0.204725	0.994676	0.022092	0.084295	0.126606	0.074211	0.492663	-0.20619	0.377098	0.687985	0.999748	0.087094	0.995108
ANGPT4	0.010476	-0.11362	0.279754	-0.2595	0.938351	0.404415	0.035067	0.051255	0.18124	-0.41091	0.192146	-0.35565	0.885978	0.002279	0.896975	0.00764
CRLF3	-0.06968	0.132258	-0.37966	0.268977	0.606525	0.331209	0.003582	0.043053	-0.06288	0.245518	-0.14248	0.225238	0.339014	0.949978	0.175241	0.93384
PDE2A	0.312585	-0.20328	0.313622	0.208388	0.017916	0.132939	0.01752	0.11981	0.319101	-0.33982	0.307894	-0.11656	0.984673	0.010428	0.980184	0.220222
CSAD	0.114394	-0.10808	0.170053	-0.05165	0.396824	0.427853	0.205992	0.702769	0.329354	-0.17088	0.143879	-0.253	0.987294	0.128094	0.827141	0.0449
ATP6V1D	-0.03407	0.10917	-0.18357	-0.12801	0.801348	0.423176	0.171667	0.34263	-0.27245	0.201715	-0.18254	0.157552	0.033492	0.910576	0.115041	0.852153
WNT16	-0.06364	-0.07998	0.131433	-0.15843	0.638125	0.557892	0.329784	0.239155	0.131558	-0.40864	0.125647	-0.29012	0.808262	0.002405	0.794578	0.025241
ZNF589	0.06088	0.068574	-0.19994	0.113581	0.6558	0.618862	0.139552	0.404565	-0.04903	0.249063	-0.12973	0.168502	0.374545	0.950514	0.200649	0.865739
EIF3L	0.081179	0.257552	-0.33673	0.234483	0.548307	0.055322	0.010432	0.079148	0.054182	0.493343	-0.3192	0.372212	0.639691	0.999753	0.016288	0.994571
NIP7	-0.20911	0.32752	-0.41695	0.257097	0.121939	0.014651	0.00139	0.05577	-0.22769	0.564346	-0.33096	0.401427	0.064021	0.999978	0.013187	0.997154
RWDD1	0.083464	-0.04748	-0.06063	0.358401	0.537067	0.728199	0.654127	0.006191	0.250624	0.022205	-0.08962	0.029442	0.951598	0.557559	0.281463	0.576124
PDE3A	0.523221	-0.28168	0.374327	0.034861	2.97E-05	0.035455	0.004123	0.796839	0.4025	-0.48522	0.349988	-0.27551	0.996938	0.000365	0.990068	0.033491
AIG1	-0.07031	0.127558	-0.28467	0.090797	0.603272	0.348829	0.031858	0.501772	-0.23264	0.460722	-0.17774	0.379961	0.059876	0.999364	0.121387	0.995401
TRPV2	-0.02629	-0.33384	0.111025	0.368181	0.84607	0.01192	0.410966	0.004835	0.014143	-0.29911	0.249515	-0.01319	0.537162	0.021726	0.95083	0.465329
COMMD10	0.133292	0.042681	0.040759	0.239985	0.322929	0.754786	0.763392	0.072164	0.11356	0.231151	-0.18652	0.172135	0.773806	0.938901	0.109949	0.873669
C19orf56	0.102419	0.158391	-0.09577	0.237931	0.448385	0.243641	0.478515	0.074712	0.001748	0.478816	-0.18162	0.33931	0.504599	0.999619	0.116231	0.989469
TRAPPC4	0.04845	0.026031	-0.27823	0.167179	0.720423	0.848967	0.036112	0.213876	-0.16232	0.353928	-0.1562	0.224697	0.14057	0.992091	0.152769	0.933361
ATP5E	-0.26349	-0.11504	-0.23669	0.039957	0.047661	0.398524	0.07629	0.767914	-0.27435	-0.02918	-0.22973	-0.08094	0.034092	0.424546	0.066787	0.298561
PDE3B	0.044685	-0.07185	-0.04924	0.372155	0.741356	0.598753	0.716039	0.004363	0.2395	-0.11361	0.058951	0.097571	0.945543	0.22609	0.649755	0.740564
PPME1	-0.06604	0.217488	-0.1465	-0.13908	0.625498	0.107362	0.276862	0.302177	-0.26943	0.270594	-0.12235	0.199069	0.035092	0.965533	0.211668	0.907633
NOL7	0.008008	0.173325	-0.21122	0.045156	0.952856	0.201431	0.114754	0.738729	-0.20564	0.25609	-0.15739	0.29961	0.087683	0.955247	0.153783	0.977222
HEMK1	0.033538	-0.18782	0.183103	-0.17227	0.80439	0.165695	0.172779	0.200064	-0.07376	-0.09209	-0.04851	-0.06587	0.313072	0.271354	0.375829	0.331816
PDE4A	0.026915	-0.28216	0.220098	0.055154	0.84247	0.035126	0.099942	0.683649	0.031224	-0.20171	0.152777	-0.00479	0.581601	0.089428	0.841807	0.487396
BIN2	-0.09588	-0.39305	0.107042	0.465934	0.478051	0.00273	0.428053	0.00026	-0.24529	-0.26541	-0.05535	-0.06619	0.052178	0.039027	0.360605	0.33287
ACTL6B	0.021347	-0.02346	0.319732	-0.11634	0.874764	0.863747	0.015331	0.388787	0.12885	-0.34278	0.013798	-0.23379	0.80054	0.010582	0.535419	0.061091
PDE4B	0.293121	-0.29567	0.186614	0.338664	0.026909	0.026941	0.164549	0.009971	0.207176	-0.35342	0.219406	-0.15003	0.916438	0.00799	0.926208	0.159822
AMOTL2	0.197665	-0.12278	0.107028	0.155027	0.140519	0.367312	0.428115	0.249537	0.424679	0.239332	0.112484	0.027157	0.998368	0.945415	0.769034	0.571091
PRKAG2	0.110137	-0.07091	0.119508	-0.02954	0.41474	0.603549	0.37591	0.827332	0.368514	-0.55529	0.274006	-0.40591	0.994132	3.09E-05	0.965727	0.002564
POLK	0.018121	0.199167	-0.14597	0.19172	0.893569	0.141128	0.278613	0.153096	0.244654	0.224711	0.02193	0.239328	0.949359	0.933374	0.556851	0.945412
ZNF107	0.003273	0.098812	-0.06335	0.01343	0.980724	0.468735	0.639671	0.921016	0.117938	0.063311	0.149579	0.107424	0.782485	0.662027	0.836629	0.761333
DDX41	-0.10744	0.25253	-0.15756	0.080153	0.426335	0.060423	0.241779	0.553388	-0.18705	0.621262	-0.1153	0.342988	0.106618	0.999998	0.225362	0.990189
SNX9	0.137572	0.325582	-0.11884	0.158406	0.307491	0.014341	0.378591	0.239239	0.172145	0.378856	0.051908	0.272092	0.873684	0.99529	0.632558	0.966324
PDE4C	-0.00449	-0.03333	0.12809	-0.27206	0.973543	0.807363	0.342339	0.040628	0.210346	-0.27163	0.161355	-0.33818	0.917265	0.035539	0.852306	0.011539
C1orf9	0.051353	0.064966	-0.0308	0.246924	0.707015	0.637477	0.821707	0.066557	0.180007	-0.03931	0.049991	0.07784	0.884361	0.397666	0.627831	0.696439
ANAPC5	-0.06793	0.118549	-0.22578	0.225136	0.615599	0.38419	0.091266	0.092226	-0.10644	0.363731	-0.19353	0.214531	0.240703	0.993519	0.101372	0.923886
ANAPC7	-0.03264	0.244203	-0.25736	0.120118	0.812982	0.072372	0.057845	0.382378	-0.08964	0.621187	-0.29499	0.397259	0.27677	0.999998	0.024579	0.996869
SCARA3	0.17372	-0.34342	0.057439	-0.15382	0.196236	0.009562	0.671273	0.253297	0.231728	-0.12061	0.145256	-0.16599	0.937198	0.215	0.826591	0.137909
MAGEC2	0.047038	-0.30525	0.222604	-0.12395	0.730659	0.023442	0.099146	0.362739	0.143308	-0.3911	0.1035	-0.28927	0.828977	0.003599	0.750664	0.025597
FAM8A1	0.059947	-0.09821	0.194673	-0.06453	0.657794	0.471452	0.146748	0.633462	0.276768	-0.42113	0.229997	-0.25814	0.968701	0.001781	0.935733	0.04163
PDE4D	-0.0134	0.199234	-0.06696	0.151385	0.92119	0.140992	0.620655	0.260969	0.219839	0.165705	-0.06276	0.070354	0.928949	0.864457	0.341073	0.678895
HPCAL4	-0.00234	-0.39082	0.153698	-0.16696	0.986336	0.003177	0.258071	0.218728	0.094916	-0.44285	0.108699	-0.34553	0.734819	0.001028	0.761385	0.009337
YTHDF2	-0.02762	0.358221	-0.2632	0.238362	0.838371	0.006712	0.047913	0.074171	-0.04473	0.677933	-0.18946	0.372262	0.383921	1	0.106285	0.994577
VGLL1	0.078656	-0.14061	0.154272	-0.13295	0.560844	0.30129	0.251877	0.324186	0.23313	-0.2194	0.049156	-0.18108	0.940528	0.071456	0.625767	0.114232
RNF138	0.007334	0.157877	-0.08552	0.125916	0.957218	0.245193	0.530847	0.35512	0.006133	0.348068	-0.14283	0.321523	0.516133	0.991115	0.174634	0.98533
IP6K2	-0.31869	0.383035	-0.26607	-0.09618	0.015688	0.003571	0.045446	0.476657	-0.18293	0.544553	-0.27638	0.415177	0.111831	0.999954	0.033042	0.997942
PCYOX1	0.288862	0.154282	-0.18921	0.174587	0.029314	0.256244	0.158644	0.193977	0.187815	0.404472	-0.14974	0.289576	0.894337	0.997348	0.163104	0.974531

PDE6A	-0.035	-0.04308	0.124828	-0.2817	0.79604	0.752566	0.354874	0.033768	0.14078	-0.35928	0.214808	-0.40199	0.824641	0.007099	0.921763	0.002809
PRRX2	-0.10117	-0.15067	0.141525	0.007053	0.453964	0.267693	0.293665	0.958474	0.043496	-0.24119	0.068898	-0.16006	0.612951	0.053183	0.673541	0.143988
LCMT1	-0.07487	0.271096	-0.2309	0.110241	0.579911	0.043284	0.083972	0.414297	-0.2376	0.563466	-0.28114	0.21061	0.055917	0.999977	0.030688	0.919979
GULP1	0.00614	0.199337	-0.0746	-0.09631	0.963844	0.140783	0.58126	0.476043	-0.14071	0.269943	-0.05854	0.291292	0.175487	0.965185	0.351238	0.97524
REV1	-0.08815	0.334515	-0.27587	0.089838	0.514359	0.01174	0.037793	0.506316	-0.09171	0.502535	-0.19458	0.317952	0.272197	0.999814	0.100123	0.984354
RHCG	-0.14968	0.188033	-0.1254	-0.18385	0.270874	0.169207	0.357115	0.174977	-0.09172	0.250664	-0.18972	0.036649	0.27687	0.949619	0.108705	0.593354
PDE6C	0.131403	-0.07402	0.064039	-0.24808	0.329894	0.58772	0.636027	0.06279	0.209847	-0.34433	0.177136	-0.33801	0.916751	0.010275	0.874987	0.011575
SFMBT1	-0.23475	0.121814	-0.24965	-0.04311	0.0788	0.371135	0.061089	0.750146	-0.37044	0.141932	-0.18678	0.111799	0.005635	0.826626	0.109625	0.770264
UBE2J1	-0.10545	0.283362	-0.18396	0.437487	0.43498	0.034324	0.170746	0.000666	-0.01769	0.513236	-0.19395	0.358283	0.453552	0.999868	0.10087	0.992755
EVL	-0.02792	-0.28727	0.25907	0.268863	0.838138	0.033459	0.053851	0.045105	-0.08747	-0.28151	0.039113	-0.06156	0.281617	0.029028	0.600674	0.342227
PDE6D	-0.03972	-0.13211	0.08185	-0.02308	0.769247	0.331744	0.544995	0.864672	-0.2593	0.114704	-0.12809	0.188913	0.040918	0.776092	0.20086	0.89569
NAT8B	-0.17014	-0.18115	0.20609	-0.25694	0.20577	0.181509	0.12404	0.053681	0.03732	-0.44915	0.051329	-0.44334	0.59725	0.000871	0.631133	0.001015
DCDC2	-0.09717	-0.2515	0.096642	-0.37014	0.4721	0.061518	0.474521	0.004596	-0.26411	-0.37348	0.09313	-0.28374	0.038064	0.005285	0.728566	0.028008
LIMA1	0.07588	0.325893	-0.17726	0.215988	0.574797	0.014243	0.187143	0.106601	-0.04698	0.588883	-0.12723	0.52039	0.378257	0.999992	0.202461	0.999895
CABP2	-0.06658	-0.15161	0.254805	-0.16304	0.622687	0.264675	0.055772	0.225599	0.159762	-0.41002	0.173554	-0.31172	0.855558	0.002328	0.872888	0.017478
ISYNA1	0.161426	-0.16055	0.136826	0.149651	0.230286	0.237195	0.310149	0.266533	0.173376	0.170649	0.263143	0.167163	0.872641	0.868809	0.957809	0.8638
HSD17B7	0.006251	-0.06885	-0.11998	-0.04055	0.963192	0.614108	0.37401	0.764582	0.031858	0.154963	0.030397	-0.02917	0.583235	0.848098	0.578562	0.423708
ANKFY1	0.061033	0.190091	-0.13818	0.234896	0.65199	0.160539	0.305351	0.078605	-0.26432	0.627743	-0.2467	0.511702	0.03794	0.999998	0.051162	0.999861
PDE6G	0.034026	-0.20941	0.291407	-0.17345	0.801603	0.121391	0.027856	0.196952	0.11763	-0.32293	0.220566	-0.24123	0.78188	0.014299	0.927299	0.053155
PDE6H	0.026711	-0.18285	0.128218	-0.22978	0.843645	0.177369	0.341855	0.085528	-0.04504	-0.3697	0.210051	-0.33671	0.383154	0.005724	0.916962	0.011066
C9orf114	-0.14492	-0.01482	0.045466	0.012603	0.28212	0.91367	0.736997	0.925866	-0.06049	0.007047	-0.03088	0.068715	0.34483	0.518538	0.420204	0.675
NOP16	-0.00828	0.29123	-0.10489	0.129472	0.951725	0.030989	0.44169	0.341585	-0.05299	0.557473	-0.29734	0.372821	0.363258	0.999971	0.023649	0.994641
C22orf28	0.014296	0.094324	-0.21083	0.099026	0.916714	0.493353	0.118835	0.467768	-0.11601	0.444929	-0.26934	0.315594	0.221317	0.999026	0.036794	0.98368
PTPLAD1	-0.00825	0.244978	-0.29971	0.057477	0.951409	0.068799	0.023513	0.671071	-0.175	0.437618	-0.22712	0.425931	0.122362	0.998823	0.066754	0.998418
CTDSPL2	-0.03037	0.294632	-0.28786	0.212215	0.822575	0.027504	0.029908	0.113011	0.028371	0.433672	-0.07467	0.325043	0.574235	0.998697	0.312945	0.986242
TH1L	0.063102	0.174747	-0.06352	0.14635	0.644068	0.201944	0.641888	0.281799	-0.02435	0.642281	-0.19607	0.392887	0.436206	0.999999	0.098379	0.996543
TRIAP1	-0.08673	0.144008	-0.0991	0.099661	0.521205	0.289652	0.463323	0.460761	-0.1316	0.129532	-0.25733	0.109429	0.191655	0.804546	0.043956	0.765447
ATP5F1	0.032566	0.287756	-0.36622	0.000304	0.809956	0.031515	0.005084	0.998209	-0.13105	0.405862	-0.21933	0.258305	0.19266	0.997433	0.073862	0.958474
PDE7A	0.023094	-0.09019	-0.01839	0.173875	0.864607	0.50858	0.891981	0.19583	0.119336	-0.28988	0.162803	-0.20325	0.785216	0.025342	0.85736	0.087742
C11orf73	-0.06609	0.264999	-0.25716	0.075547	0.625256	0.048406	0.053473	0.576481	-0.09694	0.420809	-0.07512	0.262521	0.260797	0.998205	0.311903	0.961013
CWC15	0.105128	0.079307	-0.11854	0.115527	0.440647	0.564917	0.384233	0.39651	0.012033	0.266489	-0.23823	0.128113	0.531629	0.963289	0.057523	0.801919
HSPC152	-0.00213	0.044712	-0.25126	0.259508	0.987461	0.743508	0.059387	0.051251	-0.1656	0.468226	-0.2847	0.467212	0.135703	0.999484	0.029014	0.999469
UFC1	-0.12848	-0.06291	-0.11786	-0.16866	0.340845	0.645098	0.38258	0.209775	-0.29135	-0.07325	-0.11755	-0.04264	0.024738	0.314277	0.220937	0.389227
C20orf43	0.019146	0.143766	-0.29366	0.27909	0.887585	0.290474	0.026615	0.035521	-0.06001	0.417201	-0.06889	0.251254	0.345995	0.99804	0.326479	0.953941
PDE8A	-0.00416	0.28068	-0.1163	0.295011	0.97551	0.036138	0.388967	0.025896	0.22798	0.136433	-0.01093	0.148807	0.936225	0.81703	0.471608	0.838176
CHMP5	-0.08127	0.071677	-0.3336	-0.04954	0.551554	0.603041	0.011986	0.716914	-0.34352	0.335935	-0.29103	0.290593	0.010434	0.987968	0.027644	0.973598
GTSE1	-0.09641	0.188948	0.107562	-0.07052	0.479657	0.167103	0.430076	0.605529	-0.05819	0.415713	-0.10039	0.191755	0.350436	0.997968	0.255875	0.899136
ETV7	-0.1218	-0.2358	0.073976	0.218654	0.366746	0.080203	0.584458	0.102244	-0.0392	-0.00197	0.063563	0.069941	0.397948	0.494808	0.66086	0.677913
DTL	0.002301	0.094585	-0.08821	-0.08346	0.986573	0.492152	0.517982	0.540827	-0.12033	0.527919	-0.18862	0.330511	0.212851	0.999919	0.107323	0.987565
NCKIPSD	-0.11301	-0.01009	0.018707	0.06601	0.402601	0.941159	0.890148	0.62565	-0.15517	0.004138	0.00463	-0.10505	0.151579	0.510886	0.51204	0.243592
PDE9A	0.204152	-0.19911	0.27655	0.051798	0.127694	0.141252	0.037301	0.701975	0.200506	-0.24388	0.23898	-0.15099	0.90924	0.051198	0.943063	0.158257
LARS	0.111406	0.1887	-0.17662	0.186016	0.409353	0.163681	0.188756	0.165929	-0.00904	0.378657	-0.16077	0.364064	0.476217	0.995269	0.145716	0.993563
TMEM14C	0.087649	0.176961	-0.35908	0.164548	0.520646	0.196197	0.006572	0.225561	-0.13553	0.431558	-0.36689	0.447638	0.187353	0.998462	0.007149	0.998976
CXXC5	0.060376	0.138011	0.117531	-0.23326	0.655498	0.310416	0.383916	0.080765	-0.00156	-0.01039	0.452508	-0.01103	0.495931	0.473005	0.998979	0.471335
TMEM138	-0.16731	0.129968	-0.22492	0.010718	0.213504	0.339723	0.092539	0.936931	-0.24119	0.160398	-0.14923	0.136707	0.05318	0.856528	0.163934	0.817517
C20orf111	-0.04155	0.380348	-0.25478	-0.13278	0.758917	0.003833	0.055794	0.324816	0.062321	0.345301	-0.12128	0.143041	0.65963	0.990621	0.213704	0.828522
C14orf129	-0.23077	0.359478	-0.29138	0.170994	0.087049	0.007029	0.029342	0.207652	-0.2834	0.621632	-0.30241	0.394989	0.028159	0.999998	0.021741	0.996703
C14orf100	-0.05153	0.122775	-0.2142	0.11259	0.703441	0.367345	0.109602	0.404358	-0.11834	0.281702	-0.1294	0.275917	0.216737	0.971061	0.198445	0.968278
ANAPC11	-0.00199	-0.04239	0.033127	-0.01988	0.98827	0.756413	0.806745	0.883296	-0.18909	0.24849	-0.28044	0.100952	0.104099	0.952063	0.031025	0.747791
PDE1B	0.157558	-0.11088	0.261824	0.221554	0.241796	0.415919	0.049137	0.097663	0.274431	-0.30131	0.240948	-0.19626	0.96753	0.02093	0.94458	0.095565

ZC3HC1	-0.0539	-0.06576	-0.01065	0.133571	0.690495	0.630132	0.937355	0.321909	-0.07402	0.252217	-0.15541	0.41717	0.314472	0.952684	0.156888	0.997821
C9orf156	-0.09332	-0.10471	-0.20062	-0.0861	0.489918	0.44246	0.134557	0.524234	-0.238	0.026222	-0.04462	-0.05733	0.055607	0.568668	0.385501	0.352546
PHF7	-0.16885	-0.01913	-0.09533	-0.27619	0.209279	0.888679	0.480571	0.037557	-0.24449	-0.02235	-0.02194	0.0613	0.05076	0.441403	0.443115	0.657149
VTA1	-0.05739	0.25025	-0.32519	0.046512	0.671566	0.062859	0.013579	0.731175	-0.2228	0.44979	-0.20727	0.326675	0.068335	0.999144	0.085941	0.986648
PPHLN1	-0.0716	0.330829	-0.23236	0.197524	0.596613	0.012759	0.081985	0.140808	-0.0205	0.372879	-0.05271	0.30969	0.446206	0.994647	0.365463	0.981888
MTP18	-0.14048	-0.06807	-0.02477	-0.15585	0.297292	0.618169	0.854863	0.246988	0.037481	0.156646	0.015146	-0.02265	0.597662	0.850743	0.53933	0.440607
ZCCHC17	-0.12707	0.241647	-0.3557	0.008653	0.35069	0.075505	0.007137	0.949534	0.115266	0.250606	-0.01996	0.176033	0.77721	0.953506	0.448237	0.879044
PDGFA	0.093078	-0.0122	0.035065	-0.15336	0.491043	0.928877	0.795676	0.254712	0.240758	-0.20313	0.167556	-0.23534	0.946494	0.087876	0.864372	0.057694
SCLY	0.057453	0.026122	0.107929	-0.25871	0.671198	0.848448	0.424213	0.051993	-0.09499	-0.04857	0.120976	-0.17151	0.265017	0.374278	0.785705	0.127211
VPS54	0.067746	0.202067	-0.23141	0.176773	0.616573	0.135311	0.083271	0.188366	0.124552	0.354819	-0.06569	0.224978	0.795236	0.992231	0.334072	0.93361
ZNF581	0.016352	0.113443	0.099164	-0.10354	0.903906	0.40514	0.463013	0.443404	-0.03128	-0.01498	0.032029	-0.16387	0.418251	0.460656	0.582722	0.138256
SIRT7	-0.16512	0.123004	-0.06771	-0.13217	0.219637	0.366443	0.616739	0.327067	-0.25676	0.181756	-0.16097	0.037525	0.042487	0.88665	0.145409	0.597774
SIRT6	-0.09926	-0.0777	0.240109	-0.05372	0.462573	0.569205	0.072012	0.691446	-0.05699	-0.09337	0.007157	-0.07308	0.353394	0.268553	0.518608	0.31468
PDGFB	0.07062	-0.2454	0.202838	0.031107	0.601662	0.068308	0.130218	0.818319	0.246834	-0.435	0.313773	-0.29525	0.95091	0.001259	0.98209	0.023183
CINP	0.039734	-0.09381	-0.27865	0.020398	0.769173	0.491634	0.035822	0.880289	0.053409	0.28147	-0.17155	0.211584	0.637775	0.970954	0.12991	0.920963
RAB14	-0.01092	0.291892	-0.34591	0.178727	0.935766	0.029048	0.008399	0.183452	-0.09648	0.606388	-0.21269	0.465938	0.261799	0.999996	0.080349	0.99945
CCRL1	0.122024	-0.18764	-0.00992	-0.2749	0.370306	0.170107	0.942157	0.040322	0.077031	-0.21724	-0.11366	-0.35106	0.692499	0.075862	0.231295	0.009026
PEX5L	0.145947	-0.0432	0.129183	-0.45688	0.278686	0.751879	0.338203	0.000354	0.106303	-0.32445	0.170401	-0.26267	0.759014	0.013909	0.868456	0.0389
LGSN	0.030552	-0.01061	0.103968	-0.31812	0.823124	0.938697	0.445731	0.016878	-0.04147	-0.16121	-0.19056	-0.27823	0.393385	0.145047	0.107661	0.032112
NT5DC3	0.044391	0.028811	-0.09086	-0.14735	0.74529	0.834604	0.505418	0.278495	0.046452	-0.21775	-0.04075	-0.36629	0.620407	0.073013	0.395196	0.006146
PDGFRA	0.224107	-0.19218	0.026146	0.445213	0.093763	0.15591	0.846911	0.00052	0.258546	-0.0843	0.244014	0.176443	0.958623	0.28876	0.946883	0.8796
RAB6B	0.05397	-0.38286	0.193409	-0.42175	0.692805	0.003914	0.153227	0.001206	-0.02892	-0.57439	0.13606	-0.43408	0.42434	1.50E-05	0.813586	0.001289
IL23A	-0.11932	-0.18472	0.119624	-0.10858	0.376663	0.172915	0.375444	0.421418	-0.07928	-0.3248	0.153937	-0.28578	0.300243	0.013821	0.84366	0.027098
MBIP	0.090648	0.136079	-0.17083	0.097432	0.502477	0.317305	0.203901	0.470899	0.197502	0.062283	-0.02033	0.086076	0.905856	0.659537	0.447277	0.71525
HDAC7	0.018027	-0.25076	0.191062	0.061772	0.894115	0.06231	0.154538	0.648049	0.040767	0.022199	0.008684	0.030607	0.606033	0.558212	0.522574	0.58001
ARMCX3	0.150926	0.010718	0.106421	0.252485	0.262433	0.937508	0.430755	0.058117	0.312539	-0.04252	0.076419	0.083058	0.982772	0.38951	0.69109	0.70842
TTRAP	0.052102	0.148497	-0.18657	0.130395	0.700306	0.274722	0.164644	0.333652	0.018637	0.282483	-0.05765	0.166105	0.548922	0.971421	0.353396	0.865044
UFM1	-0.04187	0.104345	-0.14326	0.20116	0.759323	0.448368	0.292198	0.137112	-0.03525	0.321624	-0.11896	0.239334	0.408061	0.985357	0.218188	0.945416
PDGFRL	0.447115	-0.24769	0.312521	-0.03641	0.000551	0.068261	0.019026	0.789898	0.448706	-0.55947	0.591257	-0.27702	0.999119	2.65E-05	0.999991	0.031175
FAM49B	-0.05936	0.360328	-0.37559	0.208758	0.660948	0.006373	0.003989	0.119139	-0.02378	0.500079	-0.17918	0.260933	0.437672	0.999799	0.11945	0.960071
GDE1	0.063809	0.458494	-0.11229	0.030663	0.640352	0.000431	0.409973	0.822496	0.037931	0.471321	-0.15582	0.372822	0.59881	0.999527	0.15337	0.994641
LARP7	-0.07364	0.274178	-0.29008	0.067875	0.586184	0.040869	0.028611	0.615901	-0.1275	0.378329	-0.1499	0.276966	0.199228	0.995236	0.162847	0.968798
ESF1	-0.0017	0.248258	-0.20659	0.077039	0.989975	0.065053	0.123111	0.568954	0.077402	0.227719	-0.02361	0.206062	0.695426	0.936	0.438837	0.915266
PDE6B	-0.24737	0.018699	0.082655	-0.24666	0.063574	0.891197	0.541029	0.064362	-0.04879	-0.42648	0.131502	-0.33433	0.373717	0.001561	0.8054	0.011576
AZIN1	-0.07661	0.05873	-0.19168	-0.03032	0.571125	0.667231	0.153184	0.822827	-0.21368	0.147742	-0.10079	0.12965	0.076951	0.836419	0.255011	0.804765
PCF11	0.03044	0.21343	-0.17834	0.222929	0.82215	0.114245	0.184406	0.095547	0.14436	0.403519	-0.02129	0.333742	0.830761	0.997289	0.444811	0.988295
MED15	-0.15507	0.15436	0.024916	0.098661	0.249407	0.256002	0.854034	0.465295	-0.01215	0.435971	-0.12394	0.252449	0.468072	0.998772	0.208643	0.954735
PIAS4	-0.05212	0.092666	-0.005	-0.17328	0.702855	0.501016	0.970814	0.201563	0.161929	0.142033	0.119194	-0.16316	0.856046	0.823997	0.779538	0.142101
PDGFRB	0.331776	-0.23092	0.216596	0.230476	0.013341	0.092965	0.112209	0.09048	0.387529	-0.13039	0.336942	0.065678	0.996103	0.193879	0.988192	0.667732
TRIM33	-0.04397	0.298682	-0.2226	0.153054	0.745359	0.02535	0.096057	0.255686	0.102339	0.302308	0.040268	0.279482	0.750726	0.979423	0.603583	0.970017
SRRT	0.035911	0.037305	0.047129	0.041324	0.790856	0.784879	0.727745	0.760207	0.053954	0.26606	-0.06847	0.147555	0.639126	0.963048	0.327476	0.83611
NBAS	-0.01313	0.155355	-0.12734	0.01201	0.922789	0.25291	0.345199	0.929346	-0.07621	0.237759	-0.19773	0.169426	0.307351	0.944205	0.096459	0.869841
CUTA	0.022892	0.050591	0.057122	0.05916	0.86578	0.71117	0.672988	0.662012	-0.24449	0.357331	-0.12756	0.246213	0.05076	0.992614	0.201848	0.950471
LSR	-0.08144	0.159896	0.012705	0.01484	0.547032	0.239134	0.925271	0.912757	-0.1122	0.45776	-0.25203	0.219468	0.228929	0.99931	0.047441	0.928604
ATP5G1	-0.00213	0.005699	0.090332	-0.05039	0.987441	0.96675	0.503973	0.709722	-0.10372	0.175141	-0.22247	0.116851	0.24638	0.877829	0.070932	0.780346
PDHA1	0.015979	0.201934	-0.19556	0.203737	0.906951	0.139284	0.148623	0.132045	-0.03024	0.651645	-0.3617	0.362612	0.420935	1	0.007315	0.993368
LIPT1	0.087858	0.143625	0.034965	0.010358	0.515773	0.290952	0.796246	0.939046	0.083052	-0.06232	0.314658	-0.04989	0.708407	0.340367	0.982363	0.370969
NOP58	0.029147	0.286388	-0.26433	0.281987	0.82959	0.032368	0.046929	0.033576	0.112461	0.557242	-0.19215	0.416044	0.771599	0.999971	0.10302	0.997984
METTL13	-0.16948	0.263021	-0.25028	0.183878	0.211762	0.052364	0.06283	0.174915	-0.11582	0.607171	-0.19471	0.365188	0.221693	0.999996	0.099974	0.993711
PIGT	-0.13015	0.023029	-0.08943	0.001529	0.334582	0.866217	0.50827	0.990992	-0.31772	0.395512	-0.24656	0.243387	0.015712	0.996742	0.05126	0.948441

TRMT6	-0.26145	0.336974	-0.3116	-0.11351	0.051611	0.011879	0.019402	0.40486	-0.33487	0.320101	-0.16585	0.064223	0.011458	0.984947	0.138124	0.664228
ATP6V1H	-0.02686	0.290728	-0.30457	0.033825	0.842813	0.029725	0.02125	0.80275	-0.02071	0.385486	-0.08263	0.222108	0.445673	0.995923	0.294729	0.931036
C7orf20	-0.11925	-0.10209	0.072209	-0.02546	0.376945	0.454033	0.593491	0.850888	0.090578	-0.13603	0.059048	-0.21186	0.7253	0.183689	0.649991	0.078762
PDHA2	-0.04477	-0.12691	0.20464	-0.29236	0.740898	0.351296	0.126766	0.027328	0.114555	-0.36331	0.243117	-0.3979	0.775796	0.006537	0.946217	0.003086
DPH5	-0.00588	0.286523	-0.24731	0.044215	0.965388	0.032283	0.063643	0.743983	-0.16604	0.501437	-0.17831	0.254503	0.13505	0.999807	0.120619	0.956075
ERGIC3	-0.1674	0.012494	-0.15789	-0.13459	0.217507	0.927864	0.245162	0.322688	-0.28894	0.008392	-0.17923	-0.05	0.027113	0.521815	0.12219	0.372152
TAF9B	0.082843	0.184354	-0.22082	-0.04034	0.540111	0.173781	0.098801	0.765745	-0.06254	0.265651	-0.05675	0.179006	0.339841	0.962817	0.355583	0.883038
HMP19	0.132925	-0.14329	0.388975	-0.15844	0.328754	0.296642	0.003048	0.243506	0.158661	-0.21552	0.076139	-0.30027	0.85106	0.077536	0.688366	0.022529
UBE2D4	0.066358	0.014207	0.133285	-0.07195	0.623829	0.917228	0.322953	0.594818	-0.07996	-0.07795	0.177256	-0.04008	0.298664	0.303313	0.877962	0.395714
PDHB	0.06345	0.238123	-0.25302	0.271537	0.639141	0.077182	0.057573	0.041032	-0.06891	0.482748	-0.19612	0.324198	0.324525	0.99966	0.098326	0.986027
KLF13	0.105644	0.123931	-0.08726	0.383374	0.434146	0.362817	0.518661	0.003244	0.311274	0.369915	-0.00049	0.195249	0.982384	0.994302	0.498735	0.90326
DYNC2L1	-0.087	-0.03595	-0.11317	-0.07061	0.519901	0.792526	0.40194	0.601718	-0.26993	-0.08146	-0.0087	0.008413	0.034823	0.295218	0.477387	0.522125
SLC25A39	-0.09193	-0.02736	-0.02901	-0.05091	0.496446	0.841351	0.830382	0.706835	-0.13958	0.073761	-0.19	0.014745	0.180232	0.684932	0.108359	0.538293
PDK1	0.073723	0.08244	-0.047	0.586065	0.585748	0.545817	0.72845	1.67E-06	0.2524	0.369869	0.029668	0.275798	0.954703	0.994296	0.576702	0.968219
LUC7L2	0.034475	0.097886	-0.04156	0.093371	0.799041	0.472933	0.758905	0.489672	0.442933	-0.18986	0.01683	-0.10865	0.998974	0.10315	0.543689	0.236142
OTUD6B	-0.06345	0.237811	-0.15755	0.080088	0.639119	0.077581	0.241807	0.553714	-0.17458	0.171946	-0.32216	0.143734	0.125694	0.870641	0.016476	0.826896
RBMX2	0.063212	0.424382	-0.07701	0.058723	0.640401	0.001115	0.569094	0.664361	-0.07194	0.334997	-0.0074	0.176926	0.317349	0.988569	0.480764	0.880254
DHRS7	0.264646	0.114989	-0.00232	0.220754	0.046658	0.398729	0.986314	0.098911	0.123162	0.211367	0.006843	0.195195	0.792591	0.920744	0.517793	0.903198
C14orf166	0.039133	0.129699	-0.30723	0.149435	0.772572	0.340733	0.020089	0.267232	-0.22531	0.279709	-0.29195	0.284974	0.066098	0.970125	0.025831	0.972547
SF3B14	-0.04891	0.12559	-0.38586	0.099122	0.717882	0.356378	0.003033	0.4632	-0.16175	0.475712	-0.29004	0.475918	0.141421	0.999583	0.02664	0.999586
PDK2	0.200174	-0.17312	0.055589	-0.24425	0.135449	0.201974	0.681287	0.067096	-0.06333	-0.0344	0.14389	-0.12872	0.337923	0.410222	0.827159	0.196948
MRPL48	-0.08034	0.283581	-0.18114	-0.14153	0.552473	0.034179	0.177515	0.293641	-0.31305	0.36872	-0.20025	0.259319	0.017072	0.994157	0.093598	0.959096
TMBIM4	-0.06814	0.191802	-0.14719	0.270148	0.617761	0.160668	0.279007	0.04405	-0.06619	0.333984	-0.20884	0.348841	0.332884	0.987526	0.086846	0.990577
PPIL1	-0.06871	0.14586	-0.18219	-0.08378	0.61156	0.28343	0.174979	0.535517	-0.24076	0.271995	-0.10677	0.167804	0.053501	0.966273	0.24256	0.867512
YPEL5	0.059582	0.051181	-0.15224	0.104896	0.659748	0.70795	0.258266	0.437426	-0.05373	0.208797	-0.11397	0.157064	0.361434	0.918123	0.228005	0.851394
FAM96B	-0.14547	-0.01728	-0.25164	-0.00023	0.280275	0.899421	0.058996	0.998674	-0.37867	0.368195	-0.41115	0.215514	0.00473	0.994093	0.00251	0.924843
MRPS23	-0.03267	-0.03045	-0.03022	-0.19921	0.809379	0.823696	0.823436	0.137388	-0.37905	0.208251	-0.29864	0.128968	0.00469	0.917559	0.023148	0.803505
PDK3	0.265588	-0.09441	-0.02084	0.227165	0.045854	0.488857	0.87772	0.089252	0.129881	0.078388	0.116967	0.110541	0.80519	0.697707	0.77792	0.767714
MRPS33	-0.20526	0.127375	-0.37915	-0.1001	0.125589	0.349526	0.003631	0.458777	-0.36582	0.405948	-0.3054	0.215412	0.006732	0.997169	0.021903	0.922358
PTRH2	-0.168	0.182488	-0.03936	0.341424	0.220173	0.186584	0.775388	0.010739	-0.13265	0.310092	-0.27581	0.188137	0.192522	0.980915	0.034977	0.892074
VPS24	0.106408	0.266948	-0.20769	0.036551	0.43081	0.046717	0.121091	0.787213	-0.03267	0.347255	-0.1485	0.239089	0.414662	0.990972	0.165139	0.945229
CDK5RAP1	0.050837	-0.03526	0.027198	0.197101	0.709825	0.798281	0.84228	0.145384	0.066869	0.279536	-0.0435	0.207509	0.66874	0.968535	0.389604	0.91431
RASD1	0.169972	-0.23756	0.304548	-0.01424	0.206213	0.07791	0.021259	0.916248	0.353875	-0.28078	0.226869	-0.23322	0.992082	0.029369	0.933021	0.0594
STYXL1	-0.2484	-0.01541	-0.13541	-0.13421	0.062443	0.910221	0.315239	0.319593	-0.43576	0.045142	-0.20472	-0.02273	0.001235	0.617109	0.088664	0.440417
GINS2	0.071403	0.183954	-0.02537	-0.18147	0.597629	0.174732	0.851397	0.176714	-0.07528	0.270486	-0.09771	0.095283	0.309502	0.965475	0.261551	0.735617
PDK4	0.310187	-0.32324	0.012712	-0.06863	0.018863	0.015101	0.925228	0.611946	0.450632	-0.41357	0.233666	-0.45082	0.999053	0.002372	0.936565	0.000942
BRP44L	0.062943	0.131402	-0.22136	0.27631	0.64183	0.334374	0.097957	0.037473	-0.02326	0.378175	-0.1385	0.272901	0.439023	0.99522	0.182121	0.966745
FKBP7	0.248348	-0.21151	0.17901	0.226055	0.062498	0.117608	0.182747	0.090869	0.243429	-0.28235	0.192229	-0.03281	0.948471	0.028638	0.897076	0.414319
ZFR	0.0042	0.192229	-0.22214	0.118135	0.975265	0.1558	0.096755	0.381461	-0.00323	0.234404	-0.10244	0.263377	0.49149	0.941558	0.251561	0.961513
ASB1	-0.08488	0.033874	-0.03094	0.093521	0.530166	0.804254	0.819281	0.488971	-0.24465	0.148228	-0.19212	0.040105	0.050644	0.837223	0.103057	0.60435
ASB4	0.021241	-0.1766	0.219753	-0.23965	0.87538	0.192926	0.100488	0.072574	0.224119	-0.50518	0.071234	-0.28303	0.930568	0.000201	0.677061	0.029788
NUB1	-0.00112	-0.0363	-0.07119	0.33616	0.993402	0.790518	0.598713	0.01057	0.042464	0.095994	0.067473	0.244512	0.61034	0.737159	0.670172	0.949256
HSPB11	-0.14529	-0.05886	-0.12924	-0.18186	0.280882	0.666542	0.337981	0.175756	-0.40636	-0.08287	-0.02172	-0.00846	0.002537	0.292007	0.443683	0.477753
TMEM66	-0.06986	0.141393	-0.15074	-0.00608	0.608932	0.303151	0.267454	0.964506	-0.21703	0.131314	-0.13212	0.087842	0.073699	0.807817	0.193475	0.719212
ENPP1	0.460665	-0.25064	0.352898	-0.05872	0.000353	0.064941	0.007637	0.66727	0.605812	-0.3555	0.354602	-0.38449	0.999995	0.008276	0.990906	0.004557
TPPP3	-0.1201	-0.11413	0.009298	-0.23188	0.37352	0.402303	0.945275	0.08263	-0.23388	-0.18832	0.032655	-0.13719	0.05886	0.105034	0.584316	0.181633
ASB2	0.349195	-0.15759	0.401293	0.100852	0.00776	0.246061	0.001977	0.455392	0.351327	-0.41184	0.24595	-0.28677	0.99167	0.002229	0.948299	0.026663
MPP6	0.367795	0.00801	-0.00867	0.070676	0.004883	0.953281	0.948969	0.601374	0.394578	-0.06241	0.291322	0.011007	0.996343	0.341898	0.972484	0.528603
ENPP2	0.113442	-0.39615	-0.09702	0.358151	0.400791	0.002508	0.47279	0.006229	0.209095	0.025055	0.163723	0.184373	0.915971	0.564886	0.855868	0.887327
SUFU	-0.08888	0.05702	0.024453	0.111001	0.510885	0.676375	0.85672	0.411066	-0.08136	0.101403	-0.02195	0.164974	0.29545	0.748747	0.443109	0.863383

OAZ3	-0.24911	-0.08714	-0.08285	0.006933	0.064113	0.523093	0.543826	0.959555	-0.12545	-0.33052	0.129518	-0.33414	0.203067	0.012434	0.80177	0.011617
ENPP3	-0.07842	-0.20313	0.188247	0.071785	0.56204	0.133216	0.160819	0.595668	-0.03968	-0.39679	0.103916	-0.333	0.396734	0.003165	0.751531	0.011868
LSM7	-0.29573	0.160117	-0.19229	-0.02219	0.026904	0.242914	0.155665	0.871018	-0.25439	0.442824	-0.27903	0.318225	0.043995	0.998971	0.031713	0.98443
LSM8	0.021665	0.184367	-0.09402	0.132759	0.872909	0.17375	0.486646	0.324885	-0.08764	0.283611	0.051411	0.084633	0.281234	0.971935	0.631336	0.711994
CPSF3	-0.12655	0.285876	-0.36938	0.119972	0.348221	0.032692	0.004688	0.374048	-0.26571	0.566428	-0.21881	0.413236	0.037151	0.99998	0.074355	0.997844
TRAPPC2L	-0.05601	-0.1345	-0.04534	-0.00251	0.679017	0.323001	0.737677	0.985239	-0.45605	0.323068	-0.29998	0.208126	0.000723	0.985736	0.022637	0.917429
HECA	0.126172	0.116663	0.06531	0.221258	0.349676	0.39185	0.62933	0.098122	0.044775	0.445702	0.138663	0.081485	0.616182	0.999046	0.818168	0.70483
VPS29	0.009421	0.189626	-0.23934	0.186599	0.944548	0.161584	0.072952	0.164583	-0.01304	0.436424	-0.16049	0.329173	0.465727	0.998786	0.146139	0.987251
ATP5G2	0.137313	-0.07957	0.162108	0.026995	0.308412	0.559943	0.228294	0.842006	0.035211	0.18246	-0.0805	-0.02074	0.590809	0.88486	0.301732	0.446212
PDPK1	-0.16879	-0.04606	-0.06105	-0.2243	0.209424	0.736066	0.651873	0.093475	-0.09336	-0.22472	-0.03508	-0.2634	0.268582	0.066623	0.40953	0.038474
CYB5R2	-0.15467	0.150537	-0.21724	-0.19484	0.250635	0.268108	0.10453	0.146403	-0.2635	0.337552	-0.21054	0.139228	0.038417	0.98911	0.082538	0.821946
NLK	-0.08568	0.21122	-0.18213	-0.00263	0.526263	0.118131	0.175103	0.984538	-0.01928	0.245381	-0.03799	0.093189	0.449412	0.94988	0.402159	0.731049
PADI3	-0.05453	-0.09974	0.045349	-0.22758	0.689789	0.468739	0.73998	0.091636	-0.10139	0.134595	0.053906	0.049312	0.25127	0.813753	0.637465	0.627578
ACSL5	-0.25744	0.140229	-0.18341	0.565989	0.053197	0.302628	0.172057	4.47E-06	-0.18126	0.551406	-0.10569	0.523056	0.113992	0.999964	0.244789	0.999904
GPRC5B	0.271743	-0.22644	0.264281	0.444065	0.040873	0.093319	0.046973	0.00054	0.390284	-0.08205	0.129359	0.197572	0.996335	0.293872	0.801478	0.905936
EMCN	0.251484	-0.16076	0.060293	0.319495	0.059154	0.236577	0.65594	0.015412	0.321246	-0.15922	0.156899	0.159793	0.985256	0.145268	0.848327	0.855605
CYB5R1	-0.17829	0.129384	-0.18702	-0.12211	0.188624	0.346468	0.167535	0.369984	-0.2362	0.294281	-0.10487	0.089837	0.057012	0.976438	0.246477	0.723656
ZNF44	0.005926	-0.05501	-0.00326	-0.00839	0.965425	0.687168	0.980969	0.951042	0.006877	0.011783	-0.06517	0.127511	0.51809	0.530974	0.335292	0.800799
SELT	0.029113	0.130959	0.006508	0.107266	0.831332	0.340579	0.962034	0.431355	-0.21813	0.121919	-0.29407	0.255918	0.072654	0.790213	0.024952	0.95698
RAB23	0.066823	0.06903	-0.1362	0.155496	0.624611	0.616528	0.316863	0.252477	-0.04994	-0.003	0.044033	0.05692	0.370861	0.492096	0.613023	0.646441
CES4	-0.09398	-0.06169	-0.04506	-0.275	0.486848	0.651515	0.739237	0.038422	-0.21849	-0.28287	-0.02269	-0.10918	0.07231	0.028403	0.441202	0.235066
CAB39	-0.09086	0.20376	-0.2128	0.192186	0.501469	0.132	0.11199	0.152081	-0.12188	0.318794	-0.08334	0.255024	0.209869	0.984589	0.293134	0.95641
SLC26A4	-0.11194	-0.19271	0.111115	0.39894	0.411421	0.158662	0.414912	0.002322	-0.24296	0.163909	-0.06457	0.067259	0.051871	0.861807	0.336734	0.671523
UIMC1	-0.13015	0.077263	-0.20836	0.103587	0.334554	0.571401	0.119867	0.443198	0.047439	-0.08087	-0.05748	-0.07497	0.622886	0.29658	0.353811	0.310231
FBXO40	0.210617	-0.13572	0.329315	-0.19125	0.115814	0.318586	0.012371	0.154131	0.105858	-0.35788	0.232777	-0.24531	0.758091	0.007304	0.938073	0.050169
DNAJB11	-0.04852	0.152042	-0.12012	0.302379	0.722513	0.267806	0.377855	0.023509	-0.20603	0.519323	-0.28829	0.434593	0.084768	0.999891	0.027397	0.998728
CMPK1	-0.19118	0.336398	-0.32642	0.1338	0.158103	0.012034	0.014077	0.325552	-0.09591	0.485762	-0.21515	0.270385	0.263017	0.999689	0.077905	0.965421
POLR3K	-0.12756	0.279064	-0.14364	0.12934	0.344376	0.03727	0.28643	0.337611	0.001438	0.35775	-0.29577	0.190746	0.503784	0.992677	0.024268	0.897921
WBP11	-0.07494	0.173799	-0.18486	-0.11728	0.579575	0.200182	0.168629	0.384956	-0.11721	0.24691	-0.05178	0.106271	0.221604	0.94899	0.369262	0.756409
PDYN	-0.25724	-0.03329	0.093169	-0.06273	0.053391	0.807588	0.490615	0.642941	-0.01898	-0.31963	0.123736	-0.29928	0.450184	0.015181	0.790975	0.021665
UPB1	-0.07363	-0.08438	0.190274	-0.08751	0.586202	0.53637	0.156277	0.517464	0.03329	-0.29382	0.089758	-0.26372	0.586921	0.023745	0.721183	0.038288
SEPX1	-0.16315	-0.31682	0.141879	-0.06481	0.225292	0.017358	0.292447	0.631984	-0.12876	-0.30991	-0.05892	-0.14892	0.196887	0.018043	0.350311	0.161633
RAPGEF6	-0.0314	0.196337	-0.28349	0.330854	0.816615	0.146983	0.032603	0.011944	0.124395	0.347848	-0.13917	0.329083	0.794938	0.991077	0.180954	0.98723
GHRL	-0.08811	-0.07125	0.163208	-0.21864	0.514545	0.601812	0.22511	0.102274	0.121057	-0.48045	0.287245	-0.48748	0.788552	0.000363	0.97214	0.000295
WWOX	0.007884	-0.2148	0.201529	-0.28166	0.953584	0.111888	0.132768	0.033794	0.219954	-0.00266	0.12218	-0.13842	0.929056	0.493004	0.788013	0.179462
ARID4B	-0.00746	0.109437	-0.1625	0.136897	0.956065	0.422033	0.227171	0.309896	0.092018	0.0572	0.027048	0.05795	0.728478	0.647129	0.569999	0.64897
CD244	-0.21057	-0.15391	0.112381	0.381002	0.119302	0.261885	0.409582	0.003768	-0.14236	-0.08283	-0.16234	0.044955	0.175451	0.29428	0.146202	0.615326
CROP	0.042177	0.15332	-0.06738	0.176872	0.755409	0.259255	0.618461	0.188116	0.121923	0.07615	0.177148	-0.01159	0.787523	0.690469	0.875004	0.469893
PECAM1	0.263986	-0.27896	0.110472	0.290587	0.051474	0.041079	0.422016	0.031379	0.403096	-0.33231	0.278603	-0.06528	0.997262	0.012025	0.968074	0.333218
RTEL1	0.051325	-0.0618	0.149214	0.032443	0.704569	0.650938	0.267948	0.81066	-0.04707	0.106842	-0.05654	0.021969	0.37805	0.760131	0.356099	0.557611
HIGD1B	-0.04445	-0.22128	0.172037	0.049504	0.742675	0.101231	0.200673	0.714595	0.146273	-0.21339	0.117032	-0.09919	0.833977	0.077237	0.778049	0.255961
ERAP1	-0.08149	0.142867	-0.10244	0.587085	0.546773	0.293531	0.448268	1.59E-06	-0.12303	0.545954	-0.06037	0.592223	0.207657	0.999957	0.346812	0.999993
C9orf127	0.042112	-0.16564	0.191327	-0.22726	0.755778	0.222451	0.153957	0.089121	-0.02287	-0.15607	-0.12696	-0.18638	0.440054	0.150153	0.202961	0.107446
CRKRS	-0.14095	0.167872	-0.2244	0.029522	0.295661	0.216197	0.093319	0.827434	-0.02087	0.240602	-0.12809	0.205927	0.445262	0.946376	0.200859	0.915123
C9orf78	0.014485	0.145407	-0.32577	-0.08367	0.914838	0.284944	0.013403	0.536056	0.079523	-0.09374	-0.12417	-0.20867	0.700327	0.26774	0.208212	0.082006
SERPINF1	-0.00185	0.19518	-0.0347	0.278462	0.989085	0.149429	0.797777	0.035954	-0.10963	0.337402	-0.06189	0.401945	0.234148	0.989079	0.343141	0.997188
SYT17	-0.28669	-0.13779	0.05243	-0.16258	0.030608	0.311213	0.69851	0.226918	-0.02172	-0.3857	0.112405	-0.1946	0.443692	0.00444	0.766219	0.100097
ATP8A2	0.199553	-0.09312	0.295471	-0.31172	0.140343	0.498899	0.027046	0.019352	0.102438	-0.44267	0.256822	-0.39114	0.750934	0.001033	0.955719	0.003596
RAB8B	0.150271	-0.12147	-0.04539	0.458161	0.264536	0.372507	0.737445	0.000339	0.264925	-0.12675	0.158343	0.191043	0.962405	0.200616	0.85057	0.898279
INPP5K	0.106177	-0.15115	0.058123	0.156329	0.431818	0.266142	0.66759	0.245534	0.023584	0.099068	-0.02395	0.038518	0.561817	0.743778	0.437949	0.60031

GNG13	0.081541	-0.16636	0.283368	-0.28857	0.546517	0.220434	0.032681	0.029489	0.14514	-0.49575	0.253815	-0.34824	0.832077	0.00023	0.953755	0.008854
RP6-213H1	0.24027	0.118824	-0.25754	-0.06228	0.071816	0.383077	0.053109	0.645365	0.087723	0.326207	0.054883	0.136827	0.716681	0.985625	0.638271	0.814943
TM7SF3	0.03784	0.275429	-0.22292	0.278963	0.779896	0.039922	0.095554	0.035608	0.056252	0.545209	-0.28496	0.507454	0.643199	0.999946	0.030407	0.999813
RSF1	0.088211	0.098227	-0.1805	0.067791	0.514081	0.471386	0.179081	0.616335	-0.05482	0.153355	0.04734	0.179101	0.358724	0.845545	0.621265	0.883164
ZAK	0.282558	-0.07316	0.033261	0.170412	0.033204	0.592041	0.805979	0.205022	0.243421	-0.08984	0.17666	0.039557	0.948465	0.276327	0.877155	0.602956
MYOZ2	0.122071	-0.11593	0.153221	-0.20813	0.365686	0.394868	0.255162	0.12028	0.050805	-0.5242	0.340803	-0.40288	0.631305	9.23E-05	0.989015	0.002752
PEG3	0.186516	-0.24089	0.246967	-0.06309	0.164774	0.073703	0.064018	0.641061	0.261824	-0.5446	0.317984	-0.36187	0.960602	4.56E-05	0.983359	0.006733
JMJD1B	-0.03283	0.064884	-0.18239	-0.05457	0.808454	0.63472	0.174482	0.686807	-0.10133	0.180111	0.005007	0.104283	0.251408	0.884498	0.51302	0.754808
PENK	0.085381	-0.25645	0.249929	0.149538	0.531535	0.058771	0.063209	0.271333	-0.03658	-0.24604	0.153184	0.083059	0.406808	0.053707	0.836629	0.704027
ATP5G3	-0.01351	0.101183	-0.05302	0.053434	0.921293	0.462311	0.697925	0.695705	-0.36681	0.542888	-0.32652	0.341704	0.00608	0.999952	0.014293	0.989943
ACCN5	0.157166	-0.29544	0.149077	-0.36001	0.242984	0.027065	0.268394	0.005947	0.027204	-0.35314	0.157053	-0.28075	0.571212	0.008036	0.848567	0.029381
SIX4	-0.10449	-0.12405	0.011442	-0.3761	0.439213	0.362336	0.932682	0.003935	-0.18791	-0.16174	0.064782	-0.03225	0.105546	0.141435	0.663775	0.415743
COQ3	0.167416	0.287087	0.10036	0.196225	0.217466	0.033574	0.461765	0.147219	-0.07402	0.521563	-0.21845	0.275408	0.31246	0.999899	0.074698	0.968024
CALML5	-0.0839	-0.12722	-0.00027	-0.17988	0.534914	0.350102	0.998415	0.180585	0.055292	-0.12344	0.069054	-0.19675	0.642431	0.206869	0.673908	0.09501
TUBA8	-0.03241	-0.13927	0.056019	-0.14072	0.810861	0.30597	0.678954	0.296457	0.154558	-0.4108	0.131902	-0.29138	0.847458	0.002285	0.806126	0.024722
PHAX	-0.0222	0.208775	-0.28065	0.152733	0.869806	0.122549	0.034463	0.256698	-0.05045	0.378218	-0.11524	0.34117	0.36958	0.995224	0.225479	0.989839
GALNT7	-0.09825	0.389469	-0.17378	0.056479	0.467178	0.003008	0.196088	0.676466	-0.06212	0.463681	-0.21024	0.251462	0.340863	0.999414	0.082846	0.95408
CECR1	-0.01127	-0.29112	-0.10782	0.157882	0.933664	0.029498	0.424678	0.240816	-0.24728	0.10896	-0.07645	0.228268	0.048776	0.764489	0.308835	0.936471
PEPD	0.13848	-0.0595	-0.17002	0.272405	0.304278	0.663141	0.206069	0.040365	-0.06392	0.472524	-0.04605	0.269018	0.336496	0.999543	0.381936	0.964685
PER1	0.163076	-0.29158	0.147703	-0.03698	0.225492	0.029227	0.272881	0.784789	0.330136	-0.36849	0.150915	-0.4329	0.987477	0.00587	0.838806	0.001328
PET112L	0.000922	0.303334	-0.14202	-0.15974	0.994567	0.023051	0.291963	0.235247	-0.40908	0.479806	-0.29621	0.137634	0.00238	0.99963	0.024094	0.819153
PEX1	-0.02089	0.276624	-0.29721	0.028951	0.877414	0.039033	0.024755	0.830723	-0.12485	0.375273	-0.11537	0.165488	0.204204	0.994913	0.225221	0.864139
PEX6	-0.18965	-0.08067	-0.03158	-0.35017	0.157677	0.554481	0.815631	0.00758	-0.39683	0.128275	-0.12737	-0.04382	0.003162	0.80222	0.202204	0.386228
PEX7	-0.18867	0.144985	-0.16978	-0.03565	0.159872	0.286357	0.206744	0.792369	-0.09934	0.152644	-0.0244	0.039608	0.255648	0.844408	0.436792	0.603088
PEX10	0.042832	0.033059	0.098218	-0.25069	0.753944	0.810638	0.471424	0.06238	-0.1491	0.226324	-0.14323	0.082016	0.161336	0.934792	0.173958	0.706044
PEX12	-0.07074	0.114435	-0.18321	0.115789	0.601045	0.40102	0.172529	0.391052	-0.24921	0.313901	-0.06581	0.267158	0.047441	0.983182	0.333779	0.963663
PEX13	-0.16071	0.294457	-0.25884	0.141543	0.232386	0.027601	0.051874	0.293603	-0.15078	0.486899	-0.11418	0.26635	0.158603	0.9997	0.227574	0.963211
PEX14	-0.15917	-0.01685	0.054822	-0.14858	0.236957	0.901876	0.685456	0.270003	-0.1551	0.049962	-0.13481	0.026331	0.151679	0.6292	0.188645	0.568949
PF4	-0.04154	-0.4614	0.085749	-0.23681	0.758983	0.000345	0.52594	0.07613	-0.12167	-0.62092	0.032894	-0.42429	0.212965	2.67E-06	0.583935	0.001838
PF4V1	-0.06574	-0.23832	0.179511	-0.3722	0.627047	0.076924	0.181504	0.004358	-0.06727	-0.4262	0.059103	-0.38471	0.330304	0.001754	0.648433	0.004535
PFAS	-0.00559	-0.08048	0.04027	0.001225	0.967099	0.55545	0.766146	0.992785	-0.02568	0.188055	-0.1285	-0.00312	0.43275	0.894634	0.200104	0.491798
CFP	-0.13384	-0.34981	0.205011	-0.24956	0.320925	0.008223	0.126065	0.061187	-0.24479	-0.46977	-0.03866	-0.48117	0.052548	0.000565	0.401632	0.00041
ACP1	-0.06369	0.273107	-0.21188	0.098236	0.637895	0.041695	0.113599	0.467227	0.001967	0.297255	-0.14652	0.216535	0.505176	0.977583	0.168423	0.925828
PFDN1	-0.0126	0.256261	-0.05408	-0.01177	0.92586	0.056598	0.6895	0.930747	-0.02531	0.243455	0.084562	0.251034	0.433701	0.94849	0.709625	0.953794
PFDN2	-0.01365	-0.14883	0.151895	-0.19418	0.919741	0.27363	0.259348	0.147803	-0.03281	-0.37357	-0.08879	-0.27343	0.414315	0.005274	0.280957	0.032982
PFDN4	0.078625	0.074327	-0.08343	-0.00696	0.560999	0.586154	0.537245	0.959021	-0.07796	0.206382	0.009465	0.1033	0.303292	0.915604	0.524601	0.752749
PFDN5	-0.04197	-0.20843	-0.08701	-0.01712	0.756558	0.123175	0.519826	0.899429	-0.21987	-0.08342	-0.1184	0.010169	0.07335	0.292949	0.221992	0.526429
ATP8B1	-0.06554	0.37763	-0.17013	-0.08812	0.62813	0.004114	0.205785	0.514524	-0.00517	0.377338	-0.17816	0.313072	0.486555	0.994695	0.123629	0.981871
PFKFB1	-0.23391	-0.07412	0.06952	-0.31228	0.079902	0.587217	0.607353	0.018035	-0.36348	-0.01341	-0.05066	-0.01555	0.006514	0.464762	0.370523	0.459147
PFKFB2	-0.16431	0.242763	-0.29352	-0.0541	0.221941	0.071424	0.026692	0.689383	0.004888	0.049202	-0.11271	-0.12501	0.51286	0.627302	0.230522	0.2039
PFKFB3	-0.08192	-0.22259	-0.03318	-0.02518	0.54467	0.099168	0.806415	0.852527	0.023008	-0.13243	0.111054	-0.18243	0.560318	0.19015	0.76616	0.112474
ATP5I	-0.11431	0.132012	-0.11197	-0.21705	0.397173	0.332116	0.406973	0.104856	-0.38099	0.225269	-0.45382	0.11459	0.004498	0.933867	0.000871	0.775864
PFKFB4	-0.04079	-0.24334	0.136097	-0.17083	0.765354	0.073418	0.317238	0.208108	0.011494	-0.19776	0.172836	-0.35855	0.529868	0.096429	0.869053	0.007792
PFKL	-0.07375	0.015314	-0.0357	0.122524	0.585627	0.910807	0.792036	0.363896	-0.16683	0.321421	-0.19356	0.233237	0.133897	0.985303	0.101337	0.940615
VIT	0.3341	-0.29204	0.255639	0.116119	0.011851	0.030503	0.057222	0.394076	0.511565	-0.28074	0.507107	-0.12933	0.999836	0.03088	0.999778	0.198567
PFKM	0.22544	-0.21295	-0.06569	-0.10674	0.091774	0.115076	0.627306	0.429345	0.054505	-0.054	0.053332	-0.04751	0.640488	0.360761	0.636057	0.376928
PFKP	-0.07703	0.019995	-0.1128	0.18698	0.568979	0.883708	0.403491	0.163708	-0.19591	0.592569	-0.18006	0.417613	0.095967	0.999993	0.118285	0.998059
PFN1	0.014957	0.056872	0.067429	0.167455	0.912875	0.680032	0.621465	0.217358	-0.05465	0.231575	-0.11801	0.207947	0.359163	0.939252	0.220038	0.917243
PFN2	-0.02857	0.132753	-0.06727	-0.20755	0.832935	0.329387	0.619032	0.12134	-0.24033	0.034656	-0.04974	0.045043	0.053827	0.590428	0.372794	0.616859
PFTK1	0.141901	-0.21616	0.052813	0.178065	0.296843	0.112958	0.699073	0.189188	0.149049	-0.17066	0.36047	0.054688	0.838574	0.128404	0.992502	0.640942

ATP5J	-0.09564	0.074277	-0.1795	-0.0957	0.483191	0.589926	0.185598	0.482915	-0.02298	0.195668	-0.07019	0.042588	0.439764	0.903747	0.323422	0.610654
PGA5	-0.04968	-0.14367	0.181573	-0.27535	0.716147	0.295368	0.180478	0.03998	-0.05696	-0.32069	0.169212	-0.32494	0.35345	0.014893	0.86676	0.013784
PGAM2	-0.01284	-0.12385	0.189199	-0.10006	0.925194	0.367644	0.162549	0.46313	0.14236	-0.37342	0.203329	-0.20522	0.82736	0.005292	0.909818	0.085627
PGC	0.05341	0.040932	0.261635	-0.20866	0.693147	0.764543	0.049307	0.119317	0.090981	-0.11443	0.234974	-0.10532	0.723871	0.227077	0.937652	0.245549
PGD	-0.04807	0.4847	-0.32182	-0.08131	0.722516	0.000153	0.014639	0.547636	-0.2573	0.631826	-0.32758	0.391468	0.042148	0.999999	0.014022	0.996431
PGF	0.143905	-0.40337	0.225408	-0.09802	0.285539	0.002052	0.091823	0.468193	0.320769	-0.21715	0.289147	-0.12861	0.985128	0.073581	0.972976	0.197162
PGGT1B	-0.01978	0.103842	-0.26102	0.227782	0.883894	0.446287	0.049861	0.088363	-0.18482	0.211598	-0.28591	0.2885	0.109414	0.920977	0.028458	0.974077
ATP6V1A	0.065305	0.153122	-0.27751	0.008519	0.629357	0.259878	0.03662	0.949854	-0.23319	0.331269	-0.17476	0.277936	0.059425	0.987739	0.12544	0.969273
PGK1	0.01626	0.258546	-0.32507	0.331766	0.904444	0.054355	0.013614	0.011698	-0.13066	0.580439	-0.24782	0.433246	0.193376	0.999988	0.050361	0.998683
PGK2	0.028665	-0.07685	0.132639	-0.2778	0.832367	0.573467	0.325326	0.036417	0.258533	-0.28839	0.19593	-0.29753	0.958615	0.025968	0.901456	0.022315
PGM1	0.314078	0.064044	0.206594	0.002575	0.017348	0.639117	0.123102	0.984831	0.216912	0.022234	0.238595	0.127348	0.926189	0.558302	0.942763	0.800494
PGM3	0.027064	0.121485	-0.07286	0.240001	0.841606	0.372438	0.590143	0.072145	0.129992	0.285602	-0.04913	0.217281	0.805393	0.972824	0.374307	0.926541
PGM5	0.436105	-0.23234	0.225462	0.156393	0.000696	0.084869	0.091742	0.245337	0.404688	-0.38267	0.31416	-0.21525	0.997362	0.004336	0.98221	0.075412
PGR	0.263984	-0.18135	0.269312	0.092647	0.049305	0.185143	0.044734	0.497053	0.261917	-0.37424	0.308251	-0.20357	0.958898	0.005661	0.97911	0.089916
ABCB1	0.171331	-0.11889	0.044285	0.409823	0.202553	0.382807	0.743595	0.001546	0.182504	0.033719	0.030856	0.229749	0.884918	0.587023	0.578802	0.935521
ABCB4	0.048487	-0.06095	-0.04564	-0.11565	0.720218	0.6554	0.736033	0.391641	-0.16335	-0.20557	0.069279	-0.10505	0.141818	0.087756	0.672508	0.246122
PHB	0.177827	-0.02842	-0.15049	0.196942	0.189791	0.836824	0.268266	0.145716	-0.044	0.481896	-0.13388	0.376634	0.385768	0.999652	0.190304	0.995059
ATP6V1B1	-0.03516	-0.47647	0.206557	-0.21527	0.795128	0.000206	0.123171	0.1078	-0.05469	-0.50364	0.138492	-0.41212	0.359043	0.00018	0.817869	0.002214
SLC25A3	0.112812	0.242895	-0.23546	0.317953	0.407775	0.073962	0.080648	0.01694	-0.07017	0.692353	-0.36556	0.46009	0.321545	1	0.006767	0.999353
PHEX	-0.13202	0.0487	-0.06016	-0.19124	0.327628	0.721519	0.656673	0.154144	-0.30332	-0.1583	0.045575	-0.01368	0.020223	0.146693	0.616872	0.464042
PHF1	0.218499	-0.33923	0.270951	0.050746	0.102494	0.01054	0.041488	0.707751	0.273472	-0.2995	0.190275	-0.23209	0.96704	0.021583	0.894708	0.06032
PHF2	0.028778	-0.00365	0.102051	-0.22604	0.831718	0.978701	0.450024	0.090891	0.063235	-0.07365	0.103787	-0.20132	0.661842	0.313324	0.751262	0.089858
PHKA1	-0.05096	0.23286	-0.19915	-0.17686	0.706574	0.084152	0.137507	0.188146	0.018336	0.299553	-0.03985	0.141002	0.548133	0.978435	0.397466	0.825025
PHKA2	-0.05641	0.084471	-0.13153	-0.13853	0.682473	0.543655	0.338466	0.313152	-0.00964	0.092457	-0.1411	0.083527	0.474938	0.7271	0.180463	0.707296
PHKB	0.005382	0.379341	-0.17403	0.233928	0.968307	0.003935	0.195439	0.079881	0.082256	0.472546	-0.14962	0.378697	0.706593	0.999543	0.163295	0.995273
ATP6V1B2	0.051229	0.074009	-0.29462	0.266454	0.705097	0.587758	0.026102	0.045124	-0.08264	0.287403	-0.11341	0.164315	0.292529	0.973609	0.229105	0.862409
PHKG1	-0.04797	-0.03838	0.173379	-0.08187	0.723089	0.778834	0.197128	0.544899	0.048011	-0.38884	0.160369	-0.30409	0.624321	0.003785	0.853679	0.019956
PHKG2	-0.20894	0.038882	-0.09164	0.01925	0.118808	0.776021	0.497769	0.886982	-0.24539	0.197324	-0.2762	0.0519	0.050117	0.905653	0.033135	0.634031
PHYH	0.097065	-0.0623	-0.09673	-0.12261	0.472579	0.648283	0.47411	0.363545	0.071308	-0.0503	0.214999	-0.02451	0.681154	0.369956	0.921951	0.435767
SERPINA1	-0.07319	-0.53744	0.189164	-0.00821	0.588451	1.95E-05	0.158754	0.951666	0.05876	-0.55512	0.152086	-0.3591	0.649294	3.78E-05	0.837817	0.007706
PI3	-0.05614	0.17871	-0.08236	-0.02007	0.681112	0.191741	0.546194	0.883286	-0.17936	0.360022	-0.21684	0.153686	0.116495	0.993007	0.076245	0.846073
SERPINA4	-0.04209	-0.15497	0.244612	-0.15277	0.755923	0.254105	0.066679	0.256582	0.27256	-0.40628	0.34782	-0.35244	0.966568	0.002542	0.99039	0.008147
SERPINB5	0.039464	0.385286	-0.18071	-0.00203	0.772755	0.003675	0.182595	0.988125	-0.03902	0.717334	-0.29384	0.395615	0.398412	1	0.025046	0.996749
SERPINB6	-0.04942	0.030097	-0.06188	-0.28381	0.715081	0.825719	0.647469	0.032398	-0.19894	0.123661	-0.02637	0.135093	0.092514	0.793543	0.431735	0.814644
ATP6V0C	-0.13446	0.292578	-0.20792	-0.01228	0.318675	0.028655	0.120655	0.927735	-0.19046	0.35117	-0.15067	0.097299	0.10243	0.991644	0.161584	0.739979
SERPINE2	0.289476	0.101809	0.040129	0.245769	0.030469	0.459534	0.769031	0.06788	0.209635	0.363123	-0.01253	0.421194	0.918985	0.993437	0.467449	0.998222
SERPINB8	-0.12419	0.438732	-0.14482	0.042008	0.361789	0.000806	0.286917	0.758534	-0.0464	0.593851	-0.13359	0.297338	0.379727	0.999993	0.190833	0.977614
SERPINB9	-0.03981	0.043735	-0.1198	0.6101	0.768719	0.748928	0.374732	4.70E-07	0.076214	0.107031	0.130317	0.084974	0.690616	0.757973	0.800427	0.710549
SERPINB10	0.073963	-0.14564	-0.07867	-0.19961	0.587994	0.288714	0.564405	0.140218	-0.48086	0.037502	-0.10671	0.163347	0.000359	0.597715	0.242681	0.86097
SERPINI1	0.240544	-0.25892	0.010179	0.084326	0.071483	0.053998	0.940094	0.532856	0.234069	-0.30923	0.159998	-0.10541	0.941288	0.018259	0.853113	0.24285
SERPINB13	0.009806	0.582993	-0.31079	0.022539	0.94282	2.42E-06	0.019734	0.869038	-0.16304	0.762653	-0.2716	0.493332	0.139495	1	0.035557	0.999753
SERPINI2	-0.12458	-0.09337	0.034594	-0.11081	0.355848	0.493697	0.798363	0.411863	-0.14707	-0.19095	0.062614	-0.10665	0.164696	0.101827	0.658587	0.240275
PIGA	-0.02593	0.191117	-0.23425	-0.06846	0.84814	0.158253	0.079458	0.612878	0.001424	0.305966	-0.177	0.011749	0.503746	0.980677	0.122379	0.530886
PIGC	-0.17224	0.303836	-0.45279	-0.03354	0.204298	0.024124	0.000458	0.806152	-0.02203	0.240695	0.084031	0.132351	0.442242	0.946447	0.708431	0.809705
ATP6V1C1	-0.00042	0.178944	-0.26874	0.190055	0.997514	0.186979	0.043242	0.156764	-0.05556	0.374088	-0.05274	0.309873	0.356897	0.994783	0.365404	0.981946
PIGF	-0.02772	0.337681	-0.22001	-0.05434	0.837842	0.010921	0.100076	0.688082	-0.16112	0.414528	-0.04033	0.273498	0.142375	0.99791	0.396249	0.967053
PIGH	-0.20173	0.055397	-0.0971	0.124589	0.132366	0.6851	0.472433	0.355804	-0.03082	-0.02155	-0.16747	-0.19785	0.419443	0.443478	0.135756	0.093744
PIGR	-0.02929	-0.19541	0.171253	0.185821	0.830338	0.152802	0.206954	0.170321	-0.16386	0.095638	0.031962	0.02765	0.141063	0.733995	0.582553	0.57154
PIK3C2A	0.121312	0.165056	-0.14206	0.19891	0.368697	0.224111	0.291837	0.137987	0.209355	0.204669	-0.07151	0.242416	0.918698	0.913783	0.32031	0.947728
PIK3C2B	0.060406	0.177052	-0.03779	0.265606	0.655338	0.191759	0.780196	0.045838	-0.00346	0.507431	-0.05482	0.489979	0.490895	0.99984	0.360307	0.999726

PIK3C2G	-0.04132	-0.24031	0.046988	-0.00192	0.762393	0.077189	0.73093	0.988803	-0.0354	-0.32865	0.073274	-0.22731	0.407657	0.012874	0.6838	0.064356
PIK3C3	-0.01294	0.21206	-0.15538	0.130498	0.92388	0.116643	0.248435	0.333266	0.003087	0.229309	-0.12198	0.174295	0.508122	0.937357	0.212378	0.876668
ATP6V1E1	0.025487	0.070632	-0.35351	0.054252	0.850727	0.604956	0.006985	0.688554	-0.04963	0.146604	-0.18801	0.100202	0.371623	0.834529	0.108087	0.746198
PIK3CA	0.015556	0.094158	-0.25225	0.148959	0.908562	0.490034	0.05836	0.268777	0.132643	0.195505	0.001841	0.099026	0.810234	0.903558	0.504788	0.743687
PIK3CB	-0.03612	0.293227	-0.2528	0.050979	0.789684	0.028287	0.057798	0.70647	0.064836	0.455889	-0.15845	0.262274	0.665707	0.999274	0.149269	0.960868
PIM1	-0.07864	-0.03365	0.016769	0.178365	0.564518	0.807288	0.902373	0.188432	-0.0894	0.122326	-0.08815	-0.09186	0.277314	0.790993	0.282365	0.271876
PIK3CD	-0.25116	-0.38633	0.00275	0.098783	0.059487	0.003272	0.983805	0.464739	-0.13835	-0.35589	0.033097	-0.23361	0.179595	0.007604	0.58544	0.059079
PIK3CG	0.000153	-0.14661	-0.01658	0.581003	0.999101	0.280924	0.902599	2.15E-06	-0.18461	-0.02532	0.024233	0.214258	0.109682	0.433685	0.562774	0.923619
PIK3R1	0.31167	-0.18885	0.042965	0.295606	0.018273	0.16333	0.750986	0.025583	0.532625	-0.32459	0.243578	-0.0886	0.999931	0.013873	0.946561	0.279095
PIK3R2	0.009965	0.090034	0.006867	-0.28384	0.941892	0.513304	0.959937	0.03401	-0.20138	0.382543	-0.15438	0.212151	0.089792	0.995652	0.155643	0.921532
PI4KA	-0.03526	0.191543	-0.17513	0.294937	0.796408	0.161244	0.196701	0.027337	-0.17796	0.364469	-0.08134	0.407219	0.121085	0.993081	0.299825	0.997251
PI4KB	-0.01067	0.120795	-0.13337	0.167806	0.937795	0.37968	0.327139	0.216381	-0.18348	0.490669	-0.1086	0.334633	0.113816	0.999689	0.241431	0.987675
ACP2	0.028604	0.059429	0.065887	0.169506	0.832718	0.663502	0.626299	0.207475	-0.08139	0.559694	-0.09362	0.384634	0.295392	0.999974	0.270371	0.995846
PIN1	-0.1755	-0.10353	-0.04469	-0.18425	0.191627	0.447675	0.741356	0.170048	-0.28734	-0.04722	-0.07873	0.049664	0.027818	0.379038	0.305731	0.627023
PIN1L	-0.05525	0.012752	0.218251	-0.21363	0.683115	0.92568	0.102894	0.110575	0.176749	-0.41845	0.178936	-0.33439	0.877276	0.002114	0.877416	0.012381
PIN4	-0.07781	0.110863	-0.17272	0.120444	0.568657	0.420365	0.203033	0.37658	-0.00455	0.226767	-0.08529	0.003911	0.488033	0.935177	0.288748	0.510289
PIP	0.231237	-0.37317	0.292394	0.022417	0.083512	0.004617	0.027307	0.868539	0.196098	-0.33598	0.387119	-0.23973	0.901653	0.012021	0.995694	0.056358
PIP4K2A	0.047444	-0.141	0.024747	0.36208	0.72842	0.304525	0.856337	0.006104	0.060635	-0.30164	0.041011	-0.02492	0.652096	0.023303	0.602998	0.436208
PITPNA	-0.06452	0.061935	-0.10394	-0.05951	0.63349	0.650215	0.441641	0.660153	-0.10303	0.173583	-0.19084	0.016435	0.247822	0.875684	0.104609	0.543163
PITX1	-0.0763	0.128586	0.025011	-0.14776	0.576217	0.349476	0.854817	0.277151	-0.25285	0.566892	-0.20839	0.264949	0.045003	0.99998	0.084767	0.962419
PITX2	-0.11257	-0.16708	0.13233	-0.20064	0.404456	0.218394	0.326463	0.134529	0.097767	-0.45553	0.130921	-0.27478	0.740987	0.000733	0.804341	0.032291
PITX3	-0.00898	-0.1348	0.29878	-0.18665	0.947127	0.321921	0.02397	0.164459	0.131386	-0.3119	0.214861	-0.31573	0.807949	0.017422	0.921816	0.016281
PKD1	0.012117	-0.18233	0.156373	-0.12975	0.928717	0.178646	0.245398	0.336081	0.103852	-0.19361	0.042296	-0.19384	0.753906	0.098656	0.608676	0.098392
PKD2	0.214852	-0.14074	-0.01423	0.04163	0.108501	0.300865	0.916357	0.758487	0.441004	-0.27859	0.130396	-0.2027	0.998921	0.030412	0.803382	0.088347
PKLR	-0.05688	-0.09306	0.166299	-0.29171	0.674293	0.49512	0.216332	0.027686	-0.05041	-0.37877	0.123665	-0.38131	0.369685	0.004719	0.790841	0.004466
PKHD1	0.049321	-0.15967	0.14708	-0.33843	0.715608	0.239797	0.27493	0.010025	0.082224	-0.37989	0.149276	-0.3768	0.706519	0.004606	0.836134	0.004924
PKM2	0.001233	0.212731	-0.18294	0.344685	0.992738	0.115463	0.173163	0.008648	-0.13626	0.639115	-0.27454	0.499757	0.183274	0.999999	0.033996	0.999797
PKNOX1	-0.09798	0.187509	-0.14544	-0.10284	0.468392	0.166405	0.280379	0.446511	0.036669	0.155185	-0.0536	0.135178	0.595587	0.84845	0.363281	0.814797
PKP1	0.069536	0.219099	-0.14747	-0.03526	0.610581	0.10802	0.278075	0.796399	-0.12853	0.695284	-0.24683	0.38818	0.19731	1	0.05107	0.996159
PKP2	-0.07873	0.227907	-0.2156	-0.0838	0.560476	0.091153	0.107253	0.535406	0.016694	0.335345	-0.12667	-0.02266	0.54384	0.988644	0.203507	0.44059
PLA2G1B	0.074313	0.005053	0.093131	-0.15949	0.582743	0.970514	0.490793	0.235993	0.10567	-0.27566	-0.02345	-0.25226	0.757701	0.031848	0.439225	0.045392
PLA2G2A	0.112113	-0.20937	0.342781	0.08145	0.410706	0.124992	0.009705	0.550669	0.437169	-0.11655	0.275771	-0.17479	0.998662	0.222905	0.965	0.125396
PLA2G4A	-0.15213	0.306405	-0.20888	0.078024	0.263021	0.022894	0.122363	0.567604	-0.19282	0.367071	-0.23131	0.313856	0.102213	0.993438	0.065424	0.982115
PLA2G5	0.276096	-0.22212	0.353779	0.030548	0.037627	0.099895	0.00694	0.821532	0.301873	-0.32359	0.218635	-0.18232	0.97927	0.014128	0.925476	0.112617
PLAG1	0.232061	-0.18456	0.192262	0.018556	0.082386	0.173302	0.151917	0.891029	0.221979	-0.25579	0.261437	-0.15221	0.930919	0.043101	0.958606	0.156286
PLAGL1	0.341194	-0.18587	0.157335	0.296877	0.009395	0.170211	0.242471	0.024927	0.479054	0.04869	0.280384	0.161672	0.999622	0.62602	0.968948	0.858457
PLAGL2	-0.38022	0.446022	-0.29873	0.010534	0.003529	0.000571	0.023993	0.93801	-0.42597	0.456458	-0.54726	0.27667	0.001581	0.999285	5.01E-05	0.968652
PLAT	0.08265	0.215277	-0.05045	0.239006	0.541058	0.111071	0.709365	0.073369	0.036428	0.555442	-0.05363	0.478864	0.59497	0.999969	0.363217	0.999619
PLAU	0.056341	0.135927	-0.03845	0.151651	0.680022	0.322415	0.778425	0.264541	-0.07165	0.540492	-0.09325	0.461235	0.318029	0.999947	0.271168	0.999373
PLAUR	-0.03326	-0.11299	0.170967	0.180291	0.805986	0.407051	0.203529	0.179585	0.214654	0.0257	0.109444	-0.00185	0.921611	0.566541	0.760278	0.495181
ATP6V0B	-0.04769	0.152763	-0.16432	0.239351	0.724616	0.261012	0.22193	0.072942	-0.14175	0.518297	-0.31621	0.347001	0.173679	0.999888	0.017165	0.990927
PLCB2	-0.20405	-0.3448	0.112691	0.168739	0.127887	0.009258	0.403936	0.209569	-0.30622	-0.44616	0.040981	-0.18662	0.019238	0.000943	0.605376	0.10715
PLCB3	-0.06879	0.248453	-0.16903	0.005341	0.611122	0.064836	0.208766	0.968545	-0.01769	0.546084	-0.23143	0.339833	0.453559	0.999957	0.063053	0.989574
PLCB4	0.083034	-0.11495	0.182476	-0.25901	0.539169	0.398895	0.17428	0.051716	0.174641	-0.40412	0.240044	-0.27296	0.877144	0.002673	0.943887	0.033222
PLCD1	0.061145	-0.11903	0.003043	-0.13747	0.651392	0.382256	0.982075	0.307851	0.163266	-0.19997	0.017472	-0.16645	0.86085	0.09136	0.545348	0.134446
BCL11A	0.098597	0.065889	-0.10264	0.195707	0.465587	0.629473	0.447409	0.144574	-0.16231	0.505647	-0.16924	0.406027	0.140584	0.999831	0.133198	0.997443
CPXCR1	-0.04756	-0.08846	0.092006	-0.17179	0.725348	0.516784	0.496069	0.201318	0.129555	-0.26637	0.321097	-0.23342	0.80459	0.036779	0.984249	0.059238
BTBD1	-0.15335	0.347963	-0.29313	0.061184	0.254759	0.008592	0.026906	0.651185	-0.166	0.37757	-0.15817	0.348631	0.135107	0.995157	0.149701	0.991213
PLCL1	0.309557	-0.20616	0.121254	0.042533	0.019119	0.127418	0.368926	0.753411	0.364697	-0.32036	0.255732	-0.16113	0.993647	0.014983	0.955014	0.142368
SPA17	-0.08524	-0.13335	-0.00816	-0.21717	0.528417	0.327208	0.951948	0.104649	-0.26613	-0.1731	0.047985	-0.05561	0.036913	0.124985	0.622865	0.356773

IL17D	0.025252	-0.18423	0.194278	-0.17474	0.852087	0.174078	0.147587	0.193578	0.118572	-0.38279	0.200971	-0.29512	0.783725	0.004325	0.907211	0.023234
NUDT9	0.012256	0.162244	-0.16334	-0.18007	0.927902	0.232214	0.224736	0.180131	-0.13072	0.263327	-0.23144	0.165534	0.193277	0.961484	0.063044	0.864206
CHIC1	0.163517	0.102992	0.152513	-0.0346	0.224222	0.450039	0.257391	0.7983	0.271806	0.164896	0.284096	0.119107	0.966174	0.863268	0.970709	0.78477
TM6SF2	0.223854	-0.00798	0.349181	-0.04021	0.094143	0.953482	0.007763	0.766505	0.213722	-0.34711	0.315004	-0.26104	0.923092	0.009053	0.982469	0.039862
TM6SF1	0.145688	-0.19963	0.120494	0.374738	0.279547	0.140182	0.371958	0.004079	0.093836	-0.27684	0.189881	-0.00263	0.732465	0.031266	0.894226	0.493081
UBASH3A	0.075998	-0.16915	0.184196	0.345861	0.577736	0.217003	0.174156	0.00903	-0.10333	-0.07298	0.153684	0.010521	0.247192	0.314914	0.843258	0.527662
ZFYVE1	0.088381	0.115262	-0.17618	-0.00451	0.513267	0.3976	0.18987	0.973416	-0.16571	0.489525	-0.21399	0.202628	0.135534	0.999722	0.079053	0.911577
PLCG1	0.283681	-0.28448	0.184961	0.278009	0.032481	0.03359	0.168386	0.03627	0.310222	-0.10318	0.209455	0.0323	0.980958	0.249996	0.913805	0.583414
LRP1B	0.262981	-0.10801	0.044001	-0.18136	0.050206	0.432487	0.747451	0.180988	0.430257	-0.5193	0.102951	-0.44742	0.998411	0.000128	0.746979	0.00103
PANK1	0.084399	-0.12683	0.030706	-0.2577	0.532498	0.351621	0.820625	0.052955	0.093545	-0.31578	0.174997	-0.26253	0.731829	0.016265	0.874882	0.038982
SHC3	-0.00139	-0.14826	0.216368	0.042533	0.991803	0.275497	0.105972	0.75341	-0.00719	-0.40801	0.221929	-0.31278	0.481317	0.002699	0.926172	0.018221
PLCG2	0.07413	-0.26127	0.115246	0.530778	0.587146	0.054012	0.397669	2.57E-05	0.087889	-0.15688	-0.02188	-0.02633	0.717049	0.151702	0.443953	0.431834
PLD1	0.080309	0.202473	-0.14165	-0.08951	0.552616	0.134511	0.293233	0.507869	0.125429	0.212819	-0.09682	0.118211	0.794169	0.919781	0.265918	0.780352
NUP54	0.004912	0.237664	-0.30575	0.203764	0.971073	0.077771	0.020728	0.128434	0.009698	0.514108	-0.16869	0.329707	0.5255	0.999871	0.133994	0.987377
TPCN1	-0.06454	0.194901	0.058204	0.281554	0.636516	0.153885	0.670035	0.035539	0.008445	0.373176	-0.10987	0.171098	0.52221	0.994681	0.236229	0.872213
PLD2	-0.06043	0.170697	-0.13194	0.221482	0.655232	0.208455	0.327919	0.097775	-0.09004	0.564812	-0.23701	0.308982	0.27589	0.999978	0.058484	0.981663
PLEC1	-0.02987	0.041843	0.00964	-0.06293	0.825443	0.759455	0.943262	0.641887	0.030572	0.21216	-0.09173	0.099066	0.57992	0.92154	0.274499	0.743773
ATP6V1G2	-0.01339	-0.06065	0.184346	-0.23516	0.921245	0.657036	0.169831	0.07826	0.033232	-0.38196	0.208985	-0.28957	0.586771	0.004404	0.915857	0.025473
PLG	0.007378	-0.19323	0.181616	-0.31274	0.95656	0.153606	0.176354	0.017858	-0.27114	-0.24893	-0.06448	-0.21785	0.034179	0.047637	0.336955	0.072915
CLIC5	-0.19453	-0.10065	0.026437	0.135469	0.147047	0.460452	0.84523	0.315018	-0.24729	0.256412	0.044601	0.477181	0.048772	0.957292	0.614442	0.9996
STX18	-0.2605	0.171396	-0.13725	-0.06658	0.050333	0.20657	0.308631	0.622661	-0.35403	0.373834	-0.03086	0.250448	0.008519	0.994291	0.4212	0.951476
PLEK	-0.16801	-0.38362	-0.03753	0.344604	0.215823	0.003838	0.783616	0.0093	-0.16313	-0.45988	0.125659	-0.2487	0.139349	0.000651	0.794602	0.047791
SERPINF2	-0.0161	-0.14813	0.281056	-0.27766	0.905393	0.275909	0.034191	0.036513	0.048754	-0.461	0.118973	-0.57113	0.626181	0.000631	0.781835	1.70E-05
PLIN	-0.03124	-0.26809	0.201645	-0.30849	0.817549	0.045752	0.132541	0.019557	0.165999	-0.61138	0.257545	-0.4465	0.864888	3.19E-06	0.956181	0.000934
PLK1	-0.08886	0.243092	0.023774	-0.14095	0.514897	0.07372	0.861927	0.300128	-0.1784	0.67058	-0.24549	0.387206	0.11777	1	0.052035	0.996075
FXVD1	0.186121	-0.47806	0.242936	-0.29069	0.165686	0.000194	0.068626	0.028262	0.199532	-0.64684	0.330005	-0.51605	0.908152	5.96E-07	0.986581	0.000121
FXVD3	-0.26583	0.410681	-0.32111	0.009559	0.045649	0.001667	0.014872	0.943738	-0.15149	0.575868	-0.42171	0.31848	0.160258	0.999983	0.002179	0.983504
ATP6V0A1	0.24498	0.198098	-0.08351	0.061153	0.066257	0.14332	0.53685	0.65135	0.211917	0.306138	0.006636	0.212911	0.921297	0.980734	0.517255	0.92229
PLN	0.268166	-0.21522	0.130205	0.129161	0.04371	0.111165	0.33436	0.338285	0.358486	-0.41358	0.311967	-0.22054	0.992785	0.002138	0.981521	0.070399
PLOD1	0.257214	-0.20486	0.270122	0.066865	0.053417	0.129875	0.042139	0.621171	0.306189	-0.01353	0.167274	0.01032	0.980751	0.464448	0.863962	0.527134
PLOD2	0.25476	-0.02627	-0.10989	0.080481	0.055816	0.847598	0.415815	0.55176	0.344996	0.18843	0.081931	0.151165	0.989855	0.892438	0.701498	0.83921
PLP1	0.204341	-0.04637	-0.01761	0.31016	0.127334	0.734337	0.896539	0.018874	0.430596	-0.21015	0.395907	-0.07208	0.998425	0.082939	0.996095	0.318978
PLP2	-0.06752	0.300733	-0.31022	0.072276	0.620983	0.025682	0.019975	0.596559	-0.1123	0.80656	-0.35525	0.48823	0.228723	1	0.008316	0.999711
PLRG1	-0.08705	0.280482	-0.28633	0.258253	0.519664	0.036275	0.030827	0.052427	-0.05259	0.567708	-0.0983	0.430274	0.36425	0.999981	0.260294	0.998581
PLS1	-0.05405	0.291817	-0.28631	-0.05365	0.689669	0.029091	0.030839	0.691824	-0.34202	0.45125	-0.16494	0.298801	0.009996	0.999177	0.139456	0.97816
PLS3	0.255694	0.192192	-0.24863	0.11773	0.054892	0.155881	0.062193	0.383106	0.176431	0.440106	-0.05907	0.304819	0.879584	0.998896	0.34995	0.980291
PLSCR1	-0.17034	0.1203	-0.21275	0.460483	0.205217	0.377154	0.11209	0.000313	-0.12544	0.472657	-0.15471	0.441974	0.205819	0.999478	0.15799	0.998816
PLTP	0.161464	-0.29135	0.113436	0.134852	0.230174	0.02936	0.400813	0.317247	0.010649	0.31065	0.064881	0.24467	0.527675	0.981097	0.662182	0.947366
PLXNA1	0.077316	-0.03223	0.029187	0.058198	0.567563	0.813584	0.829361	0.667182	-0.10122	0.365322	-0.1562	0.283958	0.251639	0.993729	0.152766	0.972092
MBD3	0.031176	-0.03554	0.147757	-0.02427	0.817925	0.794841	0.272702	0.857768	-0.02245	0.065639	-0.00505	-0.05756	0.441136	0.667637	0.486863	0.351987
ADAM22	0.09095	-0.50725	0.060323	-0.18574	0.501047	6.61E-05	0.65578	0.166562	0.129672	-0.47747	0.199604	-0.16021	0.802054	0.000456	0.903032	0.146566
PLXNA2	0.018969	0.205698	-0.1432	-0.06088	0.888617	0.128286	0.287936	0.652816	-0.20535	0.554843	-0.21631	0.346731	0.085487	0.999969	0.076768	0.990879
BCMO1	-0.03697	0.027224	0.221991	-0.10098	0.784808	0.84213	0.096987	0.454811	-0.15394	-0.21151	0.134784	-0.08963	0.15352	0.079114	0.811316	0.276809
PRKAG3	-0.03027	0.038951	0.148253	-0.33404	0.823152	0.775631	0.271077	0.011101	0.094352	-0.28098	0.125172	-0.33687	0.731216	0.030764	0.790912	0.011823
PTOV1	0.077704	-0.19041	0.173561	-0.17677	0.5692	0.163781	0.200808	0.192481	-0.01849	-0.15159	0.166192	-0.39656	0.452029	0.160102	0.859523	0.003499
S1PR5	0.058748	-0.08304	0.22005	-0.08958	0.664228	0.542902	0.100019	0.507528	-0.00474	-0.24207	0.058811	-0.1815	0.487525	0.052527	0.649417	0.113686
PLXNB1	-0.11542	-0.03433	-0.02994	-0.24818	0.392586	0.801645	0.825005	0.062685	-0.18607	0.15959	-0.04518	-0.03123	0.110516	0.852488	0.38544	0.4193
PLXNB3	0.104283	-0.12593	0.186629	-0.12013	0.440125	0.355048	0.164514	0.373425	0.213279	-0.21748	0.118012	-0.25064	0.922654	0.073269	0.779965	0.046474
PMAIP1	-0.07685	0.314903	-0.23621	0.156478	0.569896	0.018086	0.076895	0.24508	0.002522	0.545754	-0.03236	0.332322	0.506637	0.999956	0.416443	0.987978
PMCH	0.151879	-0.13989	0.01123	-0.17661	0.259399	0.303804	0.933922	0.188792	0.086286	-0.35409	0.100404	-0.25361	0.713482	0.008508	0.741661	0.046381

PNOC	0.010086	-0.28978	0.251191	0.147478	0.94064	0.03029	0.05946	0.273618	-0.01812	-0.18231	0.130767	-0.11813	0.452428	0.112625	0.804059	0.217133
PMCHL1	-0.11617	-0.00899	-0.02536	-0.16143	0.393868	0.948038	0.852843	0.234584	0.059949	-0.24711	0.008452	-0.29369	0.652169	0.050865	0.521713	0.025106
ATP6AP1	-0.06615	0.035376	-0.06609	0.026216	0.628135	0.797634	0.628434	0.847904	-0.28607	0.261547	-0.18961	0.164212	0.026969	0.960438	0.106101	0.862257
PMCHL2	0.141416	-0.09372	0.24801	-0.31404	0.294039	0.49208	0.062867	0.017361	-0.00496	-0.34217	0.063275	-0.27657	0.486947	0.009967	0.66017	0.031395
PML	-0.05245	-0.08455	0.149204	0.454429	0.701051	0.539367	0.272416	0.000434	0.045251	0.196041	0.074912	0.235873	0.616064	0.901586	0.685552	0.940604
PMM1	-0.18535	-0.03001	-0.08056	-0.2712	0.167474	0.826219	0.551355	0.041292	-0.34837	-0.11455	-0.02985	-0.23168	0.008833	0.224209	0.422835	0.060663
PMM2	0.030466	0.178285	0.046744	0.145607	0.822001	0.188635	0.729886	0.279819	0.275817	0.238603	-0.09536	0.01578	0.968228	0.944857	0.266606	0.541449
PMP2	-0.02135	-0.18391	-0.15369	-0.09749	0.874765	0.174838	0.253685	0.470626	0.069074	-0.5238	0.08471	-0.25407	0.675853	9.36E-05	0.709957	0.044207
PMP22	0.320755	-0.13698	0.063978	0.356268	0.016958	0.323295	0.642613	0.007592	0.383632	-0.15981	0.228067	0.073069	0.995754	0.144368	0.93407	0.685305
PMS1	-0.02067	0.126685	-0.15102	0.223889	0.87869	0.352163	0.262122	0.094091	-0.02935	0.344354	-0.11787	0.33805	0.423241	0.990446	0.220307	0.989213
PMS2L1	-0.1076	0.118278	-0.15714	-0.03439	0.425649	0.385284	0.243062	0.799549	-0.13817	0.334929	-0.29561	0.255262	0.182691	0.987742	0.025696	0.954708
ATP7A	0.021964	0.417957	-0.30112	0.006212	0.871174	0.001349	0.022838	0.963422	-0.02588	0.386816	-0.14412	0.316093	0.432226	0.996041	0.17245	0.983825
PMS2L4	-0.12288	0.191967	-0.07004	-0.03828	0.362507	0.156375	0.604679	0.7774	-0.06537	0.246807	-0.13819	0.145667	0.334835	0.948917	0.185519	0.830154
DSCR6	0.0532	-0.15111	0.248139	-0.16422	0.694295	0.266282	0.062726	0.222219	0.035543	-0.31393	0.070419	-0.21168	0.592704	0.01681	0.677122	0.078941
FXD7	0.069693	-0.16303	0.235979	-0.2555	0.606457	0.229922	0.077198	0.055085	0.12988	-0.46272	0.206895	-0.36952	0.805188	0.000602	0.913661	0.005746
FXD6	0.451432	-0.16516	0.342949	0.039471	0.000479	0.228188	0.009668	0.772714	0.2858	-0.12468	0.192043	0.089197	0.97149	0.207233	0.894142	0.719946
FXD5	0.265413	-0.08795	0.058791	0.412105	0.046002	0.519194	0.663992	0.001446	0.220983	0.050746	0.104877	0.159989	0.930008	0.631156	0.753528	0.855903
FXD4	-0.06944	-0.24445	0.249362	-0.13746	0.611052	0.072075	0.06383	0.31238	0.087323	-0.34715	0.122003	-0.282	0.718049	0.009046	0.787675	0.028801
P2RY13	-0.12171	-0.34308	-0.00462	0.156182	0.371544	0.010339	0.973033	0.250363	-0.35643	-0.32428	-0.09109	-0.14709	0.008126	0.014882	0.278245	0.167465
PMS2L5	0.011372	0.15688	0.144127	-0.22165	0.933703	0.252695	0.28925	0.100643	-0.01677	0.291254	-0.31031	0.143855	0.455959	0.975225	0.019012	0.829906
GPR84	-0.08557	-0.00701	0.113025	0.035419	0.526786	0.959089	0.402533	0.793656	0.008921	-0.22411	0.220777	-0.1104	0.523462	0.067161	0.927496	0.232578
IL20RA	-0.26485	-0.03378	-0.27663	-0.20366	0.046482	0.804798	0.037244	0.128638	-0.40024	0.264536	-0.25689	0.030311	0.002924	0.962183	0.044238	0.579247
IL20RB	0.090101	0.245029	-0.27673	0.096995	0.505068	0.068739	0.037171	0.472899	-0.18311	0.634551	-0.22635	0.384849	0.111602	0.999999	0.067437	0.995866
FGFRL1	0.10508	-0.16369	0.23925	-0.15638	0.436619	0.228019	0.073068	0.245373	0.429121	-0.45154	0.321109	-0.41891	0.998539	0.000817	0.984253	0.00188
GPR87	-0.05549	0.355223	-0.38187	0.023808	0.684588	0.007784	0.003682	0.861731	-0.17836	0.728929	-0.27897	0.523441	0.117817	1	0.031745	0.999905
C11orf24	0.08105	0.017422	0.165909	0.306038	0.548944	0.898592	0.217425	0.020602	0.215174	0.20981	0.009221	0.204737	0.924513	0.919164	0.523969	0.913856
TRIM34	0.099556	0.115304	0.105721	-0.06016	0.461235	0.397428	0.43381	0.656628	0.201055	-0.0848	0.200968	-0.11835	0.909848	0.287629	0.907206	0.216702
MUPCDH	-0.12119	-0.09906	0.113227	-0.13308	0.36917	0.467598	0.40169	0.323719	0.024996	-0.26007	0.116678	-0.19538	0.565486	0.040446	0.777354	0.096585
CLDN22	0.101806	-0.03418	0.091914	-0.06263	0.451119	0.802498	0.496501	0.643478	0.15425	-0.12719	-0.0474	-0.20809	0.84697	0.199807	0.37858	0.082612
PMS2L3	-0.33014	0.004862	-0.12551	-0.09133	0.012142	0.971628	0.352221	0.499261	0.086065	-0.00061	-0.11189	-0.14629	0.715226	0.498405	0.232153	0.165999
ATP5O	-0.09007	0.279059	-0.28691	-0.04115	0.509147	0.039093	0.032042	0.763297	-0.19921	0.489024	-0.2935	0.319922	0.092211	0.999718	0.025184	0.984899
MYO3A	-0.19584	0.167258	-0.2209	-0.30227	0.148027	0.222256	0.101831	0.023562	-0.26568	0.501526	-0.25586	0.168624	0.037164	0.999808	0.044903	0.868693
DUOX1	-0.23509	0.207489	-0.2462	-0.16877	0.078353	0.124922	0.064877	0.209488	-0.36286	0.446967	-0.2708	0.220168	0.006598	0.999077	0.035992	0.929255
RAB4B	-0.03469	-0.27526	0.224016	-0.07835	0.797786	0.04005	0.0939	0.562367	-0.12675	-0.21299	-0.04888	-0.24874	0.200627	0.077637	0.374905	0.047768
RAB24	-0.15697	-0.17561	-0.03834	0.166779	0.243564	0.195458	0.77707	0.214988	0.053546	-0.1138	-0.01776	-0.08592	0.638117	0.225717	0.453913	0.285094
PELO	0.052098	0.137687	-0.04713	0.412681	0.700326	0.311563	0.727739	0.001422	0.076707	0.363312	-0.04438	0.159436	0.69381	0.993463	0.386105	0.855059
SLCO1C1	0.247124	-0.17489	0.089156	-0.15321	0.063844	0.197338	0.509564	0.255195	0.048338	0.0478	0.133081	-0.01713	0.623741	0.622408	0.805432	0.45553
EXOSC9	-0.06625	0.262411	-0.37412	0.255929	0.624374	0.050724	0.004146	0.054662	0.03058	0.382102	-0.21577	0.319603	0.579941	0.99561	0.077288	0.984812
PPIL3	-0.12536	0.253974	-0.29585	0.009543	0.35282	0.058919	0.025458	0.943833	-0.04483	0.423477	-0.11725	0.355997	0.383686	0.998319	0.221524	0.992413
EXOSC10	-0.03489	0.06598	-0.30357	0.022495	0.796681	0.628997	0.021699	0.868085	0.076189	0.153762	-0.10587	0.064189	0.692606	0.846194	0.244424	0.664146
FTHL17	-0.00093	-0.05691	0.238454	-0.16802	0.994545	0.676977	0.074056	0.211538	0.123325	-0.45212	0.296741	-0.49273	0.792904	0.000804	0.976115	0.000252
CNTN5	-0.1459	-0.05261	-0.03504	-0.3238	0.283289	0.702835	0.79765	0.014914	-0.00193	-0.42731	-0.01344	-0.46108	0.494987	0.001708	0.465489	0.000717
CSNK1G1	-0.15171	0.256441	-0.26811	-0.07247	0.259943	0.05642	0.043758	0.592134	-0.2923	0.451695	-0.28138	0.307167	0.024351	0.999187	0.030571	0.981075
A4GALT	-0.13639	0.304998	-0.19145	-0.04212	0.311704	0.022273	0.153698	0.755744	-0.08635	0.616537	-0.16611	0.27054	0.28413	0.999997	0.137738	0.965504
PMS2	-0.05116	0.267987	-0.28772	-0.07543	0.708092	0.045837	0.031536	0.580607	-0.25658	0.452431	-0.16598	0.386151	0.0426	0.999203	0.137927	0.995983
PRRX1	0.401631	-0.18076	0.207744	0.263893	0.002155	0.18661	0.124448	0.049386	0.56926	-0.19642	0.455932	0.057483	0.999982	0.095386	0.999177	0.647825
CPSF2	0.016746	0.206591	-0.2318	0.125621	0.901604	0.1266	0.082741	0.351801	-0.12134	0.427429	-0.16119	0.402311	0.210901	0.998476	0.145067	0.997212
ACP5	0.028101	-0.16161	0.06766	0.441573	0.835622	0.234059	0.617018	0.000585	-0.1034	0.369787	-0.08465	0.432979	0.247035	0.994286	0.290174	0.998674
ATP7B	-0.1716	0.441418	-0.22499	-0.14866	0.201828	0.00066	0.092442	0.269734	-0.25899	0.625332	-0.1303	0.351824	0.041102	0.999998	0.196794	0.991751
BRWD1	-0.01826	0.256334	-0.1751	0.086927	0.892774	0.056526	0.192638	0.520248	0.219413	0.202928	0.009175	0.067519	0.928553	0.911903	0.523849	0.672145

SLC37A1	-0.36015	0.307372	-0.03717	-0.09511	0.006401	0.022445	0.785666	0.485616	-0.09546	0.28383	-0.08757	0.013173	0.266381	0.970586	0.285959	0.53422
RBM11	0.136891	-0.02436	0.057694	-0.28781	0.309918	0.85857	0.669898	0.029936	0.009393	-0.29435	0.178187	-0.31083	0.524699	0.023536	0.879217	0.017755
PCBP3	0.157532	-0.15704	0.356164	-0.02521	0.246239	0.252218	0.007057	0.853673	0.246793	-0.17795	0.075415	-0.21852	0.948906	0.121108	0.686708	0.07463
C21orf58	-0.31193	-0.08737	-0.01638	-0.29861	0.018171	0.521959	0.903763	0.024054	-0.31018	-0.20157	-0.08109	-0.20817	0.017957	0.08958	0.298216	0.082526
C21orf57	-0.10206	-0.1622	0.100107	-0.13193	0.450002	0.232335	0.458746	0.327941	-0.05723	-0.26933	-0.10383	-0.12781	0.352788	0.035145	0.248646	0.198643
PNLIP	-0.06815	-0.23062	0.054787	-0.21297	0.614441	0.087269	0.685644	0.111701	-0.06394	-0.29299	0.058328	-0.3066	0.336451	0.024074	0.648247	0.019111
FAM165B	-0.10279	0.136981	-0.13014	-0.03846	0.446733	0.314076	0.33462	0.776373	0.091252	-0.08082	-0.09084	-0.03226	0.726789	0.296691	0.276434	0.415726
C21orf49	-0.07872	0.042111	-0.03538	-0.01937	0.560525	0.757964	0.793851	0.886281	-0.08296	-0.29229	-0.02432	-0.24237	0.291811	0.024353	0.436995	0.052308
C21orf45	-0.1122	0.349768	-0.30727	0.071168	0.405994	0.008231	0.02007	0.598841	-0.11866	0.588402	-0.21193	0.301036	0.216105	0.999991	0.081113	0.978972
PNLIPRP1	0.123109	-0.11265	0.262411	-0.27073	0.366034	0.412883	0.050724	0.043576	0.096018	-0.30638	0.178688	-0.27876	0.737211	0.019186	0.879887	0.030328
PNLIPRP2	0.016829	-0.20367	0.177071	-0.08135	0.901116	0.132166	0.18761	0.547437	0.160221	-0.29025	-0.06304	-0.10895	0.856257	0.02519	0.340397	0.235532
C21orf30	-0.06071	-0.19448	0.18987	-0.15182	0.653723	0.150918	0.157175	0.259582	0.086347	-0.37672	0.291387	-0.13698	0.715859	0.004932	0.973934	0.182008
C21orf29	-0.02879	-0.24517	0.12993	-0.18998	0.831638	0.068571	0.335392	0.156938	0.129786	-0.35919	0.234262	-0.36788	0.805016	0.007113	0.939297	0.005947
PNMT	-0.098	-0.11427	0.206248	-0.20606	0.472407	0.406149	0.127244	0.127603	-0.0579	-0.23183	0.063828	-0.33327	0.352782	0.06272	0.65969	0.012639
SETD4	-0.10201	0.139555	-0.08895	-0.04607	0.450212	0.304981	0.51055	0.73363	-0.18496	0.219983	-0.06659	0.107792	0.109238	0.929084	0.331929	0.762091
FAM3B	-0.0932	0.412016	-0.22734	-0.11964	0.490455	0.001604	0.088992	0.375379	-0.27748	0.612773	-0.29602	0.236645	0.030947	0.999997	0.024171	0.943337
RIPK4	0.027428	0.050576	-0.10501	-0.08387	0.840967	0.711251	0.441142	0.538827	-0.25562	0.520752	-0.23749	0.225361	0.04321	0.999896	0.058104	0.933948
CLIC6	-0.20918	0.150319	-0.16594	-0.18804	0.121807	0.273328	0.221609	0.165175	-0.38311	-0.00035	-0.03579	-0.03452	0.004693	0.499085	0.408804	0.410937
PION	-0.07829	0.102712	-0.05048	0.301074	0.5627	0.45128	0.709197	0.022859	-0.01179	0.246931	-0.02495	0.264431	0.468996	0.950978	0.435378	0.962122
TLR9	-0.03983	-0.10553	0.195914	-0.078	0.768626	0.438872	0.144141	0.564122	0.055513	-0.31691	0.131055	-0.29955	0.641395	0.016956	0.80177	0.022803
POLE3	-0.12061	0.119772	-0.24077	-0.06334	0.371485	0.379266	0.071209	0.639743	-0.38212	0.390783	-0.34984	0.214915	0.004389	0.996375	0.009243	0.924261
CHRAC1	0.078351	0.30153	-0.1037	0.086659	0.562373	0.023921	0.442694	0.521541	0.201068	0.260336	0.06502	0.188749	0.909862	0.959713	0.664342	0.895488
PNN	-0.03128	0.27299	-0.11657	0.008489	0.817326	0.041787	0.387831	0.950029	0.302632	0.063227	0.095708	0.061039	0.979537	0.661823	0.734146	0.656515
GPR88	0.035188	-0.08612	0.170817	-0.32146	0.794972	0.527978	0.203931	0.014757	0.14023	-0.59925	0.177912	-0.53483	0.820892	6.83E-06	0.876038	7.69E-05
UBL3	-0.08801	0.214883	-0.20619	-0.07076	0.515019	0.111742	0.123854	0.600939	-0.1636	0.173969	-0.11666	0.073762	0.138655	0.876218	0.222681	0.686932
Sep-05	-0.07869	-0.33817	0.1236	-0.45061	0.560651	0.010799	0.359665	0.000436	-0.13121	-0.50711	0.155325	-0.35606	0.192375	0.000161	0.845858	0.007578
Sep-04	0.207344	-0.33137	0.316811	-0.05247	0.121718	0.012605	0.016347	0.698274	0.343909	-0.43039	0.327012	-0.26099	0.990363	0.001415	0.985832	0.039895
C1orf190	0.085622	-0.03586	0.125253	0.019665	0.526555	0.793033	0.353224	0.884562	0.174125	0.091199	0.075378	0.069466	0.876433	0.726671	0.688684	0.676786
LOC100133	-0.12065	-0.13294	0.122933	-0.12449	0.371314	0.328712	0.362284	0.356195	-0.01872	-0.36504	0.026221	-0.18502	0.450864	0.006308	0.56788	0.10916
LOC541471	-0.09822	0.342741	-0.27097	0.146461	0.467309	0.009714	0.041476	0.276979	-0.03026	0.434361	-0.08811	0.329644	0.420882	0.99872	0.28246	0.987362
LOC541472	0.005941	-0.25767	0.112342	-0.05908	0.965014	0.055203	0.405405	0.662416	-0.01437	-0.23885	0.055925	-0.03639	0.462245	0.054954	0.642402	0.405138
MRPL39	-0.05155	0.230001	-0.32295	0.095171	0.703328	0.088139	0.014275	0.481303	-0.24095	0.416421	-0.29984	0.298109	0.053363	0.998003	0.022692	0.977903
C21orf91	-0.09229	0.219537	-0.27239	0.232639	0.494729	0.10401	0.040373	0.081603	-0.17212	0.476675	-0.16876	0.532658	0.126353	0.999595	0.133894	0.999931
C8orf58	-0.07604	0.12263	0.177452	-0.17859	0.574003	0.367916	0.186648	0.183782	0.35233	-0.26507	0.27651	-0.29328	0.991194	0.039228	0.965389	0.025276
CXorf40B	-0.13952	0.019609	0.01073	0.054734	0.300618	0.885938	0.936857	0.685932	-0.13784	0.340663	-0.38243	0.049084	0.18049	0.989739	0.004762	0.627006
DCUN1D1	-0.016	0.269871	-0.2407	0.092482	0.905938	0.044276	0.071295	0.493833	0.059955	0.199054	-0.2502	0.189853	0.652184	0.905052	0.050705	0.894192
NANS	-0.10319	-0.02784	-0.05573	-0.03586	0.44494	0.838603	0.680524	0.791131	-0.10324	0.153652	-0.18276	0.006619	0.249888	0.843206	0.117526	0.517209
PODXL	0.275403	-0.11858	0.312811	0.248272	0.038129	0.384071	0.01783	0.06258	0.143885	0.15592	0.207483	0.37031	0.827151	0.846794	0.91172	0.993859
CYCS	-0.00794	0.188264	-0.16778	0.18751	0.953271	0.164674	0.212203	0.162495	0.127896	0.344822	-0.0905	0.317969	0.801516	0.990533	0.277188	0.984359
ERRFI1	0.269571	-0.13045	-0.05115	-0.03931	0.042577	0.337907	0.705548	0.771585	0.508916	-0.13079	0.21019	-0.28499	0.999848	0.19315	0.917104	0.027445
KCNK10	0.067048	-0.05889	0.126865	-0.21961	0.620215	0.666394	0.347015	0.100709	0.103584	-0.13453	0.114339	-0.25622	0.753345	0.186362	0.772735	0.04283
TREM2	-0.1225	0.019682	-0.01684	-0.24178	0.364005	0.885517	0.901042	0.069997	0.025922	-0.11793	0.15067	-0.12393	0.567889	0.21753	0.838408	0.205941
TREM1	-0.11505	-0.40253	0.085267	-0.04028	0.398476	0.002314	0.532086	0.768197	-0.09145	-0.6122	-0.04207	-0.38421	0.277475	5.03E-06	0.3944	0.005014
SNTG1	0.011278	-0.12779	0.268596	-0.21375	0.93364	0.347928	0.043361	0.110372	0.060373	-0.37776	0.205199	-0.35964	0.654894	0.004823	0.911848	0.007048
POLA1	0.068448	0.231665	-0.24867	0.107958	0.612917	0.0858	0.062147	0.42409	0.054325	0.494061	-0.1736	0.323647	0.640043	0.999758	0.127042	0.985886
SNTG2	-0.06071	-0.15821	0.051049	0.485922	0.653703	0.244197	0.706088	0.000127	0.201924	-0.19571	0.152755	0.010109	0.90827	0.098803	0.838892	0.526274
POLB	-0.04816	0.388063	-0.34592	0.021976	0.722002	0.003124	0.008397	0.871099	-0.21542	0.488024	-0.25049	0.221745	0.075245	0.99971	0.048496	0.930706
POLD1	0.002477	-0.05192	0.083068	-0.24833	0.985545	0.706562	0.542751	0.064974	-0.01124	0.181436	-0.05425	-0.10288	0.470459	0.886234	0.361698	0.248125
POLD2	-0.18223	-0.13001	-0.16558	-0.39599	0.174863	0.339554	0.218349	0.002295	-0.27967	0.099611	-0.09497	-0.08114	0.029895	0.744937	0.267457	0.295954
POLE	0.069662	0.117395	-0.0085	0.202644	0.606616	0.388866	0.949936	0.130594	0.126172	0.438984	-0.16897	0.262037	0.798293	0.998863	0.133581	0.960728

POLE2	-0.03356	0.197957	-0.06876	0.101586	0.806012	0.147407	0.614562	0.456282	-0.07583	0.45906	-0.02635	0.29532	0.310278	0.999243	0.432584	0.975551
PCOTH	-0.13078	0.157735	0.002649	-0.3589	0.332219	0.245623	0.984395	0.006114	-0.22284	-0.0924	-0.18024	-0.16346	0.068303	0.270672	0.118048	0.138865
POLG	-0.1833	-0.04761	-0.06259	0.140952	0.172305	0.727496	0.643678	0.295644	-0.21581	0.316023	-0.14081	0.066075	0.077249	0.982778	0.180962	0.666853
POLH	0.017412	0.169532	-0.28151	0.138187	0.897713	0.211623	0.033893	0.305314	-0.25936	0.663072	-0.28322	0.493366	0.040882	1	0.029697	0.999753
POLR2A	-0.02901	0.068273	-0.10725	-0.08774	0.830375	0.617098	0.427147	0.516347	-0.24117	0.515427	-0.30164	0.336971	0.053197	0.999877	0.022019	0.988989
POLR2B	0.006572	0.226214	-0.23932	0.214852	0.961302	0.093648	0.072982	0.108502	-0.06094	0.452952	-0.12933	0.401001	0.343735	0.999214	0.198577	0.997126
POLR2C	-0.01935	0.015019	-0.17165	0.049574	0.886423	0.912518	0.201713	0.714209	-0.13717	0.189301	-0.31929	0.080985	0.18166	0.896165	0.016261	0.703686
GPR173	-0.09993	-0.11571	0.131893	-0.10471	0.45955	0.395775	0.328078	0.438256	0.024451	-0.30806	0.094062	-0.28844	0.56407	0.018633	0.730589	0.025948
GPR85	-0.03226	-0.06284	0.11219	-0.18118	0.811687	0.64542	0.406043	0.177401	0.046346	-0.25901	0.132407	-0.07165	0.62014	0.041093	0.807041	0.318051
POLR2D	-0.33198	0.167862	-0.39366	0.014373	0.012433	0.220567	0.002685	0.916269	-0.27111	0.57309	-0.43841	0.42814	0.034196	0.999984	0.001296	0.998502
GNG2	0.102254	-0.20785	-0.03128	0.458956	0.44912	0.124255	0.817307	0.00033	0.149312	-0.37639	0.214515	-0.08909	0.839006	0.004967	0.921473	0.278001
GDAP1	-0.10332	0.149353	-0.15552	-0.02189	0.444373	0.271934	0.248007	0.871593	-0.43323	0.26932	-0.32876	0.292733	0.001317	0.964848	0.013725	0.975824
POLR2E	-0.16598	-0.00495	-0.10953	-0.1033	0.217228	0.971116	0.417317	0.444474	-0.18065	0.277802	-0.11943	0.092636	0.117508	0.967675	0.220005	0.727491
DPM3	-0.1191	-0.27836	0.204957	-0.07471	0.381974	0.037771	0.129696	0.584215	0.134103	-0.34693	0.172414	-0.27506	0.81287	0.009084	0.871298	0.032151
SOX18	0.296489	-0.17236	0.394672	0.059932	0.025126	0.204002	0.002381	0.657876	0.177431	-0.2593	0.280886	-0.12705	0.880934	0.040913	0.969191	0.200071
UNC93A	0.090211	-0.03866	0.300417	-0.22871	0.508484	0.77928	0.024471	0.089985	0.203994	-0.20247	0.213935	-0.28652	0.913058	0.088594	0.920897	0.026773
POLR2F	-0.21415	-0.04153	-0.17072	-0.07599	0.109691	0.76119	0.204191	0.574265	-0.17624	0.342655	-0.19355	0.371503	0.120674	0.990126	0.101349	0.994489
POLR2G	-0.09018	0.005998	-0.16556	0.400685	0.504682	0.965006	0.218409	0.002011	-0.19963	0.403574	-0.40894	0.437406	0.091735	0.997292	0.002642	0.998816
CYTL1	0.43962	-0.12052	0.26963	-0.12399	0.000699	0.380775	0.044473	0.362593	0.607335	-0.0926	0.195321	-0.21071	0.999994	0.274973	0.895296	0.084887
WNT4	0.081428	0.005439	-0.01517	-0.08936	0.547075	0.968264	0.910799	0.508588	-0.08535	0.31104	-0.16782	0.330694	0.286391	0.982312	0.135247	0.987607
HAO1	-0.12182	-0.13698	0.034922	-0.18863	0.366678	0.314073	0.796492	0.159964	-0.12178	-0.45165	0.071608	-0.45615	0.210064	0.000814	0.679909	0.000721
POLR2H	-0.13886	0.350472	-0.26893	0.156413	0.302953	0.008094	0.043092	0.245277	-0.02569	0.571691	-0.19835	0.377327	0.43271	0.999983	0.095749	0.995132
POLR2I	-0.19483	-0.15995	0.000642	-0.17787	0.146426	0.238968	0.996217	0.18559	-0.13235	-0.17369	0.031217	-0.13257	0.193067	0.126919	0.579712	0.192671
TERF2IP	0.051445	-0.01551	-0.18033	0.157673	0.703908	0.909646	0.179483	0.241449	0.020945	0.293489	-0.07731	0.231585	0.554943	0.976125	0.306853	0.93926
POLR2J	-0.26062	0.124271	-0.0188	-0.19494	0.050225	0.361489	0.889623	0.146176	-0.14426	-0.15305	-0.0928	-0.09061	0.169408	0.154939	0.272143	0.274632
POLR2K	-0.03866	0.199935	-0.19485	0.129078	0.775243	0.139569	0.146366	0.338598	-0.01457	0.352873	-0.0728	0.331929	0.461725	0.991922	0.317307	0.98789
SLC38A2	0.222007	0.156182	-0.12842	0.347984	0.096961	0.250362	0.341075	0.00799	0.335344	0.302143	-0.1002	0.250241	0.988644	0.979365	0.256267	0.953259
POLR2L	-0.00474	-0.02955	-0.07209	0.022078	0.972067	0.828856	0.594112	0.870508	-0.2088	0.399221	-0.41213	0.261605	0.081871	0.997006	0.002453	0.960472
NLGN3	-0.01719	-0.20105	0.17619	-0.18087	0.89901	0.137331	0.189851	0.178173	0.204236	-0.46826	0.179488	-0.40613	0.913318	0.000516	0.880954	0.002551
SIAE	-0.08476	0.216265	-0.27202	-0.07994	0.53453	0.112771	0.042551	0.558103	-0.32719	0.536185	-0.28992	0.482891	0.013225	0.999939	0.02669	0.999662
POLRMT	-0.08555	0.019147	0.045789	0.156672	0.526887	0.888609	0.735198	0.244485	-0.0364	0.426941	-0.14496	0.223271	0.40618	0.998277	0.173911	0.929797
TAS2R5	-0.01115	0.208075	-0.117	0.173106	0.934377	0.123836	0.386094	0.197845	0.043644	0.245916	-0.13664	0.192032	0.613327	0.950261	0.185388	0.899467
POMC	0.041302	-0.08977	0.27416	-0.12189	0.760334	0.510578	0.039043	0.366394	0.095029	-0.41971	0.125832	-0.29773	0.735065	0.001844	0.794927	0.022239
DNAJC10	-0.05736	0.155542	-0.04244	0.003857	0.671702	0.252332	0.753913	0.977282	-0.0694	0.141742	-0.0383	0.179904	0.323362	0.826298	0.401386	0.884226
YIPF1	-0.11883	0.267815	-0.25312	0.117868	0.378635	0.045982	0.057463	0.382543	-0.18819	0.522533	-0.28236	0.331343	0.105197	0.999902	0.030102	0.987756
GAR1	-0.09353	0.203412	-0.13404	-0.19579	0.488921	0.132677	0.320214	0.144397	0.12352	-0.03558	0.252473	-0.05165	0.793275	0.407194	0.952857	0.36658
SSH1	-0.00426	0.346159	0.065324	0.209745	0.975125	0.009631	0.632416	0.120782	-0.2997	0.476235	-0.07662	0.466342	0.022746	0.999528	0.310539	0.999379
HCG4	-0.10082	-0.02687	0.183884	-0.19738	0.45555	0.84417	0.170922	0.141096	0.001726	-0.38264	0.336132	-0.27472	0.504541	0.004339	0.988012	0.032326
SH3TC1	0.19359	-0.12212	0.203701	0.176222	0.152837	0.37444	0.132115	0.193883	0.15396	0.024776	0.13019	0.014381	0.84651	0.564914	0.803003	0.537785
SEMA5B	0.090899	-0.03192	0.345494	-0.11806	0.50129	0.815362	0.008483	0.381779	0.243678	-0.44468	0.177151	-0.37739	0.946635	0.001105	0.875007	0.005299
GFOD1	0.04673	-0.13034	0.257162	-0.00981	0.72996	0.338337	0.053467	0.942241	0.206494	-0.30394	0.243884	-0.15711	0.915722	0.02001	0.946787	0.148536
RBM27	0.048796	0.237734	-0.254	0.056575	0.718509	0.077681	0.056579	0.675944	-0.06268	0.469153	-0.13117	0.271376	0.339512	0.999497	0.195214	0.965947
PON1	0.145004	-0.03024	0.11009	-0.39554	0.286294	0.826501	0.419253	0.00255	0.021359	-0.35555	0.059519	-0.28657	0.556022	0.007656	0.65113	0.026752
SASH3	-0.11064	-0.19615	0.160845	0.404225	0.412587	0.147367	0.231988	0.001818	0.026262	-0.30566	0.130332	-0.13	0.56877	0.019425	0.803265	0.194594
KCTD5	-0.11089	0.088624	-0.08165	-0.00766	0.411541	0.515999	0.545962	0.954879	-0.1804	0.199805	-0.34144	-0.00176	0.11512	0.908457	0.010854	0.495371
ANLN	0.007475	0.220663	-0.12977	-0.13573	0.956398	0.105465	0.340458	0.318559	-0.19464	0.65356	-0.2125	0.420115	0.097452	1	0.08054	0.998174
PON2	-0.2016	0.404698	-0.30468	0.168695	0.13263	0.001977	0.021198	0.209691	0.002362	0.537781	-0.16622	0.371276	0.506215	0.999942	0.137583	0.994463
RIN2	0.08635	0.13087	-0.07176	-0.09449	0.526867	0.340909	0.599211	0.488481	0.066764	0.369695	-0.03481	0.345886	0.670337	0.994275	0.410203	0.990727
ATAD2B	-0.02272	0.231387	-0.22698	0.160558	0.866766	0.086187	0.089524	0.232835	0.220892	0.211785	-0.06846	0.159309	0.929924	0.921165	0.327493	0.854864
FBXO42	0.157248	0.114867	-0.11727	0.213124	0.242736	0.399231	0.384962	0.111441	0.172601	0.530182	-0.08081	0.349366	0.87156	0.99991	0.301014	0.990672

MOV10L1	-0.12856	-0.0399	0.007567	-0.1476	0.34055	0.770333	0.95545	0.273202	0.095898	-0.28201	0.179937	-0.32468	0.736951	0.028799	0.881549	0.013849
TAF7L	-0.07856	0.056204	-0.09056	-0.20384	0.564929	0.683593	0.506819	0.131846	0.116703	-0.05152	0.162983	-0.17153	0.780056	0.366909	0.85763	0.127174
PRR13	0.043554	-0.31215	0.323328	-0.16102	0.747687	0.019176	0.014156	0.231484	-0.10652	-0.2455	0.161467	-0.09832	0.240531	0.050035	0.855348	0.257817
PON3	0.091581	0.272112	-0.08362	-0.48494	0.49807	0.042475	0.536304	0.000132	0.233088	-0.26077	0.237146	-0.29115	0.940494	0.040024	0.941621	0.024817
MRPS21	-0.13753	0.216368	-0.1431	-0.01994	0.307651	0.109229	0.288272	0.882933	-0.1014	0.209149	-0.08459	0.115501	0.251262	0.918487	0.290312	0.777678
FBXW5	0.100577	-0.12137	0.181415	0.061595	0.460791	0.377411	0.180864	0.652016	-0.08782	0.341829	-0.07274	0.084418	0.283108	0.989226	0.319462	0.709302
KIAA1128	0.036951	0.268573	-0.12915	0.18745	0.784943	0.045347	0.338338	0.162632	0.325481	0.104733	0.156907	0.165689	0.986352	0.755749	0.84834	0.864434
FAM134B	0.086496	-0.18313	-0.09199	-0.11387	0.522326	0.176701	0.496139	0.399002	-0.06457	-0.22678	0.099657	-0.14728	0.334931	0.064808	0.742584	0.164345
XRN1	0.010003	0.11345	-0.10886	0.352321	0.941132	0.405114	0.420208	0.007192	0.185367	0.12253	0.057912	0.141336	0.888595	0.788682	0.645576	0.822801
ETAA1	0.090193	0.256131	-0.15099	0.09871	0.504633	0.056728	0.262239	0.465072	0.135153	0.323781	-0.05626	0.192352	0.814751	0.98592	0.356772	0.899848
SPIN2A	-0.10408	-0.03933	0.075536	-0.30329	0.441013	0.773519	0.576536	0.021826	0.01021	-0.31227	0.222257	-0.35695	0.526847	0.017309	0.928868	0.007443
ANKIB1	0.033812	0.322181	-0.14352	0.125781	0.802825	0.015454	0.286858	0.351181	0.056678	0.388563	-0.08015	0.330336	0.645846	0.996192	0.300349	0.987524
MIOS	-0.04128	0.260818	-0.30659	0.04852	0.760454	0.052196	0.020364	0.720035	-0.03256	0.337818	-0.1886	0.1513	0.414958	0.989165	0.10735	0.842243
ZFAND6	-0.06824	0.070985	-0.12761	0.05586	0.613988	0.603147	0.344179	0.679816	-0.09637	0.02254	0.054315	0.081603	0.262024	0.5591	0.638467	0.7051
POR	-0.18893	0.133402	-0.23492	-0.08393	0.159273	0.327006	0.07857	0.534775	-0.38826	0.44701	-0.25669	0.187729	0.003834	0.999078	0.044366	0.89423
ARMCX6	0.047428	0.005182	0.045572	-0.10974	0.726086	0.969762	0.736406	0.416437	0.251072	-0.16082	-0.04919	-0.00942	0.953819	0.142838	0.374159	0.475234
SMCR7L	0.068428	0.423113	-0.04119	0.418824	0.616294	0.001289	0.763093	0.001315	0.033683	0.678464	-0.11335	0.53415	0.587929	1	0.229225	0.999934
TOLLIP	-0.01811	0.177187	-0.04137	0.033158	0.893654	0.191416	0.759975	0.806564	-0.06441	0.457712	-0.12539	0.190425	0.335317	0.999309	0.205906	0.897533
KRT20	0.062205	-0.06336	0.178943	-0.22536	0.645745	0.642729	0.182913	0.091896	0.066864	-0.16247	0.107349	-0.05749	0.668729	0.143142	0.756029	0.353778
NLE1	-0.18695	-0.07617	-0.02799	0.134943	0.163772	0.576849	0.836236	0.316918	-0.16395	0.101248	-0.2864	0.079738	0.138127	0.74842	0.028237	0.700823
RNF216	0.136257	-0.19186	0.011857	0.072361	0.312182	0.1566	0.930244	0.592711	0.379692	-0.29909	0.386305	-0.1964	0.995374	0.021733	0.995618	0.095405
PLEKHA5	-0.10444	0.261905	-0.22532	-0.12802	0.439419	0.051188	0.091948	0.34259	-0.0963	0.238508	-0.03056	0.196696	0.264583	0.942695	0.42195	0.902347
FAM64A	0.022882	0.031251	0.030564	-0.24288	0.865837	0.819145	0.821442	0.068697	0.142232	-0.14359	-0.03479	-0.17845	0.827139	0.170542	0.410267	0.117697
CSGLCA-T	0.059491	-0.06326	0.256202	0.075034	0.660237	0.643252	0.054396	0.579079	0.027371	0.012038	-0.05214	-0.047	0.571645	0.531643	0.366878	0.378216
CCDC76	-0.01467	0.220526	-0.13244	0.193253	0.913728	0.102423	0.326077	0.149776	0.020969	0.292142	-0.02865	0.152896	0.555007	0.975586	0.425911	0.844811
DGCR8	-0.08068	0.304572	-0.03645	-0.02167	0.550756	0.02247	0.787773	0.872855	-0.02253	0.424735	-0.19315	0.21521	0.440928	0.99837	0.101827	0.924548
POU1F1	0.021392	-0.01589	0.137476	-0.28928	0.874499	0.907487	0.307832	0.029073	0.009673	-0.25525	0.064957	-0.23265	0.525437	0.043448	0.664192	0.059866
UGT2B28	-0.04161	0.00858	-0.0556	-0.32255	0.758597	0.949956	0.681233	0.014404	0.100948	-0.4051	0.080593	-0.50905	0.747782	0.002613	0.700653	0.000152
FAM105A	-0.08793	-0.12359	-0.22711	0.489136	0.515411	0.364159	0.089324	0.000113	0.050237	-0.16143	0.100852	0.152059	0.628439	0.144711	0.7426	0.840655
C11orf71	-0.35726	0.113953	-0.09535	0.011017	0.006369	0.403017	0.480467	0.935173	-0.31908	0.010936	-0.04239	-0.0063	0.015331	0.528751	0.391099	0.483428
TMX3	-0.03563	0.284284	-0.20967	0.218366	0.792441	0.033717	0.117501	0.102708	-0.0564	0.453599	-0.11577	0.441042	0.354833	0.999227	0.224435	0.998922
PRMT7	-0.05973	-0.11899	-0.00881	0.033333	0.658978	0.382427	0.948158	0.805564	-0.24533	0.277972	-0.05795	0.205578	0.050153	0.96929	0.352675	0.914753
HEATR5B	0.036548	0.249337	-0.15795	0.03364	0.787229	0.063858	0.240612	0.803808	-0.07425	0.315278	-0.09512	0.186427	0.311924	0.983588	0.267132	0.892609
SMOX	0.194309	-0.08057	0.176181	0.028481	0.14752	0.554994	0.189874	0.83343	0.298361	-0.14071	0.116634	-0.15584	0.977996	0.175483	0.777268	0.150516
TMCO1	-0.02103	0.202396	-0.20232	0.111813	0.876621	0.134664	0.131221	0.40763	-0.1295	0.344804	-0.18113	0.281921	0.195508	0.990529	0.116882	0.971163
ATR	-0.11775	0.206025	-0.21837	0.147975	0.383022	0.127666	0.102696	0.271987	-0.16003	0.325343	-0.17925	0.281107	0.144027	0.986317	0.119366	0.970785
POU2AF1	-0.10315	-0.31964	0.172708	0.280706	0.449349	0.017367	0.203065	0.036121	-0.05617	-0.11159	0.201861	-0.08125	0.355408	0.230168	0.9082	0.2957
RBM47	-0.17554	0.358823	-0.28761	-0.03571	0.19153	0.006613	0.030056	0.791977	-0.27686	0.458967	-0.30651	0.118044	0.031255	0.999332	0.020287	0.782692
ZDHC13	-0.01207	0.410886	-0.22995	-0.07797	0.929627	0.001657	0.088207	0.567873	-0.22992	0.526495	-0.20817	0.301414	0.062126	0.999915	0.084992	0.979107
CPVL	0.011675	-0.19793	0.016112	0.349287	0.931313	0.143666	0.905312	0.007743	-0.27675	-0.27162	-0.02154	0.075305	0.032858	0.035546	0.444807	0.688516
DHX29	0.09631	0.280208	-0.17855	0.130238	0.476049	0.036466	0.18389	0.334238	0.071048	0.38421	-0.1059	0.291035	0.680539	0.995807	0.244362	0.975135
ADAMTSL4	0.123668	-0.29667	0.285194	0.042686	0.359397	0.026402	0.031528	0.752553	0.057489	-0.42251	0.332972	-0.31405	0.646208	0.001918	0.986397	0.017826
FLJ11235	-0.08158	-0.09351	0.221063	-0.07553	0.546301	0.493046	0.098426	0.576556	0.109883	-0.38877	0.087365	-0.32286	0.763793	0.004154	0.713592	0.015263
RHOF	-0.1874	-0.17935	0.044805	0.257616	0.162752	0.185969	0.740686	0.053032	-0.18425	-0.02782	0.104549	0.002841	0.110145	0.427187	0.752848	0.507474
POU2F1	0.096649	0.052705	-0.02753	-0.02141	0.47449	0.699659	0.838936	0.8744	0.147628	0.214752	0.140747	0.194127	0.836231	0.924102	0.821785	0.901949
PCDH18	0.261328	-0.12055	0.059028	0.342106	0.049583	0.37617	0.66272	0.009195	0.107908	0.14532	0.146196	0.372742	0.76233	0.832379	0.831039	0.994632
HMGCLL1	0.225131	-0.31377	0.229591	-0.09705	0.092233	0.018528	0.085796	0.472634	-0.08847	-0.25935	0.104706	0.021	0.281671	0.042679	0.75061	0.554453
EXOSC4	-0.0059	-0.06336	0.17998	-0.10723	0.965281	0.642706	0.180348	0.427237	0.060183	-0.17286	-0.01243	-0.10046	0.654429	0.125321	0.467707	0.253256
DDX4	0.11267	-0.12069	0.077221	-0.33199	0.404024	0.375618	0.568039	0.011638	0.019637	-0.3358	0.200353	-0.2311	0.551532	0.011258	0.906519	0.061145
MTRF1L	-0.12256	-0.25198	0.072613	-0.11354	0.363734	0.061002	0.59142	0.400389	0.026668	-0.31161	0.061095	-0.28196	0.569823	0.017511	0.654933	0.028822

PUS7	-0.03585	0.373489	-0.31599	0.310694	0.791218	0.004578	0.016644	0.01866	0.01929	0.565731	-0.21342	0.372592	0.550625	0.999979	0.079618	0.994615
APBB1IP	-0.10231	-0.40135	0.063776	0.458532	0.448871	0.002172	0.637421	0.000334	-0.18556	-0.29984	-0.02228	0.001809	0.111166	0.022691	0.442927	0.504706
POU2F2	-0.05588	-0.23585	0.202433	-0.00286	0.679702	0.08013	0.131003	0.983175	-0.01091	-0.37481	0.23903	-0.31538	0.471308	0.005137	0.943102	0.016383
CCDC93	-0.03092	0.016305	-0.01571	-0.02435	0.819389	0.905063	0.907665	0.857297	0.066866	-0.05315	0.038435	-0.05875	0.670581	0.362863	0.598964	0.349082
WDR44	0.084423	0.072893	-0.22387	0.114758	0.532383	0.593416	0.094116	0.395314	0.149743	0.205839	0.091146	0.162956	0.839711	0.915029	0.724234	0.860386
ANKRD16	-0.08162	0.209262	-0.24591	-0.21803	0.546118	0.121659	0.065196	0.103256	-0.06893	0.235807	-0.17244	-0.09302	0.32449	0.942676	0.128665	0.269322
ASNSD1	-0.06791	0.235918	-0.28566	0.252628	0.615716	0.080044	0.031238	0.05797	0.181537	0.316869	-0.0658	0.267227	0.886365	0.984047	0.333798	0.963701
POU3F1	0.142655	-0.03991	0.289902	-0.13916	0.294257	0.772352	0.030214	0.306367	0.241576	-0.23965	0.193159	-0.15099	0.947106	0.054339	0.898189	0.158264
LOC100133	-0.08674	0.334831	-0.31312	0.086745	0.521135	0.011655	0.017709	0.521127	-0.0921	0.395092	-0.11141	0.192454	0.271345	0.99671	0.233121	0.89997
MIER2	0.060765	-0.02741	0.035248	-0.06727	0.653422	0.841054	0.79463	0.619051	-0.07992	0.319368	-0.03658	0.195986	0.29877	0.984747	0.405711	0.904116
USP53	0.084521	0.210243	-0.16344	0.035288	0.531903	0.119882	0.224441	0.794405	0.453165	0.004368	0.161408	0.028239	0.999218	0.511491	0.855258	0.573893
MRPL50	0.004211	0.209616	-0.27595	0.219184	0.975199	0.121015	0.037736	0.101394	-0.11984	0.539878	-0.16576	0.440354	0.213796	0.999946	0.138248	0.998903
CCHCR1	-0.10719	-0.15995	0.066458	-0.25564	0.427413	0.238978	0.623303	0.054945	-0.18783	-0.20494	-0.03869	-0.22596	0.105639	0.085928	0.400403	0.065524
EXOC6	0.041006	0.322769	-0.16453	0.174522	0.761998	0.015257	0.221325	0.194145	0.020191	0.389204	-0.01416	0.327239	0.552976	0.996245	0.46322	0.986786
FAM35A	0.100922	0.073793	-0.12305	0.023816	0.45508	0.588855	0.361823	0.860413	0.048612	0.465836	-0.07274	0.243532	0.625825	0.999448	0.317436	0.948546
ROBO4	0.136192	-0.20173	0.29882	0.098545	0.312416	0.13598	0.023951	0.465822	0.208449	-0.29731	0.192344	-0.18832	0.917764	0.022396	0.897214	0.105038
NDUFB11	0.012252	-0.04898	-0.00721	0.095105	0.927924	0.720002	0.957575	0.481609	-0.10573	0.359267	-0.29098	0.225342	0.242181	0.992899	0.026238	0.933931
POU3F2	-0.05505	-0.24055	0.212783	-0.16847	0.684221	0.074126	0.112029	0.210316	0.120893	-0.38347	0.150683	-0.35188	0.788236	0.004261	0.83843	0.008239
FLJ10404	0.166075	-0.23263	0.245844	-0.08994	0.21696	0.084464	0.065276	0.505827	0.157399	-0.16338	0.055054	-0.25574	0.851915	0.138985	0.640275	0.043133
DDIT4	0.012861	-0.10572	0.056223	0.170266	0.924356	0.43805	0.677849	0.205415	0.064387	0.026687	-0.05085	-0.03813	0.664625	0.569873	0.370052	0.400672
RC3H2	-0.07721	0.396182	-0.25034	0.262573	0.568109	0.002506	0.060353	0.048469	0.075661	0.441799	-0.15252	0.374266	0.691376	0.998943	0.158607	0.994803
TOMM7	0.107831	-0.10551	-0.06899	0.092479	0.424639	0.438988	0.610125	0.493847	0.060398	-0.28631	-0.18861	-0.08514	0.654955	0.026863	0.107342	0.286854
CRCT1	0.065468	0.00964	0.018381	-0.10276	0.631666	0.944313	0.893041	0.451059	-0.03681	-0.34857	0.247242	-0.31072	0.405136	0.009473	0.947173	0.018881
MTMR12	-0.04405	0.190137	-0.20841	-0.12695	0.744912	0.160436	0.119763	0.34669	0.010889	0.278438	0.013581	0.130869	0.528627	0.969516	0.535277	0.807003
RNF186	-0.11452	0.078435	0.081067	-0.33423	0.396308	0.565562	0.548859	0.011053	0.187244	-0.14641	0.094255	-0.24161	0.893628	0.1658	0.731007	0.052866
SDK2	0.054815	0.042353	0.062739	0.086963	0.688238	0.75883	0.645974	0.523926	0.067965	0.069898	0.060036	0.095539	0.671337	0.675897	0.650665	0.733781
POU3F3	0.045213	-0.18996	0.342553	-0.1231	0.738413	0.160832	0.009098	0.361607	0.06343	-0.35279	0.130963	-0.37268	0.662315	0.008091	0.804418	0.005375
NECAB2	-0.0707	0.071527	0.170597	-0.28715	0.601256	0.600375	0.204524	0.030331	0.099481	-0.48635	0.161245	-0.38533	0.744659	0.000305	0.85501	0.004091
MAGEL2	-0.07983	-0.07639	0.079998	-0.11888	0.554982	0.575764	0.554157	0.37845	-0.03285	-0.16397	0.04734	-0.15776	0.415176	0.140898	0.619874	0.150341
GNL3L	-0.12388	0.134916	-0.16162	0.320426	0.362997	0.326059	0.234048	0.016057	-0.03132	0.611428	-0.34284	0.40425	0.418155	0.999997	0.01057	0.997334
DKFZP434H	-0.14688	0.278522	-0.15325	0.063894	0.275599	0.037656	0.255083	0.636794	0.143277	0.161306	0.091939	-0.09643	0.828925	0.857904	0.725968	0.261907
WDR5B	-0.15963	0.074946	-0.10397	-0.04326	0.235575	0.583028	0.441483	0.749342	-0.21963	0.089944	-0.16017	0.038059	0.071246	0.723893	0.146619	0.599137
DDX49	-0.1137	0.121597	-0.04297	-0.10464	0.404059	0.3765	0.753204	0.442775	-0.17198	0.267607	-0.29072	0.010014	0.126548	0.963912	0.02635	0.526332
ING3	-0.05146	0.242918	-0.29989	0.239722	0.703827	0.071238	0.023425	0.072486	-0.13364	0.560848	-0.20749	0.349732	0.187961	0.999975	0.085714	0.991402
SGTB	0.227052	-0.01358	0.043497	0.248276	0.092406	0.921604	0.750249	0.065034	0.316769	-0.23321	0.185774	-0.1266	0.983001	0.061569	0.886352	0.203644
SPATA6	-0.10729	-0.10019	-0.04259	-0.27586	0.426961	0.462515	0.753103	0.037797	-0.17589	-0.30377	0.095622	-0.1882	0.121152	0.020068	0.733962	0.105191
POU3F4	0.04378	-0.24516	0.192395	-0.0759	0.746419	0.068583	0.151628	0.574704	0.137839	-0.42119	0.187279	-0.24009	0.819513	0.001779	0.891005	0.054009
EPB41L4B	-0.13735	0.018006	-0.08227	-0.44267	0.308279	0.895208	0.542928	0.000565	-0.21036	-0.12487	0.011431	-0.18407	0.080278	0.204164	0.529705	0.110367
DLL4	0.247545	-0.31679	0.144122	-0.06367	0.065854	0.01845	0.289267	0.641085	0.154405	-0.2019	0.215853	-0.2154	0.847216	0.089222	0.922789	0.075269
POU4F1	-0.03981	-0.12116	0.203053	-0.20935	0.768752	0.373735	0.129801	0.118067	0.090487	-0.47573	0.186042	-0.37626	0.725098	0.000417	0.889449	0.004981
UGT1A10	-0.10499	0.56489	-0.36656	-0.05419	0.436995	5.75E-06	0.00504	0.688906	-0.23135	0.556611	-0.30281	0.271142	0.060933	0.999971	0.021594	0.965824
UGT1A6	0.022534	0.560669	-0.24698	-0.03315	0.869063	6.99E-06	0.066498	0.808372	-0.20412	0.668716	-0.29483	0.446976	0.086812	1	0.024645	0.999078
POU4F2	-0.13101	-0.1186	0.061485	-0.26821	0.33136	0.383966	0.649576	0.043677	0.103541	-0.38112	0.17578	-0.28515	0.753254	0.004485	0.875956	0.027373
EGLN1	0.134107	-0.11202	0.286679	-0.01919	0.319953	0.411108	0.030616	0.887337	0.361936	-0.46189	0.339547	-0.32717	0.993275	0.000616	0.988753	0.01323
GNB1L	-0.13961	-0.21912	0.12537	-0.08448	0.30032	0.104687	0.352774	0.532097	-0.01268	-0.40587	0.019028	-0.34787	0.46666	0.002566	0.549366	0.00892
LZTFL1	-0.12164	-0.02593	-0.09519	-0.14742	0.367383	0.84956	0.481194	0.273798	-0.23543	-0.13853	0.061826	-0.05238	0.057621	0.179274	0.656693	0.364789
C9orf11	0.273007	-0.00348	0.242356	-0.19185	0.039907	0.979679	0.06931	0.15281	0.331558	-0.4344	0.277801	-0.34896	0.987805	0.001279	0.967674	0.00873
MXRA8	0.251372	-0.12869	0.404894	0.03093	0.05927	0.344547	0.001783	0.819335	0.287755	-0.38946	0.377793	-0.24729	0.97376	0.003733	0.994745	0.04877
POU4F3	0.019313	-0.06039	0.248171	-0.24597	0.887653	0.661416	0.065151	0.067652	-0.00696	-0.2202	-0.06097	-0.26299	0.481684	0.070718	0.345372	0.038715
L1TD1	-0.07763	-0.07043	0.136398	-0.16519	0.566001	0.605991	0.31168	0.219464	-0.09258	-0.3752	0.064905	-0.20395	0.270285	0.005095	0.664067	0.086992

ATRX	0.0963	0.097228	-0.1743	0.15088	0.476091	0.475926	0.194735	0.26258	0.220711	0.107244	0.059966	0.097899	0.929757	0.760961	0.65221	0.741272
POU5F1	0.074133	-0.2893	0.141663	0.018991	0.583658	0.030576	0.293188	0.88849	-0.15485	-0.23066	0.053207	-0.16838	0.152083	0.061505	0.635752	0.131651
UGT1A9	-0.01624	0.165863	-0.13486	-0.12803	0.905428	0.226194	0.321705	0.347035	-0.07709	0.252344	-0.32337	0.127578	0.307373	0.95277	0.015125	0.798185
NDFIP2	-0.04518	0.264352	-0.32282	0.007006	0.738617	0.048977	0.014316	0.958752	-0.19773	0.494786	-0.23293	0.309192	0.093888	0.999763	0.061798	0.98173
DDX56	-0.06121	0.215137	-0.17262	0.192221	0.651031	0.111309	0.199131	0.152006	-0.02323	0.543651	-0.24693	0.292343	0.43911	0.999953	0.050998	0.975667
INO80	-0.0851	0.38756	-0.32785	0.294762	0.529091	0.003166	0.012789	0.026027	-0.12958	0.556	-0.24303	0.409392	0.195359	0.99997	0.053851	0.997637
CCNJ	-0.02163	0.187198	-0.09626	0.079825	0.8731	0.167121	0.476256	0.555019	-0.13797	0.112702	-0.11632	0.121176	0.180255	0.772084	0.223357	0.788782
POU5F1P1	-0.08165	-0.26627	0.286938	-0.05924	0.545998	0.0473	0.030459	0.661606	0.036836	-0.40587	0.243341	-0.25384	0.596014	0.002566	0.946384	0.044351
FBXL19	-0.02637	-0.05737	0.150524	-0.09386	0.84564	0.674491	0.263724	0.487396	0.079414	-0.07502	0.019836	-0.07675	0.700076	0.31013	0.551452	0.306097
FLJ20674	0.112106	0.27953	-0.04484	-0.12534	0.406395	0.03694	0.740509	0.352886	-0.05651	0.22515	0.055137	0.031446	0.354569	0.933762	0.640479	0.582173
ARL15	0.120676	0.067659	0.101317	0.440671	0.371228	0.620273	0.453306	0.000602	-0.06499	0.300866	-0.08338	0.341193	0.333934	0.978911	0.293024	0.989843
PAF1	-0.03844	-0.02857	-0.15983	-0.1543	0.778494	0.835955	0.239339	0.256203	-0.28336	0.14678	-0.1202	0.000807	0.028177	0.834822	0.215785	0.502124
PARP14	-0.15239	-0.05265	0.028143	0.645985	0.262185	0.702657	0.836876	7.59E-08	-0.03574	0.138377	0.052063	0.331749	0.407861	0.817668	0.631425	0.987002
HES2	-0.04958	-0.22027	0.112138	-0.22278	0.714192	0.102831	0.406262	0.095776	0.070882	-0.40329	0.170113	-0.33721	0.680146	0.002726	0.868047	0.010961
KIAA1383	0.164893	-0.13933	0.316817	-0.30324	0.224575	0.310338	0.017359	0.023097	0.120091	-0.40561	0.12514	-0.23636	0.786683	0.002582	0.793627	0.056888
FAM63B	0.122863	0.060417	-0.06445	-0.01708	0.362559	0.658255	0.633836	0.899661	0.174534	0.040028	0.086582	-0.09766	0.876996	0.604154	0.714143	0.259244
POU6F1	0.030781	-0.30067	0.238655	-0.25277	0.820194	0.024343	0.073805	0.057822	0.157014	-0.47662	0.207541	-0.3505	0.851315	0.000406	0.914344	0.008469
PPA1	0.002228	0.25133	-0.26107	0.46649	0.986879	0.061695	0.049814	0.000255	0.0425	0.604704	-0.18923	0.490423	0.610431	0.999996	0.106574	0.99973
PPARA	0.151067	0.350834	0.073009	-0.02369	0.261985	0.008025	0.589392	0.861144	0.122379	0.189	0.023171	0.210219	0.791093	0.895796	0.560043	0.919581
UGT1A4	0.017048	0.393396	-0.11109	-0.13181	0.900753	0.002965	0.415012	0.332853	-0.06046	0.439517	-0.21108	0.130435	0.344901	0.998879	0.081984	0.806207
UGT1A1	-0.06302	0.353627	-0.22078	-0.18964	0.641397	0.007504	0.098869	0.157685	-0.20568	0.448363	-0.12509	0.221489	0.087637	0.998995	0.20924	0.928159
PCDHB18	0.151722	0.009897	0.113371	0.06212	0.259897	0.942286	0.401086	0.646201	0.398533	-0.09137	0.280583	0.000974	0.996958	0.272941	0.969045	0.502564
PCDHB17	0.131457	-0.21446	0.169963	-0.52265	0.329694	0.112465	0.206237	3.04E-05	0.110992	-0.1575	0.240093	-0.10945	0.768629	0.147922	0.943925	0.234515
TBC1D13	0.048237	-0.0405	0.072151	-0.06476	0.721598	0.766947	0.593786	0.632201	0.135697	0.099673	-0.1088	0.05606	0.815722	0.74507	0.238405	0.644325
WDR74	-0.04599	0.12052	-0.10003	0.16407	0.734094	0.376277	0.459107	0.222638	-0.04876	0.465592	-0.09356	0.267175	0.373802	0.999444	0.270494	0.963672
TMEM106E	0.039487	0.206603	-0.202	0.149071	0.770572	0.126577	0.131853	0.268412	0.045554	0.368885	-0.10301	0.359035	0.616821	0.993677	0.252906	0.992284
RSBN1	0.215572	-0.05271	-0.06625	0.092161	0.107294	0.69964	0.624401	0.495341	0.210969	0.02541	0.112379	0.028365	0.920342	0.56656	0.768825	0.574219
PPARD	-0.02146	0.031631	0.084321	-0.02773	0.874093	0.816983	0.53288	0.837775	-0.00478	0.087029	-0.0812	0.10886	0.487418	0.717391	0.297971	0.764283
LRRN3	0.094893	-0.16952	0.149606	-0.06901	0.482593	0.21167	0.266679	0.609984	0.097949	-0.31447	-0.04144	-0.33976	0.741379	0.016648	0.393463	0.010441
CRLS1	-0.09077	0.260248	-0.2651	0.126645	0.501894	0.052731	0.046272	0.347857	-0.01902	0.325462	-0.13712	0.228461	0.450648	0.985431	0.187393	0.934412
GTPBP2	0.050374	-0.02398	0.072462	0.087478	0.7098	0.860754	0.592193	0.517596	0.135358	0.187579	-0.04195	0.094069	0.815118	0.894044	0.3922	0.732973
CROT	-0.01348	0.499105	-0.35419	0.057302	0.920723	9.02E-05	0.006871	0.672017	-0.10107	0.694056	-0.20788	0.516882	0.251963	1	0.085297	0.999882
PPARG	0.072127	0.28706	-0.16987	-0.10704	0.593908	0.031946	0.206491	0.428056	0.246749	0.169061	-0.06601	-0.03159	0.95085	0.869319	0.333301	0.417458
ZNHIT6	-0.01526	0.277572	-0.15151	0.142957	0.910301	0.03834	0.260583	0.288758	0.10613	0.293013	0.034789	0.1655	0.758657	0.975936	0.58974	0.864156
P4HTM	-0.22735	-0.10753	-0.05908	-0.18814	0.088984	0.430197	0.66244	0.161068	-0.33686	-0.04783	-0.07202	-0.14687	0.011034	0.376123	0.319133	0.165031
MANSC1	0.113623	0.135677	-0.0026	0.057588	0.400036	0.318748	0.984664	0.670469	0.018668	0.196909	-0.09554	0.067019	0.549002	0.905178	0.266218	0.67095
MED1	-0.08011	0.185232	-0.32712	0.252357	0.553623	0.171704	0.013002	0.058249	-0.06008	0.46524	-0.17018	0.376087	0.345833	0.999439	0.13185	0.995001
KIF1A	0.009225	-0.00773	0.211626	-0.33734	0.945704	0.954926	0.114038	0.010285	0.132742	-0.24037	0.225785	-0.24545	0.810414	0.053799	0.932062	0.050074
PPEF2	0.063828	-0.24185	0.16407	-0.35183	0.637142	0.072528	0.222639	0.007278	0.094987	-0.3669	0.158916	-0.28536	0.734973	0.006069	0.851453	0.027284
RRN3	0.048693	0.149726	-0.21245	0.313607	0.719078	0.270724	0.112598	0.017526	0.084545	0.394934	-0.09735	0.306052	0.711794	0.996699	0.262325	0.980706
PPM2C	0.013375	0.320934	-0.20893	0.317589	0.92134	0.01588	0.11882	0.01607	0.032197	0.522688	-0.16417	0.36688	0.584108	0.999903	0.140607	0.993928
GPN2	-0.05163	0.00554	-0.01937	-0.01406	0.702873	0.967678	0.88629	0.917316	0.02458	0.276398	-0.00646	-0.00095	0.563667	0.966965	0.483392	0.497531
MARCH5	-0.04821	0.364372	-0.37793	0.184168	0.721756	0.005766	0.00375	0.170251	-0.0388	0.517953	-0.24511	0.344646	0.398966	0.999886	0.052313	0.9905
PPAT	-0.03312	0.406443	-0.2876	0.271304	0.806755	0.001882	0.03006	0.041213	0.086576	0.605721	-0.16404	0.345912	0.716373	0.999996	0.140786	0.990732
CNGB3	-0.15675	0.110915	-0.06018	-0.29171	0.244255	0.415756	0.656547	0.027687	-0.05557	-0.24744	0.056928	-0.33651	0.356877	0.048664	0.644844	0.011107
A2BP1	0.122524	0.179708	0.259677	-0.26728	0.363895	0.185071	0.051094	0.04444	0.263471	-0.19234	0.202761	-0.16999	0.959831	0.102786	0.906583	0.132135
SLC6A20	-0.08066	-0.21087	0.036222	-0.08692	0.550869	0.118763	0.789083	0.520291	0.02606	-0.12968	0.096577	-0.21881	0.568247	0.195185	0.736013	0.07201
BTN2A3	-0.02028	-0.02446	0.159105	0.079243	0.880951	0.858007	0.237147	0.557915	0.00771	-0.07664	-0.04573	0.198735	0.520278	0.306354	0.38273	0.907256
OTUD4	-0.08082	0.144284	-0.12496	0.080534	0.550092	0.288718	0.354367	0.551498	-0.02465	0.244435	-0.04784	0.23088	0.435409	0.949201	0.377486	0.938675
PPBP	-0.03477	-0.69037	-0.01995	-0.23694	0.797349	3.93E-09	0.882901	0.075968	-0.13151	-0.70592	0.086935	-0.50091	0.191826	2.13E-08	0.71493	0.000196

TMED9	0.057067	0.020038	0.065786	0.189509	0.673287	0.883459	0.626826	0.15798	-0.02733	0.348164	-0.2489	0.267833	0.42845	0.991132	0.049599	0.964036
SLC35F2	0.195846	0.197115	-0.09874	0.493568	0.144283	0.145355	0.464941	9.57E-05	0.226713	0.4851	-0.26301	0.329921	0.932884	0.999634	0.04227	0.986561
RAB39	-0.16635	-0.13897	-0.03088	-0.06628	0.220458	0.31158	0.821278	0.627451	0.168949	-0.2657	0.259974	-0.24812	0.869159	0.037156	0.957707	0.048192
MPHOSPH8	0.124356	0.091838	-0.06991	0.260325	0.356712	0.500834	0.605324	0.050496	0.269881	0.099977	0.034147	0.102391	0.965151	0.745718	0.58811	0.750835
FEV	-0.01079	-0.20426	0.2256	-0.17681	0.93649	0.13104	0.091538	0.188261	0.15687	-0.426	0.162803	-0.3264	0.851092	0.00158	0.857359	0.013419
XAF1	-0.08854	-0.20725	0.205726	0.526224	0.51641	0.128949	0.128231	3.11E-05	0.04471	-0.08025	0.155379	0.17582	0.613395	0.302284	0.840113	0.87319
LEPROT	0.122882	0.088812	-0.11024	0.270721	0.362482	0.515106	0.414297	0.041668	0.139821	0.133444	-0.02115	0.229555	0.822978	0.811683	0.44516	0.937565
LY6K	-0.01733	-0.09111	0.282588	-0.26667	0.898209	0.504272	0.033184	0.044946	-0.01944	-0.19246	0.030064	-0.21314	0.449581	0.10265	0.576805	0.079894
DKFZp566f	0.079462	-0.20759	-0.01943	0.097309	0.560467	0.128318	0.88697	0.475559	0.034974	0.104873	0.081871	-0.05589	0.591245	0.75604	0.703555	0.356083
EPDR1	0.160209	-0.28246	0.067822	-0.1569	0.238203	0.036671	0.619432	0.248159	-0.02704	-0.2609	0.25269	-0.28753	0.429205	0.039948	0.953003	0.026337
PPEF1	0.05937	-0.17761	0.205852	-0.33075	0.660884	0.190346	0.124485	0.011973	0.072706	-0.36777	0.04301	-0.28376	0.68445	0.005959	0.610464	0.027996
FBLIM1	0.170634	-0.09471	0.303732	-0.07176	0.204425	0.487502	0.021626	0.595818	0.382151	-0.23887	0.261526	-0.18399	0.995614	0.054941	0.95866	0.110472
FNDC8	-0.00368	-0.0778	0.227425	-0.22962	0.978297	0.568733	0.088876	0.085755	0.039705	-0.50578	0.070576	-0.37552	0.603333	0.000168	0.677489	0.00506
IL17RD	0.289636	-0.046	0.186227	0.216868	0.028864	0.736375	0.165441	0.105148	0.325463	-0.19128	0.232291	-0.11163	0.986347	0.101435	0.937669	0.230087
FAM20A	0.188492	-0.32177	0.303462	0.24048	0.160265	0.015593	0.021748	0.07156	0.156338	-0.21953	0.180343	-0.06017	0.847451	0.073677	0.882087	0.347294
KLHDC4	-0.05258	-0.17736	0.11092	0.076506	0.697712	0.190986	0.411412	0.571637	-0.05995	-0.04037	-0.10766	0.103168	0.347822	0.396162	0.243333	0.749971
CTSA	-0.03389	0.077669	-0.1664	0.192224	0.802362	0.569372	0.216043	0.152	-0.18536	0.412554	-0.22708	0.262542	0.108736	0.997808	0.066795	0.961025
PCSK4	-0.15536	-0.1611	0.15358	-0.41304	0.248494	0.235567	0.254037	0.001407	-0.09989	-0.36443	0.179723	-0.39123	0.254476	0.006388	0.881267	0.003588
GRAMD1C	-0.10025	-0.01425	-0.03305	-0.16649	0.458105	0.917002	0.80719	0.215799	-0.23555	-0.04782	0.100571	-0.04658	0.057524	0.37615	0.744518	0.379269
ROPN1	0.146661	-0.09911	0.047667	-0.14444	0.280766	0.467398	0.727196	0.288206	0.117049	-0.23156	0.064695	-0.20041	0.780737	0.060758	0.663567	0.090866
ZRANB1	0.082193	0.11175	-0.1482	0.063721	0.543303	0.412232	0.271242	0.63771	0.230335	-0.07064	0.056932	-0.08992	0.93822	0.320437	0.644854	0.276157
TRIM44	-0.10249	0.111008	0.08786	0.199228	0.448055	0.415364	0.515764	0.137345	0.002847	0.222306	0.094559	0.1147	0.507491	0.931216	0.731666	0.776083
BTG4	-0.16608	-0.17104	0.022552	-0.2496	0.216949	0.207523	0.867751	0.061146	-0.13428	-0.31623	0.00244	-0.25466	0.186806	0.016135	0.506345	0.043821
HYDIN	-0.06559	-0.19155	0.091295	-0.25131	0.627855	0.157301	0.499417	0.059338	-0.11065	-0.3435	0.110139	-0.29537	0.232069	0.009713	0.76431	0.023138
DIRAS2	0.023157	-0.10186	0.215439	-0.29257	0.86424	0.455057	0.107517	0.02721	0.054141	-0.38105	0.156151	-0.33264	0.639589	0.004492	0.847157	0.011951
PPP1R12C	0.062029	-0.17671	0.250512	-0.08384	0.646683	0.192636	0.060174	0.535217	0.240383	-0.38327	0.252715	-0.3196	0.946212	0.00428	0.95302	0.01519
C10orf92	-0.23338	-0.24058	0.02436	-0.32614	0.080609	0.074092	0.857255	0.013291	-0.20392	-0.38703	-0.00623	-0.33661	0.087021	0.00394	0.4838	0.011087
RNF111	0.050164	0.276261	-0.28208	0.168277	0.710956	0.039301	0.033514	0.210838	-0.04087	0.422348	-0.26014	0.295215	0.393716	0.998271	0.042188	0.976803
PPIA	0.06838	0.291716	-0.33272	0.11663	0.613271	0.02915	0.011443	0.387598	0.151665	0.589311	-0.21052	0.344588	0.842833	0.999992	0.082554	0.990489
NSMCE4A	-0.00199	0.054446	-0.09892	0.256917	0.988269	0.690231	0.464115	0.053703	-0.07619	0.330864	-0.11176	0.168533	0.30943	0.98679	0.235072	0.865783
ALKBH4	0.057447	-0.11949	0.213669	-0.07982	0.671233	0.380385	0.110508	0.555053	0.011737	-0.06967	0.096013	-0.22389	0.530854	0.322719	0.734802	0.06736
C17orf59	-0.08004	-0.12122	0.131218	-0.13486	0.553968	0.373496	0.330584	0.317215	0.232545	-0.35425	0.291102	-0.27051	0.94005	0.007858	0.973814	0.03451
DNAJB12	0.06804	0.060912	0.142419	0.07306	0.618304	0.655626	0.295063	0.592569	0.086843	0.065639	0.088453	-0.24946	0.716974	0.667638	0.7183	0.047274
PPIB	0.101644	0.174324	0.054263	0.376141	0.451845	0.198806	0.688494	0.003931	0.008666	0.528342	-0.1969	0.468426	0.522791	0.99992	0.097412	0.999487
TET2	-0.0741	0.276077	-0.25959	0.046794	0.583819	0.039438	0.051174	0.729605	0.137995	0.34782	-0.08739	0.139198	0.819788	0.991072	0.284051	0.821894
KCTD9	0.142031	0.166077	-0.06164	0.020353	0.291924	0.22122	0.648749	0.880548	0.069805	0.149669	-0.04018	0.125913	0.677591	0.839589	0.396631	0.797805
TRPM4	-0.03557	-0.00771	0.150867	-0.11984	0.792793	0.95502	0.262623	0.374574	-0.15732	0.317298	-0.10419	0.151519	0.148206	0.984169	0.247905	0.842596
BNC2	0.316455	-0.18509	0.236351	0.177105	0.017495	0.176092	0.079475	0.191624	0.406343	-0.31144	0.391401	-0.05464	0.997462	0.017565	0.996078	0.359169
MED18	-0.03594	0.015194	-0.19246	-0.05026	0.790682	0.911502	0.151494	0.710421	-0.23586	0.402601	-0.14587	0.27358	0.05728	0.99723	0.16951	0.967095
DCHS2	-0.04278	0.011142	0.138018	0.281187	0.754221	0.935649	0.31039	0.035789	-0.00492	-0.20665	-0.01395	-0.11822	0.487216	0.086599	0.464196	0.219632
MBTD1	0.011733	0.180205	-0.20242	0.105424	0.930973	0.18384	0.131036	0.435108	0.061297	0.210867	0.005294	0.093127	0.657142	0.92024	0.513766	0.730913
PPIC	0.121591	0.257954	-0.15987	0.351357	0.367586	0.054929	0.234872	0.007363	-0.04087	0.676515	-0.23673	0.49806	0.393707	1	0.058714	0.999786
KLHL24	0.095099	0.086341	-0.07489	0.142098	0.481638	0.526913	0.579821	0.291697	0.027294	0.177882	0.067155	0.10869	0.571446	0.881539	0.669418	0.763935
FAM29A	-0.05105	0.188021	-0.25303	0.154226	0.70607	0.165229	0.057562	0.252021	-0.03887	0.272116	0.017912	0.140982	0.398796	0.966337	0.546485	0.824989
TRIT1	-0.15905	0.105456	-0.16774	-0.13663	0.237298	0.439214	0.212313	0.310862	-0.34507	0.080939	-0.16435	0.041202	0.009422	0.703579	0.140331	0.607139
CNNM2	0.128842	-0.23046	0.126149	-0.39486	0.343958	0.090506	0.354223	0.002599	0.093248	-0.50514	0.252909	-0.42909	0.731179	0.000172	0.95315	0.001462
AHI1	0.030619	0.047371	0.020948	-0.11705	0.821124	0.728826	0.877084	0.385889	0.187431	-0.19346	0.109038	-0.06749	0.89386	0.098831	0.762076	0.327916
ZNF586	-0.01313	0.228994	-0.03154	-0.02828	0.923509	0.092629	0.81752	0.836072	0.160966	0.203834	0.000511	0.161072	0.857391	0.912885	0.501329	0.857551
DYM	0.004487	0.178613	-0.17359	0.196845	0.973819	0.191986	0.20074	0.145918	0.121997	0.202643	0.031076	0.189949	0.790362	0.911593	0.580294	0.896956
SAMD9	-0.17205	0.321872	-0.31431	0.254922	0.204812	0.016557	0.018316	0.057947	-0.07517	0.530149	-0.17329	0.427493	0.309761	0.999924	0.127479	0.998478

PPID	-0.10395	0.143069	-0.19007	0.052996	0.441579	0.292844	0.156742	0.695412	-0.25356	0.3227	-0.10435	0.330171	0.044538	0.98564	0.247565	0.987486
GIPC2	0.064008	-0.23851	0.058211	-0.06293	0.636193	0.076686	0.667114	0.641917	-0.15024	-0.29475	0.106821	-0.07213	0.159485	0.02338	0.757541	0.316914
ZNF562	0.035784	0.324998	-0.20522	0.081511	0.793454	0.015477	0.129192	0.550365	-0.0488	0.459187	-0.20266	0.438609	0.373706	0.999336	0.090916	0.998852
AFTPH	-3.51E-05	0.216188	-0.20651	0.066938	0.999793	0.109532	0.123254	0.620789	-0.10332	0.301357	-0.16745	0.183944	0.2472	0.979087	0.135788	0.889469
KLHL28	-0.02097	0.074089	-0.17265	-0.0694	0.876962	0.587356	0.199035	0.607993	-0.12668	0.144545	-0.01318	0.101559	0.200752	0.831074	0.46575	0.749078
QPCTL	-0.0574	-0.12062	0.138952	-0.11933	0.6715	0.375865	0.302617	0.376645	-0.02035	-0.0684	0.015726	-0.13947	0.446604	0.325757	0.540833	0.177636
GATAD2A	-0.08825	0.026921	0.083845	-0.10017	0.5178	0.845316	0.538972	0.462593	-0.0471	0.220985	-0.06114	0.121202	0.377969	0.930009	0.344962	0.788832
ZNF280D	0.122489	0.08077	0.006946	0.199994	0.364033	0.554011	0.959105	0.135808	0.291378	0.050817	-0.02921	0.192573	0.973931	0.629872	0.425359	0.897489
ZCCHC10	-0.04589	0.201264	-0.14604	-0.01099	0.734611	0.136904	0.278364	0.935357	-0.13485	0.271514	-0.32601	0.138181	0.185791	0.96602	0.014426	0.820115
NDE1	-0.09158	0.117579	-0.07967	-0.19138	0.498086	0.388118	0.555784	0.153831	-0.07881	-0.02223	-0.13819	-0.16134	0.301316	0.441702	0.182659	0.142037
ERCC6L	-0.28415	0.168908	-0.11057	-0.08874	0.033803	0.217665	0.417227	0.515452	-0.20611	0.362597	0.011474	0.327148	0.087179	0.992815	0.529462	0.985867
TRPM7	0.073678	0.177129	-0.13697	0.221993	0.585977	0.191562	0.309626	0.096984	0.160561	0.289083	-0.04114	0.272951	0.856775	0.974324	0.394233	0.966771
C1orf26	0.177288	0.15019	-0.00148	0.000578	0.187063	0.269224	0.991308	0.996597	0.078002	-0.20977	0.039323	-0.32671	0.696816	0.080872	0.601203	0.013343
PCDH24	-0.13893	-0.16381	0.099596	-0.33446	0.30271	0.227674	0.461053	0.010994	-0.04716	-0.44445	0.072804	-0.47332	0.377815	0.000986	0.682705	0.000447
GIN1	0.001173	0.08033	-0.19122	-0.08893	0.993092	0.556175	0.1542	0.51064	0.117818	0.088992	0.063796	0.034081	0.782249	0.721778	0.661418	0.588954
FAM55D	-9.75E-05	-0.17219	0.091442	-0.08507	0.999431	0.20444	0.502691	0.533026	0.179496	-0.41942	0.078744	-0.44279	0.883687	0.001857	0.696433	0.00103
BCAS3	-0.21974	-0.01006	-0.11349	-0.16472	0.103681	0.941909	0.404931	0.225078	-0.15967	-0.22153	-0.061	-0.26383	0.144577	0.069491	0.345292	0.038224
ASPN	0.237228	-0.18476	0.022461	0.32287	0.075599	0.172815	0.868282	0.014301	0.229899	-0.12412	0.276573	0.19816	0.937854	0.205576	0.967054	0.906605
NUP62CL	-0.14227	0.055755	-0.12846	-0.26813	0.291094	0.683173	0.340943	0.043738	-0.31741	-0.01716	-0.09657	-0.06885	0.0158	0.454947	0.263995	0.324687
BEST2	-0.09885	-0.066	0.186564	-0.21131	0.46443	0.628891	0.164664	0.114586	0.011798	-0.40028	0.14672	-0.4333	0.531013	0.002922	0.831913	0.001315
VPS13C	0.001563	0.034685	-0.04745	0.198234	0.990794	0.799662	0.725959	0.139356	-0.01544	0.106417	0.018949	0.219321	0.459446	0.759251	0.549163	0.928467
GDAP2	-0.01058	0.264713	-0.16008	0.048039	0.937716	0.048658	0.23426	0.722698	-0.02042	0.23519	-0.15177	0.079818	0.446426	0.942186	0.159817	0.701007
BSPRY	-0.14926	0.288601	-0.07761	-0.2196	0.267814	0.030997	0.566092	0.100735	-0.33537	0.365441	-0.22888	0.051605	0.011351	0.993744	0.065225	0.633297
C10orf26	-0.02755	-0.23396	0.084549	0.043324	0.838814	0.082657	0.531767	0.748975	0.162154	-0.21458	0.078007	-0.19849	0.859183	0.076065	0.694744	0.093016
LRRC49	-0.05358	-0.06792	-0.02745	-0.18311	0.692222	0.618907	0.839381	0.172773	-0.16611	-0.25627	0.094514	-0.10499	0.134955	0.042795	0.731568	0.24372
APTX	-0.19177	0.227734	-0.35585	-0.05985	0.152997	0.091406	0.006595	0.65829	-0.06415	0.219701	-0.16532	0.271181	0.335943	0.928822	0.138899	0.965844
BIVM	0.045482	0.355404	-0.15497	0.117046	0.736913	0.007188	0.249703	0.385895	0.095412	0.369944	-0.12008	0.258577	0.735896	0.994305	0.216022	0.958641
MFSD6	-0.26459	0.346418	-0.32532	-0.17719	0.048766	0.009574	0.014426	0.191418	-0.23847	0.234863	-0.17824	0.072299	0.057338	0.939787	0.123523	0.681525
SYTL2	-0.14108	0.383831	-0.20803	-0.30979	0.295199	0.003497	0.12046	0.019026	-0.27877	0.313522	-0.12113	0.085446	0.030323	0.983069	0.214001	0.713829
RBM35A	-0.08003	0.47207	-0.26003	-0.09088	0.554023	0.00024	0.050764	0.501391	-0.23364	0.649233	-0.34383	0.381648	0.059061	0.999999	0.010373	0.995566
SIDT1	-0.15031	0.006438	0.074614	0.225935	0.264394	0.962438	0.581216	0.091046	-0.17688	0.10255	-0.13994	0.049852	0.119812	0.75117	0.179618	0.628927
FLJ20184	-0.22582	-0.04817	0.059761	-0.18369	0.091214	0.724429	0.658788	0.17139	-0.17671	-0.12161	0.002096	-0.18929	0.12004	0.210379	0.505452	0.103848
DEF8	0.027502	-0.2055	0.188079	0.082587	0.840541	0.132281	0.165096	0.545099	-0.13346	-0.05708	-0.08513	-0.10659	0.188293	0.353169	0.289099	0.240385
FBXL12	-0.0174	-0.1962	0.071971	0.043397	0.897795	0.147262	0.59471	0.748563	0.028924	0.10226	-0.12198	-0.08439	0.574799	0.748072	0.215126	0.290773
ANKRD49	-0.03492	0.218523	-0.04019	0.07067	0.796495	0.105659	0.76661	0.601404	-0.06914	0.072477	-0.08795	-0.00075	0.323994	0.683911	0.282806	0.498029
PAQR5	0.174637	-0.15054	0.079472	-0.15836	0.197988	0.272603	0.560416	0.243729	0.067465	-0.07555	-0.02185	-0.24468	0.672015	0.308893	0.443348	0.050623
WDR55	-0.22413	0.164993	-0.14918	0.166214	0.093723	0.224292	0.268065	0.216568	-0.19783	0.451014	-0.19313	0.268341	0.093769	0.999172	0.10184	0.964315
FAM83E	-0.09555	-0.08501	0.14731	-0.15478	0.479549	0.533308	0.274173	0.250292	0.00358	-0.20301	0.083969	-0.32359	0.509311	0.090532	0.70606	0.015065
FAM46C	0.040249	-0.20198	0.066561	0.299141	0.766266	0.135478	0.622765	0.023792	0.056178	-0.25695	0.024493	-0.16795	0.643019	0.044201	0.562699	0.135062
GON4L	-0.12836	0.108313	0.021785	-0.0222	0.345771	0.431201	0.873378	0.871017	-0.06577	0.034789	0.018432	-0.03001	0.332045	0.590769	0.547829	0.421538
GDPD2	-0.01564	0.190686	-0.05048	-0.2721	0.908896	0.163161	0.711753	0.042488	-0.01901	0.306451	-0.10503	-0.08831	0.45068	0.979693	0.24872	0.282017
PGPEP1	0.041419	-0.16602	0.290907	-0.04102	0.759674	0.221391	0.028138	0.761919	-0.02312	-0.13105	0.075366	-0.03124	0.439393	0.192662	0.688657	0.418362
C3orf75	0.012841	0.115156	-0.14382	0.075694	0.924473	0.398037	0.285824	0.575738	-0.19051	0.449857	-0.25884	0.317936	0.102365	0.999146	0.042997	0.984349
MS4A12	0.064484	-0.14396	-0.01679	-0.35331	0.633678	0.289809	0.901343	0.007021	-0.04115	-0.36711	0.048925	-0.35779	0.39299	0.006043	0.625195	0.007317
SNRK	0.240932	-0.13344	0.092378	0.377501	0.071013	0.326854	0.49432	0.003793	0.261377	-0.18574	0.203546	-0.04545	0.960336	0.108257	0.910055	0.382118
CC2D1A	-0.04553	0.087745	0.031924	-0.23099	0.736635	0.520189	0.813632	0.083848	-0.03632	0.180383	-0.05321	-0.08082	0.405309	0.884857	0.364248	0.296685
C9orf167	-0.07711	0.152272	0.016464	-0.07544	0.568576	0.262565	0.903252	0.577039	0.082796	0.129302	0.087135	-0.07921	0.707823	0.804122	0.715375	0.300383
DNAJC25	0.109402	0.092875	-0.01624	-0.01303	0.417879	0.495993	0.904537	0.923387	0.145814	0.134557	-0.06202	0.077539	0.833209	0.813684	0.34285	0.695741
GPATCH4	-0.02402	0.103629	-0.14782	-0.03658	0.859225	0.447226	0.272492	0.787022	-0.02278	0.433293	-0.09653	0.195504	0.440289	0.998685	0.264094	0.903556
PPP1R14D	-0.12241	-0.07697	0.181969	-0.23681	0.364359	0.572883	0.175501	0.07613	-0.02496	-0.42856	0.194315	-0.32984	0.43461	0.001482	0.899561	0.012592

TMEM214	0.124822	0.028706	0.204652	0.071411	0.354898	0.833659	0.126743	0.597589	0.213445	0.164784	-0.02893	0.111168	0.922819	0.863103	0.425182	0.768986
TMEM104	0.100599	-0.09485	0.185117	-0.00058	0.45653	0.486847	0.168022	0.99661	-0.05609	0.112894	-0.05517	0.138455	0.355609	0.772469	0.359447	0.820596
EPS8L1	-0.21646	0.297868	-0.1647	-0.21194	0.105813	0.025771	0.220831	0.113489	-0.04187	0.412615	-0.24198	0.117909	0.391157	0.997812	0.054634	0.782428
QRICH1	-0.04341	0.332676	-0.30741	0.122576	0.748503	0.012239	0.020011	0.363691	-0.07079	0.526339	-0.16158	0.279928	0.320082	0.999914	0.144487	0.97023
PIGG	-0.01096	0.161387	0.00555	0.272141	0.935514	0.234724	0.967314	0.040567	0.144479	0.303462	-0.07315	0.177128	0.830963	0.979826	0.316487	0.880525
PALMD	-0.01746	-0.03791	-0.05654	-0.12268	0.897414	0.78148	0.676159	0.363294	-0.00721	-0.08657	0.15468	0.024027	0.481042	0.283637	0.84484	0.562968
FNBP1L	0.004787	0.165005	-0.10455	-0.00861	0.971807	0.224257	0.438934	0.949291	0.021312	0.142898	-0.09372	0.121729	0.555901	0.828278	0.270161	0.789846
CNTLN	0.059872	-0.00433	-0.12244	-0.12328	0.658195	0.974748	0.364207	0.360903	0.179536	-0.22543	0.097298	-0.06195	0.88374	0.065988	0.737559	0.341263
C4orf30	0.029284	0.278452	-0.07229	0.077188	0.830356	0.039539	0.596488	0.571776	0.186903	0.326607	0.085346	0.230166	0.893203	0.986632	0.711383	0.938079
ZCCHC2	0.038625	-0.02856	-0.08216	0.027589	0.775444	0.834474	0.54349	0.838576	0.209855	-0.2547	-0.05579	-0.22405	0.91921	0.043795	0.357934	0.067216
DPP8	0.005257	0.204954	-0.24321	0.253676	0.969039	0.129703	0.068299	0.056903	-0.01365	0.38052	-0.1706	0.318179	0.464126	0.995456	0.131262	0.984417
ST7L	0.042921	0.148977	-0.17378	0.080527	0.751235	0.273155	0.196069	0.551533	0.059385	0.092892	-0.09814	0.145508	0.652481	0.730397	0.260632	0.832696
BCOR	0.084928	0.010751	-0.11328	0.144599	0.533723	0.937903	0.405805	0.287657	0.183744	-0.0087	0.225439	0.125428	0.889213	0.477116	0.931753	0.796892
TEX10	-0.01521	0.351707	-0.29558	0.197738	0.910585	0.007859	0.025599	0.140369	0.052575	0.508829	-0.13609	0.409537	0.635708	0.999847	0.186359	0.997646
ANKHD1	0.139669	0.198258	-0.08967	0.199827	0.304582	0.14678	0.511021	0.139789	0.207551	0.266618	-0.00827	0.243021	0.916831	0.963361	0.478508	0.948173
CCDC49	-0.0832	0.232052	0.007029	-0.07161	0.538338	0.085263	0.958613	0.596554	-0.13525	0.042926	-0.00041	-0.1169	0.185083	0.611511	0.498934	0.219562
RETSAT	-0.13486	0.155607	-0.2037	0.102086	0.321704	0.256614	0.132124	0.454055	-0.14949	0.621619	-0.34987	0.310046	0.160702	0.999998	0.009237	0.982001
TBC1D8B	0.072275	0.17947	-0.01835	-0.12454	0.593153	0.185665	0.892246	0.356005	0.229011	0.112318	0.076542	0.04744	0.934887	0.768703	0.689287	0.621513
RP11-35N6	0.021679	-0.23303	0.172526	-0.2768	0.872832	0.083925	0.199375	0.037125	0.046761	-0.44793	0.127466	-0.3251	0.621182	0.000899	0.797978	0.013745
UHRF1BP1	-0.01013	0.113967	-0.05246	-0.05026	0.940407	0.402959	0.698335	0.710449	-0.05947	0.55536	-0.24596	0.228172	0.347321	0.999969	0.051692	0.936389
NSUN2	0.046257	0.217904	-0.26201	0.217675	0.732592	0.106676	0.048973	0.103828	0.061315	0.589625	-0.23792	0.341544	0.657185	0.999992	0.057764	0.989912
ALKBH5	-0.06405	-0.16768	0.061909	-0.14395	0.635976	0.216722	0.64732	0.285401	-0.27765	-0.14944	0.031413	-0.08748	0.030866	0.160789	0.581153	0.281601
INO80D	0.004914	0.319367	-0.13169	0.258256	0.971062	0.01643	0.328834	0.052424	0.206084	0.456048	-0.01882	0.227522	0.915289	0.999277	0.451181	0.935831
NCAPG2	0.00346	0.202064	-0.23067	0.150268	0.979807	0.139024	0.087193	0.268971	-0.21214	0.697009	-0.27279	0.468997	0.078476	1	0.034917	0.999495
MTMR10	0.087605	0.186309	-0.08157	0.056778	0.516985	0.169183	0.546393	0.674847	0.221096	0.158637	-0.00087	0.005322	0.930111	0.85383	0.497745	0.514
RNF43	-0.08325	0.233819	-0.13381	-0.09339	0.538131	0.082845	0.321042	0.489575	-0.24758	0.553942	-0.13431	0.351877	0.04857	0.999967	0.189536	0.99176
PQLC2	0.021242	-0.17621	0.210507	-0.13086	0.875374	0.193921	0.116007	0.331929	-0.03574	-0.22094	0.069552	-0.24036	0.406787	0.07003	0.675082	0.053803
CASZ1	-0.138	-0.05514	0.030561	-0.38278	0.305992	0.686491	0.82146	0.003296	-0.25609	-0.09422	-0.04938	-0.26569	0.042908	0.266694	0.37369	0.037161
ELOVL2	0.038462	-0.17332	0.143282	-0.20695	0.778378	0.2057	0.292117	0.125925	-0.03653	-0.27722	0.187004	-0.27894	0.40477	0.031079	0.89066	0.030241
PXK	0.136406	0.028474	-0.10777	0.111831	0.311649	0.834981	0.424892	0.407556	-0.07892	0.01623	0.001414	0.111256	0.303174	0.542136	0.503635	0.766568
AUH	0.086748	0.143275	-0.01954	0.216215	0.521111	0.292139	0.885293	0.106226	0.231801	0.28343	0.034261	0.119627	0.939439	0.971853	0.588398	0.785782
LAX1	-0.06232	-0.1584	0.044824	0.663723	0.648188	0.248077	0.74289	2.47E-08	-0.21428	0.197011	-0.05883	0.420336	0.078763	0.902711	0.35222	0.997979
CDKAL1	0.089251	0.139159	-0.11376	0.084922	0.50911	0.306369	0.399465	0.529952	0.109617	0.300056	-0.00824	0.203141	0.765832	0.978619	0.47858	0.912134
TTC19	0.097387	0.330906	-0.27871	0.223744	0.471104	0.012737	0.03578	0.094309	0.125672	0.464507	-0.17134	0.400825	0.797351	0.999427	0.130209	0.997114
MKS1	-0.13348	-0.12194	-0.00995	-0.24361	0.322257	0.370636	0.941428	0.06784	-0.34428	-0.08667	-0.0424	-0.11141	0.009568	0.283424	0.391055	0.230519
WHSC1L1	-0.01075	0.205359	-0.22202	-0.0547	0.936721	0.12893	0.096938	0.686137	0.072047	0.180058	0.000738	0.088797	0.682897	0.884428	0.501918	0.721343
CYP2W1	0.098531	-0.1521	0.212562	-0.174	0.465887	0.2631	0.11241	0.195515	0.113561	-0.18255	0.107084	-0.25106	0.773808	0.11232	0.758082	0.046191
C10orf18	-0.04022	0.262993	-0.2676	0.268266	0.766432	0.050195	0.044174	0.043628	0.259858	0.267993	-0.07074	0.256837	0.959424	0.964124	0.322137	0.95756
CCDC99	0.042923	0.271505	-0.30183	-0.05059	0.753439	0.04495	0.023774	0.711167	-0.05477	0.550781	-0.24878	0.356695	0.358851	0.999963	0.049684	0.992519
SEMA4C	0.02176	0.040921	0.134808	0.066213	0.872361	0.764601	0.317405	0.624589	-0.09304	0.10933	-0.09848	0.137181	0.269282	0.765245	0.259919	0.818354
RPP25	-0.1389	0.034639	0.06041	-0.0591	0.302801	0.799925	0.655319	0.662325	-0.05484	0.086403	-0.02663	0.013429	0.358688	0.715986	0.431067	0.535292
KIAA1797	-0.09736	-0.05902	-0.0877	-0.16575	0.471239	0.665671	0.516508	0.217877	-0.32853	0.110192	-0.09815	0.102598	0.012901	0.767004	0.260615	0.751273
YTHDF1	0.034592	0.395926	-0.04364	0.30849	0.798373	0.002524	0.747217	0.019559	0.1297	0.480758	-0.12192	0.282222	0.804857	0.99964	0.21249	0.971302
C14orf101	-0.08859	0.418037	-0.26634	0.093664	0.512276	0.001346	0.045221	0.488303	-0.056	0.545981	-0.21506	0.309047	0.355828	0.999957	0.07799	0.981684
CMTM6	-0.04396	0.218945	-0.24475	0.130388	0.74541	0.10497	0.066526	0.333677	-0.10376	0.337968	-0.21604	0.296582	0.248797	0.988415	0.07949	0.976053
HEATR2	-0.21289	-0.00478	-0.11003	-0.26249	0.11184	0.972097	0.415211	0.048539	-0.44647	0.113059	-0.20714	-0.00361	0.000935	0.772802	0.086082	0.490503
DUS2L	-0.29194	0.247472	-0.12819	0.124317	0.029021	0.068517	0.346422	0.361312	-0.26302	0.495831	-0.31824	0.351521	0.038695	0.999771	0.016566	0.991702
CHTF8	-0.12161	-0.08544	-0.23845	0.111359	0.36752	0.531256	0.074056	0.409552	-0.25575	0.498935	-0.34957	0.376343	0.043129	0.999792	0.009292	0.995028
RASIP1	0.20633	-0.28889	0.24268	0.008181	0.123593	0.03082	0.068927	0.95184	0.082133	-0.36511	0.190852	-0.13791	0.706311	0.006299	0.895411	0.180358
LIME1	-0.05404	-0.15164	0.225403	-0.04905	0.689685	0.264589	0.09183	0.717088	0.012226	-0.30456	0.136765	-0.26697	0.532138	0.019799	0.814834	0.036441

ZNF434	-0.36105	0.034534	-0.32962	-0.06517	0.005794	0.800519	0.012284	0.630047	-0.14702	-0.21125	-0.03369	-0.26843	0.164773	0.079372	0.413049	0.035638
UBE2R2	0.038348	0.226862	-0.18151	0.040347	0.777015	0.092688	0.176606	0.765713	-0.0629	0.220599	-0.09941	0.174002	0.338972	0.929654	0.257944	0.876264
CHCHD3	0.088264	0.235217	-0.13565	0.022609	0.513825	0.080971	0.314351	0.867425	0.054395	0.288256	0.055579	0.309317	0.640216	0.973974	0.641557	0.98177
IMPAD1	0.046146	0.290924	-0.10755	0.32095	0.733213	0.02961	0.425843	0.014924	0.242222	0.353717	-0.00475	0.29012	0.947584	0.992057	0.487658	0.974758
TMEM161/	-0.07863	0.092101	-0.13023	0.048196	0.560983	0.499606	0.334264	0.721829	-0.12032	0.544024	-0.23333	0.252795	0.212871	0.999953	0.061473	0.954963
PPL	-0.0615	0.130977	-0.10924	-0.17415	0.652506	0.340511	0.422866	0.199249	-0.1412	0.525765	-0.30263	0.13752	0.174638	0.999912	0.021659	0.818952
C14orf94	0.083627	0.087858	-0.14894	0.009123	0.536268	0.519648	0.268827	0.946302	-0.06092	0.320388	-0.09771	0.076096	0.34378	0.985025	0.26155	0.692389
RG9MTD1	0.105876	0.183341	-0.29623	0.21728	0.43313	0.176199	0.025261	0.104473	-0.13427	0.517726	-0.31922	0.413207	0.186821	0.999886	0.016283	0.997842
EXD3	0.097387	-0.18289	0.278928	-0.19831	0.471105	0.177285	0.035632	0.139192	0.211123	-0.38169	0.230141	-0.31144	0.920498	0.00443	0.935856	0.017564
RHBDL2	-0.27957	0.449208	-0.43035	0.046533	0.03519	0.000515	0.000834	0.731055	-0.25559	0.739336	-0.27645	0.392078	0.043226	1	0.033006	0.996479
C12orf41	-0.1231	0.300579	-0.2975	0.285964	0.361634	0.02439	0.024609	0.031052	-0.09279	0.5287	-0.18756	0.291181	0.269831	0.999921	0.10865	0.975195
DUSP23	-0.1945	0.016404	-0.00955	0.384925	0.147106	0.904488	0.943772	0.003111	0.002136	0.087606	-0.07156	0.141622	0.50562	0.718684	0.320215	0.826092
ADPRHL2	-0.19971	-0.23343	-0.07063	-0.26983	0.136377	0.083373	0.601619	0.042372	-0.34124	-0.20276	-0.21727	-0.29818	0.010148	0.088284	0.07583	0.022072
SOHLH2	0.142869	-0.17778	0.134203	-0.23898	0.293526	0.194098	0.324084	0.076093	0.113752	-0.42604	0.093383	-0.28322	0.774191	0.001578	0.729115	0.028242
SARS2	-0.03124	0.207768	-0.07842	-0.02889	0.817548	0.124405	0.562018	0.831074	-0.16324	0.507195	-0.22324	0.253669	0.139191	0.999839	0.070232	0.955535
COMMD4	-0.30453	0.068631	-0.12955	-0.10073	0.022492	0.615249	0.341303	0.460115	-0.10279	0.016675	0.130423	-0.20792	0.250826	0.543286	0.800619	0.085252
PPM1A	0.164653	0.064564	-0.11558	0.021378	0.220976	0.636393	0.391909	0.874579	0.12838	-0.02545	0.180529	-0.05896	0.802415	0.433331	0.882332	0.348557
OCIAD1	0.146836	0.096576	-0.16066	0.090048	0.275734	0.478903	0.232522	0.505323	-0.08924	0.360876	-0.20806	0.291147	0.277661	0.993128	0.085112	0.975181
RNF125	0.216597	-0.1214	-0.03561	0.266081	0.108846	0.37727	0.794419	0.047463	0.08782	-0.00021	-0.00994	0.07301	0.716896	0.49945	0.474479	0.683184
C9orf6	-0.22179	0.080276	-0.13629	-0.14451	0.097297	0.556443	0.312062	0.283481	-0.19728	-0.04318	-0.05402	-0.09761	0.094393	0.387854	0.362254	0.259341
DNAJC28	-0.19621	0.102275	-0.25132	-0.08141	0.143533	0.453216	0.059324	0.547185	-0.27182	-0.06184	-0.10243	-0.1189	0.033818	0.34153	0.251582	0.215627
FLJ20464	-0.04257	-0.13026	0.203325	-0.20614	0.75321	0.338633	0.129278	0.123951	0.095966	-0.32203	0.013362	-0.21982	0.737099	0.014535	0.534711	0.071069
SLC41A3	0.084562	0.162659	-0.00437	0.167302	0.535494	0.235416	0.974482	0.217784	-0.13987	0.378954	-0.28908	0.220436	0.17693	0.9953	0.027055	0.929504
LPCAT2	0.250923	-0.0011	-0.11565	0.377389	0.059741	0.993569	0.39164	0.003804	0.132772	0.233127	0.032686	0.315412	0.810468	0.940525	0.584395	0.983627
MRPL16	0.123632	0.140719	-0.12543	-0.00558	0.363983	0.305486	0.356986	0.967459	-0.27582	0.409942	-0.16276	0.130013	0.03177	0.997668	0.142707	0.805433
C11orf79	-0.04118	0.17598	-0.26273	0.11074	0.760999	0.194507	0.048329	0.412177	-0.11182	0.266643	-0.1627	0.202358	0.229693	0.963375	0.142788	0.911282
PPM1B	-0.1249	0.331887	-0.25999	0.18362	0.354602	0.012459	0.050801	0.171548	0.313163	0.114979	0.032615	0.022762	0.982961	0.77664	0.584214	0.559676
COMMD8	-0.00088	0.004952	-0.30247	0.055919	0.994836	0.971104	0.022206	0.679497	-0.38337	0.257728	-0.31428	0.265201	0.00427	0.958117	0.017752	0.962562
TRNAU1AP	-0.2095	-0.09994	-0.2261	-0.28794	0.117796	0.463652	0.090804	0.029861	-0.11341	-0.10472	-0.11107	-0.11922	0.226498	0.244279	0.234564	0.215017
C1orf27	0.029626	0.26592	-0.13714	0.135584	0.826835	0.047602	0.309029	0.314603	0.107151	0.314417	-0.11165	0.173339	0.760768	0.983335	0.232632	0.875346
FAM120C	0.098648	-0.02295	-0.19018	-0.18979	0.469477	0.866663	0.160334	0.161213	-0.26456	0.419003	-0.12317	0.310662	0.037803	0.998124	0.210098	0.982194
C1orf109	-0.07273	0.013006	-0.14295	0.055679	0.590839	0.924204	0.288766	0.680797	-0.04343	0.082898	-0.18452	0.003534	0.387204	0.708055	0.112484	0.509297
PARP16	0.09965	0.092758	-0.25391	0.024344	0.464953	0.500587	0.058988	0.858651	0.295452	0.080684	0.141608	0.021428	0.976894	0.702996	0.823269	0.556203
TXNL4B	-0.17547	0.28879	-0.29115	0.183521	0.191691	0.030882	0.028003	0.171785	-0.06174	0.35021	-0.25557	0.174029	0.341778	0.991483	0.045088	0.876301
TMEM160	-0.08166	-0.20471	0.180647	-0.09756	0.545939	0.130163	0.178712	0.470303	0.12122	-0.35408	0.109562	-0.22303	0.788867	0.007885	0.76314	0.068133
ODAM	-0.00916	-0.26473	0.145991	0.130969	0.946551	0.050792	0.282992	0.335984	0.264741	-0.22851	0.154355	-0.24541	0.9623	0.063321	0.844324	0.050101
PPM1G	-0.0962	0.10004	-0.25575	-0.14684	0.476546	0.463197	0.054834	0.275727	-0.31126	0.519643	-0.19062	0.314591	0.017619	0.999893	0.104875	0.983387
GEMIN8	-0.0094	-0.13475	0.06974	-0.33173	0.94467	0.322087	0.606214	0.011707	-0.31389	-0.23259	0.080263	-0.177	0.017874	0.062081	0.697742	0.122391
SSH3	0.024466	0.167477	-0.0269	-0.16129	0.856644	0.217296	0.842541	0.230692	-0.05168	0.44429	-0.26231	0.153803	0.366515	0.99901	0.040866	0.84626
TIPIN	-0.0676	-0.18411	-0.15956	-0.09883	0.620603	0.178435	0.240133	0.468667	0.024946	-0.17468	0.098144	-0.11648	0.565357	0.122808	0.739368	0.22038
UCKL1	-0.02292	-0.08015	0.085327	-0.17666	0.865614	0.557059	0.527986	0.188659	-0.10965	-0.03162	-0.11652	-0.09792	0.234104	0.417366	0.22295	0.258676
C1orf56	0.232212	-0.19534	0.28498	-0.47032	0.082181	0.149094	0.031662	0.000223	0.161052	-0.37214	0.301119	-0.37468	0.857521	0.005437	0.977787	0.005152
PIGX	0.030611	0.274057	-0.21618	0.189528	0.821169	0.040962	0.106276	0.157938	-0.09946	0.508439	-0.16984	0.384165	0.255388	0.999846	0.132347	0.995803
CXorf48	-0.10054	-0.11941	-0.00192	-0.27428	0.456798	0.380738	0.988666	0.038953	-0.01177	-0.45931	0.087924	-0.29527	0.469053	0.000661	0.717128	0.023175
TMEM70	-0.09594	0.120236	-0.39847	0.151513	0.477758	0.377409	0.002141	0.260561	0.068913	0.310765	-0.12503	0.18045	0.67547	0.982226	0.206589	0.884944
C4orf27	0.107405	-0.0395	-0.15549	-0.00212	0.426481	0.772562	0.248103	0.987515	-0.09859	0.155606	-0.08109	0.220788	0.257246	0.849112	0.298208	0.929828
TTC12	-0.13239	-0.09592	0.04766	-0.26986	0.326242	0.481909	0.724798	0.042349	-0.31253	-0.2137	-0.04457	-0.20501	0.01723	0.076933	0.385642	0.085854
BANP	-0.20976	-0.28145	0.112131	-0.11053	0.117346	0.035609	0.406289	0.413067	-0.07786	-0.28269	0.143909	-0.23036	0.30352	0.028484	0.827192	0.06176
TMEM132/	0.061008	0.248954	0.083426	-0.07678	0.65212	0.06428	0.537252	0.570257	0.130446	0.1627	-0.00763	-0.02221	0.806228	0.860004	0.480165	0.441763
CPSF3L	-0.00636	-0.17844	0.05776	-0.0863	0.962569	0.188246	0.669543	0.523285	0.04188	-0.04948	0.060911	-0.12938	0.607634	0.373442	0.652755	0.198486

THG1L	-0.04997	0.264081	-0.28407	0.080824	0.712003	0.049218	0.032236	0.550063	-0.13183	0.446156	-0.04356	0.445248	0.191235	0.999057	0.388169	0.999035
C2orf27	-0.0253	-0.05605	0.180885	-0.07481	0.853139	0.684391	0.182163	0.583719	0.00546	-0.09444	-0.05462	-0.19524	0.514364	0.266219	0.360776	0.096751
SLC25A38	0.063555	0.183362	0.26585	0.216506	0.638589	0.176148	0.045632	0.105743	0.036357	-0.0093	-0.05648	0.010658	0.594788	0.475546	0.356257	0.528022
C2orf18	0.061492	0.097173	-0.00827	0.046224	0.649542	0.476179	0.951334	0.732777	0.09572	0.329821	0.000769	0.149852	0.736567	0.987404	0.502001	0.839889
HRASLS2	-0.19591	-0.17808	-0.02836	-0.04762	0.144155	0.189155	0.834111	0.72501	-0.25391	0.034537	-0.00231	0.055273	0.044309	0.590124	0.494	0.642386
PPOX	-0.21662	-0.11694	-0.04968	-0.21956	0.105556	0.390727	0.713605	0.100803	-0.3018	-0.16385	-0.06144	-0.13743	0.020756	0.138282	0.344235	0.181202
C2orf42	-0.1389	0.192081	-0.11758	-0.01301	0.302818	0.156124	0.383731	0.923504	-0.12647	0.116159	-0.14082	0.099395	0.201151	0.77898	0.178085	0.744477
C9orf95	-0.14903	0.3565	-0.31341	0.054993	0.268561	0.006999	0.017601	0.684524	0.120332	0.244487	-0.06671	0.15931	0.787149	0.949238	0.331644	0.854865
CLN6	-0.12338	0.219043	-0.24512	0.161309	0.36053	0.104812	0.066097	0.230628	-0.15609	0.650106	-0.36051	0.37465	0.150124	0.999999	0.007492	0.994845
PINX1	0.172419	0.031934	-0.02408	0.285284	0.199657	0.815263	0.858899	0.031472	0.215331	0.16594	-0.08323	-0.02848	0.924666	0.864802	0.293364	0.425482
HCFC1R1	0.136134	-0.02253	0.311807	-0.05874	0.312624	0.86909	0.018219	0.664256	0.120758	-0.23116	0.183374	-0.14897	0.787974	0.061095	0.886043	0.16155
ULK4	-0.11812	-0.14636	0.022004	-0.18091	0.38151	0.281752	0.870939	0.178064	-0.18403	-0.29015	0.044052	-0.21165	0.11042	0.025229	0.613071	0.07897
C1orf123	0.123552	-0.01349	-0.09962	0.167953	0.359853	0.921388	0.46093	0.211731	0.188042	0.181868	0.086962	0.151929	0.894617	0.886796	0.714989	0.843258
ACSM5	0.014357	-0.10148	0.102042	-0.13505	0.915585	0.456759	0.450065	0.31653	0.082741	-0.43695	0.027258	-0.38181	0.705522	0.001345	0.569711	0.004826
ZNF770	-0.01873	0.256662	-0.32873	0.15531	0.89004	0.056199	0.012537	0.248664	0.045499	0.527387	-0.10959	0.405907	0.618006	0.999917	0.236796	0.997436
PPP1CA	-0.0232	0.161905	-0.12354	0.151556	0.86525	0.237623	0.364332	0.264843	-0.17624	0.60099	-0.22953	0.386091	0.120673	0.999995	0.064663	0.995977
C1orf159	0.028236	-0.01004	0.305721	-0.27338	0.836344	0.941989	0.021942	0.041484	-0.03011	0.04724	-0.02584	-0.0515	0.421259	0.622386	0.433091	0.36696
ZSCAN2	-0.09594	-0.15945	0.28129	0.001297	0.477744	0.24045	0.034036	0.992362	0.088727	-0.37598	0.20619	-0.22455	0.721187	0.005011	0.91291	0.066769
C2orf11	-0.03753	0.184702	-0.2669	-0.06249	0.783596	0.177024	0.046756	0.647295	-0.2103	0.572939	-0.3004	0.362226	0.080333	0.999984	0.022483	0.993315
OXSM	-0.01116	0.281782	-0.18162	0.351606	0.934941	0.037143	0.180365	0.007878	-0.00835	0.594996	-0.25154	0.309733	0.478032	0.999994	0.047774	0.981902
MOSC2	0.122687	-0.06615	0.125184	0.069005	0.363253	0.628109	0.353491	0.610023	-0.08314	0.054798	-0.17151	0.039412	0.29139	0.641212	0.129976	0.602588
TESC	0.135228	-0.28074	0.253565	0.052835	0.320367	0.036096	0.059342	0.698951	0.275958	-0.4618	0.230258	-0.34066	0.968299	0.000618	0.935955	0.010261
AURKAIP1	-0.01142	-0.13449	0.103003	-0.04856	0.932793	0.32305	0.445786	0.71982	0.092136	-0.03927	0.041364	-0.06909	0.728738	0.397764	0.606336	0.32411
ACPP	-0.07414	0.373913	-0.14908	-0.27863	0.583635	0.004529	0.268384	0.035838	-0.17767	0.195395	-0.06051	-0.10513	0.118745	0.90343	0.346482	0.243423
AUP1	-0.08055	0.097502	-0.02563	0.216281	0.551405	0.474679	0.849919	0.106117	0.05448	0.377953	-0.29424	0.231384	0.640427	0.995197	0.024886	0.939094
PPP1CB	0.025559	0.00822	-0.22746	0.092198	0.851672	0.952507	0.091802	0.499149	0.123587	0.130426	-0.00619	0.075065	0.793402	0.806191	0.4839	0.689983
TUG1	0.044546	0.227116	-0.01421	0.153582	0.742135	0.092312	0.916472	0.25403	0.282707	0.155127	-0.02847	0.147234	0.971524	0.848359	0.42637	0.835578
TTC22	-0.12852	0.130921	-0.07069	-0.18772	0.340694	0.336162	0.601313	0.162022	-0.33509	0.394028	-0.36099	0.116524	0.01141	0.99663	0.007421	0.779701
TMCO3	-0.10817	0.142105	-0.01563	-0.1783	0.423165	0.296139	0.90813	0.184527	-0.08824	0.164518	-0.11837	0.082227	0.279889	0.86271	0.219346	0.706525
PAK1IP1	0.078043	0.341104	-0.3057	0.299163	0.563914	0.010092	0.020748	0.023781	-0.11261	0.575347	-0.30337	0.438347	0.228109	0.999986	0.02139	0.998844
C11orf59	0.052168	-0.10663	0.006034	0.014992	0.699944	0.434128	0.964468	0.911863	0.04301	0.139911	-0.1103	0.076329	0.611722	0.823135	0.235359	0.692931
RMND1	0.113511	0.299649	-0.30328	0.135032	0.400501	0.024857	0.021833	0.316595	0.015361	0.660557	-0.07656	0.482999	0.540352	1	0.308593	0.999663
TRMT61B	-0.00407	0.108154	-0.21849	0.115609	0.976036	0.427529	0.102513	0.391793	-0.14195	0.367625	-0.11973	0.239597	0.173349	0.994022	0.216705	0.945616
FAM118A	0.123749	-0.22179	0.074296	-0.04251	0.359079	0.100421	0.582832	0.753519	0.058369	-0.13549	0.242609	0.021507	0.648347	0.187421	0.943717	0.555762
HERC6	-0.26382	-0.05118	-0.12622	0.451457	0.049449	0.710551	0.353956	0.000479	-0.35592	0.411543	-0.16788	0.321478	0.008866	0.997244	0.140942	0.983327
C19orf24	-0.04956	-0.1618	0.250894	-0.07533	0.714261	0.233499	0.059771	0.57758	0.10878	-0.30607	0.146474	-0.15971	0.76412	0.019287	0.831502	0.144518
PPP1CC	0.022189	0.292103	-0.28961	0.238924	0.869862	0.028927	0.02888	0.07347	0.015867	0.582938	-0.12827	0.45364	0.541678	0.999989	0.200532	0.999228
C12orf48	-0.05251	0.117308	-0.28854	-0.01271	0.700725	0.39369	0.031032	0.925901	-0.22192	0.502934	-0.01606	0.305122	0.071443	0.999785	0.458793	0.97923
PIH1D1	-0.15198	0.108618	-0.049	0.027961	0.259092	0.425536	0.717364	0.83643	-0.23408	0.400063	-0.20677	0.165012	0.058702	0.997063	0.086468	0.863439
PPP2R3C	-0.05643	0.164087	-0.32578	0.120058	0.676736	0.226881	0.013401	0.373703	-0.09574	0.366183	-0.06145	0.329138	0.265792	0.993318	0.345958	0.986368
CCDC109B	-0.0211	0.200096	-0.16304	0.491895	0.876203	0.139245	0.225601	0.000102	0.062549	0.314847	0.056914	0.333515	0.658431	0.982421	0.643173	0.987418
STX17	0.045872	0.177468	-0.11076	0.271104	0.734736	0.190699	0.412109	0.041368	0.290841	0.265035	-0.06643	0.146752	0.975055	0.962468	0.332291	0.834775
PRPF39	-0.02847	0.257929	-0.17399	0.206258	0.833504	0.054953	0.195519	0.123726	0.178249	0.342204	-0.21676	0.329768	0.8793	0.989302	0.078789	0.986523
MARCH1	-0.11543	-0.09976	-0.08997	0.276071	0.401354	0.472917	0.513596	0.04133	0.017477	-0.21335	0.122639	-0.13992	0.545361	0.079685	0.786134	0.179652
C14orf119	0.027243	0.299754	-0.14204	0.335743	0.842026	0.026191	0.296347	0.011416	0.030057	0.494918	-0.27916	0.359354	0.578592	0.999764	0.031648	0.992911
C17orf73	-0.2354	-0.02231	-0.12497	-0.12302	0.07795	0.870342	0.354337	0.361929	-0.0254	-0.14571	-0.08677	-0.21817	0.433474	0.166965	0.285448	0.072613
PPP1R1A	0.120466	-0.03602	0.288927	-0.4108	0.372068	0.792107	0.029276	0.001503	0.139398	-0.53321	0.402523	-0.479	0.822243	6.80E-05	0.99694	0.000379
TTC38	-0.09136	-0.32354	0.213538	-0.0676	0.499127	0.015001	0.110731	0.617345	0.02171	-0.20932	-0.11653	-0.13011	0.556284	0.083799	0.225631	0.197137
PID1	0.024028	0.182073	-0.00774	0.281976	0.86047	0.183379	0.954877	0.035252	0.342248	-0.21277	0.174904	-0.03727	0.990048	0.077852	0.874755	0.40289
PHIP	-0.01984	0.106416	-0.1499	0.001035	0.88351	0.435034	0.265738	0.993904	0.002324	0.163833	-0.02641	0.056259	0.506114	0.861694	0.431627	0.644815

BANK1	-0.06797	-0.21392	-0.09406	0.367685	0.61865	0.116822	0.490491	0.005306	0.151509	-0.3422	0.127079	-0.29678	0.839767	0.010698	0.794467	0.023871
FLJ20712	-0.06583	-0.07538	0.051898	-0.16079	0.626613	0.580849	0.701425	0.23214	-0.07128	-0.3251	0.017758	-0.31758	0.318921	0.013743	0.546086	0.015751
FAM70A	0.178887	-0.1845	0.037708	-0.03223	0.187122	0.177505	0.782614	0.813563	0.34519	-0.40852	0.123231	-0.23267	0.989892	0.002668	0.787256	0.062015
HEATR3	-0.00507	0.252322	-0.33859	0.051036	0.970397	0.0631	0.010696	0.70874	-0.10906	0.314052	-0.05761	0.32479	0.2353	0.983227	0.353496	0.986178
C17orf80	0.008189	0.137229	-0.2312	0.006174	0.951793	0.313191	0.083558	0.963643	-0.09466	0.202013	-0.25386	0.130064	0.265736	0.910903	0.046213	0.805527
FBXO34	-0.04474	0.496955	-0.17666	0.072112	0.743327	9.78E-05	0.192764	0.597392	-0.23187	0.656756	-0.17058	0.41615	0.060502	1	0.131295	0.99799
USP47	0.11254	0.19624	-0.17513	0.102409	0.40457	0.147187	0.192578	0.448428	0.108504	0.256733	-0.08028	0.212562	0.763553	0.957495	0.300069	0.921942
SLC35A5	-0.05866	0.273436	-0.25515	0.143944	0.664703	0.04144	0.055426	0.285405	-0.08334	0.466596	-0.13583	0.362412	0.290946	0.99946	0.186823	0.993341
FKBP14	0.088009	0.140386	0.045951	0.335014	0.515048	0.302083	0.734294	0.010855	0.255297	0.142166	0.113294	0.224665	0.956585	0.827027	0.770655	0.933333
MOCOS	-0.15276	0.076785	0.001199	0.110915	0.256605	0.573788	0.99294	0.411431	-0.27862	0.536192	-0.17218	0.388891	0.030396	0.999939	0.129033	0.996219
NOL8	-0.04608	0.287538	-0.24675	0.266187	0.733597	0.031649	0.064264	0.045348	0.156254	0.326876	-0.05768	0.276602	0.85013	0.986698	0.353317	0.968618
CCDC40	-0.19125	-0.20301	0.020036	-0.36517	0.154121	0.133453	0.882397	0.005222	-0.22864	-0.36935	0.054857	-0.33176	0.06321	0.005766	0.639793	0.012149
PTCD3	0.01358	0.339609	-0.22502	0.171519	0.920138	0.010447	0.092399	0.202051	0.111643	0.436003	-0.15029	0.375025	0.767346	0.998623	0.165089	0.994431
CDCA4	-0.08673	0.18346	-0.11293	0.109348	0.525034	0.180005	0.407264	0.422415	-0.0323	0.531401	-0.07928	0.371971	0.415614	0.999928	0.302345	0.994543
TRMT12	-0.15726	0.315599	-0.27726	-0.07984	0.247056	0.018919	0.038568	0.558591	-0.002	0.295714	-0.07214	0.192967	0.494735	0.976995	0.318853	0.90058
PPP1R2	0.06566	-0.1764	-0.14528	0.195681	0.627491	0.193425	0.280926	0.144627	-0.23341	0.102661	5.45E-05	0.273125	0.059243	0.751405	0.500142	0.966861
EPN3	-0.12946	0.185914	-0.03254	-0.29263	0.337174	0.170106	0.810094	0.027179	-0.27393	0.304668	-0.15315	0.032811	0.032727	0.98024	0.157592	0.58569
PLEKHB2	-0.14286	0.348495	-0.36332	0.188368	0.289091	0.008484	0.005472	0.160546	-0.22193	0.548337	-0.21332	0.345598	0.069127	0.99996	0.079713	0.990675
VPS37C	-0.12082	-0.03299	0.219771	-0.35588	0.375076	0.811002	0.103633	0.007105	-0.35638	0.011943	0.039162	-0.22703	0.008133	0.531031	0.59963	0.066837
C19orf60	0.017215	-0.21289	0.157381	-0.06063	0.898859	0.115179	0.24233	0.654154	0.129797	-0.3017	0.040102	-0.15674	0.805035	0.02079	0.603166	0.149107
C14orf102	-0.16522	0.185394	-0.28967	0.167169	0.219364	0.171323	0.028843	0.213902	-0.24683	0.414847	-0.20736	0.284699	0.049091	0.997926	0.085849	0.972424
MRPL20	-0.19106	0.000333	-0.01107	0.115906	0.15455	0.998057	0.934882	0.39057	-0.11059	0.297488	-0.31492	0.304969	0.232183	0.97767	0.017557	0.980342
ATG16L1	0.007731	0.271272	-0.14605	0.25907	0.954485	0.043143	0.278327	0.051659	0.04227	0.243364	-0.12973	0.002523	0.609847	0.948424	0.197848	0.506638
ZWILCH	-0.12092	0.381173	-0.36618	0.105391	0.370237	0.003751	0.005088	0.435252	-0.07063	0.517253	-0.16119	0.393688	0.320449	0.999884	0.145078	0.996604
AIM1L	-0.07473	0.147659	-0.03824	-0.12772	0.58412	0.282006	0.779597	0.348199	-0.05079	0.025157	-0.12389	-0.07273	0.368722	0.565903	0.208725	0.3155
PPP1R3A	-0.1107	-0.21538	0.096188	-0.1593	0.412325	0.1109	0.476608	0.236558	0.054724	-0.3542	0.070966	-0.12914	0.64103	0.007866	0.678406	0.196179
SUSD4	-0.13932	0.480302	-0.22303	-0.19225	0.305808	0.000206	0.098482	0.155759	-0.23628	0.547043	-0.2281	0.24724	0.056951	0.999958	0.065897	0.951194
WIPI1	0.103495	-0.00657	0.154737	0.173039	0.443604	0.961692	0.250436	0.198022	0.155163	-0.21165	0.012677	-0.358	0.848414	0.078975	0.532934	0.007287
ZCWPW1	-0.11138	-0.23657	0.008269	-0.42344	0.409456	0.079187	0.95132	0.001031	-0.32378	-0.33362	0.176159	-0.3019	0.01408	0.011732	0.876473	0.02072
CCDC157	-0.3236	-0.2129	-0.02492	-0.3943	0.014071	0.115169	0.854005	0.002406	-0.275	-0.32155	-0.03799	-0.29895	0.032182	0.014664	0.402158	0.021785
C9orf68	-0.20539	-0.08905	-0.02869	-0.16814	0.125349	0.513958	0.832224	0.211223	-0.15942	-0.28284	0.075654	-0.22714	0.144964	0.028413	0.689321	0.064499
GPR172B	0.106788	-0.20855	0.226166	-0.35169	0.429157	0.122954	0.090707	0.007303	-0.03464	-0.26986	0.131849	-0.22115	0.409606	0.034858	0.80603	0.06984
PDPR	-0.03131	0.203557	-0.07972	-0.14863	0.817156	0.132394	0.555533	0.269849	0.143583	0.125072	-0.14619	0.098632	0.829444	0.79622	0.168968	0.742844
ENOX1	0.047869	-0.07732	0.113744	-0.15951	0.72364	0.571095	0.399531	0.235931	-0.125	-0.03502	-0.17899	0.107236	0.203909	0.408638	0.11971	0.760944
C7orf42	0.125353	-0.0401	-0.03586	0.284	0.357291	0.771305	0.793037	0.033903	0.169471	0.166309	-0.09153	0.224652	0.86713	0.862554	0.2773	0.931048
PPP1R3C	0.558685	-0.40839	0.238709	-0.02426	6.29E-06	0.00178	0.073738	0.857856	0.606519	-0.41153	0.41853	-0.27777	0.999995	0.002488	0.997653	0.03234
DET1	0.00088	0.01341	0.020716	-0.03215	0.994867	0.922592	0.879548	0.814041	0.068166	-0.04996	0.163399	-0.11919	0.673691	0.370802	0.858251	0.215068
C9orf40	0.14129	-0.18922	0.240071	-0.2384	0.298949	0.166481	0.074722	0.076831	0.160125	-0.34163	0.11807	-0.33992	0.856112	0.010071	0.780078	0.010409
RNF31	-0.01804	-0.11148	0.083033	0.19426	0.894051	0.413375	0.539175	0.147624	0.091089	0.123576	-0.06999	0.122379	0.726428	0.793381	0.323899	0.791095
LRRC37A4	-0.11275	0.344829	0.06751	-0.24026	0.408028	0.009932	0.621048	0.074484	-0.06416	0.089482	-0.09611	0.042138	0.335928	0.722867	0.264984	0.609515
OXR1	0.162287	0.041118	-0.01673	-0.07147	0.227774	0.763503	0.901684	0.597265	0.133169	-0.05514	-0.02848	-0.12098	0.811187	0.357931	0.426335	0.211595
UACA	0.259429	-0.05597	0.023751	-0.05511	0.051324	0.682012	0.86079	0.683863	0.375355	-0.26315	0.371369	-0.06738	0.994922	0.03862	0.993992	0.328198
TMEM45A	0.104155	-0.35635	0.122898	0.17042	0.440689	0.007025	0.362419	0.205	0.037511	-0.34698	0.155125	-0.09907	0.597738	0.009076	0.845543	0.256227
FEZF2	-0.07892	0.041665	0.061228	-0.22463	0.563152	0.760448	0.653956	0.096031	0.025529	-0.32695	0.279675	-0.24122	0.566104	0.014184	0.967015	0.055215
TAPBPL	-0.03928	-0.0499	0.182646	0.456431	0.771763	0.714926	0.173871	0.000359	-0.11284	0.545189	-0.17067	0.461696	0.22764	0.999955	0.131165	0.999381
IFT57	-0.11297	-0.10519	-0.04582	-0.1441	0.402759	0.44036	0.735025	0.284892	-0.21872	-0.16946	0.050974	-0.02255	0.072095	0.130114	0.630259	0.440873
ARGLU1	-0.06561	0.125501	-0.08216	0.079298	0.627772	0.356719	0.543485	0.557641	0.067146	-0.02526	-0.03108	-0.00433	0.671253	0.433817	0.419683	0.488597
KIF26B	-0.08698	-0.13892	0.252811	-0.03775	0.519969	0.307211	0.057783	0.780386	0.024818	-0.16804	-0.00243	-0.17472	0.565022	0.132145	0.493683	0.122751
SOBP	0.165646	-0.16131	0.248569	-0.27897	0.218165	0.234952	0.062257	0.035606	0.176015	-0.27453	0.202984	-0.11571	0.876277	0.033999	0.906831	0.224555
CXorf57	-0.04799	-0.04559	-0.12576	-0.30609	0.722948	0.738652	0.351252	0.020581	-0.26525	-0.23277	-0.03285	-0.18336	0.03741	0.059762	0.415199	0.111285

C10orf118	-0.05836	0.204069	-0.19221	-0.03086	0.66633	0.131402	0.15202	0.81973	0.00981	0.166707	0.039591	0.10698	0.525796	0.865922	0.601877	0.760417
SLC38A4	0.259528	0.262399	-0.00118	-0.10826	0.055693	0.055257	0.993164	0.431433	0.187774	0.122456	0.106016	-0.01743	0.891622	0.78854	0.753303	0.454768
PPP1R3D	0.058119	0.113451	0.141903	0.052177	0.67049	0.409533	0.296836	0.702528	0.03928	-0.04346	-0.01783	-0.03188	0.602251	0.38715	0.453733	0.416706
MED9	0.075657	-0.0541	0.157723	-0.28293	0.575928	0.692077	0.241297	0.032965	-0.03635	-0.10067	-0.02468	-0.26213	0.405241	0.252804	0.436085	0.039217
TMEM51	-0.30453	0.107854	-0.07903	-0.00626	0.021265	0.42882	0.558961	0.963167	-0.33265	0.314878	-0.09713	0.067119	0.011948	0.983471	0.262804	0.671187
WDYHV1	0.020327	0.154518	-0.21774	0.360377	0.880701	0.255508	0.103729	0.005893	0.127738	0.277264	-0.05372	0.190937	0.801222	0.968945	0.362979	0.898152
GPATCH1	0.046616	0.127501	-0.13658	-0.02379	0.730595	0.349046	0.311036	0.860546	-0.03399	0.220066	0.023412	0.096321	0.411286	0.929161	0.560664	0.737868
SAMD4B	-0.01342	0.023307	0.123044	-0.15356	0.92107	0.864613	0.361847	0.254087	-0.06489	-0.01	0.054488	-0.1096	0.33416	0.473702	0.638892	0.234198
FLJ10213	-0.03088	0.179561	-0.10308	0.17216	0.819641	0.185438	0.44545	0.200344	0.033241	0.338651	-0.26682	0.199965	0.585808	0.988562	0.03999	0.906081
AVP	-0.05514	-0.09909	0.081799	-0.22522	0.683739	0.467482	0.545244	0.092101	-0.05363	-0.3502	0.157558	-0.41335	0.361671	0.008518	0.849353	0.00215
PPP1R7	-0.17191	0.065916	-0.25155	-0.15194	0.20102	0.629329	0.059082	0.259216	-0.32195	0.164248	-0.16239	0.114005	0.014558	0.86231	0.143254	0.774698
WDR70	-0.1355	0.354452	-0.27546	0.235147	0.314916	0.007356	0.038088	0.078277	-0.10523	0.615195	-0.26184	0.359282	0.243217	0.999997	0.04115	0.992901
ATP5SL	0.024023	0.130965	-0.04901	0.23039	0.859211	0.335998	0.717329	0.08468	-0.12981	0.541106	-0.33507	0.432426	0.194943	0.999948	0.012227	0.998656
ATG2B	0.056072	0.184218	-0.11734	0.082939	0.678669	0.174105	0.384706	0.539637	0.181176	0.023268	-0.03983	-0.03236	0.885895	0.560993	0.397523	0.415464
RALGPS2	-0.17989	0.338685	-0.38051	-0.041	0.180558	0.010672	0.003502	0.762039	-0.20118	0.492236	-0.2052	0.316447	0.090012	0.999744	0.088156	0.983927
GPATCH2	-0.05603	0.136095	-0.071	-0.07208	0.678905	0.317246	0.599692	0.594176	-0.09829	0.293769	-0.0919	0.035601	0.257894	0.976236	0.274117	0.592852
SLFN12	0.059942	0.12668	-0.1006	0.277517	0.657819	0.352186	0.456532	0.036615	-0.18209	0.415564	0.01514	0.43767	0.112917	0.997961	0.539316	0.998824
ANO1	0.370062	-0.1489	0.191098	0.084919	0.004606	0.273398	0.154458	0.529969	0.356294	0.052287	0.145254	0.066973	0.992458	0.634993	0.82946	0.670839
BSDC1	-0.0596	0.057912	-0.09275	0.045356	0.662592	0.674506	0.496583	0.739941	-0.04183	0.409275	-0.19808	0.168779	0.391262	0.997631	0.096063	0.868916
AGGF1	-0.01281	0.185435	-0.16482	0.125915	0.924636	0.171228	0.220498	0.350667	0.025364	0.313709	-0.08733	0.283759	0.566441	0.983125	0.284187	0.972002
PPP1R8	0.063577	0.071794	-0.166	0.198089	0.638469	0.599015	0.217179	0.139653	-0.33375	0.516939	-0.36491	0.304621	0.011702	0.999883	0.006857	0.980223
MAGOHB	-0.05313	0.233259	-0.09295	0.239309	0.694694	0.083607	0.491645	0.072995	0.01776	0.356434	-0.07353	0.284399	0.546627	0.992479	0.315597	0.97229
PLEKHJ1	-0.09538	-0.02243	0.056164	0.000635	0.480338	0.869654	0.678168	0.996259	0.024789	0.082978	-0.03602	0.051633	0.564948	0.708237	0.407131	0.633365
WDR60	-0.16432	-0.18292	0.010739	-0.22357	0.221928	0.177207	0.936809	0.094574	-0.13957	-0.3621	0.115851	-0.28132	0.17746	0.006702	0.775726	0.029114
XKR8	0.050699	-0.17028	0.210087	-0.02711	0.70801	0.209589	0.116755	0.841366	0.191758	-0.30176	0.149458	-0.4318	0.899139	0.020769	0.836432	0.001366
ARHGAP17	0.20003	-0.05198	0.028641	0.25578	0.135735	0.703599	0.832507	0.054809	0.400526	-0.04754	0.037432	-0.05844	0.997094	0.376856	0.596432	0.349833
TMEM39B	0.024835	0.020906	0.098857	0.26627	0.854502	0.878448	0.464403	0.045278	-0.25146	0.325341	-0.10153	0.317557	0.045919	0.986317	0.253471	0.984243
SLC6A15	0.099791	0.165764	-0.29517	0.174468	0.460173	0.222102	0.025811	0.194286	-0.02273	0.319097	0.001807	0.320214	0.44108	0.983682	0.504643	0.984001
CRTAC1	-0.03686	-0.16252	0.159008	-0.20127	0.785444	0.231408	0.237435	0.133278	0.133972	-0.34858	0.180921	-0.38361	0.812635	0.008796	0.882849	0.004248
PRPF38B	-0.10667	0.308983	-0.24403	0.209364	0.429662	0.020499	0.067349	0.118047	0.054763	0.374432	-0.30144	0.441958	0.639563	0.994362	0.023379	0.998815
FANCL	0.044527	0.132075	-0.23112	0.163067	0.742242	0.331885	0.083673	0.225518	0.138694	0.411752	-0.01558	0.364708	0.821014	0.997766	0.459542	0.993649
AKIRIN2	0.06033	0.204753	-0.27353	0.376443	0.655746	0.130087	0.039516	0.0039	-0.00214	0.461542	-0.21587	0.338372	0.494369	0.999378	0.077191	0.989279
PIWIL2	0.150548	-0.261	0.034445	0.066836	0.263645	0.052029	0.799209	0.621325	0.12757	-0.18137	0.119997	-0.15489	0.800909	0.113852	0.783818	0.152009
CEP192	0.145642	0.26583	-0.05946	0.036221	0.279703	0.04768	0.660389	0.78909	0.102869	0.40163	-0.01676	0.245061	0.751843	0.997167	0.456483	0.949651
HEATR1	-0.01327	0.373916	-0.28601	0.325678	0.921928	0.004529	0.031022	0.01343	-0.02356	0.5448	-0.26383	0.468003	0.438235	0.999955	0.039957	0.999481
TRIM68	-0.1815	0.103657	-0.16023	0.098162	0.176644	0.447102	0.233803	0.467566	-0.28656	0.427531	-0.30755	0.215706	0.026756	0.99848	0.019932	0.925029
ANO10	0.266524	0.119134	0.031274	0.038567	0.045065	0.38183	0.817363	0.775774	0.191299	0.158454	0.029569	0.11989	0.898587	0.853548	0.576447	0.786293
ARMC4	-0.08965	-0.17231	0.047875	-0.1796	0.50723	0.204128	0.723604	0.181295	-0.1133	-0.33359	0.115321	-0.2515	0.226716	0.011738	0.774679	0.045898
RBM28	0.033639	0.393166	-0.25283	0.111629	0.803813	0.002722	0.057762	0.408409	0.027904	0.464903	-0.07423	0.222667	0.573025	0.999433	0.313987	0.931543
LARP2	-0.02382	0.182494	-0.08129	0.067084	0.860394	0.17824	0.547779	0.620025	0.047291	0.187257	-0.04632	0.080828	0.622515	0.893645	0.381278	0.703325
SRBD1	-0.01158	0.044209	-0.13269	0.085688	0.931895	0.746294	0.325146	0.526234	-0.23448	0.192451	-0.16123	0.156973	0.058384	0.899967	0.145009	0.851252
WRAP53	-0.18223	-0.26226	0.049031	-0.29151	0.174867	0.050862	0.717206	0.027797	-0.4024	-0.27725	0.023977	-0.16221	0.002782	0.031061	0.562116	0.140731
FIGN	0.31904	-0.29549	0.338212	0.031183	0.015567	0.027038	0.010077	0.817885	0.454379	-0.48736	0.430948	-0.41384	0.999243	0.000296	0.998438	0.002125
FAM90A1	-0.05372	-0.07842	0.154598	-0.22693	0.691469	0.565613	0.250864	0.089598	0.08174	-0.34763	0.185525	-0.33473	0.705413	0.008961	0.888795	0.011489
ANKZF1	-0.18363	-0.28949	0.08979	-0.17694	0.175511	0.032055	0.510474	0.192049	-0.1684	-0.3874	0.019559	-0.36113	0.131628	0.003908	0.550738	0.006836
PPP1R10	-0.12437	0.216122	-0.05892	-0.05067	0.356643	0.109642	0.663311	0.708187	-0.12824	0.501043	-0.11472	0.197322	0.197847	0.999805	0.226518	0.905651
ELP3	0.111022	0.259814	-0.19761	0.255856	0.410979	0.053142	0.140623	0.054734	0.034424	0.53584	-0.1347	0.443552	0.589833	0.999938	0.188838	0.998991
CEP27	0.13834	0.155511	-0.2082	0.173116	0.309253	0.25691	0.123613	0.201983	0.001301	0.449874	-0.00034	0.21874	0.503424	0.999146	0.49911	0.927923
CDCA8	-0.18364	0.104943	0.015249	-0.13414	0.179565	0.45012	0.912014	0.328879	-0.1342	0.371117	0.149026	0.156019	0.189727	0.99396	0.832846	0.846949
LRRC8D	0.024668	0.455918	-0.27092	0.1591	0.855475	0.000414	0.041516	0.23716	-0.04846	0.631731	-0.20367	0.547883	0.374559	0.999999	0.089813	0.999959

THAP1	-0.13688	-0.09943	-0.16564	-0.16646	0.309938	0.465965	0.218194	0.215871	-0.08087	-0.00634	0.015836	-0.04389	0.296587	0.483332	0.541116	0.38605
ZDHH4	-0.06014	0.16995	-0.23202	0.059548	0.656781	0.210483	0.082438	0.659933	-0.27093	0.509141	-0.28624	0.392676	0.03429	0.999849	0.028312	0.996526
RBM23	-0.02253	-0.0786	-0.09009	-0.04662	0.869114	0.564764	0.509035	0.73295	-0.29293	0.21224	-0.24764	0.042563	0.024098	0.921621	0.050489	0.61059
UBR7	0.034962	0.061003	-0.24033	0.156672	0.798098	0.658178	0.0744	0.248861	-0.1239	0.541314	-0.13139	0.418535	0.206008	0.999949	0.194796	0.998102
MTPAP	0.054846	0.339768	-0.29046	0.187191	0.685321	0.010408	0.028392	0.163223	-0.03814	0.516827	-0.17854	0.406268	0.400656	0.999882	0.120307	0.997457
PPP2CA	0.003824	0.290071	-0.27515	0.123258	0.977477	0.030113	0.038312	0.361006	0.015057	0.499036	-0.11066	0.331453	0.539558	0.999792	0.234631	0.987781
FLJ10490	-0.11128	-0.09902	0.17524	-0.14413	0.409873	0.467794	0.19229	0.284774	0.028945	-0.25459	0.175354	-0.29883	0.575718	0.043872	0.875372	0.021828
TMEM38B	0.233654	0.058772	0.047284	0.207248	0.080244	0.667007	0.726885	0.121895	0.1493	0.043445	-0.10684	0.064115	0.838986	0.612822	0.242413	0.663969
DALRD3	-0.15186	-0.1552	-0.05878	-0.3213	0.259471	0.253378	0.664065	0.014809	-0.38405	-0.1182	-0.08691	-0.19243	0.004208	0.216996	0.285136	0.100057
SDAD1	0.090987	0.270076	-0.15796	0.258892	0.500871	0.044108	0.240569	0.051825	0.151032	0.375209	-0.03884	0.337257	0.841809	0.994906	0.400007	0.989049
ARMC1	0.032018	0.230643	-0.22093	0.200178	0.813095	0.087232	0.098631	0.13544	0.071496	0.469166	-0.07806	0.284472	0.681596	0.999497	0.305126	0.972323
DARS2	-0.01807	0.192	-0.18391	-0.02058	0.893877	0.156302	0.170856	0.879242	-0.14783	0.375432	-0.10355	0.313754	0.163442	0.99493	0.249231	0.983138
RFWD3	-0.11997	0.233517	-0.34371	0.086808	0.378493	0.086192	0.009497	0.524671	-0.24321	0.675021	-0.35393	0.473171	0.051688	1	0.008535	0.999552
PPP2CB	-0.02071	0.106836	-0.2213	-0.09997	0.878481	0.433214	0.09805	0.459384	-0.13268	0.108906	-0.07421	0.071577	0.1897	0.764379	0.314016	0.681788
ARHGEF10I	-0.04715	-0.12331	0.062478	-0.08074	0.727624	0.365235	0.644297	0.550489	0.063729	-0.07043	-0.04505	-0.14877	0.663035	0.320923	0.384436	0.161882
TMEM33	-0.0007	0.376721	-0.21436	0.126886	0.995866	0.004213	0.109328	0.346935	-0.11073	0.477858	-0.20464	0.3242	0.23191	0.999608	0.088759	0.986028
PNPO	0.00745	0.208719	-0.10759	0.113702	0.956136	0.122651	0.425679	0.399705	-0.15172	0.613007	-0.18942	0.431644	0.157073	0.999997	0.106337	0.998629
SHQ1	-0.04581	0.059706	-0.14488	0.000597	0.735095	0.662029	0.282252	0.996481	-0.3542	0.340288	-0.33857	0.303567	0.007867	0.989665	0.011456	0.979862
CEP55	-0.05601	0.142954	-0.01931	-0.1503	0.681792	0.297791	0.887657	0.26887	-0.07084	0.420219	-0.00385	0.199513	0.32189	0.997973	0.490104	0.905572
CENPQ	-0.02148	-0.04451	-0.07523	-0.2158	0.874005	0.744622	0.578099	0.106909	-0.18778	-0.02364	-0.18538	-0.05389	0.105704	0.438029	0.111393	0.361029
MSL2	0.081461	0.13457	-0.13794	0.364508	0.546912	0.32275	0.306178	0.00531	0.154924	0.366209	-0.13018	0.348916	0.848037	0.993843	0.197016	0.991263
MRPS18A	-0.12188	0.213345	0.018611	-0.05834	0.370857	0.117833	0.891708	0.669307	-0.14982	0.419893	-0.29719	0.248617	0.162972	0.997957	0.025049	0.950202
PRMT6	-0.00486	0.300331	-0.21907	-0.03147	0.971403	0.024514	0.10157	0.816262	-0.00958	0.384955	-0.15245	0.167735	0.474798	0.995875	0.158715	0.867413
TBCCD1	-0.11678	0.267135	-0.12622	0.366554	0.386982	0.046558	0.349499	0.00504	-0.02658	0.374443	-0.16399	0.324289	0.430395	0.994822	0.140864	0.98605
C14orf104	-0.14875	0.019917	-0.14775	-0.10385	0.269462	0.884163	0.272714	0.442022	-0.2431	0.154593	-0.1285	0.061262	0.05177	0.847514	0.200103	0.657058
MRPS10	-0.05036	0.294982	-0.27144	0.136762	0.709897	0.027312	0.041109	0.310377	-0.09599	0.563187	-0.19095	0.415129	0.262855	0.999977	0.104474	0.99794
INTS10	-0.16657	0.175151	-0.31333	0.243099	0.215586	0.19665	0.01763	0.068435	-0.26483	0.422715	-0.41781	0.240932	0.037648	0.998287	0.002147	0.946624
KLHL11	0.040148	0.11718	-0.37947	0.163493	0.766838	0.38974	0.003601	0.224292	-0.26021	0.558244	-0.28314	0.318123	0.040362	0.999972	0.029735	0.984402
SEC61A2	-0.05596	0.212376	-0.07186	-0.01628	0.679255	0.116087	0.595277	0.904315	0.316531	-0.01083	0.07336	-0.02921	0.983951	0.471539	0.684	0.423598
FAM82A2	-0.23317	0.206047	-0.14385	0.151107	0.083721	0.13124	0.290173	0.266278	-0.16186	0.479732	-0.25012	0.222114	0.141254	0.999629	0.048747	0.931041
RNMTL1	0.009354	-0.01676	-0.01934	0.14667	0.944945	0.902423	0.886458	0.276286	-0.14837	0.24606	-0.08127	0.1469	0.162544	0.950363	0.297798	0.835022
FAIM	-0.05828	0.099242	-0.09833	-0.11054	0.66672	0.466791	0.466808	0.413025	-0.17264	-0.15471	-0.04697	-0.23802	0.125622	0.152301	0.379647	0.05559
PPP2R1A	-0.00141	0.060859	-0.17557	0.052753	0.9917	0.655907	0.19144	0.696739	-0.23956	0.524283	-0.23808	0.320482	0.054408	0.999908	0.057645	0.985051
LINS1	-0.1812	0.18703	-0.21763	0.30706	0.177351	0.16751	0.103905	0.020161	0.04103	0.410472	-0.1858	0.365198	0.606703	0.997697	0.110861	0.993713
C17orf71	-0.00063	0.183298	-0.46679	0.064294	0.996288	0.176302	0.000252	0.63468	-0.11281	0.323659	-0.08216	0.262358	0.227699	0.985889	0.295794	0.960917
RNF220	0.060902	0.043516	0.017517	0.134978	0.652689	0.750143	0.897094	0.316792	0.031398	0.385064	-0.05123	0.171937	0.582051	0.995885	0.369122	0.873392
RIF1	0.107836	0.186816	-0.16203	0.220263	0.424618	0.168005	0.228513	0.099682	0.085053	0.381949	-0.1169	0.334793	0.712942	0.995595	0.222206	0.988525
C20orf12	-0.14354	-0.14582	0.024839	-0.33133	0.286764	0.283573	0.85448	0.011816	-0.19645	-0.31385	0.034818	-0.27088	0.095345	0.016833	0.589813	0.034315
SLC25A36	-0.08112	0.124294	-0.12805	0.008871	0.548576	0.361402	0.34251	0.947781	-0.05136	-0.00221	-0.12485	-0.01816	0.36732	0.494186	0.206912	0.452315
VPS13D	0.019322	0.474461	-0.25946	0.153457	0.886562	0.00022	0.051299	0.254423	0.068292	0.477549	-0.2155	0.285573	0.673991	0.999605	0.077556	0.972811
RIC8B	0.070064	-0.19985	0.032305	0.005089	0.604534	0.139733	0.81145	0.970029	-0.0444	-0.03424	-0.00157	0.015835	0.384763	0.410645	0.495925	0.541594
PPP2R1B	0.230398	0.131215	-0.10471	-0.03992	0.08467	0.33507	0.438229	0.768151	0.210378	0.28878	-0.01513	0.087865	0.919744	0.974196	0.4607	0.719263
NUDT11	0.162121	-0.04492	0.066443	-0.09573	0.228257	0.742336	0.623381	0.478735	0.10991	-0.22296	0.041734	-0.33812	0.76643	0.068196	0.607267	0.010773
NADSYN1	-0.13745	0.142023	-0.12239	0.078785	0.307927	0.296423	0.364429	0.560201	-0.11002	0.404202	-0.32167	0.233732	0.233356	0.997331	0.01559	0.941016
DNAJC17	-0.09916	-0.07088	0.226452	0.025487	0.463022	0.603671	0.090288	0.850725	0.134049	-0.27495	-0.0678	-0.34807	0.812772	0.032206	0.329052	0.008884
PBRM1	-0.07794	0.264794	-0.25673	0.003973	0.564423	0.048586	0.053888	0.976602	-0.1792	0.403273	-0.16569	0.270913	0.116711	0.997273	0.138353	0.965702
FAM176B	0.028564	-0.20844	0.295992	-0.14523	0.832951	0.123166	0.025382	0.28108	0.042769	-0.44644	0.234168	-0.33342	0.611113	0.000936	0.93922	0.011776
C14orf105	0.0991	-0.01794	0.078783	-0.27648	0.4633	0.895563	0.560213	0.037354	-0.11155	-0.107	-0.01567	-0.20322	0.232835	0.242087	0.45978	0.090298
C12orf35	-0.12467	0.179056	-0.24703	0.468084	0.355469	0.186698	0.063945	0.000241	0.041194	0.201306	-0.05531	0.272369	0.60712	0.910126	0.359096	0.966468
RPRD1A	0.006396	0.254302	-0.22318	0.081414	0.962339	0.058582	0.095157	0.547142	0.03924	0.177018	-0.0848	0.147795	0.602149	0.880377	0.289831	0.836507

APPL2	-0.11155	-0.11873	-0.07987	-0.17185	0.408752	0.383456	0.554774	0.201163	-0.26873	-0.17683	0.080966	-0.20065	0.035472	0.11988	0.701502	0.090601
FAM86C	0.008581	0.101917	-0.00585	-0.20403	0.94949	0.454807	0.965561	0.127936	-0.27358	0.050684	0.115563	0.199829	0.034496	0.629542	0.772468	0.905928
AVPR1A	0.190123	-0.31826	0.175174	-0.17879	0.156613	0.016829	0.192459	0.18329	0.20342	-0.56145	0.184589	-0.50972	0.912437	2.46E-05	0.887603	0.000148
PPP2R2A	-0.14496	0.421409	-0.35334	0.089147	0.281968	0.001219	0.007016	0.509607	-0.01446	0.470181	-0.16794	0.379197	0.462014	0.999512	0.135076	0.995324
PLEKHG6	-0.21704	0.143547	-0.2382	-0.26504	0.104869	0.291215	0.074376	0.046318	-0.18527	0.378666	-0.19366	0.020387	0.108846	0.99527	0.10122	0.553488
MAP1S	-0.07447	-0.15877	0.079297	-0.07826	0.58194	0.242488	0.557645	0.562821	-0.06104	-0.04866	-0.00218	-0.12638	0.343473	0.374046	0.494342	0.201325
LGI2	0.195302	-0.06711	0.284543	0.151874	0.145423	0.623135	0.031935	0.259414	0.17939	-0.32674	0.314114	-0.0729	0.880824	0.014238	0.981076	0.317065
GOLPH3L	-0.1039	0.185056	-0.22189	-0.10316	0.441805	0.172119	0.097147	0.445068	-0.23132	0.266571	-0.06958	0.172045	0.06096	0.963335	0.32485	0.873544
ZNF532	0.315506	-0.13078	0.319295	0.284828	0.016818	0.336701	0.01548	0.031756	0.416651	-0.11092	0.108197	0.111622	0.997794	0.234115	0.757753	0.767304
SBNO1	0.030489	0.22774	-0.2418	0.064122	0.821869	0.091396	0.069971	0.635589	-0.15152	0.433469	-0.22713	0.316663	0.157405	0.998691	0.066747	0.983988
ARL8B	0.025249	0.306257	-0.29481	0.13049	0.852105	0.021699	0.026	0.333295	-0.01377	0.47224	-0.14745	0.243572	0.46382	0.999539	0.166868	0.948575
DCUN1D2	0.021622	0.328455	-0.03972	0.14705	0.87316	0.013455	0.769256	0.275029	0.323589	0.070327	-0.09113	0.027637	0.985871	0.678829	0.275807	0.572334
SETD5	0.034949	0.258282	-0.07804	0.079991	0.796336	0.054611	0.563941	0.554194	0.098101	0.201631	-0.0426	0.237397	0.741704	0.910484	0.390565	0.943925
PPP2R2B	0.194994	-0.01033	0.108861	0.072183	0.14607	0.939763	0.4202	0.593625	0.391517	-0.42549	0.430595	-0.34227	0.996088	0.001785	0.998237	0.010684
ATAD3A	-0.05934	-0.02846	0.079492	-0.15465	0.661059	0.835051	0.556675	0.250699	-0.07456	0.158649	-0.16227	-0.03702	0.311203	0.853849	0.143446	0.403519
DPPA4	-0.01476	-0.14999	0.071199	-0.17352	0.913215	0.269856	0.598682	0.19676	-0.0999	-0.34311	0.161507	-0.22453	0.254443	0.009787	0.855407	0.066786
BBS7	0.027836	0.064289	-0.17022	-0.10547	0.837149	0.637832	0.20555	0.434929	-0.1724	0.147743	-0.08092	0.145923	0.125961	0.836422	0.298613	0.833392
RCBTB1	-0.11948	0.323941	-0.22448	-0.04907	0.376028	0.014869	0.093204	0.716971	-0.27299	0.293801	-0.16964	0.18741	0.033211	0.976249	0.132634	0.893835
LEPREL1	0.266579	0.057665	0.148542	-0.17484	0.047033	0.675814	0.274573	0.197452	0.32115	0.223498	0.111154	-0.00895	0.984264	0.930004	0.763719	0.476734
FANCI	-0.21476	0.360116	-0.33095	0.040329	0.111948	0.006921	0.012726	0.76791	-0.21523	0.721784	-0.29168	0.500715	0.075431	1	0.025942	0.999803
C11orf57	0.004576	0.261058	-0.19691	-0.2266	0.973053	0.051973	0.14208	0.090071	-0.07538	0.347489	-0.03281	0.207572	0.309288	0.991014	0.415287	0.916853
TMLHE	0.05351	0.106491	-0.12626	0.250322	0.692601	0.43471	0.349337	0.060376	0.133807	0.273046	-0.03424	0.202779	0.812338	0.96682	0.411646	0.911741
EXD2	-0.00535	0.342577	-0.22198	-0.26869	0.968481	0.009752	0.096998	0.043288	-0.07292	0.333273	-0.12096	0.106945	0.317022	0.987361	0.217065	0.757797
TMEM57	0.124821	0.122952	-0.10393	0.115903	0.359353	0.371165	0.445916	0.394963	-0.07367	0.555128	-0.37765	0.3345	0.31731	0.999954	0.006269	0.986767
PPP2R2C	0.057076	0.036139	0.073538	-0.33114	0.678946	0.795297	0.593639	0.013531	0.074399	0.339745	-0.00049	0.075871	0.686415	0.988795	0.498747	0.689823
KLHDC8A	0.083331	-0.26172	0.25321	-0.21762	0.537715	0.051358	0.057376	0.103914	0.068428	-0.56761	0.13978	-0.52065	0.674314	1.95E-05	0.820113	0.000104
LRRC20	-0.07189	-0.15799	0.197853	-0.17437	0.595136	0.244847	0.140133	0.194536	0.041666	-0.26705	0.051814	-0.11043	0.608318	0.036396	0.632329	0.232509
TRIM62	0.007775	0.094833	0.14995	-0.07999	0.954225	0.486914	0.265567	0.554176	-0.06316	0.117284	-0.12626	-0.09024	0.338329	0.7812	0.204268	0.275446
ETNK2	0.120554	0.309329	-0.11066	-0.06912	0.376141	0.02156	0.41682	0.612706	0.098544	0.46538	-0.1955	0.218198	0.74022	0.999362	0.101724	0.925059
RAVER2	0.169111	0.11287	-0.02344	-0.01007	0.208552	0.407535	0.86258	0.940748	0.13626	0.179295	0.057332	0.151043	0.816723	0.883421	0.645827	0.841828
NAT10	-0.00317	0.264103	-0.13282	0.292279	0.981678	0.053637	0.333687	0.030362	-0.06186	0.59121	-0.25438	0.434126	0.341497	0.999992	0.04587	0.998712
LRRC1	0.167386	0.358539	-0.07298	0.168265	0.217549	0.00719	0.592965	0.215107	0.018557	0.624061	-0.14365	0.375014	0.548711	0.999998	0.173253	0.994885
PNMAL1	0.033691	-0.21635	0.220036	-0.36681	0.803516	0.109259	0.100041	0.005008	-0.00832	-0.58672	0.088967	-0.44875	0.478115	9.12E-06	0.719437	0.00088
PANK4	-0.08613	-0.14371	0.028288	0.133688	0.524108	0.290649	0.834542	0.321481	-0.19742	0.269549	-0.02018	0.159708	0.094238	0.964972	0.447655	0.855474
PPP2R3A	0.146664	0.308371	-0.14494	-0.14737	0.276305	0.020764	0.282051	0.273978	0.195056	0.195891	-0.10741	-0.07038	0.903036	0.904005	0.241252	0.321047
USP40	-0.04182	0.269919	-0.14067	-0.08842	0.757441	0.044237	0.29661	0.513099	-0.02501	0.37034	-0.09018	0.225875	0.434466	0.994352	0.277891	0.934399
CCDC87	-0.13464	-0.07586	0.224164	-0.29699	0.318004	0.578415	0.093676	0.024869	0.070979	-0.2272	0.156641	-0.22814	0.680375	0.06445	0.847925	0.063636
MOBK1B	-0.05297	0.232508	-0.30928	0.178284	0.695532	0.084634	0.019233	0.184558	-0.12961	0.420254	-0.13231	0.377401	0.195312	0.99818	0.193139	0.99514
SMU1	0.01611	0.022639	-0.2468	0.147861	0.905325	0.868459	0.064205	0.272363	0.09061	0.105132	-0.02877	-0.01259	0.72537	0.756582	0.425606	0.466916
UBA6	-0.06705	0.368089	-0.25052	0.312246	0.620214	0.005253	0.060167	0.018048	0.100787	0.500841	-0.16601	0.425194	0.747441	0.999804	0.137889	0.998389
C14orf115	0.007567	-0.21766	0.288065	-0.23362	0.95545	0.10708	0.029784	0.080292	0.013058	-0.32476	0.160782	-0.32759	0.534317	0.01383	0.854308	0.013129
SLC38A7	-0.10212	0.09687	0.070583	0.086807	0.449698	0.477561	0.601857	0.520826	-0.15512	0.260869	-0.0232	0.114568	0.151659	0.960033	0.439869	0.775821
OGFOD1	0.071817	0.171167	-0.16195	0.151759	0.5955	0.207188	0.228749	0.259779	0.059277	0.342322	-0.03354	0.326876	0.652219	0.990062	0.413428	0.986698
PPP2R4	-0.10256	-0.02903	-0.0962	0.012765	0.451942	0.83334	0.480638	0.925608	-0.3611	0.567414	-0.29783	0.426502	0.006841	0.99998	0.02346	0.99844
STEAP3	-0.14115	-0.09246	-0.05012	-0.23612	0.29497	0.497924	0.711183	0.077018	-0.37371	-0.05591	-0.23929	-0.18649	0.005259	0.356039	0.056694	0.107314
KIRREL	0.262879	-0.1586	0.059501	0.157896	0.050299	0.247465	0.663122	0.245136	0.315628	0.003412	0.086146	0.121825	0.98369	0.508979	0.713171	0.790032
SLC47A1	0.015651	0.203268	0.078622	0.033983	0.908007	0.132956	0.561014	0.80185	0.224039	-0.21495	0.016176	-0.18097	0.930495	0.078092	0.541501	0.117093
UQCC	-0.12431	0.320722	-0.29059	-0.03279	0.356883	0.015954	0.02832	0.808681	-0.33278	0.523998	-0.4058	0.244779	0.011918	0.999907	0.00284	0.949449
CCDC25	0.070188	0.173986	-0.25314	0.044974	0.603892	0.199691	0.057448	0.739747	0.030462	0.353968	-0.0655	0.269846	0.579636	0.992097	0.334525	0.965132
NEIL3	-0.19233	0.045823	-0.26096	-0.29284	0.155586	0.739739	0.052066	0.028507	-0.14611	0.106255	0.087017	-0.0669	0.169106	0.756376	0.712825	0.331197

TMEM206	-0.10298	0.126325	-0.21932	0.126473	0.450073	0.358085	0.104364	0.352977	-0.10549	0.173867	-0.18789	-0.05205	0.242671	0.876077	0.108234	0.365585
YY1AP1	0.036799	0.086145	0.031798	-0.00734	0.785807	0.527854	0.814355	0.956786	0.05462	-0.21288	0.141364	-0.14014	0.640773	0.077745	0.822849	0.176459
PPP2R5A	0.031194	0.183962	-0.26078	0.191068	0.817819	0.174713	0.050082	0.154526	0.159891	0.313136	-0.04714	0.275664	0.855754	0.982953	0.379232	0.968152
ELP2	0.101918	0.071044	-0.16715	0.220047	0.450616	0.602845	0.213963	0.100023	0.05273	0.294928	-0.19573	0.22838	0.636092	0.976691	0.098773	0.936567
PCMTD2	0.03032	0.102393	-0.15762	0.024323	0.82284	0.452694	0.241599	0.85747	0.013378	0.150374	-0.00312	0.066745	0.535159	0.840741	0.491875	0.670292
ASXL2	-0.08488	0.234055	-0.19871	-0.04494	0.530162	0.082527	0.138389	0.739929	-0.32394	0.405536	-0.11376	0.317433	0.014039	0.997413	0.228407	0.984208
TYW1	-0.01286	0.356408	0.051962	-0.1245	0.924347	0.007015	0.701075	0.356162	0.176515	-0.07028	-0.02084	-0.10656	0.879698	0.321288	0.445966	0.240446
TMEM39A	0.154	0.130818	0.002582	0.357354	0.252726	0.336547	0.984792	0.006354	0.259321	0.317205	0.02694	0.287827	0.959097	0.984143	0.569722	0.973791
WDR41	-0.03474	0.219596	-0.2911	-0.0296	0.79753	0.103916	0.028027	0.826959	-0.05826	0.485574	-0.11282	0.338323	0.350274	0.999688	0.2303	0.989269
ADI1	-0.02754	0.18518	-0.22825	0.067673	0.838841	0.171828	0.087697	0.616954	0.130757	0.358532	-0.12804	0.162498	0.806798	0.992792	0.200961	0.859701
C20orf20	0.093529	-0.01487	0.06106	-0.01534	0.488936	0.913357	0.651847	0.909836	0.094672	-0.22375	-0.01231	-0.24308	0.734288	0.06748	0.46801	0.051786
THNSL2	-0.26678	-0.09907	-0.16475	-0.18073	0.046859	0.471758	0.224997	0.182554	-0.17482	-0.33291	0.166138	-0.25262	0.125365	0.012723	0.859444	0.047047
CASC1	-0.08093	-0.10657	0.025726	-0.1975	0.549554	0.43438	0.849344	0.14086	-0.12999	-0.30003	0.098708	-0.19071	0.194608	0.021391	0.740568	0.102118
PPP2R5B	0.027841	-0.09828	0.182719	0.06549	0.837122	0.471129	0.173696	0.628382	0.263014	-0.26037	0.139278	-0.34857	0.961302	0.040266	0.81924	0.008797
TMEM143	-0.04819	-0.08736	0.120738	-0.29444	0.721862	0.522024	0.370981	0.026199	-0.0131	-0.04198	0.041315	-0.11054	0.465581	0.390881	0.606215	0.232296
C7orf43	-0.10876	0.075933	0.089767	0.003144	0.424938	0.578062	0.510581	0.981654	0.04427	0.040404	-0.00193	-0.04983	0.614908	0.605111	0.494988	0.371125
LOC100133	0.019514	-0.23569	0.213002	-0.32497	0.885437	0.080339	0.111651	0.013644	-0.02703	-0.35743	0.096717	-0.33628	0.429228	0.007371	0.736315	0.011157
TMEM19	-0.09238	0.172042	-0.25567	0.157378	0.494298	0.204839	0.054913	0.242339	-0.21843	0.43312	-0.17458	0.347858	0.072373	0.998679	0.125694	0.991079
C22orf26	-0.0558	-0.15684	0.260953	-0.00201	0.680162	0.248345	0.049924	0.988173	-0.11094	-0.24993	-0.07267	-0.20027	0.234062	0.048878	0.319607	0.093571
ECHDC2	-0.11192	-0.06111	0.091398	-0.06915	0.411523	0.657616	0.5029	0.612552	-0.1933	-0.05426	-0.10706	-0.08322	0.101637	0.361674	0.244552	0.293397
PSPC1	0.070405	0.075476	-0.07793	0.230326	0.602771	0.580356	0.564468	0.08477	0.202051	0.262496	-0.13675	0.163912	0.910945	0.960998	0.185199	0.861811
PPP2R5C	0.003644	0.159623	-0.19758	0.072092	0.978537	0.239947	0.140687	0.594088	-0.01474	0.157447	0.055935	0.10422	0.461267	0.85199	0.642425	0.754678
NUDT15	0.12859	0.317336	0.032386	-0.05445	0.344913	0.018238	0.812693	0.690182	0.118314	0.43336	-0.09373	0.250088	0.78322	0.998687	0.270137	0.953156
IMP3	-0.0792	0.436547	-0.37589	0.379306	0.558126	0.000769	0.003957	0.003616	-0.10516	0.700671	-0.43808	0.576623	0.243368	1	0.001307	0.999986
TMEM100	0.307925	-0.19489	0.211256	0.116424	0.020958	0.153911	0.118067	0.392827	0.251961	-0.06537	0.289537	0.068854	0.952511	0.334829	0.971697	0.673436
PHF10	-0.06912	0.354559	-0.23792	0.104583	0.609409	0.007337	0.074721	0.438802	0.241819	0.101638	0.025867	-0.06654	0.947286	0.749244	0.566972	0.330193
VPS53	-0.10886	0.305261	-0.28016	0.205382	0.424494	0.023435	0.0365	0.128885	-0.15704	0.413288	-0.05132	0.325891	0.151455	0.997612	0.370387	0.985543
PGM2	-0.05199	0.479767	-0.29872	0.098868	0.703533	0.00021	0.025332	0.468483	-0.04289	0.657003	-0.22389	0.396181	0.388573	1	0.069638	0.996791
FGGY	-0.18244	-0.1149	-0.1451	-0.11492	0.174364	0.399111	0.281503	0.394656	-0.18622	-0.11618	-0.25296	-0.23956	0.107655	0.220985	0.046816	0.05441
QRSL1	-0.12624	0.125596	-0.35321	0.183038	0.349431	0.356354	0.007038	0.172934	-0.11525	0.381943	-0.1056	0.217576	0.222819	0.995594	0.244984	0.926823
ZNF654	0.042586	0.236297	-0.19563	0.082375	0.753111	0.079546	0.144733	0.54241	0.217093	0.263937	-0.08743	0.139388	0.926362	0.961837	0.283977	0.822225
PPP2R5D	0.026169	0.220653	-0.11601	-0.03157	0.848177	0.105481	0.394512	0.81733	-0.26334	0.426852	-0.04433	0.262518	0.038511	0.998454	0.386243	0.961011
CWF19L1	-0.08081	0.155038	-0.30752	0.109306	0.550125	0.253894	0.019965	0.418291	-0.23613	0.369903	-0.17104	0.280418	0.057069	0.9943	0.130642	0.970461
TMEM140	-0.01624	-0.41646	0.255796	0.402148	0.904558	0.00141	0.054793	0.001929	0.054688	-0.24606	0.209181	-0.09734	0.640941	0.049634	0.916061	0.259924
LRRC36	-0.1571	-0.08754	0.03171	-0.28934	0.243199	0.521174	0.814858	0.029034	-0.30612	-0.21192	-0.05724	-0.17698	0.019271	0.078703	0.354407	0.119671
MCOLN3	0.226648	-0.18218	0.167013	0.107895	0.090003	0.179002	0.214336	0.424361	0.187407	-0.2388	0.069565	-0.25888	0.893831	0.054993	0.675113	0.04117
UBE2W	-0.06383	0.203064	-0.24158	0.142052	0.637138	0.133354	0.070235	0.291852	0.06209	0.200022	0.005116	0.144059	0.659069	0.9087	0.513305	0.830253
RBM41	-0.08648	0.295736	-0.15066	-0.11029	0.522421	0.026903	0.263282	0.41407	-0.14482	0.269711	-0.14315	0.112499	0.168462	0.96506	0.174103	0.771675
C4orf19	-0.21101	0.015199	-0.13455	-0.02486	0.121999	0.913138	0.327376	0.857021	-0.11975	0.131273	-0.07584	-0.141	0.216658	0.804983	0.312311	0.177777
TMEM40	-0.16422	0.260224	-0.17736	-0.21102	0.226495	0.055016	0.190978	0.118482	-0.25599	0.496722	-0.22197	0.256629	0.042976	0.999777	0.071399	0.957429
RHOT1	0.103064	0.174412	-0.14314	0.123654	0.445514	0.198574	0.288132	0.359452	0.020646	0.196206	-0.07853	0.166188	0.554164	0.904369	0.30405	0.865165
LOC552885	-0.04718	0.126757	-0.18411	-0.00152	0.727479	0.351891	0.170393	0.991017	-0.16155	0.251299	-0.18842	0.16627	0.141721	0.953971	0.107569	0.865285
ACOXL	0.038325	-0.11965	0.274581	0.013557	0.777145	0.37977	0.038732	0.920273	0.016657	-0.15011	0.128703	-0.13666	0.543743	0.159682	0.800269	0.18257
PPP2R5E	-0.0899	-0.08911	-0.23051	0.198951	0.509932	0.517665	0.087419	0.141569	-0.00494	0.184831	0.134993	0.179629	0.487154	0.887912	0.808852	0.881141
BRF2	0.050889	-0.02791	0.050143	0.126683	0.706965	0.838192	0.711073	0.34771	-0.11181	0.098199	-0.17424	0.210058	0.232314	0.739484	0.128984	0.916969
SAPS3	-0.08046	0.283184	-0.27988	0.146994	0.55187	0.034442	0.034981	0.275214	0.01629	0.445464	-0.16032	0.260701	0.542785	0.99904	0.146389	0.959932
UEVLD	-0.09142	0.185101	-0.25257	0.010904	0.498837	0.172014	0.058028	0.935835	-0.23503	0.308829	-0.0437	0.241547	0.057937	0.981614	0.387811	0.947084
FBXW7	0.075708	0.162329	-0.25192	0.254718	0.575666	0.231967	0.058702	0.055858	0.026367	0.362792	-0.16061	0.257091	0.569044	0.993392	0.145955	0.957719
KLHL26	-0.00151	0.123354	0.070042	-0.15066	0.991122	0.365071	0.604648	0.263284	0.218089	-0.04259	-0.01526	-0.23297	0.927309	0.389345	0.460379	0.059605
TBC1D19	-0.06064	0.092884	-0.07651	-0.06284	0.654081	0.49595	0.571634	0.642393	-0.12209	0.122895	-0.05443	0.119076	0.209454	0.792082	0.361247	0.78471

CCDC91	0.009332	-0.02096	-0.14004	0.011988	0.945073	0.878152	0.29882	0.929474	-0.10455	-0.01512	0.079683	0.06258	0.244625	0.460272	0.698578	0.660255
RNF121	-0.11709	0.279769	-0.14541	0.238737	0.385701	0.036772	0.280476	0.073703	0.096512	0.24948	-0.09474	0.112398	0.73828	0.952742	0.267945	0.771471
BXDC2	0.063508	0.274508	-0.24837	0.105459	0.638836	0.040618	0.062473	0.434954	-0.17143	0.404582	-0.10605	0.338389	0.127319	0.997355	0.244043	0.989282
AVPR1B	-0.03952	-0.11074	0.192002	-0.22473	0.770368	0.416489	0.152482	0.092824	0.009196	-0.30987	0.148116	-0.32027	0.524182	0.018054	0.834226	0.015008
PPP3CA	0.107032	0.124054	-0.22798	0.189294	0.428098	0.362338	0.088081	0.158461	0.274464	0.211998	-0.03019	0.099812	0.967547	0.921379	0.421978	0.745366
PI4K2B	-0.18207	0.240015	-0.21295	0.212809	0.175245	0.074792	0.111744	0.111984	-0.13068	0.421993	-0.24935	0.257132	0.193345	0.998256	0.049285	0.957745
OLAH	0.033697	-0.14637	0.054303	-0.20472	0.805257	0.286275	0.691005	0.130154	-0.01736	-0.27879	-0.07605	-0.2718	0.454417	0.030313	0.309774	0.03383
GIMAP4	0.036775	-0.30046	0.005169	0.47043	0.785939	0.024451	0.969557	0.000222	0.205616	-0.39687	0.167161	-0.13881	0.914793	0.003159	0.863797	0.178785
SPTLC3	0.051236	-0.04608	0.037427	0.187402	0.705055	0.735931	0.782238	0.162742	0.266075	0.049118	0.167003	0.254869	0.963057	0.627093	0.863568	0.956311
DDX19A	0.093148	0.119157	-0.19169	0.131808	0.494721	0.386221	0.156995	0.332871	-0.19447	0.396396	-0.29727	0.263942	0.097653	0.996806	0.023676	0.961841
PPP4C	-0.1482	0.004862	-0.17099	-0.05786	0.271235	0.97163	0.203469	0.668999	-0.27962	0.441003	-0.23216	0.262665	0.029916	0.998921	0.062442	0.961097
ZNF444	-0.11307	-0.24612	0.190613	-0.13915	0.402362	0.067475	0.155529	0.301911	0.047861	-0.47146	0.225033	-0.28647	0.623944	0.000471	0.931391	0.026793
PEF1	-0.03333	0.14777	-0.21049	0.243027	0.807328	0.281638	0.119437	0.071107	-0.16649	0.416809	-0.34327	0.251097	0.13439	0.998021	0.010483	0.953836
RFK	-0.098	0.061584	0.015586	0.214229	0.468285	0.652073	0.908388	0.109554	0.025315	0.102292	-0.01436	0.218229	0.566314	0.750626	0.462691	0.927441
FLJ11151	-0.29521	0.10559	-0.30616	0.107397	0.025792	0.438628	0.02055	0.426514	-0.16929	0.18912	-0.06673	0.055538	0.130352	0.895943	0.331583	0.64304
TMEM144	0.010807	0.15198	-0.10418	-0.13718	0.936407	0.263493	0.440571	0.308904	-0.04957	0.099532	0.079279	0.093586	0.373213	0.742319	0.695515	0.729556
SLC29A3	-0.07778	-0.17424	0.059906	-0.23709	0.565236	0.199021	0.658011	0.075775	-0.11703	-0.24144	0.062195	-0.25016	0.219299	0.052996	0.657582	0.046799
RSAD1	-0.01812	-0.16576	0.135402	-0.00211	0.894554	0.222109	0.319738	0.98769	0.249423	-0.34605	0.097432	-0.2943	0.952703	0.009243	0.737846	0.023554
C20orf29	-0.13473	-0.04013	-0.00956	-0.08265	0.317673	0.769045	0.943704	0.54104	-0.15738	0.057082	-0.12831	-0.03259	0.148113	0.646839	0.200464	0.414882
C4orf43	-0.08764	0.18196	-0.28277	0.167584	0.516807	0.179534	0.033064	0.212753	-0.09857	0.41238	-0.23002	0.27121	0.257287	0.997799	0.064246	0.96586
PPP3CB	0.124926	0.011813	-0.08446	0.158708	0.354495	0.931144	0.532208	0.238333	0.104007	0.049198	-0.06281	0.131982	0.754231	0.627292	0.34094	0.809034
C14orf106	0.002395	0.325121	-0.25981	0.295123	0.985894	0.014488	0.050973	0.025836	0.004976	0.565904	-0.1792	0.396386	0.513091	0.999979	0.119431	0.996806
C20orf46	0.249984	-0.32428	0.408814	-0.08405	0.06315	0.015719	0.001759	0.537963	0.147948	-0.22311	0.152444	-0.01539	0.836761	0.068059	0.841274	0.459569
C5orf22	0.02686	0.274462	-0.24708	-0.01525	0.842785	0.040653	0.063896	0.910326	-0.02195	0.470245	-0.07917	0.27845	0.44245	0.999513	0.302596	0.969522
LARP6	0.200109	-0.15191	0.199886	-0.42561	0.135578	0.263724	0.136023	0.000965	0.096487	-0.63832	0.264054	-0.33402	0.738227	9.10E-07	0.960177	0.011644
ABCF3	0.044912	-0.02474	-0.02579	0.139141	0.742401	0.857708	0.850353	0.306432	0.006828	0.459952	-0.19739	0.319446	0.517753	0.999261	0.09952	0.983782
UFSP2	0.149505	0.087088	-0.12098	0.183618	0.267006	0.523331	0.370001	0.171554	0.084836	0.296312	-0.07625	0.216541	0.712453	0.977225	0.309307	0.925834
AGPAT5	-0.13607	0.217745	-0.33561	-0.00614	0.312844	0.106938	0.010707	0.963856	-0.26202	0.402106	-0.28633	0.357613	0.039283	0.997198	0.028271	0.992656
LIN7C	0.058081	0.291034	-0.22063	0.126727	0.667812	0.029546	0.099112	0.347542	0.094099	0.473621	-0.1271	0.252852	0.733038	0.999557	0.202699	0.955
C10orf59	0.089489	-0.14906	0.04415	-0.08991	0.511895	0.272879	0.746623	0.509927	0.113887	-0.23184	0.043501	-0.11668	0.77446	0.060528	0.611693	0.219986
MNS1	-0.08098	-0.0984	-0.02317	-0.21153	0.549308	0.470583	0.864171	0.114198	-0.20076	-0.25887	0.076549	-0.16616	0.090484	0.041178	0.691388	0.134874
PPP3CC	-0.03903	0.341908	-0.1513	0.28616	0.773155	0.009905	0.261246	0.030932	0.213258	0.387412	-0.03291	0.262722	0.922634	0.996093	0.415033	0.961131
CNO	-0.26336	0.082839	0.029911	-0.00234	0.047773	0.543869	0.825193	0.986235	-0.1354	-0.06067	-0.359	-0.11344	0.184812	0.344393	0.007721	0.226436
ACER3	0.000517	0.31269	-0.32744	0.284332	0.996956	0.018958	0.012908	0.032068	-0.04944	0.537257	-0.21913	0.455549	0.372102	0.999941	0.074054	0.999267
DRAM	-0.01659	-0.07487	0.080734	0.458089	0.902509	0.583394	0.550508	0.000339	-0.08198	0.113594	0.063349	0.426667	0.294027	0.773875	0.660349	0.998446
SYNJ2BP	-0.22409	0.256161	-0.25169	0.107293	0.093793	0.056698	0.058943	0.426967	-0.24827	0.39222	-0.07754	0.304168	0.048088	0.99649	0.306329	0.980069
SLC39A9	0.032633	0.270871	-0.23513	0.125815	0.809568	0.043465	0.078298	0.351052	-0.1426	0.530269	-0.28781	0.370615	0.172228	0.999925	0.02761	0.994385
NIPSNAP3E	0.005321	-0.00838	-0.03588	-0.11991	0.968668	0.951151	0.79103	0.374292	0.049616	-0.25649	0.119775	-0.25416	0.626905	0.044496	0.780658	0.046019
FBXL8	-0.09593	0.034391	0.123704	-0.18228	0.477797	0.801329	0.359257	0.174746	0.035733	-0.15056	0.077622	-0.15064	0.593191	0.158958	0.693858	0.158827
C19orf66	-0.11062	-0.22103	0.100161	0.133756	0.417001	0.104874	0.462655	0.325711	0.074715	-0.03241	0.064971	0.036734	0.689165	0.415332	0.664225	0.595751
WDR33	-0.11787	0.278129	-0.23618	0.234491	0.382543	0.037938	0.076944	0.079137	-0.01059	0.399276	-0.21337	0.232788	0.472152	0.99701	0.079666	0.940249
PPP3R1	0.110325	0.239062	-0.26184	0.247454	0.413941	0.075988	0.049127	0.063479	0.147283	0.252837	-0.03071	0.167382	0.835658	0.95499	0.420628	0.866901
GIMAP5	0.118042	-0.31143	0.100074	0.554604	0.381836	0.019469	0.458896	7.59E-06	0.207625	-0.29141	0.132895	0.008666	0.916908	0.02471	0.807923	0.52279
LSG1	-0.1354	0.294758	-0.33776	0.181151	0.315283	0.027436	0.010183	0.177483	-0.17666	0.63204	-0.30709	0.422798	0.120112	0.999999	0.020089	0.99829
STRBP	-0.13016	0.152595	-0.24105	-0.1405	0.334539	0.261542	0.070867	0.297198	-0.16352	0.013793	-0.07894	0.002443	0.141572	0.535826	0.305246	0.506352
SLC35C1	-0.0523	0.167938	0.039494	0.217115	0.699248	0.216014	0.770532	0.104742	-0.07455	0.540462	-0.29598	0.307043	0.311217	0.999947	0.024184	0.981034
C4orf21	-0.02268	0.116263	-0.18517	0.047598	0.867003	0.393489	0.167887	0.725141	-0.17353	0.301294	-0.25045	0.201979	0.12439	0.979064	0.048523	0.910866
TCP11L1	0.146912	0.220472	-0.0451	0.151639	0.275484	0.102508	0.739032	0.26016	0.21675	0.130336	-0.06991	0.001267	0.926034	0.806026	0.324082	0.503335
ABHD10	0.01888	0.034061	-0.18208	0.014521	0.889138	0.803197	0.175243	0.914624	-0.02708	0.153562	0.017628	0.180317	0.429121	0.845876	0.545751	0.884769
CHDH	0.158224	-0.26059	0.30958	0.02846	0.239785	0.052411	0.019109	0.833548	0.340334	-0.37477	0.227741	-0.31094	0.989674	0.005142	0.933786	0.017718

PPP3R2	0.040483	-0.06639	0.224344	-0.20781	0.764946	0.626876	0.093407	0.120869	0.104259	-0.40493	0.177846	-0.33418	0.754758	0.002624	0.878758	0.011609
VNN3	-0.22197	-0.1213	-0.02632	-0.04012	0.097021	0.373184	0.845923	0.766973	-0.31435	-0.16065	0.001539	-0.1286	0.016684	0.143095	0.504003	0.197182
STK32B	0.174215	-0.13572	0.232253	-0.07577	0.199091	0.323171	0.084986	0.578875	0.169242	-0.17451	0.098899	-0.2303	0.863953	0.128612	0.735969	0.066299
C17orf79	-0.10294	-0.31862	0.154343	-0.39075	0.446068	0.016697	0.251656	0.002654	-0.20922	-0.49202	0.069275	-0.38328	0.081446	0.000257	0.674429	0.004278
LAPTM4B	0.109784	0.272337	-0.26015	0.444618	0.416246	0.042298	0.050659	0.00053	0.08965	0.59602	-0.1318	0.56943	0.723241	0.999994	0.194064	0.999982
HJURP	-0.02389	0.235478	-0.04297	-0.20323	0.859958	0.080625	0.750935	0.129453	-0.1041	0.43577	-0.12702	0.230908	0.245575	0.998765	0.202858	0.938699
SLC22A15	-0.04303	-0.17749	0.018699	-0.21906	0.750596	0.19064	0.890192	0.101597	0.071662	-0.37783	0.190038	-0.45724	0.68199	0.004816	0.894418	0.0007
TBC1D2	-0.16004	0.454441	-0.23617	0.031522	0.234372	0.000434	0.07695	0.815937	-0.21844	0.645216	-0.35995	0.419316	0.072359	0.999999	0.007577	0.998138
STYK1	-0.16531	0.180312	-0.12142	-0.17586	0.21911	0.183576	0.36825	0.190696	-0.25492	0.476982	-0.16225	0.265951	0.043657	0.999598	0.143477	0.962987
PPP5C	-0.11563	-0.15698	0.008932	-0.27363	0.391703	0.247924	0.947422	0.03944	-0.50356	0.083441	-0.10833	-0.0161	0.00018	0.709291	0.239369	0.457711
PI4K2A	-0.22574	0.252603	-0.32441	-0.0922	0.091329	0.060346	0.013817	0.495146	-0.25878	0.428655	-0.36422	0.168448	0.041235	0.998522	0.006954	0.868441
TMEM63B	-0.10535	0.314022	-0.14546	-0.05704	0.435454	0.018429	0.280319	0.673444	-0.22201	0.549943	-0.22355	0.319131	0.069051	0.999962	0.069953	0.984682
HEMGN	-0.06726	-0.37455	0.034485	-0.28251	0.619085	0.004456	0.798984	0.033235	-0.10386	-0.48842	-0.04223	-0.38199	0.251139	0.000385	0.394007	0.005252
IMPACT	0.010237	0.174986	-0.27505	0.043082	0.939758	0.197079	0.038384	0.750332	-0.04551	0.455095	-0.25974	0.209127	0.38196	0.999258	0.042436	0.918464
TMEM176A	0.023402	-0.31784	0.220184	0.488337	0.862819	0.016981	0.099807	0.000116	-0.21587	0.004037	0.016575	0.15938	0.074816	0.510621	0.543028	0.854972
LGR4	-0.08097	0.41052	-0.38581	-0.13521	0.549351	0.001675	0.003037	0.315936	-0.0193	0.494524	-0.24035	0.260874	0.449351	0.999762	0.055874	0.960036
LRDD	0.046323	-0.17228	0.184337	-0.20592	0.732225	0.204213	0.169854	0.12436	-0.04255	-0.15873	0.045332	-0.31546	0.389438	0.146019	0.616267	0.01636
PPP6C	0.065766	0.215174	-0.26742	0.213377	0.626934	0.111246	0.044324	0.111007	-0.02151	0.434653	-0.17593	0.379946	0.443576	0.99873	0.123838	0.995399
PPP4R1L	-0.00475	0.012928	0.08993	0.078645	0.972044	0.924657	0.505883	0.560902	0.249257	-0.01893	0.111417	0.044324	0.95259	0.450312	0.766893	0.615045
TMCO6	-0.15479	-0.03753	0.096937	-0.30631	0.250262	0.783599	0.473167	0.020483	-0.01113	-0.22771	-0.03638	-0.39579	0.470742	0.064006	0.406235	0.003238
LRRC59	-0.09011	0.276536	-0.08311	0.194459	0.505042	0.039098	0.538806	0.147201	-0.09511	0.498322	-0.19527	0.353985	0.264768	0.999788	0.099309	0.9921
PPT1	0.222686	-0.04787	-0.07974	0.289773	0.095918	0.726096	0.555421	0.028785	-0.02532	0.246062	-0.05635	0.299785	0.433681	0.950364	0.356553	0.97852
MEG3	0.402498	-0.33845	0.366087	0.087482	0.002103	0.011491	0.005524	0.521443	0.443696	-0.30009	0.266693	-0.19976	0.998723	0.023901	0.958074	0.096789
MCM10	-0.01491	0.232912	0.07742	-0.24234	0.913149	0.087032	0.570617	0.07194	-0.05486	0.319661	-0.08188	0.048874	0.358623	0.984827	0.296436	0.626482
PPY	0.019218	-0.14971	0.14109	-0.29108	0.887164	0.270772	0.295166	0.028039	0.0785	-0.28234	-0.03396	-0.32125	0.697967	0.028644	0.412366	0.014743
AVPR2	0.079052	-0.21868	0.264381	-0.0446	0.562498	0.108711	0.048952	0.744119	0.236485	-0.27394	0.122228	-0.05001	0.943211	0.03272	0.788106	0.370675
PPYR1	-0.0902	-0.05708	0.087791	-0.08601	0.508539	0.678905	0.519966	0.528491	-0.11381	-0.16932	-0.09609	-0.14695	0.225701	0.130307	0.265031	0.164899
CYorf14	0.036844	0.080319	-0.10052	-0.03021	0.785551	0.556232	0.456886	0.823459	0.26614	-0.17604	0.028917	-0.20593	0.963094	0.120951	0.574783	0.084873
DNM1P33	0.065345	0.017723	0.342614	-0.00573	0.632309	0.896844	0.009743	0.966558	0.065114	-0.00325	0.273357	-0.02721	0.666376	0.491458	0.965385	0.428773
PRB1	0.290646	-0.3999	0.311993	-0.10126	0.028286	0.002261	0.018147	0.453565	0.253781	-0.47888	0.483225	-0.29923	0.955608	0.00038	0.999614	0.021684
LOC554206	-0.22091	0.099373	-0.07066	0.088602	0.098672	0.466203	0.601456	0.512207	-0.16135	0.012122	-0.10446	0.013606	0.142025	0.531865	0.247327	0.535755
LOC554207	-0.16167	-0.03439	0.126155	-0.26331	0.229567	0.801308	0.34974	0.047816	-0.25652	-0.09926	0.0956	0.076964	0.04264	0.255821	0.733912	0.694407
C17orf85	-0.15479	0.301112	-0.16855	-0.17539	0.250256	0.024126	0.210082	0.191903	-0.14207	0.314476	-0.15156	0.092559	0.173146	0.983353	0.160156	0.729666
ZNF331	0.205139	0.035539	0.074909	0.227112	0.129348	0.796722	0.583216	0.092319	0.258816	-0.37057	0.108658	-0.26488	0.956985	0.006108	0.758688	0.039336
SIRPG	-0.13235	-0.04632	0.112421	0.351702	0.326409	0.734625	0.40507	0.007302	0.025926	-0.17693	0.082011	-0.08394	0.5679	0.119745	0.703872	0.289574
ASPDH	0.035949	-0.18936	0.247259	-0.18076	0.79064	0.162181	0.063695	0.178434	0.12302	-0.38084	0.114932	-0.31868	0.79232	0.004512	0.77391	0.015444
KIAA1704	0.043389	0.167845	-0.17221	0.031905	0.75085	0.220616	0.204401	0.815425	-0.07644	0.308562	-0.25996	0.249156	0.308869	0.980409	0.044172	0.95058
GDF5OS	-0.09742	-0.12602	0.117126	-0.17642	0.470946	0.354707	0.385568	0.18927	0.095969	-0.21936	0.146124	-0.18797	0.737105	0.071501	0.830918	0.105467
FBXO48	0.037222	-0.17777	-0.03562	-0.0288	0.783402	0.189926	0.792538	0.831602	-0.01113	0.014621	-0.05173	0.023551	0.470747	0.538415	0.367887	0.561729
YOD1	-0.16762	0.332184	-0.2229	-0.04399	0.212661	0.012376	0.095589	0.745261	0.1702	-0.26796	-0.07873	-0.35654	0.868172	0.037568	0.305738	0.008108
C4orf16	0.036604	0.308995	-0.17701	0.108396	0.786911	0.020494	0.187774	0.422199	-0.06396	0.548183	-0.16825	0.357804	0.336415	0.99996	0.134625	0.992685
STRADB	-0.04482	-0.14218	-0.01196	-0.33569	0.740582	0.295867	0.929657	0.010685	-0.10418	-0.41124	0.030892	-0.45765	0.245409	0.002261	0.579824	0.000692
PRB3	0.290718	-0.31904	0.303597	0.005436	0.028245	0.016546	0.021687	0.967991	0.301439	-0.36076	0.444391	-0.23568	0.979116	0.006889	0.998887	0.057426
PRB4	0.322926	-0.42559	0.279663	-0.08253	0.014283	0.001076	0.035129	0.541644	0.252948	-0.45348	0.539836	-0.31521	0.955063	0.000775	0.999935	0.01643
CAMK2N1	0.210308	-0.06338	0.049443	0.381639	0.119766	0.645727	0.717448	0.003705	0.306894	-0.24478	0.225427	-0.0255	0.979845	0.052555	0.929392	0.433959
CSGALNAC	0.18406	-0.02518	-0.01726	0.277113	0.170508	0.853825	0.898622	0.0369	0.305248	-0.12574	0.220443	0.074885	0.980436	0.202522	0.927183	0.689563
PRCC	-0.04456	0.302907	-0.00974	0.12029	0.744346	0.024581	0.943213	0.377194	-0.16313	0.691657	-0.1393	0.377681	0.139354	1	0.180725	0.995169
DNAJA4	-0.1843	-0.08015	-0.11162	-0.23373	0.169949	0.55705	0.408444	0.080147	-0.27965	-0.09644	-0.06325	-0.13169	0.029901	0.261882	0.339878	0.191493
PRCP	0.207366	0.021646	-0.07163	0.496287	0.121677	0.874184	0.596444	8.63E-05	0.123709	0.390762	-0.17043	0.501071	0.793634	0.996374	0.131503	0.999805
C2orf56	-0.06663	0.256876	-0.19947	0.1484	0.622392	0.055988	0.136863	0.270598	0.081555	0.321052	-0.00069	0.186109	0.702839	0.984237	0.498222	0.889535

PARL	-0.00746	0.20017	-0.26227	0.263611	0.956106	0.139096	0.048735	0.047555	-0.22116	0.421542	-0.15613	0.434381	0.069826	0.998237	0.152879	0.998721
PRELP	0.493861	-0.29803	0.16947	0.167644	9.46E-05	0.025689	0.207573	0.212586	0.599905	-0.29228	0.427097	-0.14907	0.999993	0.025692	0.998082	0.164203
PREP	0.008627	0.22371	-0.2053	0.280121	0.949684	0.10062	0.129038	0.036526	-0.07663	0.601172	-0.23144	0.36452	0.306378	0.999995	0.063046	0.993624
ETNK1	0.010697	0.097063	-0.13643	0.099536	0.937052	0.476678	0.311574	0.461328	0.057347	0.152934	0.010868	0.078507	0.64749	0.844872	0.528243	0.697983
CHST12	-0.09084	-0.12903	0.10103	0.232614	0.501561	0.343266	0.454594	0.081637	0.067465	-0.11489	-0.02353	-0.04234	0.672016	0.223545	0.439038	0.389982
HES6	-0.08473	-0.26554	0.185531	-0.28651	0.530891	0.047933	0.167057	0.03072	-0.02219	-0.34888	0.081192	-0.26681	0.44181	0.008743	0.702015	0.036529
TRPV6	0.064128	-0.00436	-0.12563	-0.16987	0.635561	0.974535	0.351779	0.206488	0.052825	0.181903	0.001816	0.084779	0.636328	0.886841	0.504722	0.712323
TNFRSF19	0.088555	-0.29931	0.210504	-0.15049	0.512435	0.025029	0.116013	0.26384	0.108824	-0.39585	0.118046	-0.33971	0.764211	0.003233	0.780032	0.010449
NOP10	-0.19731	-0.00707	-0.10545	0.081402	0.141252	0.95877	0.434981	0.547203	-0.32991	0.306394	-0.27192	0.243096	0.012575	0.980819	0.035382	0.948227
H2AFY2	0.013094	0.256086	-0.29747	-0.10145	0.922988	0.056773	0.024623	0.452714	-0.21028	0.538443	-0.15127	0.354498	0.080355	0.999943	0.160621	0.99218
GPRC5D	0.136424	0.066032	0.036606	-0.13521	0.316067	0.631953	0.788818	0.320425	0.023223	0.087335	0.012027	-0.03503	0.560178	0.71582	0.531249	0.40966
SLC35E3	0.0524	0.209236	-0.26475	0.114971	0.698673	0.121707	0.046566	0.394431	-0.16272	0.371008	-0.14807	0.261856	0.139974	0.994431	0.165852	0.960621
BATF3	-0.05597	-0.1876	0.313725	-0.01257	0.679218	0.166185	0.017481	0.926078	0.137714	-0.37586	0.13016	-0.23599	0.819294	0.005024	0.80295	0.057175
PRF1	-0.11408	-0.20119	0.085462	0.479916	0.402494	0.140785	0.531141	0.000182	-0.0124	-0.45502	0.167691	-0.32907	0.467777	0.000843	0.861711	0.013649
DDX43	-0.10275	-0.1044	0.049348	-0.24795	0.451101	0.448129	0.717967	0.065397	0.042983	-0.3802	0.251339	-0.28378	0.611653	0.004576	0.952088	0.027987
SAGE1	0.113579	-0.14976	0.214847	-0.26904	0.404574	0.275143	0.111805	0.044955	-0.04581	-0.31672	0.135696	-0.13696	0.382551	0.017013	0.8101	0.184821
SMPD3	-0.31837	-0.03146	0.020401	-0.11878	0.015799	0.817931	0.880272	0.378858	-0.36908	-0.02241	-0.0104	-0.02257	0.005799	0.441248	0.472964	0.440823
ACCN4	-0.0103	-0.16366	0.215035	-0.15975	0.939371	0.22812	0.108193	0.235236	0.098617	-0.41322	0.164864	-0.30717	0.742811	0.002157	0.860429	0.018925
SRGN	0.056174	-0.33884	0.056309	0.494895	0.678113	0.010634	0.677387	9.10E-05	-0.02852	-0.36361	0.139068	-0.07606	0.425372	0.006498	0.818874	0.307697
ELAC1	-0.07248	0.217049	-0.11401	-0.02274	0.592107	0.108091	0.398433	0.866665	-0.15715	0.121736	0.143388	0.013069	0.148475	0.78986	0.826309	0.534347
TRIM36	-0.06812	-0.19473	0.104847	-0.43149	0.614634	0.150381	0.437639	0.000805	-0.18998	-0.36649	-0.06875	-0.35701	0.105656	0.00664	0.328719	0.008032
DHTKD1	0.094186	0.177255	0.027252	-0.09771	0.485872	0.191241	0.840523	0.469618	0.158989	0.234276	0.046414	0.076146	0.854372	0.941455	0.618962	0.692506
FEM1A	-0.17982	0.187919	0.040486	-0.11937	0.180751	0.165462	0.764933	0.376466	-0.29051	0.18152	-0.17357	0.098874	0.025082	0.886343	0.127084	0.743363
TMEM55A	0.280026	-0.24071	0.088656	0.156349	0.036593	0.076678	0.515849	0.249849	0.41358	-0.59727	0.387082	-0.40737	0.997862	5.88E-06	0.995691	0.002478
PRG2-1	-0.04374	-0.18435	0.171776	-0.19512	0.746642	0.17378	0.201367	0.145813	0.012573	-0.30389	0.192864	-0.24065	0.533046	0.020027	0.897836	0.053587
SVOP	-0.00362	-0.0877	0.066509	-0.20941	0.978866	0.524349	0.62624	0.121391	0.130725	-0.25016	0.000364	-0.13059	0.803983	0.048725	0.500936	0.196258
ELMOD1	0.044699	-0.22178	0.045274	-0.51787	0.743582	0.103674	0.740396	4.36E-05	-0.17805	-0.45403	-0.04987	-0.23421	0.118237	0.000764	0.372458	0.058598
SLC30A10	0.043088	-0.18387	0.101644	-0.25751	0.752521	0.179027	0.456024	0.055364	0.143226	-0.26862	0.040601	-0.35464	0.828837	0.03553	0.60442	0.007797
MAML3	0.152143	0.275892	-0.03099	-0.25696	0.25856	0.039575	0.818987	0.053665	0.259164	0.022269	0.075272	-0.19277	0.959002	0.558393	0.688438	0.099651
CDCA7L	0.141417	0.274992	-0.17639	0.058754	0.294037	0.04025	0.189344	0.664196	-0.1544	0.640596	-0.16511	0.398259	0.152794	0.999999	0.139213	0.996939
KCNQ1DN	-0.02942	-0.30266	0.142447	-0.18998	0.82803	0.023371	0.290499	0.156937	-0.00133	-0.34243	0.119628	-0.21542	0.496488	0.009917	0.783105	0.075247
PRH1	0.315854	0.014765	0.096691	-0.18753	0.016691	0.913992	0.474295	0.162446	0.320818	-0.25232	0.291172	-0.29472	0.985141	0.045352	0.973844	0.02339
IL17RB	0.298504	-0.2407	0.209423	-0.08841	0.024107	0.073938	0.117942	0.513131	0.333629	0.058022	0.239304	-0.0783	0.987444	0.647504	0.941149	0.304584
RBM38	-0.24676	-0.28631	0.136584	-0.16727	0.064246	0.032419	0.311012	0.213627	-0.17928	-0.4368	0.082706	-0.34523	0.119317	0.00135	0.703236	0.010099
MSX2P1	0.037378	-0.08875	0.236731	-0.17173	0.784471	0.519345	0.078979	0.205672	0.195774	-0.39076	0.237298	-0.26335	0.903869	0.003626	0.941741	0.038503
PRH2	0.308691	-0.26406	0.285505	-0.04434	0.019475	0.049234	0.031335	0.743302	0.296908	-0.35751	0.333951	-0.24186	0.977451	0.007359	0.987518	0.05268
ZNF823	-0.15169	0.292446	-0.2953	-0.14494	0.264403	0.030263	0.027138	0.286518	0.030002	0.150716	-0.00878	-0.10553	0.578449	0.841296	0.477176	0.242581
SOX6	0.106852	-0.0989	0.10763	-0.2286	0.433144	0.472536	0.429786	0.090147	0.369603	-0.31742	0.211926	-0.22061	0.993769	0.016806	0.916365	0.072663
KLK15	0.055906	-0.1367	0.224435	-0.14824	0.679568	0.315096	0.093271	0.271127	0.164966	-0.40217	0.235484	-0.37837	0.863371	0.002798	0.94029	0.00476
ENOSF1	-0.14357	0.016796	-0.06235	-0.23012	0.286681	0.902214	0.644974	0.08506	-0.06871	0.035345	-0.05546	-0.10905	0.325016	0.592195	0.358735	0.235324
PLXNA3	0.046743	-0.10054	0.134204	-0.04693	0.729892	0.460963	0.319601	0.728836	0.092404	0.022292	-0.09943	-0.00482	0.729327	0.558454	0.257905	0.487329
UCHL5IP	0.084033	-0.13212	0.187237	0.162937	0.534282	0.331724	0.163118	0.225894	0.241401	0.036557	0.123877	0.06279	0.946975	0.595299	0.791241	0.660765
CDC42BPG	-0.10324	-0.02256	0.011513	-0.19022	0.444744	0.868888	0.932261	0.156392	-0.14507	0.113274	-0.09474	-0.02313	0.168033	0.773234	0.267932	0.439367
ZNF821	0.145806	-0.1349	-0.01422	-0.01109	0.28361	0.326119	0.917176	0.935358	-0.05518	-0.21955	0.008566	-0.13962	0.357837	0.071322	0.522268	0.177371
DNAH3	-0.11141	-0.16027	0.062764	-0.19331	0.409347	0.238032	0.64278	0.149648	-0.13175	-0.30372	0.093773	-0.252	0.191392	0.020084	0.729962	0.04556
GALNT10	0.086822	-0.1053	0.028956	0.257384	0.520754	0.439875	0.830689	0.053254	0.34833	-0.11337	0.118534	-0.05568	0.991161	0.226565	0.780982	0.3566
PRIM1	0.054634	0.332495	-0.32565	0.013523	0.686478	0.012289	0.01344	0.92047	-0.16295	0.610169	-0.11385	0.441041	0.139625	0.999997	0.228242	0.998922
C2orf29	-0.14395	0.37868	-0.30433	0.07172	0.285398	0.004004	0.021357	0.596	-0.19405	0.529921	-0.32057	0.304105	0.098137	0.999924	0.015899	0.980047
FOXRED1	-0.04753	-0.01719	-0.06271	0.211132	0.727935	0.900876	0.646155	0.118289	-0.20107	0.492308	-0.29366	0.380959	0.090138	0.999745	0.025119	0.995499
CDV3	0.071062	0.308153	-0.13307	0.309854	0.599387	0.020859	0.323748	0.018998	0.307829	0.26383	0.131591	0.243848	0.981291	0.961776	0.805561	0.948776

STAB2	-0.00385	0.060278	0.069086	-0.27518	0.977529	0.661993	0.612902	0.04011	0.013614	-0.31482	0.23446	-0.33593	0.535776	0.016546	0.939459	0.011231
NAGK	0.12648	-0.22392	0.088933	0.299683	0.352953	0.100299	0.514532	0.02484	-0.0419	0.304951	-0.11927	0.062121	0.3911	0.980335	0.217594	0.659144
FAM48A	-0.01158	0.170524	-0.04236	0.176213	0.931899	0.208923	0.754386	0.189794	0.090905	0.252105	-0.00278	0.235781	0.726021	0.954508	0.492771	0.942656
PRIM2	-0.07057	0.310561	-0.33014	-0.00326	0.601904	0.019831	0.012139	0.980802	-0.07099	0.523705	-0.18651	0.33147	0.319588	0.999906	0.109965	0.987785
KIF27	-0.06172	-0.10253	0.001168	-0.17727	0.648343	0.452076	0.993121	0.187109	-0.12802	-0.18632	0.071014	-0.1137	0.198256	0.107521	0.678516	0.225911
CHRNA9	0.038456	-0.31115	0.051498	-0.29694	0.776404	0.019584	0.703617	0.024897	-0.05615	-0.40681	0.087786	-0.23003	0.355459	0.002511	0.71682	0.062036
UBE2Q1	-0.13381	0.181111	-0.27589	0.09339	0.321017	0.181608	0.037776	0.489582	-0.20346	0.573904	-0.25146	0.301879	0.087515	0.999985	0.047831	0.979272
MIOX	0.062288	-0.00381	0.297419	-0.1118	0.645307	0.977782	0.024651	0.407668	0.202846	-0.36683	0.146844	-0.19999	0.911814	0.006078	0.832119	0.091331
MED29	-0.06872	-0.14956	-0.00325	-0.05705	0.611485	0.271254	0.980842	0.673356	-0.08173	0.031693	0.183857	-0.14253	0.29676	0.581867	0.883893	0.175154
BMP2K	-0.11971	0.071398	-0.16761	0.15908	0.37511	0.601038	0.212681	0.237221	-0.19872	0.127357	-0.04197	0.260574	0.092759	0.800512	0.392134	0.959856
VEZT	0.056468	0.35957	-0.19293	-0.02352	0.676521	0.006493	0.150474	0.862144	0.139478	0.441512	-0.03468	0.30025	0.822382	0.998935	0.410534	0.978689
GOLGA2L1	-0.19691	-0.21057	0.044341	-0.27235	0.142064	0.119299	0.743283	0.040409	-0.25043	-0.36384	-0.02342	-0.32967	0.046612	0.006466	0.439317	0.012632
OTUD5	-0.01811	0.033609	0.201469	-0.18568	0.893629	0.805758	0.132886	0.166698	0.046203	-0.25578	0.312201	-0.26553	0.619779	0.04311	0.981596	0.037253
ZCCHC8	0.070003	0.232542	-0.21173	0.216518	0.604848	0.084587	0.113849	0.105724	0.030452	0.512208	-0.03407	0.254319	0.57961	0.999863	0.412075	0.955956
ITLN1	0.358448	-0.28944	0.348862	-0.13611	0.007205	0.033769	0.009044	0.321744	0.070338	-0.45387	0.081071	-0.36247	0.676931	0.00087	0.699563	0.007203
DDX60	-0.11287	-0.13724	-0.03608	0.542587	0.407529	0.317719	0.791803	1.56E-05	-0.18833	0.115047	0.047627	0.344085	0.107683	0.774138	0.620579	0.989677
CDKN2AIP	-0.09535	0.284098	-0.30562	0.262404	0.484541	0.035548	0.021988	0.050731	-0.06882	0.488759	-0.29096	0.340297	0.324761	0.999716	0.026247	0.989667
FAM46A	0.124957	0.046356	-0.08982	0.055069	0.358826	0.736817	0.510344	0.686869	0.39861	0.009792	0.206662	-0.07726	0.996964	0.525748	0.913412	0.304901
LRRC16A	0.078109	0.150672	-0.06604	0.283503	0.563584	0.267674	0.625505	0.032595	0.182013	0.479666	-0.10206	0.443976	0.886983	0.999628	0.252342	0.999002
KIF21A	-0.06529	0.159081	-0.23592	-0.20114	0.629433	0.241566	0.077277	0.133533	-0.20622	0.17618	-0.03505	-0.00377	0.084566	0.879244	0.409593	0.490082
PPP1R9A	-0.02989	-0.2789	0.198874	-0.22503	0.825317	0.037386	0.138059	0.092387	0.104781	-0.46705	0.239021	-0.42857	0.755849	0.000534	0.943095	0.001481
ANKRD10	0.059306	0.179536	-0.06094	0.382533	0.661229	0.185499	0.652472	0.003318	0.270612	0.35501	-0.10539	0.187895	0.965542	0.99226	0.245401	0.894435
ZNF280C	-0.00333	0.379904	-0.21375	0.108822	0.980392	0.003878	0.110362	0.420369	0.101881	0.426145	-0.04864	0.298566	0.749759	0.998426	0.375505	0.978073
CCDC132	0.020851	0.071017	-0.14947	0.232693	0.877646	0.602982	0.267117	0.081531	-0.06441	0.247275	-0.08575	0.188448	0.335308	0.951219	0.287722	0.895118
OTUB1	-0.03027	0.12484	-0.13802	-0.04125	0.823145	0.359281	0.305897	0.760642	-0.27889	0.455004	-0.18063	0.228709	0.030265	0.999256	0.117528	0.936847
FERMT1	0.032289	0.492305	-0.34551	0.014501	0.811544	0.000116	0.00848	0.914741	-0.09479	0.780581	-0.23947	0.533511	0.265453	1	0.056559	0.999933
MTMR8	0.21815	-0.05544	-0.01487	-0.04669	0.103058	0.684843	0.91256	0.730171	0.009199	0.097471	-0.02447	0.004085	0.524192	0.740349	0.436621	0.510748
KIF16B	0.032295	0.413189	-0.25021	-0.12821	0.811506	0.001551	0.060491	0.341889	0.063099	0.452272	-0.16098	0.334082	0.661514	0.999199	0.145394	0.98837
PRR5	-0.09398	-0.17776	0.15122	-0.01669	0.486812	0.189949	0.261495	0.901946	0.147428	-0.22562	0.079874	-0.15371	0.8359	0.065826	0.699014	0.153896
ASAP3	0.02148	-0.09455	0.231054	-0.03289	0.873989	0.488241	0.083763	0.808074	0.126373	-0.23147	0.025575	-0.1674	0.798669	0.060834	0.56622	0.133066
TASP1	-0.07331	0.044499	-0.06571	-0.07599	0.587872	0.74469	0.627204	0.574242	-0.05437	-0.03094	0.018099	-0.09968	0.359856	0.419131	0.546968	0.254911
DOCK10	0.032039	-0.14369	-0.02508	0.611529	0.812974	0.290725	0.853058	4.34E-07	-0.22785	0.107101	-0.09618	0.262017	0.068441	0.755522	0.269766	0.957116
PRKAA1	-0.03565	0.226072	-0.17317	0.071044	0.792332	0.09386	0.197666	0.59948	-0.01252	0.269031	-0.07853	0.16068	0.467088	0.964692	0.304068	0.856956
STAP2	-0.17597	0.21907	-0.19224	0.037576	0.19041	0.104767	0.151967	0.781393	-0.24723	0.690337	-0.35041	0.380603	0.048811	1	0.009142	0.995464
TRMT1	-0.04673	0.071675	0.006916	0.081894	0.729973	0.599624	0.95928	0.544775	-0.08412	0.356747	-0.16572	0.171859	0.289174	0.992526	0.138303	0.873283
TTC27	0.044326	0.157148	-0.19774	0.164515	0.743366	0.247408	0.140363	0.221368	-0.06114	0.446403	-0.24824	0.319378	0.34325	0.999064	0.050067	0.98475
THUMPD1	0.035284	0.203106	-0.23723	0.098442	0.796278	0.136954	0.078335	0.470408	0.22173	0.110772	-0.06286	0.114511	0.928382	0.765591	0.342614	0.773076
POMGNT1	0.19217	0.024934	0.108771	0.186663	0.152117	0.855262	0.420586	0.164436	0.29632	0.220768	-0.07924	0.174925	0.977228	0.929809	0.302431	0.877532
ZDHHC7	-0.00123	0.271996	-0.1463	0.051644	0.992741	0.042567	0.277502	0.702816	-0.07852	0.46782	-0.13947	0.257947	0.301987	0.999478	0.180433	0.958253
AMBRA1	-0.04612	-0.05679	0.012496	0.072796	0.733339	0.677593	0.926495	0.590482	0.084813	0.164873	0.086661	0.053807	0.712401	0.863234	0.714319	0.638762
SMPD4	-0.0755	0.272729	-0.01974	0.134726	0.583777	0.046016	0.886234	0.326747	-0.00598	0.381435	-0.25145	0.231214	0.484275	0.995546	0.047839	0.938954
ZNF407	0.143957	0.221929	0.003348	0.091392	0.285364	0.100201	0.980281	0.498962	0.167065	0.063823	-0.07557	0.030771	0.866441	0.663262	0.310865	0.580433
PRKAA2	0.013927	0.183036	-0.06175	-0.01794	0.918102	0.176933	0.648144	0.89462	0.092365	0.047213	0.053707	-0.09577	0.729241	0.622319	0.636978	0.263332
SLC39A4	0.032003	-0.11846	0.194566	-0.21701	0.813182	0.384564	0.146975	0.104912	0.11131	-0.3661	0.127296	-0.38883	0.769273	0.006171	0.79766	0.003786
LRRC40	0.056521	0.269863	-0.23898	0.161291	0.676239	0.044282	0.073401	0.230679	0.14428	0.525717	-0.02284	0.355964	0.830627	0.999912	0.440795	0.992408
G2E3	-0.00664	0.223287	-0.23766	0.141019	0.960887	0.098087	0.075057	0.295412	0.087193	0.363731	0.010068	0.263994	0.717758	0.993519	0.526167	0.961871
TBC1D22B	-0.10187	0.034695	0.0108	-0.20949	0.455036	0.801453	0.937036	0.121243	-0.15844	-0.04104	-0.10435	-0.07526	0.149275	0.394478	0.250133	0.3116
ZNF673	0.004617	0.158401	0.002925	0.139384	0.972811	0.243612	0.982774	0.301103	0.18641	0.217287	0.125727	0.233319	0.892587	0.926548	0.794729	0.940682
DEPDC1	0.145868	0.173019	0.057875	-0.08891	0.283403	0.20651	0.671799	0.514664	-0.05221	0.539651	0.07048	0.328475	0.366698	0.999935	0.675308	0.986203
CHD7	-0.24218	0.306407	-0.22952	-0.26804	0.069515	0.021632	0.085898	0.043813	-0.19051	0.005213	-0.08583	-0.08275	0.10236	0.513715	0.287542	0.292278

GOLSYN	-0.09229	0.128837	-0.13424	-0.17919	0.494748	0.343979	0.319467	0.182306	-0.13871	0.290838	-0.0445	0.115434	0.17896	0.975054	0.385806	0.777543
PRKAB1	-0.02212	0.231879	0.090174	-0.01981	0.870253	0.085503	0.504721	0.883702	-0.09932	0.444486	-0.2577	0.267348	0.255693	0.999015	0.043717	0.963768
FLVCR2	-0.02424	-0.15462	0.181975	0.224202	0.857977	0.255182	0.175486	0.09362	0.107763	-0.11576	0.156812	-0.04757	0.759473	0.22445	0.845312	0.378177
BTBD2	0.002137	-0.15546	0.012962	0.025792	0.987413	0.252592	0.923759	0.84896	0.004265	0.13847	-0.05138	0.05837	0.511092	0.817829	0.370231	0.648349
OSGEP	-0.0823	0.130359	-0.20773	0.300565	0.54279	0.338259	0.121001	0.023101	-0.08194	0.265054	-0.20912	0.191965	0.294127	0.962478	0.084004	0.899386
LYAR	-0.03091	0.235864	-0.26907	0.331431	0.821066	0.082992	0.044935	0.012587	-0.08362	0.578728	-0.25329	0.475465	0.290303	0.999987	0.046596	0.99958
RAB20	-0.26524	-0.06907	0.063906	-0.23785	0.046148	0.612992	0.636731	0.074819	-0.10708	-0.29576	0.014505	-0.32757	0.239369	0.022986	0.537673	0.013132
PRKAB2	0.137829	0.082444	0.057274	-0.13026	0.306582	0.545796	0.672165	0.334166	0.233721	-0.011	0.14457	-0.0435	0.941007	0.471077	0.828309	0.387031
PIGV	-0.19768	0.197743	-0.13634	0.009536	0.144181	0.144051	0.316367	0.944388	-0.40082	0.505648	-0.37356	0.205708	0.002886	0.999831	0.005742	0.914891
NHP2	0.06693	0.089252	0.073004	-0.31962	0.620833	0.513019	0.589421	0.015371	-0.25723	0.092488	-0.26415	0.125552	0.042191	0.729511	0.039766	0.797125
SLC48A1	-0.03197	0.230319	-0.04575	-0.03062	0.815061	0.087688	0.737752	0.822714	0.090823	-0.03677	-0.03884	0.031464	0.725841	0.404165	0.400016	0.58222
BCAS4	-0.15788	-0.24368	0.178051	-0.11689	0.240821	0.070327	0.185142	0.386521	-0.0777	-0.30338	0.08921	-0.16107	0.303875	0.020204	0.719974	0.142447
TMEM127	0.035425	0.18651	-0.07761	0.236987	0.793621	0.168716	0.566097	0.075906	-0.15654	0.508642	-0.19697	0.336269	0.149426	0.999847	0.097339	0.988841
NLRP2	0.082679	-0.04844	0.086145	-0.06141	0.540915	0.722922	0.524023	0.649967	-0.24664	0.110553	0.08683	0.154486	0.04923	0.767739	0.714696	0.847344
INTS8	-0.01696	0.182021	-0.14206	0.074666	0.900343	0.179387	0.29184	0.58095	-0.08496	0.296126	-0.08108	0.246275	0.287262	0.977153	0.298236	0.950516
ZNF692	-0.09036	-0.02511	0.110514	-0.06184	0.503851	0.85428	0.413136	0.647673	-0.02086	0.149439	-0.08448	-0.04123	0.445291	0.839213	0.290569	0.392794
RNF126	-0.00272	-0.01705	0.134574	-0.11015	0.984126	0.90166	0.322736	0.418993	0.002835	0.060444	-0.08343	-0.0282	0.50746	0.655066	0.292932	0.426205
ZNF416	-0.00764	0.073744	-0.09926	0.050903	0.95541	0.592604	0.466698	0.709464	0.055371	-0.10109	0.044686	-0.12681	0.642627	0.251926	0.614656	0.200514
PRKACA	0.130658	-0.18509	0.152115	0.010232	0.332668	0.172044	0.258649	0.939787	-0.13676	0.103819	-0.00116	0.164429	0.182398	0.753837	0.49698	0.862578
PRPF40A	-0.0308	0.259991	-0.32916	0.153225	0.82011	0.052974	0.012415	0.255151	0.001755	0.43468	-0.16083	0.320799	0.504617	0.99873	0.145611	0.985136
DDX27	0.144603	0.023499	-0.21467	-0.09715	0.287643	0.864777	0.112108	0.47629	-0.09108	0.392222	-0.04033	0.199216	0.273591	0.99649	0.396256	0.907797
HIF1AN	-0.03604	0.132298	-0.2984	0.098804	0.790143	0.331061	0.024159	0.464647	-0.22325	0.545578	-0.2182	0.304459	0.070222	0.999947	0.077383	0.978997
ZNF446	-0.12476	-0.19111	0.150266	-0.23608	0.355122	0.158275	0.264553	0.07707	-0.02104	-0.31518	0.102104	-0.3428	0.444806	0.01644	0.747743	0.009846
CDC37L1	0.112004	0.201497	-0.22315	0.033216	0.406826	0.13644	0.095212	0.806232	0.21572	0.265976	-0.05905	0.221266	0.925043	0.963001	0.350015	0.930267
URG4	-0.10213	0.091325	-0.08431	-0.00616	0.449663	0.503241	0.532931	0.963752	-0.17207	0.224236	-0.28436	0.193821	0.126417	0.932952	0.029167	0.90159
NPLOC4	-0.24181	0.394164	-0.20092	0.266179	0.072578	0.002905	0.137591	0.047378	-0.13391	0.723335	-0.22058	0.48419	0.190247	1	0.075095	0.999624
DENND4C	0.081934	0.101967	-0.16137	0.108729	0.54458	0.454587	0.230449	0.420768	0.127223	0.278738	-0.02028	0.246395	0.800261	0.969661	0.447392	0.9506
C14orf118	0.133918	0.207248	-0.19999	0.228055	0.320642	0.125371	0.135821	0.087972	0.207519	0.340948	-0.02199	0.222352	0.916798	0.989795	0.443002	0.931258
MFN1	-0.02986	0.185607	-0.16503	0.165359	0.82551	0.170825	0.219905	0.218976	0.008599	0.246171	-0.11834	0.120314	0.522614	0.950442	0.219394	0.787116
PRKACB	0.163596	-0.04495	-0.15202	0.269545	0.223995	0.742186	0.258948	0.042598	0.088468	-0.07357	0.070266	0.101743	0.720609	0.313524	0.676763	0.749466
PEX26	0.080262	0.02786	0.210396	-0.04972	0.552847	0.838495	0.116204	0.713409	0.092902	-0.17527	0.079988	-0.21514	0.73042	0.12199	0.699273	0.075523
SMEK1	-0.02248	0.331988	-0.28338	0.167874	0.868144	0.012431	0.032676	0.21195	-0.0743	0.53591	-0.21342	0.401259	0.311799	0.999938	0.079615	0.997143
NBPF1	0.062629	0.076313	0.062465	0.057353	0.643496	0.576154	0.644368	0.671741	-0.04379	0.316638	-0.12995	0.20624	0.3863	0.983981	0.197442	0.915454
SLC30A6	-0.01765	0.298377	-0.30285	0.2537	0.896315	0.025507	0.022027	0.056878	0.006425	0.524427	-0.14674	0.418443	0.516902	0.999908	0.168051	0.998098
IWS1	-0.04133	0.343203	-0.18289	0.092418	0.760191	0.00961	0.173289	0.494135	-0.13653	0.396289	-0.0784	0.25981	0.182795	0.996799	0.304349	0.959395
LIMS2	0.341322	-0.34584	0.445053	0.032649	0.009367	0.009035	0.000523	0.809481	0.391881	-0.48072	0.310756	-0.23499	0.996464	0.00036	0.981132	0.057974
PRKACG	-0.06439	-0.10798	0.104828	-0.21448	0.634172	0.428264	0.437723	0.109132	0.073882	-0.38784	0.116433	-0.24078	0.687215	0.00387	0.776873	0.05349
RUFY2	0.067209	0.159614	-0.092	-0.1186	0.619374	0.239972	0.496105	0.379563	0.17703	-0.04714	0.035295	-0.11569	0.880394	0.377862	0.591022	0.221943
SCYL2	0.006709	0.362453	-0.27566	0.119581	0.960494	0.006047	0.037939	0.375617	0.049721	0.415218	-0.17787	0.370081	0.628599	0.997944	0.12121	0.994322
KIAA1310	-0.02378	0.276451	-0.14491	0.196117	0.860624	0.039161	0.282151	0.143717	-0.02057	0.372485	-0.27808	0.185556	0.446032	0.994602	0.032186	0.891515
C9orf86	0.049083	-0.16877	0.204927	-0.12344	0.716922	0.213707	0.126222	0.360302	0.032664	-0.14659	-0.00893	-0.10418	0.585312	0.165501	0.476774	0.245397
MREG	-0.10945	0.527471	-0.21496	0.138754	0.421999	3.50E-05	0.111607	0.307792	-0.20631	0.639389	-0.2478	0.423462	0.084475	0.999999	0.050378	0.998318
TRMU	-0.22244	0.195407	0.021832	0.272158	0.102624	0.156765	0.874289	0.044416	0.00867	0.040626	-0.18342	-0.20459	0.522801	0.605676	0.113895	0.086301
YEATS2	0.144798	0.359802	0.006438	0.088072	0.282528	0.006456	0.962091	0.514748	0.022788	0.506236	-0.10825	0.396529	0.559745	0.999834	0.239527	0.996816
PKIA	0.194876	-0.04884	0.010584	0.111702	0.14632	0.720747	0.937715	0.4081	-0.12596	0.150349	-0.08533	0.24591	0.202105	0.8407	0.288654	0.950257
PACS1	0.100643	-0.1127	0.23763	0.06123	0.456331	0.408228	0.075091	0.65094	-0.01723	-0.11953	-0.02078	-0.10698	0.454756	0.214412	0.446123	0.239575
FRMD4A	0.3459	-0.20002	0.40245	0.200154	0.009021	0.143157	0.002106	0.139127	0.216783	-0.20977	0.200895	-0.11001	0.926066	0.080875	0.907126	0.23337
LUC7L	0.011603	0.221864	-0.02217	0.151737	0.931737	0.100304	0.869989	0.259848	0.207133	-0.15156	0.218458	-0.12867	0.916393	0.157336	0.925307	0.197054
JMJD2D	-0.14815	-0.19541	0.090653	-0.32296	0.271409	0.148933	0.502453	0.014272	-0.11795	-0.21341	0.057538	-0.20506	0.217489	0.077213	0.646329	0.0858
NSUN5	-0.16962	-0.08418	-0.0076	-0.00472	0.207157	0.537362	0.955246	0.97221	-0.13862	0.106474	-0.22429	-0.04105	0.179121	0.759369	0.069274	0.393258

RBM22	0.086886	0.242525	-0.21719	0.096736	0.520445	0.071711	0.10462	0.474087	-0.0923	0.506843	-0.15999	0.318423	0.270904	0.999837	0.146906	0.984486
VAC14	-0.1031	0.137885	-0.05576	0.208919	0.445354	0.310863	0.680363	0.118849	-0.21225	0.566049	-0.35324	0.34904	0.078366	0.999979	0.008651	0.991284
RADIL	0.103572	-0.18402	0.386369	-0.20869	0.443265	0.174579	0.002991	0.119259	0.218053	-0.48863	0.329556	-0.38237	0.927275	0.000285	0.986471	0.004365
IARS2	0.030731	0.166717	-0.3236	0.00188	0.820479	0.219421	0.014071	0.988924	-0.24816	0.471431	-0.26583	0.36039	0.048167	0.999529	0.038785	0.993059
PKIB	-0.11509	-0.00315	-0.04962	-0.1589	0.402742	0.981982	0.719014	0.246547	-0.07256	-0.18115	-0.06141	-0.261	0.315884	0.114139	0.344297	0.039888
MAP7D1	-0.09021	-0.06161	0.116591	-0.0824	0.508507	0.654969	0.392146	0.546005	0.133307	-0.1714	0.219023	-0.12585	0.811436	0.12736	0.925844	0.202307
FLJ10357	0.203508	-0.37928	0.223175	0.017018	0.128925	0.003942	0.095172	0.900015	0.13884	-0.27479	0.174014	-0.15744	0.818477	0.033865	0.870698	0.150837
CCDC94	-0.00136	0.026625	0.111929	-0.22289	0.991971	0.845562	0.407143	0.095608	-0.0481	-0.00536	0.032256	-0.29724	0.375458	0.485902	0.5833	0.022421
POLR3B	0.104575	0.340317	-0.07763	0.013923	0.438837	0.010277	0.565984	0.918128	-0.10149	0.481621	-0.14639	0.335909	0.251064	0.999649	0.168643	0.988764
CCDC88A	0.343483	-0.19123	0.060084	0.266589	0.008899	0.15801	0.65706	0.045011	0.548443	-0.04614	0.277279	0.108982	0.999952	0.381731	0.965789	0.761962
IPO9	0.114824	0.256749	-0.16902	0.242721	0.395039	0.056113	0.208797	0.068878	-0.0514	0.601353	-0.16651	0.437002	0.367212	0.999995	0.137155	0.998804
TMEM48	0.015244	0.230429	-0.2013	0.213368	0.911211	0.090547	0.136829	0.114352	-0.12156	0.617206	-0.3034	0.436214	0.210485	0.999998	0.021381	0.998779
NECAP2	-0.06055	0.015833	-0.06695	0.103446	0.657537	0.907794	0.623927	0.448032	-0.44661	0.33661	-0.23521	0.327472	0.000931	0.988913	0.059936	0.986843
KBTBD4	-0.11509	0.105518	-0.1928	-0.08157	0.39395	0.438944	0.150761	0.546373	-0.33791	0.111021	-0.10111	0.123857	0.010817	0.768689	0.254342	0.793916
PRKAG1	0.02752	0.332906	-0.22834	0.130475	0.838971	0.012176	0.087568	0.333354	-0.01718	0.516651	-0.08318	0.306719	0.454885	0.999881	0.293482	0.980927
FAR2	-0.21466	0.1501	-0.25424	0.068589	0.108829	0.269513	0.056338	0.61218	-0.25455	0.410878	-0.14833	0.376514	0.043894	0.997719	0.165414	0.995046
ZNF334	0.033038	-0.17872	0.156765	-0.2844	0.80725	0.187547	0.244202	0.032027	0.108783	-0.44959	0.217919	-0.35114	0.764126	0.000861	0.924791	0.008361
ODZ3	0.40064	-0.18011	0.228964	0.033181	0.002215	0.188223	0.089622	0.808183	0.285158	-0.33243	0.309878	-0.2689	0.969689	0.013735	0.978423	0.038782
DOK4	-0.00072	0.054203	-0.08237	-0.07124	0.995757	0.691545	0.542415	0.59846	-0.15404	0.256409	-0.13573	0.168892	0.156178	0.955453	0.189845	0.8663
LMBR1L	-0.03461	-0.05053	0.005928	0.265075	0.798281	0.711484	0.965093	0.04629	0.11321	-0.08444	0.054091	-0.05054	0.770486	0.290654	0.636352	0.370808
BRWD2	-0.02695	0.265875	-0.2314	0.154646	0.84229	0.047641	0.083292	0.250717	-0.00655	0.364674	-0.03799	0.193749	0.482758	0.993644	0.402164	0.901505
POLR3E	-0.17167	0.093087	-0.07735	0.078507	0.20165	0.495003	0.567376	0.561592	-0.11479	0.308078	-0.25435	0.033058	0.223744	0.981372	0.045893	0.586324
FAM178A	0.007574	0.13912	-0.19413	0.223715	0.95541	0.306505	0.147896	0.094354	0.01538	0.347517	-0.04445	0.267142	0.540401	0.991019	0.385943	0.963654
TSR1	-0.04674	0.453103	-0.17279	0.195469	0.732302	0.000513	0.202844	0.148813	-0.02018	0.605783	-0.24243	0.453878	0.447059	0.999996	0.054298	0.999233
IQCC	-0.24931	-0.1858	0.030998	-0.41137	0.061455	0.170378	0.818945	0.001478	-0.03322	-0.32855	-0.0792	-0.33646	0.413269	0.012898	0.302524	0.011119
CEP72	-0.14029	0.219609	-0.09951	-0.05853	0.297935	0.103894	0.461456	0.665401	-0.14077	0.234934	-0.09857	0.145128	0.175384	0.941982	0.259728	0.832056
ASF1B	-0.199	0.160851	-0.08893	-0.05833	0.14147	0.240732	0.514562	0.669375	-0.22701	0.631042	-0.23528	0.442022	0.064612	0.999999	0.059876	0.998949
C12orf11	-0.07518	0.321693	-0.33524	0.059436	0.578316	0.01562	0.010797	0.66053	-0.00191	0.434107	-0.02573	0.266636	0.494979	0.998712	0.433381	0.963372
BTBD7	0.140548	0.234419	-0.21439	0.058257	0.297045	0.082037	0.109279	0.666868	-0.11955	0.564944	-0.2655	0.394061	0.214369	0.999978	0.038976	0.996633
N4BP2	-0.00743	0.138356	-0.10129	0.175065	0.956239	0.309196	0.453415	0.192741	-0.014	0.257298	-0.15119	0.212063	0.463203	0.957849	0.160747	0.921444
ATF7IP	0.054932	0.058562	-0.14336	0.289825	0.684853	0.668124	0.287399	0.028755	0.059009	0.317911	0.043263	0.380478	0.651563	0.984342	0.611098	0.995452
PRKAR1A	0.054182	-0.00669	-0.11455	0.061723	0.68894	0.96099	0.396187	0.648311	-0.1801	0.176309	-0.07217	0.109604	0.115514	0.879418	0.318774	0.765805
C17orf63	-0.02245	-0.06256	0.128123	-0.20953	0.868368	0.646929	0.342213	0.117754	0.257883	-0.28887	0.273027	-0.28785	0.958213	0.025766	0.96521	0.0262
C1orf112	-0.07943	0.226271	-0.24766	0.067537	0.556982	0.093564	0.063253	0.61766	-0.05629	0.196177	0.046166	0.067451	0.356712	0.901745	0.616986	0.67012
HHAT	-0.13957	0.036316	-0.06335	-0.14692	0.30045	0.790452	0.639656	0.275459	-0.27042	-0.1503	-0.06242	-0.12662	0.034561	0.15938	0.341868	0.200876
ZFP64	-0.16548	0.389393	-0.25533	-0.06808	0.218623	0.003014	0.055247	0.614824	-0.21123	0.632554	-0.15001	0.396071	0.079396	0.999999	0.162669	0.996783
DNAJC11	-0.14917	0.19365	-0.0831	0.101572	0.272542	0.156597	0.542611	0.456343	-0.16832	0.625514	-0.19732	0.403928	0.131747	0.999998	0.096936	0.997314
VPS35	-0.0152	0.093116	-0.21414	0.031687	0.910624	0.494868	0.109701	0.814992	-0.17532	0.328161	-0.15105	0.273758	0.121923	0.98701	0.160968	0.967187
ARFGAP1	-0.00869	-0.12364	0.210663	-0.15567	0.948861	0.363944	0.115731	0.247548	0.056846	-0.155	0.030473	-0.21322	0.64626	0.151848	0.578756	0.077406
CARKD	-0.10164	0.224568	-0.02768	0.289892	0.45184	0.096125	0.83805	0.028717	-0.07376	0.435743	-0.24791	0.254642	0.313072	0.998764	0.050298	0.956165
ENAH	-0.01485	-0.09036	-0.0058	-0.30118	0.912675	0.507772	0.965826	0.022807	-0.1643	-0.27235	0.097066	-0.16406	0.13762	0.033541	0.737062	0.13797
EDEM2	-0.05926	0.050419	-0.06173	0.296174	0.661464	0.712109	0.648249	0.025288	-0.08405	0.460501	-0.24399	0.274528	0.289328	0.99936	0.053133	0.967579
PARVA	0.047698	-0.09673	0.018955	-0.18449	0.729483	0.486547	0.890751	0.177541	-0.04006	-0.07401	0.095322	-0.00375	0.395771	0.312495	0.733314	0.490123
CHFR	-0.26209	0.127462	-0.10898	0.147142	0.048895	0.349196	0.419689	0.274726	-0.19969	0.385853	-0.35204	0.174711	0.091676	0.995956	0.008857	0.87724
C7orf44	-0.0517	0.272153	-0.1893	0.161658	0.702506	0.042443	0.158442	0.229608	-0.02987	0.557116	-0.15212	0.298858	0.421891	0.999971	0.159242	0.978181
MUDENG	-0.05681	0.361988	-0.26927	0.117883	0.674664	0.006117	0.042821	0.382484	-0.0592	0.540411	-0.14482	0.344706	0.347962	0.999947	0.171277	0.990511
NUP133	0.0805	0.193998	-0.27914	0.113473	0.551667	0.151957	0.035485	0.40066	-0.07303	0.439641	-0.14487	0.298146	0.314777	0.998882	0.171181	0.977916
CNDP2	-0.24763	0.135442	-0.17942	0.136078	0.06329	0.319596	0.181733	0.312826	-0.41302	0.460175	-0.23392	0.295551	0.002168	0.999354	0.060983	0.976932
CCAR1	-0.09247	0.361213	-0.27342	0.084143	0.493874	0.006236	0.039597	0.533744	-0.10388	0.419942	-0.21453	0.295479	0.246026	0.998166	0.07851	0.976904
PRKAR1B	0.261684	0.077377	0.258492	-0.03646	0.049263	0.570829	0.052201	0.787757	0.080363	-0.16007	-0.13758	-0.13573	0.702259	0.143968	0.183739	0.184213

AGK	-0.00142	0.209369	-0.28255	0.10681	0.991662	0.121465	0.033206	0.429062	-0.09984	0.370316	-0.12501	0.394939	0.254583	0.99435	0.206624	0.996699
TMEM184C	0.048573	0.288569	-0.27056	0.22312	0.719738	0.031017	0.041794	0.095256	-0.01699	0.569719	-0.08777	0.450775	0.455379	0.999982	0.283208	0.999166
Sep-11	0.299574	0.100652	-0.13419	0.253422	0.024895	0.464675	0.324118	0.05949	0.088203	0.355421	0.08693	0.421483	0.720019	0.992324	0.714919	0.998234
OGDHL	0.03411	-0.03719	0.23532	-0.38069	0.802919	0.787488	0.080834	0.003798	0.005625	-0.24795	0.019776	-0.24095	0.514798	0.048312	0.551297	0.053359
TMEM30A	0.087735	0.136525	-0.21254	0.285397	0.516361	0.315706	0.112442	0.031402	0.002626	0.383124	-0.14544	0.376353	0.506911	0.995707	0.170229	0.995029
CDK5RAP2	-0.01921	0.142386	0.007715	-0.05561	0.887232	0.295176	0.954577	0.681167	0.031126	0.105327	0.064571	0.05941	0.58135	0.756988	0.663271	0.652544
INTS9	-0.08544	0.33578	-0.30353	0.054213	0.527444	0.011406	0.021716	0.688766	-0.09546	0.566812	-0.17344	0.396751	0.264002	0.99998	0.127267	0.996832
UGCGL2	0.073618	0.182404	-0.06077	0.19188	0.586285	0.178457	0.653395	0.152749	0.274994	0.186843	0.091151	0.12477	0.967815	0.893128	0.724244	0.795649
RCOR3	0.04605	0.177155	-0.07746	0.087064	0.733745	0.191496	0.566858	0.519587	0.235413	-0.0137	0.13514	-0.04788	0.942364	0.463997	0.81195	0.376018
WDR12	-0.04033	0.38675	-0.38011	0.222024	0.765792	0.003236	0.00354	0.096935	-0.14899	0.62524	-0.30248	0.456968	0.161521	0.999998	0.021714	0.999295
PRKAR2A	-0.01062	0.215337	-0.17573	-0.0461	0.938104	0.114362	0.19514	0.735819	-0.17802	0.486234	-0.16651	0.295013	0.118275	0.999694	0.137147	0.976724
DHX32	-0.19172	0.174092	-0.24281	-0.06908	0.153093	0.199413	0.068775	0.609642	-0.28638	0.227486	-0.05738	0.087815	0.026835	0.9358	0.354053	0.719152
TTC17	-0.03752	0.322181	-0.15973	0.117017	0.781697	0.015454	0.235273	0.386015	0.106191	0.311303	-0.18112	0.095645	0.758782	0.982393	0.116887	0.736402
ZNF701	-0.08103	0.184298	-0.122	0.054565	0.54904	0.173914	0.365965	0.68685	0.02107	0.246685	-0.0639	0.010403	0.555269	0.950805	0.338328	0.527353
EXOC1	-0.06045	0.372827	-0.32083	0.033769	0.655123	0.004657	0.014965	0.803072	-0.07812	0.511136	-0.13395	0.346204	0.302907	0.999858	0.190179	0.990785
IFT122	-0.09768	-0.21196	-0.00932	-0.30893	0.469762	0.116813	0.945136	0.019375	-0.26868	-0.27317	-0.01121	-0.19574	0.035502	0.033115	0.470881	0.096172
C1orf106	-0.17152	0.323765	-0.1149	-0.19579	0.202048	0.014927	0.394737	0.144406	-0.18905	0.511286	-0.22206	0.183822	0.104145	0.999859	0.071315	0.889314
H2AFJ	-0.1308	-0.15446	0.100885	-0.17272	0.332124	0.255685	0.455245	0.198868	0.148167	-0.67822	-0.02877	-0.53978	0.837122	1.12E-07	0.425603	5.41E-05
NGLY1	-0.0365	0.204288	-0.22368	0.307873	0.787476	0.130981	0.094408	0.019817	-0.04869	0.463042	-0.09583	0.361314	0.373991	0.999403	0.265581	0.993189
ZNF83	0.080519	0.101741	-0.08673	0.106551	0.551572	0.45559	0.521218	0.430188	0.247422	-0.17244	0.083128	0.00708	0.951321	0.125901	0.706397	0.518623
PRKAR2B	0.213131	-0.49294	0.163943	0.043458	0.111428	0.000114	0.223	0.748222	0.350697	-0.77608	0.197091	-0.49707	0.990909	1.89E-10	0.900138	0.000257
EXOC2	0.10559	0.107569	-0.13004	0.333154	0.434384	0.430047	0.334978	0.011331	0.03982	0.413566	-0.0936	0.352693	0.603626	0.997861	0.270416	0.991893
PRR11	-0.02816	0.234625	-0.08672	-0.13335	0.836796	0.084668	0.525074	0.327198	-0.13149	0.562306	-0.13921	0.274276	0.191853	0.999976	0.180877	0.967451
TBC1D23	0.085297	0.214097	-0.20096	0.199317	0.52813	0.11309	0.133899	0.137164	0.109432	0.403018	-0.1039	0.242015	0.765454	0.997257	0.248504	0.947431
TDP1	-0.12605	0.124096	-0.31769	0.009054	0.350149	0.362172	0.016036	0.946707	-0.33406	0.537708	-0.25936	0.315372	0.011636	0.999942	0.042677	0.983616
C6orf64	-0.21238	0.160802	-0.20231	0.075765	0.112732	0.236447	0.131244	0.57538	-0.11492	0.237488	-0.27027	0.017706	0.226118	0.941892	0.038001	0.545954
MBD5	0.068491	-0.09009	-0.11776	0.020922	0.61269	0.509069	0.382965	0.877236	0.12984	-0.27732	-0.00424	-0.09105	0.805115	0.031028	0.488975	0.27366
ZNF839	-0.15297	-0.06101	0.27814	-0.15215	0.260345	0.658125	0.03793	0.262962	-0.121	-0.1191	0.004926	-0.17517	0.211566	0.215241	0.512811	0.122129
WDR52	-0.10188	-0.04697	0.012419	-0.22055	0.450785	0.731045	0.926946	0.099232	-0.08534	-0.25906	0.108224	-0.20493	0.286416	0.041064	0.760415	0.085935
PRKCA	0.196897	-0.0136	0.028914	-0.02665	0.142098	0.920754	0.830934	0.843986	0.38728	-0.13547	0.27191	-0.12513	0.996082	0.184682	0.964612	0.20368
C6orf70	0.026503	0.105507	-0.10204	0.036584	0.844848	0.438991	0.450077	0.787023	0.135602	0.135508	-0.08389	0.1646	0.815554	0.815386	0.291885	0.862831
RIOK2	0.020607	0.191988	-0.30947	0.213192	0.879071	0.15633	0.019154	0.111324	-0.0663	0.413359	-0.16014	0.24767	0.330781	0.99785	0.146668	0.951494
FTSJD1	-0.03465	0.292018	-0.3053	0.087534	0.798042	0.028976	0.020923	0.517327	-0.02734	0.358449	0.007178	0.154874	0.428433	0.99278	0.518663	0.847958
MCTP2	-0.08757	0.369214	-0.07622	0.164719	0.517163	0.005105	0.573077	0.220788	0.035544	0.314195	-0.13791	0.160793	0.592706	0.98327	0.183154	0.857127
FGD6	0.104394	0.355626	-0.18894	0.17384	0.439635	0.00715	0.159253	0.195922	0.111075	0.545192	-0.12932	0.430813	0.768798	0.999955	0.19859	0.9986
ZNF415	0.113504	-0.09565	0.034267	-0.03536	0.40053	0.48317	0.800226	0.793992	0.070213	-0.0593	0.113459	0.032555	0.67856	0.347714	0.770983	0.585031
CXorf15	0.105494	0.065708	0.114127	-0.16821	0.434801	0.630416	0.397935	0.211033	0.076504	0.019789	0.179635	0.070497	0.69334	0.551928	0.881149	0.679233
LMBRD1	0.017363	0.181259	-0.18912	0.053411	0.897998	0.181245	0.158863	0.693143	-0.02126	0.150146	-0.06487	0.193117	0.444244	0.840369	0.336022	0.900758
DEPDC1B	-0.00212	0.132031	-0.05008	-0.22441	0.987605	0.336604	0.713937	0.096365	-0.05376	0.363428	-0.00617	0.14636	0.362885	0.992934	0.484144	0.831312
PRKCB	0.193506	-0.43131	0.191766	0.278798	0.149233	0.000904	0.152997	0.035722	0.003053	-0.53716	0.261416	-0.24241	0.508033	5.93E-05	0.958593	0.052273
CSGALNAC	0.497057	-0.36867	0.325147	0.226796	9.74E-05	0.005612	0.01448	0.092785	0.502875	-0.27467	0.364362	-0.15978	0.999785	0.033924	0.992483	0.147216
C1orf103	-0.00626	0.080252	-0.13581	0.187351	0.96314	0.556562	0.313802	0.162857	0.141551	0.105443	0.074846	0.114304	0.825971	0.757229	0.687452	0.775295
FAM63A	0.083567	-0.27414	0.039612	0.007414	0.536563	0.040897	0.769862	0.956348	0.037407	-0.07208	0.038786	-0.08744	0.597473	0.317023	0.599849	0.281679
DDX28	-0.17657	-0.17364	-0.05762	0.102755	0.188881	0.200593	0.670324	0.44689	-0.15354	-0.14652	0.000288	0.066121	0.154164	0.165604	0.50075	0.668795
PCID2	-0.00814	0.245338	-0.16196	0.292705	0.952082	0.06838	0.228724	0.027136	0.072599	0.383287	-0.15917	0.270354	0.684199	0.995722	0.14815	0.965405
MBNL3	0.012605	0.202063	-0.41995	0.113943	0.925857	0.135321	0.001146	0.398699	-0.057	0.312369	-0.23065	0.131369	0.354972	0.981649	0.065998	0.805158
METTL2B	0.037589	0.254205	-0.25888	0.064858	0.781318	0.058681	0.051833	0.631708	0.008399	0.371564	-0.07877	0.282258	0.522089	0.994496	0.303513	0.971318
CACNA2D3	0.173148	0.334751	-0.02205	-0.06611	0.197736	0.011677	0.870683	0.625137	0.279014	-0.00504	-0.02623	-0.07134	0.969793	0.486748	0.432091	0.318771
AXL	0.213773	-0.16129	0.262256	0.100381	0.11708	0.243961	0.05308	0.465885	0.317447	-0.15595	0.305173	0.010286	0.984211	0.150345	0.979248	0.527044
PRKCD	-0.20349	0.124941	-0.2354	-0.14774	0.132518	0.363416	0.080728	0.277214	-0.26101	0.156494	-0.09493	-0.12358	0.039885	0.850505	0.267539	0.206613

SCN3B	-0.02287	-0.14315	0.164318	-0.11375	0.865917	0.292582	0.22193	0.399516	0.18956	-0.24584	0.127034	-0.17005	0.896482	0.049791	0.797172	0.129276
IL26	-0.09639	-0.09665	0.154025	-0.09365	0.479757	0.482715	0.257047	0.492383	0.051984	-0.38654	0.107235	-0.25187	0.632747	0.00436	0.755795	0.047553
DCP1A	0.099969	0.307096	-0.09544	0.284205	0.459369	0.021324	0.480059	0.032148	0.045825	0.481814	-0.14582	0.448598	0.618828	0.999651	0.169582	0.999116
ADAP2	-0.15101	-0.35837	0.295081	0.244679	0.262162	0.006688	0.025858	0.066602	-0.25819	-0.20414	0.110751	0.064889	0.041597	0.08679	0.765549	0.665834
LRP2BP	-0.06191	-0.10946	0.02665	-0.35124	0.647318	0.421946	0.843997	0.007385	-0.2402	-0.34249	-0.15837	-0.24926	0.055993	0.01064	0.152259	0.049349
HR	-0.01438	0.099329	-0.03733	-0.11007	0.915427	0.466401	0.782793	0.415006	0.188303	0.129195	-0.03231	0.031059	0.894939	0.803924	0.416573	0.581176
ST6GALNAI	-0.24582	0.198259	-0.04642	-0.11979	0.067817	0.146779	0.734092	0.379205	-0.28321	0.360662	-0.26225	0.056626	0.028249	0.993098	0.040901	0.645719
TRERF1	-0.1333	0.016273	-0.12671	-0.50501	0.322913	0.905243	0.347621	6.17E-05	-0.23706	-0.00768	-0.01781	-0.18507	0.058449	0.480041	0.454314	0.111778
PRKCE	-0.04578	-0.29355	0.083632	-0.19659	0.735265	0.028106	0.536241	0.142743	0.061627	-0.3608	0.131288	-0.32056	0.656216	0.007449	0.802194	0.015902
FOXJ2	0.083326	-0.12534	0.103749	0.038902	0.537742	0.357329	0.44248	0.773876	0.201273	0.106473	0.056017	-0.02946	0.910089	0.759366	0.642625	0.422958
ADCY10	0.010665	-0.17603	0.419258	-0.15398	0.937817	0.198605	0.001299	0.2572	-0.02435	-0.2818	0.038249	-0.14967	0.436202	0.028893	0.598495	0.160416
SPATA7	-0.00372	-0.08849	-0.08799	-0.24264	0.978072	0.516659	0.51513	0.068977	-0.1503	-0.30346	0.121695	-0.17637	0.159376	0.020175	0.787086	0.120492
UTP6	-0.03024	0.265909	-0.28771	0.259906	0.823323	0.047611	0.029995	0.050882	0.050264	0.482378	-0.17328	0.384941	0.629955	0.999657	0.127486	0.995874
BDP1	-0.05807	0.185858	-0.24489	0.132844	0.670732	0.174281	0.0689	0.329053	0.135317	0.195356	-0.04807	0.141175	0.815045	0.903385	0.376925	0.825323
TSNAXIP1	-0.21739	-0.18807	0.026902	-0.31837	0.104293	0.165117	0.842544	0.015797	-0.28177	-0.3503	-0.02295	-0.25012	0.028907	0.008502	0.44053	0.046825
DOK5	0.195722	-0.33967	0.109315	-0.15115	0.144542	0.010431	0.418252	0.261711	0.230463	-0.44475	0.327034	-0.25892	0.938327	0.000978	0.985838	0.041147
JMJD1A	0.045295	0.0533	-0.1153	-0.04338	0.737951	0.696432	0.393075	0.748685	-0.02988	0.092578	-0.00494	-0.01728	0.421874	0.729709	0.487142	0.454626
RNF130	0.036556	0.125845	-0.1605	-0.12561	0.789099	0.359929	0.237336	0.356293	-0.04408	-0.17255	-0.05185	0.006561	0.386847	0.128511	0.369103	0.51706
PRKCG	-0.05917	-0.15209	0.228517	-0.04362	0.661945	0.263158	0.087313	0.747306	0.091909	-0.39173	0.163635	-0.29827	0.728237	0.003549	0.858603	0.022037
ALLC	0.089504	-0.27812	0.280246	-0.32239	0.511826	0.039786	0.036439	0.015384	0.040078	-0.12882	0.181424	-0.17885	0.603103	0.199512	0.880721	0.11989
VPS11	-0.00211	1.57E-05	-0.22203	0.13553	0.987567	0.999908	0.096932	0.314798	-0.19507	0.326467	-0.10255	0.239035	0.096946	0.986597	0.251315	0.945188
PAG1	-0.0012	-0.18343	-0.02169	0.66097	0.992943	0.17599	0.87278	2.20E-08	0.055004	0.007196	0.152614	0.040923	0.641721	0.518927	0.841547	0.60643
PECR	-0.11055	-0.20209	-0.08296	-0.09032	0.412984	0.135266	0.539544	0.504036	-0.28357	-0.08248	0.099448	-0.0376	0.028085	0.292892	0.74214	0.402036
IQWD1	0.01455	-0.06538	-0.09	-0.01802	0.914453	0.6321	0.505556	0.894141	0.228691	-0.3463	0.219235	-0.30557	0.936832	0.009198	0.926045	0.019455
SELS	0.001475	-0.02074	-0.02419	0.323803	0.991314	0.879396	0.858231	0.014007	0.006019	0.30241	-0.15769	0.021682	0.515835	0.979459	0.150439	0.556865
PRKCH	0.203953	0.096915	-0.04382	0.463466	0.128073	0.477357	0.746179	0.000283	0.062523	0.297281	-0.12965	0.318462	0.660119	0.977592	0.197984	0.984496
GLT8D1	-0.07027	-0.01933	-0.0541	-0.08364	0.60346	0.887524	0.689367	0.536213	-0.24648	0.021081	-0.08735	0.110409	0.049338	0.555297	0.284146	0.767446
TMEM111	-0.04107	0.227112	-0.30711	0.083474	0.761633	0.092319	0.020139	0.537017	-0.22057	0.260771	-0.23274	0.208439	0.07037	0.959974	0.06196	0.917754
CAND1	0.001404	0.356932	-0.27014	0.191398	0.991732	0.006926	0.042126	0.153802	-0.12966	0.573451	-0.18288	0.48573	0.195208	0.999984	0.1146	0.999689
UBAP2	-0.01871	0.4273	-0.24938	0.035651	0.891136	0.001139	0.063805	0.794205	0.062088	0.493608	-0.18978	0.388141	0.659062	0.999755	0.105903	0.996156
CENPJ	0.050399	0.240328	-0.12551	0.001458	0.709664	0.074402	0.352221	0.991414	-0.08626	0.39927	-0.11717	0.377317	0.284329	0.997009	0.221684	0.995131
EAPP	0.108347	0.090797	-0.20632	-0.02585	0.422413	0.505722	0.123612	0.84861	-0.17826	0.264984	-0.09278	0.182122	0.117952	0.962439	0.272198	0.887125
CENPN	0.036885	0.2806	-0.16291	0.085338	0.787247	0.037979	0.230263	0.531739	-0.06672	0.600417	0.029397	0.389882	0.331609	0.999993	0.575121	0.995945
PRKCI	-0.01724	-0.01538	-0.0814	-0.16183	0.898723	0.910401	0.547205	0.229115	0.026439	0.04565	-0.078	-0.28248	0.56923	0.618387	0.305266	0.028579
EAF2	-0.13843	0.250753	0.026198	0.420236	0.308923	0.064814	0.848009	0.001262	-0.05622	0.330587	-0.13254	0.319137	0.356888	0.986723	0.195537	0.983694
WWC3	0.037816	0.056832	0.051088	0.174043	0.782007	0.680247	0.708456	0.199541	0.274587	-0.1406	-0.02965	-0.02095	0.967609	0.175665	0.423345	0.44504
ARHGAP15	-0.03536	-0.10512	-0.05334	0.539449	0.795825	0.445	0.696237	1.79E-05	-0.13416	-0.15043	0.130932	0.124181	0.187021	0.159175	0.80436	0.794533
PPP2R2D	-0.10781	0.366582	-0.26265	0.108857	0.42472	0.005455	0.0484	0.420217	-0.05666	0.319295	-0.27729	0.142443	0.354203	0.984727	0.032584	0.8275
C3orf10	-0.05629	0.226552	-0.33698	0.130383	0.677463	0.093146	0.010371	0.333697	-0.09585	0.372543	-0.26979	0.374648	0.263162	0.994609	0.036545	0.994845
ITFG2	0.071389	0.063708	0.002591	0.218286	0.597702	0.640882	0.984738	0.102838	0.100057	0.256567	-0.04659	0.224114	0.740932	0.953633	0.383357	0.928196
CISD1	-0.01857	0.29913	-0.22534	0.143951	0.89092	0.02512	0.091928	0.285383	-0.28866	0.535599	-0.33035	0.450885	0.025855	0.999937	0.013333	0.999169
C9orf46	-0.04372	0.171705	-0.25003	0.099451	0.746775	0.205742	0.060684	0.461711	-0.36811	0.417155	-0.27258	0.332807	0.005918	0.998038	0.035029	0.988088
LOC100133	-0.04975	0.19602	-0.16111	0.079067	0.713213	0.147649	0.231198	0.558794	0.141215	0.229864	-0.15882	0.258358	0.822593	0.93562	0.151577	0.956697
PKN1	0.075164	-0.37735	0.296356	-0.10754	0.578421	0.004144	0.025194	0.42591	-0.07258	-0.38982	0.230592	-0.14082	0.315837	0.003703	0.936239	0.175292
USE1	-0.07431	0.045885	-0.05096	0.092545	0.582783	0.737018	0.706597	0.493537	-0.09541	0.202944	-0.19945	0.136848	0.264113	0.911921	0.094503	0.817765
PSENE1	-0.17233	-0.12441	-0.03756	-0.11793	0.199884	0.360953	0.781485	0.382274	-0.36205	-0.03371	-0.0922	0.054289	0.006709	0.411999	0.273451	0.639956
TEX2	0.19181	0.126764	-0.1053	-0.12301	0.156721	0.356401	0.439903	0.366402	-0.00618	0.124408	-0.10838	-0.06655	0.483754	0.794962	0.23927	0.330173
C10orf110	0.042652	0.0401	0.179699	-0.31688	0.752744	0.76919	0.18104	0.016323	-0.05121	-0.32206	0.059653	-0.22661	0.367689	0.014529	0.651456	0.064959
ZC3H15	0.021329	0.228173	-0.26919	0.269967	0.874869	0.090767	0.042878	0.042262	0.065715	0.439825	-0.24074	0.410756	0.66782	0.998888	0.055578	0.997713
FAM45B	-0.24357	0.152702	-0.23126	-0.06941	0.067886	0.261206	0.083484	0.607919	-0.21519	-0.02272	-0.30572	-0.14032	0.07547	0.440435	0.02056	0.17615

THEM2	0.035537	0.150167	-0.20803	-0.01994	0.792985	0.269298	0.12047	0.882975	-0.28169	0.38632	-0.21131	0.350453	0.028944	0.995998	0.081749	0.991524
NCRNA001	0.182925	-0.23515	0.024172	-0.22348	0.173204	0.081055	0.858346	0.094716	0.170656	-0.35764	0.235468	-0.40101	0.871589	0.00734	0.940277	0.002874
TMEM165	0.007428	0.351138	-0.22392	0.308769	0.956265	0.007967	0.094044	0.019443	-0.01564	0.591305	-0.19121	0.408363	0.458924	0.999992	0.104159	0.997579
BEX1	0.084456	-0.1627	0.346843	-0.3162	0.536006	0.235298	0.008823	0.01759	0.102887	-0.29973	0.25026	-0.1866	0.75188	0.021501	0.951347	0.107176
PKN2	0.003789	0.269593	-0.24017	0.099356	0.977685	0.044503	0.071934	0.462139	0.054076	0.36654	-0.11218	0.302541	0.639428	0.993885	0.231575	0.979505
ACTR10	0.073221	0.177853	-0.19279	0.109388	0.58831	0.189724	0.15077	0.417939	-0.08003	0.357354	-0.01821	0.330367	0.298501	0.992618	0.452738	0.987531
DBNDD2	-0.03282	-0.15408	0.152789	-0.08225	0.808484	0.256876	0.256521	0.543024	0.006175	-0.30551	0.04609	-0.1913	0.516055	0.020634	0.616799	0.10405
ECHDC1	-0.12112	0.3324	-0.3083	0.185591	0.369456	0.012316	0.019638	0.166916	-0.08946	0.492325	-0.1096	0.400903	0.277179	0.999745	0.236789	0.99712
TMEM126f	0.030311	0.160369	-0.19126	0.171723	0.822892	0.237729	0.154113	0.201507	-0.03398	0.454641	-0.151	0.365223	0.411294	0.999249	0.161056	0.993716
SLC22A11	-0.00885	-0.17488	0.17937	-0.12116	0.947884	0.197358	0.181855	0.369306	0.095464	-0.35536	0.132666	-0.26432	0.73601	0.007685	0.807509	0.037942
HDAC8	0.000802	0.224621	-0.14637	0.091361	0.995278	0.096045	0.277295	0.499106	0.143805	0.322058	-0.11095	0.18358	0.829821	0.985472	0.234045	0.889004
PRKD1	0.434087	-0.23163	0.134463	-0.06223	0.000742	0.085845	0.318656	0.645622	0.340509	-0.19636	0.203874	-0.00513	0.989709	0.095459	0.910413	0.486513
ASH1L	0.125922	0.200991	-0.1409	0.20274	0.350637	0.137449	0.295812	0.130407	0.275879	0.207141	0.01607	0.177415	0.968259	0.916402	0.541722	0.880911
PBK	0.04188	0.24321	-0.10265	-0.11469	0.759251	0.073577	0.451561	0.399962	-0.10609	0.616126	-0.21018	0.361925	0.241435	0.999997	0.082907	0.993274
GSDMB	-0.25233	0.134462	0.058027	0.222697	0.058275	0.32314	0.668104	0.095902	-0.30638	0.349746	-0.18473	0.434735	0.019185	0.991405	0.112222	0.998732
GABRQ	0.045671	-0.01144	0.221716	-0.2157	0.738203	0.933934	0.100536	0.110357	-0.01882	-0.17785	0.106874	-0.13064	0.450591	0.118508	0.757651	0.193423
PRKCQ	-0.15306	-0.12539	-0.08637	0.583371	0.255654	0.35716	0.52294	1.91E-06	-0.13306	-0.29652	0.02486	-0.08508	0.19178	0.023972	0.563631	0.289216
WSB2	0.214748	0.350283	0.135905	0.249799	0.111973	0.008748	0.317926	0.063352	-0.0124	0.618091	-0.3239	0.36936	0.467417	0.999998	0.014984	0.994235
LMO3	0.257298	-0.23607	0.094741	-0.08655	0.053336	0.079838	0.483295	0.522057	0.265495	-0.37141	0.056234	-0.22963	0.961021	0.006004	0.641535	0.06458
ZNF167	0.150301	-0.11573	0.095592	-0.12464	0.264438	0.395656	0.479358	0.355621	0.115858	-0.08915	0.22861	-0.14857	0.778384	0.277865	0.934541	0.162208
PRKCSH	0.007257	0.008843	0.058314	0.004437	0.957272	0.948429	0.666562	0.973866	-0.01975	0.35186	0.073995	0.096891	0.448769	0.991113	0.683446	0.736687
GPRC5C	-0.03352	0.045312	-0.00666	-0.27619	0.804518	0.740188	0.960811	0.03756	0.091617	0.174484	-0.04298	-0.00567	0.727594	0.876927	0.389615	0.485077
LENEP	-0.09869	-0.09089	0.134849	-0.18042	0.465175	0.505271	0.317259	0.179277	-0.08211	-0.41636	0.17231	-0.27343	0.293747	0.002	0.871152	0.032984
MYNN	0.090451	0.176284	-0.14533	0.117525	0.50341	0.193725	0.280744	0.383939	0.138528	0.240982	-0.16045	0.14098	0.817931	0.944607	0.14907	0.822188
ZNF395	0.189562	0.22183	0.007984	-0.21512	0.157862	0.100357	0.952997	0.108048	0.090816	0.36874	0.044783	0.169155	0.725825	0.99416	0.614896	0.869453
MESP1	-0.03282	-0.15133	0.234735	-0.21491	0.808495	0.265557	0.078817	0.108412	0.157702	-0.41887	0.287199	-0.33384	0.852385	0.001882	0.972119	0.011683
UNC45A	0.081186	0.040923	-0.07469	0.049308	0.548273	0.764591	0.580812	0.715678	-0.11018	0.393521	-0.25989	0.245221	0.23302	0.996592	0.042342	0.949766
PRKCZ	-0.08176	-0.11021	-0.05486	-0.27876	0.545442	0.418748	0.68524	0.035745	-0.24934	0.003971	-0.07739	-0.01982	0.047356	0.510448	0.306673	0.447994
ZNF302	0.016617	0.141554	-0.05773	0.190114	0.902359	0.298035	0.669721	0.156634	0.190711	0.098053	0.127141	0.238397	0.897879	0.741601	0.797373	0.944698
THSD1	0.23193	-0.21436	0.149391	0.18496	0.082564	0.11264	0.267374	0.168389	0.241017	-0.20479	0.230186	-0.05889	0.946688	0.086087	0.935894	0.348725
ACSS2	-0.03598	-0.00482	-0.13604	0.359829	0.792365	0.972145	0.31746	0.006452	-0.14517	0.343478	-0.02227	0.259796	0.16788	0.990282	0.442273	0.959386
MLL5	0.057815	0.117785	-0.06421	0.160215	0.669246	0.387282	0.635142	0.233847	0.298251	0.069921	0.122958	0.129637	0.977955	0.677868	0.789497	0.804739
RNF114	-0.0811	0.134705	-0.19607	0.47688	0.548674	0.322261	0.143813	0.000177	0.019677	0.461541	-0.23107	0.352524	0.551635	0.999378	0.063359	0.991866
ZC4H2	0.085753	-0.21995	0.278083	0.075584	0.525919	0.103339	0.036218	0.576293	0.316551	-0.33957	0.134419	-0.31512	0.983956	0.010478	0.810662	0.016459
CMAS	-0.05603	0.34308	-0.35463	0.138557	0.681717	0.01034	0.007325	0.308486	-0.25133	0.545735	-0.30776	0.406139	0.04601	0.999956	0.019861	0.99745
LOC55908	-0.01772	-0.101	0.309903	-0.1151	0.895884	0.458914	0.018978	0.393897	0.258213	-0.33852	0.292161	-0.30783	0.958417	0.01069	0.97426	0.018708
BIN3	-0.12535	0.032552	0.046234	-0.19664	0.352854	0.811753	0.732722	0.142626	-0.20356	-0.14946	-0.06005	-0.08712	0.087412	0.160747	0.347591	0.282401
PRKDC	0.038576	0.315527	-0.35099	0.188833	0.775724	0.017846	0.007429	0.159498	-0.11533	0.643704	-0.23704	0.50892	0.222673	0.999999	0.058463	0.999848
APOB48R	-0.10561	-0.39095	0.16448	-0.00365	0.434285	0.00289	0.221469	0.978517	-0.0593	-0.37915	0.036363	-0.19777	0.349408	0.005107	0.592638	0.096414
ERBB2IP	-0.02308	0.260945	-0.2205	0.073749	0.864688	0.052078	0.099302	0.585617	0.051188	0.334351	-0.01375	0.263705	0.632259	0.988429	0.464271	0.961703
LANCL2	-0.13618	0.335107	-0.31045	0.026282	0.312449	0.011583	0.018758	0.846125	-0.25984	0.549278	-0.27197	0.248936	0.040585	0.999961	0.035355	0.95237
NXT2	-0.00819	0.298889	-0.28549	0.007215	0.951809	0.025243	0.031346	0.95752	-0.0398	0.401599	-0.09327	0.168592	0.396418	0.997165	0.271121	0.868647
CTTNBP2N1	-0.04456	0.582927	-0.25801	0.010399	0.742062	2.43E-06	0.052658	0.938806	-0.0099	0.62771	-0.15344	0.408354	0.473978	0.999998	0.157129	0.997579
PRKG1	0.33714	-0.28716	0.170112	0.231056	0.011057	0.033525	0.210042	0.086651	0.376617	-0.50808	0.26798	-0.26034	0.995057	0.000156	0.962445	0.040287
RCC2	-0.06478	0.272323	-0.05295	0.197238	0.635287	0.044283	0.698328	0.1451	-0.22999	0.665281	-0.29225	0.408969	0.062072	1	0.025705	0.997614
NKRF	0.052769	0.417832	-0.11454	0.147172	0.696654	0.001354	0.396198	0.274627	-0.13243	0.445236	-0.24134	0.232182	0.190153	0.999034	0.05512	0.939753
C1orf183	0.087956	-0.15893	0.106354	-0.05131	0.515304	0.24203	0.431045	0.704659	0.131404	-0.36392	0.18143	-0.21791	0.805221	0.006996	0.880729	0.075215
DMAP1	-0.11744	-0.20294	0.02725	-0.12502	0.384269	0.133603	0.840534	0.354122	-0.03148	-0.10118	0.004757	-0.20357	0.417738	0.251726	0.512371	0.087403
PRKG2	0.224228	0.003124	0.002414	-0.34703	0.093581	0.981767	0.985782	0.008176	-0.08791	0.061456	-0.05647	0.020096	0.280632	0.65753	0.356269	0.552729
MYO5C	-0.09327	0.20647	-0.08963	-0.19646	0.490157	0.126827	0.507304	0.143	0.152663	0.08239	-0.03569	-0.10066	0.841626	0.70473	0.409052	0.255297

APOM	-0.05762	-0.04739	0.06592	-0.25809	0.670281	0.728702	0.626123	0.05258	0.015701	-0.30106	0.044739	-0.17798	0.541243	0.021019	0.614787	0.118324
MAPK1	0.136552	0.137883	-0.19024	0.089819	0.311127	0.310868	0.156351	0.506411	-0.04477	0.247426	-0.10006	0.159869	0.383823	0.951325	0.256558	0.85572
MAPK3	0.013701	-0.18522	-0.1186	-0.02882	0.919427	0.171734	0.379591	0.831491	-0.30383	0.223069	-0.05063	0.178273	0.020049	0.931906	0.370601	0.882061
ZMAT5	-0.17774	-0.21817	0.07957	-0.16275	0.185916	0.106243	0.556288	0.226425	-0.2205	-0.18169	-0.08661	-0.2175	0.070433	0.113436	0.28579	0.073252
LIN37	0.003036	-0.18521	0.212196	-0.06678	0.982118	0.171754	0.113045	0.6216	0.214468	-0.12786	-0.01449	-0.23432	0.923825	0.19855	0.462375	0.058513
KLHL9	0.008674	0.23074	-0.22773	0.229765	0.94894	0.087094	0.088436	0.085552	-0.02435	0.27037	-0.11383	0.263045	0.436185	0.965413	0.228284	0.96132
SULF2	-0.03481	0.240687	-0.15688	0.334817	0.797116	0.073956	0.24385	0.010904	-0.03145	0.426183	0.012243	0.34292	0.418743	0.998245	0.531433	0.989446
MAPK4	0.117917	-0.0427	0.268129	-0.19532	0.382344	0.754708	0.04374	0.145374	0.304493	-0.42646	0.161596	-0.41239	0.98018	0.001562	0.855542	0.0022
Sep-03	0.112629	-0.02445	0.178878	-0.2563	0.404194	0.858039	0.183074	0.054296	0.226387	-0.39069	0.163821	-0.38507	0.934847	0.003632	0.858881	0.004114
AJAP1	0.066741	0.116169	0.047919	-0.15236	0.625039	0.398329	0.725807	0.262286	0.17343	-0.10129	0.04447	-0.20154	0.875472	0.251483	0.614115	0.089611
NDUFA12	-0.07097	0.288851	-0.20624	0.119516	0.603241	0.032452	0.127253	0.380293	-0.19723	0.501854	-0.27203	0.411718	0.094457	0.99981	0.035325	0.997764
NSFL1C	-0.14864	0.196482	-0.22837	-0.15955	0.269803	0.14668	0.087526	0.235816	-0.30016	0.293179	-0.14298	0.141671	0.021343	0.976002	0.174383	0.826177
C20orf24	-0.18419	0.470609	-0.17789	0.143957	0.170199	0.000252	0.185534	0.285364	-0.1043	0.563774	-0.35827	0.272973	0.245161	0.999977	0.007835	0.966782
MAPK6	-0.09416	0.437716	-0.30809	0.1758	0.486007	0.000742	0.019726	0.19085	0.035328	0.6044	-0.16028	0.289099	0.592153	0.999996	0.146457	0.974331
GNG12	-0.00443	0.257738	-0.17752	0.048144	0.973891	0.05514	0.186465	0.722114	-0.00236	0.430178	-0.03552	0.328683	0.493803	0.998577	0.408411	0.987135
BAIAP2L1	-0.2152	-0.13084	-0.08992	-0.14809	0.11121	0.341006	0.509859	0.27606	-0.35012	0.119126	-0.16911	0.029299	0.008532	0.784806	0.133387	0.576632
SLC25A40	-0.00123	0.228552	-0.24129	0.144489	0.992727	0.090216	0.070578	0.283567	-0.17662	0.509081	-0.22121	0.386787	0.120156	0.999849	0.072102	0.996039
BCAP29	-0.04614	0.123814	-0.1372	0.299581	0.733266	0.363273	0.308818	0.023577	-0.02106	0.298434	0.095981	0.296013	0.444747	0.978024	0.734734	0.97711
RAG1AP1	-0.04629	0.245578	-0.06731	0.202643	0.732395	0.068101	0.618867	0.130595	-0.20911	0.546625	-0.2907	0.409835	0.081558	0.999958	0.026357	0.997662
KLHL7	-0.02184	0.149127	-0.22239	0.055701	0.871907	0.272668	0.096376	0.680678	-0.26986	0.281311	-0.19417	0.241656	0.034862	0.97088	0.100612	0.947165
MAPK7	0.049457	-0.02729	0.158775	-0.22946	0.714854	0.841756	0.238132	0.085979	0.214083	-0.26976	0.226152	-0.44127	0.923447	0.034916	0.932388	0.001071
MAPK8	0.019115	0.239073	-0.17772	0.053892	0.887768	0.075974	0.185972	0.690519	0.125223	0.226263	-0.05343	0.16751	0.796505	0.934739	0.363708	0.867087
NXF5	-0.11437	-0.0848	-0.03601	-0.39163	0.396937	0.534334	0.790318	0.00259	0.176812	-0.45477	0.080952	-0.36629	0.880099	0.000749	0.70147	0.006147
NXF4	0.121616	-0.18937	0.23744	-0.20428	0.37192	0.166138	0.07806	0.130995	-0.00817	-0.27168	0.079004	-0.22627	0.478501	0.03389	0.697027	0.065251
ACRV1	0.030385	-0.08718	0.27754	-0.2691	0.822469	0.522891	0.036598	0.042954	0.239273	-0.4555	0.23112	-0.42719	0.94537	0.000734	0.936687	0.001533
MAPK11	0.039045	-0.08599	0.243264	0.009325	0.77307	0.528587	0.068241	0.945116	0.134252	-0.10754	0.21122	0.055931	0.813139	0.238436	0.918161	0.644008
NXF3	-0.0477	-0.2088	0.121073	-0.20926	0.724571	0.122495	0.369645	0.118225	0.003883	-0.47935	0.09743	-0.39266	0.510098	0.000432	0.735381	0.003815
C19orf10	0.090285	-0.13409	0.219748	0.114489	0.504196	0.324494	0.100497	0.396427	0.054114	0.170314	-0.10669	0.164823	0.639523	0.871105	0.242734	0.86316
C19orf61	-0.01782	0.073512	0.073598	0.07029	0.896297	0.593772	0.58984	0.606708	0.05351	0.446704	-0.15735	0.346201	0.638026	0.999071	0.150965	0.990784
MAPK9	-0.01748	0.288636	-0.21114	0.128788	0.897325	0.030975	0.114892	0.339693	0.064767	0.347533	-0.11638	0.265895	0.665541	0.991021	0.223232	0.962955
MAPK10	-0.12772	0.098622	-0.12662	-0.23852	0.343742	0.469594	0.347937	0.073979	-0.18319	-0.03212	0.019369	-0.05183	0.111492	0.4161	0.550248	0.366148
MAPK13	-0.00487	0.206626	0.019007	0.036241	0.971561	0.130135	0.889417	0.790878	-0.11885	0.658971	-0.32496	0.327826	0.215732	1	0.0147	0.986929
BARX1	0.002653	-0.17975	0.259609	-0.16524	0.984375	0.184964	0.051157	0.219317	0.158327	-0.3747	0.213026	-0.34883	0.853352	0.00515	0.919989	0.008752
PDGFC	0.133668	-0.15456	0.008718	0.309334	0.321554	0.255367	0.94868	0.01921	0.320784	-0.01471	0.13319	0.051605	0.985132	0.461359	0.808456	0.633296
MAP2K1	0.181252	0.076762	-0.17644	0.377879	0.177238	0.573904	0.189212	0.003755	-0.21689	0.557692	-0.25524	0.254069	0.076197	0.999966	0.047246	0.953923
MAP2K2	-0.10559	-0.11299	-0.0002	-0.0879	0.434398	0.407027	0.998813	0.515562	0.00849	-0.06229	-0.00499	-0.15499	0.522327	0.340445	0.487019	0.151861
ALG1	-0.08142	0.015128	-0.0844	-0.00645	0.547113	0.911886	0.53248	0.962026	-0.35855	0.411962	-0.36779	0.241858	0.007205	0.997777	0.006467	0.947315
MAP2K3	-0.05953	-0.10644	0.014116	0.033625	0.660039	0.434951	0.916995	0.803896	-0.05834	-0.05788	-0.17924	-0.20726	0.350071	0.351208	0.119381	0.083478
UBFD1	0.047859	0.206488	0.054297	-0.08433	0.723692	0.126794	0.68831	0.532827	0.007709	0.26865	-0.0553	0.264685	0.520277	0.964484	0.359126	0.962268
KLHL4	0.235129	-0.29356	0.225777	-0.04251	0.081089	0.029607	0.094301	0.755721	0.112683	-0.35945	0.253032	-0.24329	0.769432	0.007652	0.95126	0.053652
C1orf91	-0.1556	-0.27095	-0.01789	-0.24369	0.25214	0.045405	0.895897	0.070319	-0.34496	-0.14644	-0.00586	-0.14568	0.009443	0.165746	0.48476	0.167011
MAP2K5	0.009315	0.271671	-0.1516	0.040211	0.945173	0.042825	0.260282	0.766481	-0.0027	0.223043	-0.17832	0.07769	0.492898	0.931883	0.120605	0.696093
MAP2K6	0.090035	-0.2442	0.098674	0.159776	0.505382	0.069713	0.465237	0.235148	-0.0765	0.099215	0.270755	0.23736	0.30873	0.741647	0.962269	0.94179
MAP2K7	-0.04972	-0.0817	0.005203	-0.08329	0.71343	0.549439	0.969359	0.537916	-0.03801	0.05432	0.019922	-0.07234	0.400999	0.640031	0.551676	0.316414
PCDHGC5	0.048886	0.020014	0.261851	-0.08553	0.718011	0.883601	0.049112	0.52702	0.052034	0.008859	0.020391	-0.07057	0.634363	0.523299	0.552885	0.320599
PCDHGC4	-0.02174	0.056634	-0.03716	0.105302	0.872487	0.678444	0.78374	0.435642	0.269297	0.06832	0.049852	-0.07033	0.964836	0.674058	0.627489	0.321157
PCDHGB7	0.211513	0.064601	-0.0146	0.143692	0.114235	0.636197	0.914143	0.286259	0.31896	0.18305	0.078966	0.248381	0.984634	0.888323	0.69694	0.951988
EIF2AK2	0.009136	0.070143	-0.1032	0.256786	0.946227	0.607462	0.44491	0.053829	-0.04783	0.285326	-0.02754	0.295054	0.377518	0.971275	0.42957	0.975445
PCDHGB6	0.098358	0.135116	-0.03381	0.099262	0.466674	0.320772	0.802865	0.462569	0.191957	0.048765	-0.03771	0.038809	0.899377	0.62621	0.402874	0.60105
PCDHGB5	0.197847	0.164246	0.030985	-0.02309	0.140147	0.226425	0.819024	0.864648	0.311961	0.12859	0.222973	0.026882	0.982596	0.802804	0.929525	0.570379

PCDHGB3	0.189461	-0.16056	0.259829	0.165285	0.158089	0.237152	0.050954	0.219183	0.214181	-0.27973	0.056104	-0.1451	0.923544	0.029864	0.642837	0.167989
PCDHGB2	0.171684	-0.07425	0.0217	-0.19938	0.201612	0.586546	0.872708	0.137032	0.141235	-0.00579	0.220635	-0.05492	0.825427	0.484768	0.927363	0.358479
PCDHGB1	0.25387	0.04769	0.09393	-0.03512	0.056707	0.727065	0.487067	0.795389	0.448353	-0.37639	0.200028	-0.41429	0.999111	0.004967	0.906153	0.002103
PCDHGA11	0.107852	0.059747	0.102299	0.077809	0.424546	0.661812	0.448918	0.565085	0.284386	0.002772	0.163062	-0.09796	0.972284	0.507294	0.857747	0.258596
PCDHGA10	0.207587	0.176976	0.106421	0.081199	0.124739	0.196158	0.435014	0.551898	0.201468	0.176668	-0.17496	0.07865	0.907764	0.877166	0.127989	0.696216
PCDHGA9	0.089356	0.236509	-0.00515	-0.04633	0.508613	0.079269	0.969683	0.732209	0.260776	0.32335	-0.05864	0.19308	0.959978	0.985809	0.350987	0.900713
PCDHGA7	-0.00223	-0.08303	0.228688	-0.11167	0.986886	0.542922	0.08707	0.408247	0.282424	-0.16678	0.266347	-0.11928	0.971394	0.133971	0.961514	0.214892
PCDHGA6	0.120037	-0.15238	0.115574	0.097846	0.373785	0.262223	0.391939	0.469006	0.088873	0.04129	0.151283	0.161942	0.721513	0.607362	0.839403	0.858865
DNAJC3	0.050714	0.175654	-0.0894	0.224204	0.70793	0.195348	0.508413	0.093616	-0.06063	0.302083	-0.06846	0.251344	0.344471	0.979344	0.327504	0.954001
PCDHGA5	0.155784	-0.22175	0.122104	0.049271	0.247204	0.100486	0.365556	0.715884	0.059826	-0.09773	0.06224	-0.07333	0.65356	0.259086	0.657688	0.314076
PCDHGA4	0.297613	-0.31665	0.256338	-0.02907	0.024553	0.017421	0.054264	0.830021	0.148299	-0.42679	0.274517	-0.35819	0.83734	0.001549	0.965994	0.007258
PCDHGA3	0.32316	-0.11105	0.144562	0.018693	0.014209	0.415199	0.283323	0.890227	0.315066	-0.13279	0.369251	-0.09719	0.983526	0.189498	0.993724	0.260258
PCDHGA2	0.04551	-0.15532	0.061282	-0.13412	0.736755	0.253007	0.65066	0.319888	0.180187	-0.39031	-0.12417	-0.29382	0.884599	0.003663	0.2082	0.023745
PCDHGA1	-0.09226	-0.07123	0.103714	-0.16823	0.498866	0.605302	0.446852	0.215211	-0.01629	0.056206	0.147657	-0.05388	0.457222	0.644686	0.833468	0.361067
PCDHB15	0.271043	-0.04483	0.138114	0.056149	0.041416	0.742834	0.305572	0.678252	0.375414	-0.05864	0.210181	0.023656	0.994476	0.35099	0.914563	0.561291
PCDHB14	0.146028	0.050373	0.012505	0.115744	0.278416	0.712359	0.926444	0.391237	0.144304	0.144039	0.210203	0.28965	0.830667	0.830218	0.917118	0.974562
PCDHB13	0.241217	0.159918	-0.0112	0.039164	0.070669	0.239067	0.934121	0.772397	0.180664	0.179057	0.00844	0.010808	0.885224	0.883106	0.521941	0.528417
PCDHB12	0.341343	-0.17825	0.268291	-0.14814	0.009362	0.188714	0.043608	0.271445	0.224558	-0.43636	0.373244	-0.22167	0.933238	0.001216	0.994221	0.069358
PCDHB11	0.246942	0.141943	0.121256	0.093351	0.064046	0.296698	0.368918	0.489768	0.107559	-0.01376	0.127179	-0.01407	0.76161	0.46384	0.797443	0.463022
PCDHB10	0.201006	-0.14935	-0.00945	-0.009	0.137419	0.276459	0.94489	0.947538	0.228122	-0.12748	0.212658	-0.06763	0.936346	0.199254	0.919619	0.327595
PCDHB9	0.304014	-0.16958	0.245836	-0.10002	0.021498	0.211495	0.065285	0.459138	0.520845	-0.26156	0.345667	-0.17007	0.999897	0.039553	0.989984	0.129235
PCDHB8	-0.12824	0.052268	-0.12884	0.064903	0.341772	0.702032	0.339516	0.631472	-0.07243	-0.18831	-0.01588	-0.17813	0.316199	0.105054	0.458761	0.11813
PCDHB7	0.10757	-0.00232	0.186509	0.181572	0.425765	0.986472	0.16479	0.176459	0.205233	-0.1817	0.115308	-0.03355	0.914386	0.113426	0.774655	0.412417
PRKX	-0.12173	0.434009	-0.2724	-0.09319	0.367051	0.000832	0.040367	0.490517	-0.10424	0.4565	-0.16333	0.312266	0.247793	0.999189	0.144723	0.981616
PCDHB6	0.101872	-0.15715	0.074221	-0.15055	0.450822	0.247392	0.583213	0.263636	0.279693	-0.43244	0.266552	-0.36422	0.970118	0.001344	0.961632	0.006416
PCDHB4	0.279936	-0.0054	0.182985	0.121084	0.034944	0.968494	0.173061	0.369601	0.247684	-0.20367	0.444843	0.130634	0.951504	0.087292	0.9989	0.806573
PCDHB3	0.112444	0.0628	0.04079	0.017654	0.404973	0.645655	0.763213	0.896297	0.092406	-0.0337	0.109334	0.171564	0.729331	0.412034	0.762678	0.872869
PCDHB2	0.059763	-0.21344	-0.07917	-0.14048	0.658781	0.114223	0.558291	0.297292	-0.07451	0.080198	-0.17406	0.080502	0.313326	0.699753	0.129236	0.700446
PCDHAC2	0.011822	-0.17345	0.185811	-0.2769	0.93045	0.201098	0.166405	0.037052	0.279096	-0.37207	0.206509	-0.29287	0.969833	0.005445	0.91325	0.024121
PCDHAC1	-0.21988	-0.268	0.085126	-0.22528	0.100285	0.045822	0.528961	0.092016	-0.05548	-0.31371	0.126219	-0.09273	0.357113	0.016875	0.795652	0.269951
PCDHA13	-0.0978	0.176084	-0.0215	-0.24792	0.469238	0.194239	0.873897	0.062969	0.077271	-0.19435	0.108428	-0.28959	0.695122	0.097794	0.760832	0.025462
PCDHA12	0.112024	-0.23247	0.177263	-0.19804	0.406743	0.084688	0.187125	0.139751	0.171014	-0.38688	0.144865	-0.2051	0.869327	0.004328	0.825935	0.088264
PCDHA11	-0.11084	-0.24141	-0.01741	-0.13674	0.411729	0.073069	0.897743	0.310468	0.057851	-0.34569	0.033127	-0.23682	0.648728	0.009309	0.585518	0.056527
PCDHA10	0.076332	-0.26935	0.179456	-0.2376	0.572516	0.044704	0.18164	0.075129	-0.12443	-0.30059	0.272662	-0.13712	0.204993	0.021187	0.965015	0.181761
PCDHA8	0.015871	-0.04193	0.124086	-0.43423	0.906719	0.758988	0.357765	0.000739	0.001709	-0.30445	0.022601	-0.49974	0.504498	0.019833	0.558579	0.000203
PCDHA7	-0.11103	-0.0446	0.099161	-0.26765	0.410942	0.744114	0.463026	0.044135	-0.01875	-0.35766	0.286431	-0.4285	0.450781	0.007336	0.971775	0.001484
PCDHA6	-0.06074	-0.02987	0.020998	-0.36269	0.653536	0.827021	0.876791	0.005559	0.109541	-0.04784	0.213179	-0.03908	0.765677	0.376113	0.920142	0.398252
PCDHA5	-0.0296	-0.10794	0.074982	-0.10556	0.82701	0.428441	0.579347	0.434507	-0.04846	-0.06364	0.035077	-0.23984	0.374563	0.337182	0.59047	0.054202
PCDHA4	-0.12814	0.107481	-0.057	-0.33521	0.342145	0.430427	0.673624	0.010806	-0.3895	0.078581	-0.03355	-0.04646	0.00373	0.698155	0.413396	0.379571
PCDHA3	-0.01021	-0.07978	0.127647	-0.1995	0.939913	0.558907	0.344027	0.136787	-0.06256	-0.40421	0.148305	-0.41031	0.339796	0.002668	0.834538	0.002312
PCDHA2	0.055335	-0.32654	0.158724	-0.08488	0.682665	0.01404	0.238283	0.530156	-0.03072	-0.48566	0.230383	-0.28871	0.420602	0.00036	0.933775	0.027215
PCDHA1	-0.02641	0.105107	-0.01507	-0.05598	0.845362	0.440738	0.911407	0.679177	0.120839	-0.23151	-0.17059	-0.24178	0.78813	0.060803	0.131278	0.052743
TEX15	0.060353	0.017122	0.089495	-0.23888	0.65562	0.900326	0.507951	0.073523	0.187154	-0.18752	0.066665	-0.22103	0.893516	0.106032	0.668256	0.06995
TEX14	0.038789	-0.02449	0.106939	-0.30693	0.774516	0.857822	0.428503	0.020216	0.221844	-0.40637	0.105518	-0.47518	0.930796	0.002537	0.754854	0.000423
TEX13B	-0.04877	-0.14021	0.183735	-0.06371	0.718676	0.302702	0.171277	0.637765	0.175053	-0.3482	0.17357	-0.22632	0.877708	0.008862	0.872911	0.065214
TEX13A	-0.0834	-0.21153	0.156294	-0.22476	0.537368	0.117577	0.245641	0.092781	0.072007	-0.41241	0.142482	-0.35969	0.682804	0.002199	0.824766	0.007041
TEX12	0.207276	0.020054	0.089317	-0.11103	0.121842	0.883369	0.508797	0.410962	0.239328	-0.13586	0.165625	-0.30767	0.945412	0.183982	0.861551	0.018762
TEX11	-0.09564	-0.11931	0.088709	-0.18623	0.479116	0.381104	0.511696	0.165431	0.037168	-0.14415	-0.05527	-0.25808	0.596861	0.169602	0.359203	0.041663
PRKY	-0.11883	0.146221	-0.24502	0.044859	0.378641	0.282227	0.066211	0.740384	-0.11217	0.544942	-0.15192	0.458032	0.231603	0.999946	0.162444	0.999222
NDNL2	0.12435	-0.24316	0.06302	0.009127	0.356735	0.070943	0.641423	0.946276	0.097088	-0.30543	0.150859	-0.10721	0.739524	0.019502	0.838716	0.239112

RNF17	-0.05678	-0.06261	0.066867	-0.26877	0.677657	0.649766	0.624381	0.045186	-0.05913	-0.47178	0.097656	-0.35475	0.349818	0.000535	0.735861	0.008399
STK31	-0.14974	-0.02142	-0.21793	-0.37305	0.266245	0.875487	0.103406	0.004263	-0.27098	-0.27664	-0.17686	-0.25599	0.034261	0.031361	0.12257	0.042974
TDRD1	0.145292	-0.09358	0.269799	-0.27514	0.280871	0.492726	0.042395	0.038319	-0.04946	-0.24299	0.269234	-0.1914	0.372045	0.051848	0.963147	0.101285
GSDMC	-0.16373	0.520179	-0.12584	0.233047	0.227903	3.97E-05	0.355405	0.083895	-0.18001	0.679457	-0.22188	0.475027	0.11563	1	0.071483	0.999575
PRL	0.042274	-0.0012	0.138615	-0.30684	0.754867	0.992995	0.303803	0.020255	0.013345	-0.34493	0.311899	-0.18699	0.534665	0.010158	0.980352	0.109357
DNAH7	-0.06672	-0.18695	0.050553	-0.2239	0.621923	0.167701	0.708812	0.094067	-0.12447	-0.30627	0.097325	-0.25063	0.204926	0.019221	0.737617	0.046478
ANKH	0.37739	-0.02419	0.034156	0.216919	0.004506	0.862155	0.804472	0.111661	0.326322	0.194124	0.060233	0.219513	0.985655	0.899335	0.651136	0.926308
PRLR	0.007792	-0.21382	0.048985	-0.12315	0.954549	0.113576	0.719958	0.365869	0.170056	-0.4527	0.104898	-0.34675	0.870738	0.000792	0.753572	0.009117
MOSPD1	-0.0585	0.143	-0.2787	-0.11025	0.665565	0.293077	0.035788	0.414238	-0.16357	0.124638	-0.07321	-0.04315	0.138695	0.795398	0.316357	0.387931
FAM54B	-0.17896	-0.02698	-0.17005	-0.00201	0.182863	0.84355	0.205992	0.988132	0.074442	-0.03952	0.030959	-0.04937	0.688527	0.397138	0.579997	0.372285
PRM1	-0.03928	-0.21017	0.211639	-0.22712	0.771762	0.120012	0.114015	0.089322	0.144243	-0.50131	0.270413	-0.21114	0.830564	0.000193	0.963799	0.079487
PRM2	-0.01871	-0.23096	0.112018	-0.26729	0.890107	0.086782	0.406765	0.044426	0.126908	-0.39764	0.191516	-0.38163	0.799672	0.003104	0.896215	0.004436
LMOD3	0.337455	-0.0716	0.358063	-0.36568	0.010256	0.600017	0.006243	0.005154	0.302947	-0.51366	0.289343	-0.33742	0.979647	0.000131	0.973061	0.010918
KIAA1370	-0.02939	0.236591	-0.15916	0.029068	0.828212	0.079161	0.236981	0.830048	0.061659	0.321748	-0.01957	0.159536	0.658023	0.98539	0.449243	0.855211
PRNP	0.20749	0.074745	-0.07207	0.44917	0.121449	0.584042	0.594213	0.000457	0.139913	0.387549	-0.03501	0.472348	0.820343	0.995734	0.41074	0.999474
PSPN	0.01368	0.057354	0.293026	-0.20591	0.919553	0.674585	0.02696	0.124368	0.046578	-0.15857	0.069645	-0.24684	0.620724	0.146273	0.6753	0.049084
PROC	-0.14009	-0.18334	0.083753	-0.15541	0.298648	0.176204	0.535651	0.24836	0.041801	-0.40988	0.078399	-0.30907	0.60866	0.002335	0.695641	0.018307
SUSD2	0.163321	-0.17407	0.300397	-0.12085	0.224785	0.199464	0.023182	0.370551	0.256043	-0.23039	0.170753	-0.1481	0.957059	0.061731	0.868957	0.162989
ZNF253	0.036763	0.175993	-0.01607	-0.05844	0.786006	0.194472	0.905547	0.665884	0.208881	0.09391	0.094287	0.037433	0.91821	0.732625	0.731077	0.597539
KIAA1217	-0.09741	0.413605	-0.14182	-0.21192	0.471002	0.001532	0.292664	0.113517	-0.07304	0.521201	-0.1525	0.181555	0.314758	0.999898	0.158644	0.886388
BTNL2	0.085851	-0.18992	0.289734	-0.23948	0.525444	0.16093	0.028808	0.072785	0.028237	-0.39531	0.294249	-0.22474	0.573887	0.003273	0.97512	0.066602
C21orf62	0.058722	-0.22712	0.158979	-0.13093	0.664366	0.092308	0.237521	0.331668	0.010453	-0.31355	0.152091	-0.25013	0.527484	0.016922	0.840707	0.046818
MRAP	-0.04051	0.05166	0.238401	-0.02141	0.76481	0.705339	0.074122	0.874388	0.076862	-0.09858	0.093867	-0.12598	0.69417	0.257271	0.730166	0.202063
PRODH	-0.01693	0.002769	-0.15607	-0.34574	0.9005	0.983841	0.246322	0.008434	-0.06903	0.281274	-0.171	0.053218	0.324243	0.970862	0.130695	0.637303
YLPM1	0.104123	0.137039	-0.12646	-0.03353	0.440828	0.313867	0.34855	0.804459	0.008998	0.262266	-0.03684	0.166608	0.523662	0.960863	0.405059	0.865777
CRTAM	0.026618	-0.16426	0.213358	0.186263	0.844183	0.226385	0.111039	0.165359	0.161357	-0.3373	0.142012	-0.26887	0.857982	0.010943	0.823961	0.035398
RNF20	0.049132	-0.05633	-0.06054	-0.0614	0.716651	0.68007	0.654614	0.650033	-0.17385	0.2197	-0.01181	0.251295	0.123942	0.92882	0.469312	0.953968
TMX4	0.232812	-0.1932	0.081255	0.296074	0.08137	0.15367	0.547931	0.02534	0.273868	-0.25855	0.182284	-0.00206	0.967243	0.041375	0.884632	0.494579
SERTAD4	0.219554	0.019389	-0.08557	0.090295	0.100805	0.88721	0.526823	0.504148	-0.01638	0.425918	-0.12207	0.174911	0.457477	0.998233	0.21495	0.874765
MEPCE	0.052538	-0.06062	-0.00824	-0.01208	0.697916	0.657199	0.951515	0.92892	0.086225	0.34144	-0.12528	0.062382	0.715586	0.989892	0.206104	0.659777
CTNBL1	0.110341	-0.07314	-0.03587	0.228813	0.413873	0.592156	0.79108	0.086893	-0.01895	0.159447	-0.22255	0.197549	0.450252	0.855075	0.070863	0.90591
PROP1	0.007364	-0.17317	0.276525	-0.17804	0.956645	0.201831	0.037319	0.185181	0.112317	-0.40978	0.184075	-0.329	0.771308	0.002341	0.886945	0.01279
C8orf44	0.009412	0.186667	-0.0643	-0.01242	0.944603	0.168351	0.634653	0.926919	0.069844	0.218987	0.122083	0.141229	0.677684	0.928155	0.787827	0.825417
RP5-1022P	-0.14474	0.126739	-0.13514	0.315552	0.282739	0.35196	0.316188	0.016802	0.221221	0.202935	-0.00894	0.189399	0.930226	0.911911	0.476769	0.896285
LRR8A	0.058781	0.238386	-0.00491	-0.0671	0.666959	0.079657	0.971331	0.623194	0.070408	0.560233	-0.20118	0.324998	0.679022	0.999974	0.09256	0.98623
CPXM1	0.158787	-0.02066	0.225252	-0.0064	0.238095	0.879877	0.092053	0.962326	0.112039	-0.04897	-0.04808	-0.02349	0.768143	0.374699	0.378303	0.439144
CCBL2	0.034293	0.314937	-0.23018	0.159893	0.800079	0.018073	0.084966	0.234802	0.066764	0.385015	-0.20381	0.318832	0.670337	0.995881	0.089659	0.984599
IRGC	0.032038	-0.08435	0.27885	-0.17177	0.812978	0.536507	0.035686	0.201384	0.141294	-0.38808	0.26181	-0.36819	0.825527	0.003849	0.958833	0.005908
PROS1	0.096791	-0.2843	0.014033	-0.11694	0.473839	0.033706	0.91748	0.386322	-0.01393	-0.46991	0.117167	-0.27413	0.463388	0.000492	0.778313	0.032623
WDR45L	-0.249	0.11677	-0.25727	-0.07936	0.061785	0.391413	0.053363	0.557327	-0.38272	0.406812	-0.23603	0.223685	0.004332	0.997489	0.059273	0.93246
BEX4	0.231284	0.023594	0.053648	0.03238	0.083447	0.862962	0.69185	0.811021	0.223465	-0.0283	0.002011	0.166104	0.932262	0.425962	0.50523	0.865041
GKN1	0.060003	0.047796	-0.00574	-0.2713	0.657495	0.726483	0.966181	0.041213	-0.01713	-0.12228	0.115044	-0.15176	0.455014	0.209087	0.774133	0.157021
PARD3	0.095085	0.346557	-0.20922	-0.20336	0.485751	0.008883	0.12173	0.132772	-0.21039	0.519226	-0.19696	0.296987	0.080242	0.999891	0.097352	0.977481
PROX1	0.12497	0.074025	-0.04762	-0.26177	0.358774	0.591192	0.727479	0.051314	-0.04994	-0.09771	0.193053	-0.12324	0.370858	0.25914	0.898062	0.207255
AZGP1	0.21645	-0.34395	0.221212	0.009952	0.105836	0.009443	0.098195	0.94143	0.433681	-0.45885	0.379281	-0.41957	0.998698	0.00067	0.994908	0.00185
PRPH	-0.11687	-0.13634	0.251413	-0.1427	0.386614	0.316373	0.059227	0.289642	0.089371	-0.44809	0.169522	-0.2734	0.722622	0.000896	0.867204	0.033
IL1F9	0.060309	0.129688	-0.1023	-0.27338	0.658828	0.345326	0.453105	0.041485	0.154546	-0.05765	0.170932	-0.13087	0.844627	0.353411	0.866368	0.195759
SLC7A10	0.02264	-0.05936	0.214488	-0.16905	0.867241	0.663868	0.109116	0.208723	0.08926	-0.34014	0.135854	-0.27216	0.722375	0.010364	0.81322	0.033641
TRPV5	0.120131	-0.40187	0.20559	-0.32591	0.377831	0.002356	0.12849	0.014238	0.244884	-0.33838	0.222477	-0.2916	0.945435	0.012331	0.924205	0.027395
PRPS1	-0.0195	0.027457	-0.17924	0.013144	0.88551	0.840801	0.182188	0.922695	-0.15051	0.114752	-0.00476	0.142192	0.159046	0.776187	0.487626	0.827072

ANKRD7	-0.00407	0.007092	0.030054	-0.23426	0.976028	0.958626	0.824373	0.079436	-0.00984	-0.29551	0.086621	-0.28472	0.474132	0.023083	0.714231	0.027568
METTL3	-0.03459	0.005242	-0.06301	0.44145	0.798363	0.969417	0.641458	0.000587	0.14152	0.340099	-0.11259	0.195256	0.825917	0.989628	0.230759	0.903268
PRPS2	-0.13222	0.229293	-0.31609	0.301625	0.326876	0.089149	0.016607	0.022598	-0.24592	0.72225	-0.34007	0.48649	0.049738	1	0.011137	0.999696
PRMT8	-0.09264	-0.13805	0.179547	-0.23792	0.497084	0.314844	0.185473	0.07744	-0.10057	-0.48124	0.005103	-0.37194	0.253015	0.000355	0.51327	0.00546
PPAN	-0.03887	-0.12099	0.222272	-0.11595	0.774084	0.374405	0.096553	0.390374	0.00161	-0.25202	0.094605	-0.21826	0.504237	0.045552	0.731765	0.072527
CABP5	-0.06835	-0.19913	0.129352	-0.26001	0.613437	0.141194	0.337567	0.050789	0.186149	-0.40379	0.190008	-0.36086	0.89226	0.002694	0.894382	0.006875
PRPSAP1	-0.04475	0.270772	-0.26085	-0.00278	0.743288	0.045554	0.052165	0.983755	-0.08446	0.464772	-0.20608	0.305145	0.288388	0.999431	0.087202	0.980401
PRPSAP2	-0.01197	0.163397	-0.27897	0.051974	0.929607	0.228868	0.035604	0.70101	-0.09072	0.204077	-0.15941	0.150609	0.274396	0.913147	0.147791	0.841123
PRRG1	0.390161	0.00108	0.087106	0.154457	0.002697	0.993695	0.519386	0.251304	0.466867	0.006696	0.229468	0.05446	0.999464	0.517614	0.935281	0.640377
PRRG2	-0.07599	0.060885	0.094298	-0.20927	0.574227	0.655773	0.485352	0.118219	-0.08504	0.074146	-0.1909	-0.13834	0.287081	0.687832	0.104536	0.179613
LGMN	-0.10018	0.142338	-0.16078	0.293652	0.462562	0.299899	0.236508	0.028049	-0.06351	0.611567	-0.15175	0.541537	0.337502	0.999997	0.15985	0.999949
LTB4R2	-0.07469	0.024399	-0.09896	0.024604	0.580824	0.858335	0.463938	0.855845	-0.0987	0.381218	-0.26517	0.198714	0.257017	0.995525	0.039167	0.907232
PRSS1	-0.09151	0.014968	0.017908	0.013534	0.498395	0.912816	0.89481	0.920405	-0.12191	-0.31798	0.157434	-0.01685	0.209813	0.015638	0.84916	0.455751
PRSS2	-0.01255	-0.286	-0.02968	-0.04707	0.926882	0.034284	0.828106	0.730497	0.143821	-0.02526	0.055202	0.149963	0.829849	0.433842	0.640638	0.840071
PRSS3	0.026256	0.319351	0.06251	-0.185	0.847679	0.017474	0.647183	0.172257	-0.01446	0.245376	-0.03617	-0.01982	0.462433	0.947883	0.407845	0.448598
CTPS2	0.058247	0.065449	-0.10562	-0.04611	0.666922	0.631767	0.434255	0.733427	0.13515	0.272747	0.18024	0.263164	0.814747	0.966665	0.881951	0.961389
RPRM	-0.17872	-0.1339	0.065442	-0.1427	0.183477	0.325169	0.628635	0.289631	0.055096	-0.30603	-0.04413	-0.42138	0.641948	0.019301	0.38674	0.00177
CCL28	0.03299	-0.33026	0.145756	0.112079	0.807529	0.012924	0.279321	0.406511	-0.09105	-0.28795	0.047237	-0.18758	0.273665	0.026159	0.621009	0.105961
EIF4ENIF1	0.208471	0.083159	0.036858	0.073403	0.119659	0.542308	0.785467	0.587379	0.044236	0.062934	-0.00849	0.061078	0.614821	0.661115	0.47792	0.656609
KCNQ5	0.336095	-0.04276	0.093933	-0.17532	0.011325	0.756577	0.491076	0.196207	0.199069	0.078943	0.0261	0.059048	0.907632	0.698989	0.567567	0.651659
MASP1	0.105048	-0.23946	0.043512	-0.00913	0.436759	0.075485	0.747921	0.946289	0.302125	-0.12294	0.21635	-0.06967	0.979359	0.207837	0.923275	0.322723
RELN	0.31664	-0.06954	-0.04617	-0.0108	0.017425	0.613938	0.735419	0.937061	0.366274	-0.37373	0.464031	-0.16885	0.99333	0.005721	0.999245	0.133761
KLK7	-0.06294	0.027497	0.041737	-0.25917	0.644913	0.842049	0.760045	0.053759	-0.07664	0.27646	-0.09759	0.04649	0.306351	0.968548	0.261819	0.620501
PRSS7	0.083301	-0.23482	0.223111	-0.33339	0.537864	0.081506	0.09527	0.01127	0.045073	-0.40148	0.047501	-0.3418	0.61562	0.003133	0.620269	0.01078
PRSS8	0.073345	-0.07103	0.08586	0.006205	0.587676	0.602894	0.5254	0.96346	0.105606	0.25006	-0.15076	0.034797	0.757569	0.953137	0.161443	0.590791
DNAJC12	-0.10162	0.238776	-0.00423	-0.08849	0.45196	0.076351	0.975059	0.512721	-0.11757	-0.08025	0.066861	-0.06577	0.220895	0.300126	0.666847	0.333878
KLK6	0.089511	-0.05074	0.272953	-0.26501	0.507875	0.710358	0.039948	0.046342	-0.01923	-0.1823	0.204722	-0.17251	0.450101	0.115344	0.908742	0.128573
HTRA1	0.366381	-0.4044	0.376328	0.03995	0.005063	0.001993	0.003912	0.767952	0.436706	-0.40625	0.27576	-0.17556	0.998795	0.002544	0.966638	0.121605
MMP26	0.050423	-0.12697	0.2525	-0.20457	0.709527	0.351085	0.058102	0.126903	-0.06812	-0.29957	0.176989	-0.25076	0.328305	0.022795	0.874788	0.048311
CHST7	-0.01387	-0.18466	0.205783	-0.10201	0.918441	0.173063	0.124614	0.450213	0.081705	-0.38136	0.243189	-0.40304	0.705334	0.004461	0.946271	0.002742
KLK10	-0.00044	0.263895	-0.08147	-0.11938	0.997451	0.051558	0.550556	0.380854	-0.1108	0.601869	-0.22979	0.32275	0.231753	0.999995	0.064444	0.985653
PRTN3	-0.03083	-0.17725	0.248475	-0.09374	0.819919	0.191251	0.06236	0.487941	0.103948	-0.37699	0.163443	-0.32529	0.754107	0.004904	0.858317	0.013695
AZU1	0.00486	-0.04034	0.222024	-0.2105	0.971381	0.767855	0.096936	0.116014	0.00775	-0.29424	0.071789	-0.26813	0.520385	0.023578	0.680333	0.035802
PSAP	0.103607	0.004691	-0.09643	0.339406	0.443109	0.972626	0.475493	0.009799	-0.0385	0.351422	-0.05911	0.318528	0.400884	0.991037	0.351556	0.983518
CYP26B1	0.231901	-0.22779	0.121802	-0.19415	0.085473	0.094404	0.371183	0.151629	0.128134	-0.20594	0.209366	-0.16455	0.799217	0.087353	0.913711	0.140038
TUBB4Q	-0.03806	-0.10033	0.239299	-0.2577	0.778674	0.461911	0.073007	0.052948	0.012752	-0.31315	0.047497	-0.25387	0.533516	0.017042	0.621654	0.044336
ERO1LB	0.09309	-0.11552	0.118639	0.248039	0.490985	0.396528	0.379419	0.062835	0.132896	0.047202	0.047346	0.097773	0.810694	0.622292	0.62128	0.740999
SLC2A9	0.035579	0.260725	-0.10188	0.423979	0.792744	0.052283	0.450804	0.001014	0.045487	0.509455	-0.18195	0.458958	0.616652	0.999824	0.118595	0.999241
DIABLO	-0.07568	0.245289	-0.32348	0.157405	0.575795	0.068437	0.01411	0.242258	-0.12203	0.501865	-0.1308	0.349336	0.209574	0.99981	0.195877	0.991335
PSD	-0.09696	-0.07985	0.26642	-0.23414	0.473061	0.558569	0.045153	0.079602	-0.17269	-0.24587	0.080976	-0.19484	0.125562	0.049772	0.701524	0.097216
INPP5E	-0.10639	-0.14631	0.16312	-0.3613	0.430893	0.281922	0.225365	0.005758	-0.27203	-0.2472	-0.00791	-0.31947	0.03371	0.048836	0.47944	0.015224
ASAH2	-0.0958	-0.05521	0.006774	-0.2153	0.478418	0.686106	0.960117	0.10775	0.035968	-0.17063	0.055441	-0.07713	0.593793	0.128445	0.64122	0.305197
PSEN1	-0.01206	0.310617	-0.37594	0.173787	0.929043	0.019808	0.003952	0.19606	-0.16072	0.615997	-0.2422	0.403158	0.14578	0.999997	0.056599	0.996983
PSEN2	0.010802	-0.29653	0.237963	-0.11051	0.936438	0.026476	0.074671	0.413142	-0.12159	-0.20229	-0.03314	-0.01701	0.210418	0.088797	0.414457	0.455325
BCCIP	-0.15252	0.158398	-0.29851	-0.0058	0.257377	0.243619	0.024106	0.965838	-0.23665	0.275676	-0.19237	0.325518	0.056661	0.968158	0.102754	0.986361
EIF5A2	-0.00608	0.054809	-0.04901	0.039291	0.964179	0.68827	0.717323	0.771678	0.137572	-0.29319	0.001866	-0.01402	0.819043	0.023993	0.504853	0.463147
TMPRSS4	-0.23544	0.515953	-0.31631	0.025978	0.077895	4.70E-05	0.016525	0.847885	-0.27277	0.699455	-0.2994	0.393638	0.033322	1	0.022856	0.996601
CLDND1	0.057546	0.321563	-0.24981	0.292152	0.670697	0.015664	0.06092	0.027441	0.131642	0.497345	-0.10135	0.329768	0.808416	0.999781	0.253849	0.987391
C10orf2	-0.2673	0.398471	-0.25293	0.283067	0.044419	0.002353	0.057657	0.032875	-0.17812	0.475594	-0.30257	0.322094	0.118149	0.999582	0.021681	0.985481
NPDC1	0.213152	-0.07034	0.347349	-0.0006	0.111392	0.606457	0.008113	0.996466	0.304779	-0.13923	0.210743	-0.02438	0.980277	0.178047	0.917673	0.436119

POLE4	-0.07369	-0.16899	0.056016	0.273936	0.585936	0.213104	0.678973	0.03921	0.120243	0.202674	-0.22653	0.177858	0.784295	0.909099	0.069618	0.878774
OR2S2	0.193559	-0.09391	0.337578	-0.10931	0.14912	0.491203	0.010227	0.418269	0.047021	-0.15383	0.091664	-0.13536	0.621837	0.153695	0.725368	0.184881
TRIM39	-0.02035	-0.19658	-0.02584	-0.4597	0.880571	0.146467	0.848674	0.000321	-0.0269	-0.45544	-0.04058	-0.49876	0.429579	0.000735	0.395633	0.000209
KCNK13	-0.03219	-0.12758	0.245914	-0.19922	0.812129	0.348734	0.065197	0.137366	0.063658	-0.36316	0.107675	-0.42412	0.661089	0.007104	0.756692	0.001845
KCNK12	-0.15829	0.033229	0.078253	-0.10693	0.243956	0.80791	0.566463	0.432806	0.160985	-0.30821	0.199377	-0.25477	0.857419	0.018584	0.905418	0.043751
PANX2	-0.12455	0.01727	0.161579	-0.31064	0.355955	0.899472	0.229837	0.018683	-0.27418	-0.26162	0.042771	-0.21607	0.03418	0.041283	0.6086	0.076998
MUC13	-0.13096	0.081339	0.064005	0.279619	0.331538	0.55121	0.636207	0.035159	-0.21159	0.326655	-0.03413	0.384695	0.079036	0.986643	0.411922	0.995852
SUCNR1	-0.02347	-0.10092	-0.00691	-0.13277	0.862429	0.459237	0.959317	0.324843	-0.14575	-0.20621	0.036228	-0.10079	0.166891	0.084579	0.593386	0.252555
C11orf17	-0.16622	0.274043	-0.34513	0.091851	0.216565	0.040973	0.008556	0.496797	-0.14525	0.521044	-0.1105	0.372766	0.167731	0.999897	0.234966	0.994634
C11orf16	-0.13779	-0.25238	0.043491	-0.29478	0.30673	0.06058	0.74804	0.026017	-0.19049	-0.35094	0.054357	-0.28142	0.102385	0.008395	0.638571	0.029069
TMEM9B	-0.02917	0.425833	-0.27555	0.12492	0.829471	0.001068	0.038024	0.354515	-0.15742	0.586903	-0.24847	0.408134	0.148048	0.999991	0.0499	0.997566
NRIP3	0.109145	-0.15407	0.17098	-0.31003	0.418981	0.256896	0.203495	0.018925	0.188197	-0.47838	0.144682	-0.41434	0.894809	0.000386	0.828498	0.0021
ASCL3	-0.13167	-0.09581	0.037107	-0.40915	0.337929	0.490727	0.787957	0.001924	-0.25582	-0.42098	0.145964	-0.28093	0.044931	0.00199	0.827777	0.030787
SAR1A	0.215391	0.107276	-0.09876	0.26122	0.107597	0.431311	0.464846	0.049681	0.210362	0.2346	-0.00289	0.200316	0.919727	0.941715	0.492475	0.909029
C21orf59	-0.13781	-0.10415	-0.08082	-0.24958	0.306662	0.444929	0.550089	0.061165	-0.33231	-0.09373	-0.02676	-0.05386	0.012025	0.267776	0.43075	0.361098
PSG1	-0.05762	0.008239	0.072087	-0.10054	0.673184	0.952394	0.597522	0.460947	-0.02425	-0.08048	-0.06265	-0.20002	0.436452	0.297475	0.341336	0.091306
B2M	-0.01779	-0.07141	0.057964	0.638494	0.896445	0.60439	0.671322	1.19E-07	-0.11368	0.160387	-0.0641	0.410257	0.225948	0.85651	0.337848	0.997685
PSG2	-0.04582	-0.07892	-0.01317	-0.19021	0.737372	0.563154	0.923239	0.160281	0.007083	-0.42281	0.277959	-0.29663	0.518414	0.001905	0.966141	0.023927
JPH1	0.094728	0.21712	-0.08422	-0.37752	0.483355	0.107973	0.533357	0.003791	-0.07366	0.386413	-0.2094	0.077211	0.313315	0.996006	0.083713	0.694982
PSG3	0.243978	-0.29424	0.287583	-0.11824	0.072644	0.0308	0.033256	0.38993	-0.05783	-0.36037	0.2746	-0.35736	0.35296	0.007513	0.964377	0.007977
PSG4	0.080745	-0.18083	0.17282	-0.19325	0.550452	0.182291	0.198599	0.149773	0.148793	-0.31523	0.194966	-0.25246	0.838153	0.016427	0.900329	0.04526
RETN	-0.22162	-0.14044	0.0732	-0.13628	0.097567	0.301901	0.588418	0.312088	-0.00914	-0.3062	-0.01869	-0.32266	0.47596	0.019247	0.45151	0.014369
PSG5	-0.10045	0.031024	-0.08225	-0.14439	0.45722	0.820438	0.542999	0.283894	-0.04429	-0.27781	0.03778	-0.27159	0.385037	0.030788	0.597312	0.033939
SLC2A4RG	0.116358	-0.0907	0.346058	-0.07528	0.393098	0.510176	0.008988	0.581353	0.087539	-0.23939	0.152027	-0.11429	0.718534	0.05454	0.840604	0.224736
PSG6	-0.03931	0.032745	0.174652	0.013323	0.77158	0.810659	0.193809	0.921643	0.070437	-0.3192	-0.00936	-0.26508	0.679091	0.0153	0.475669	0.037508
BARHL1	-0.02754	-0.12985	0.269516	-0.29434	0.838853	0.340158	0.042621	0.026251	0.046226	-0.39155	0.186609	-0.37897	0.619838	0.003562	0.890163	0.004699
PSG7	0.016196	-0.02221	-0.14812	-0.02258	0.904817	0.870946	0.27152	0.8676	-0.19724	-0.08163	-0.1241	-0.03572	0.094443	0.294845	0.208337	0.406848
FMN2	0.033209	-0.2869	0.169836	-0.57999	0.806272	0.032049	0.20658	2.26E-06	-0.15019	-0.6127	-0.04542	-0.46323	0.159555	3.01E-06	0.383508	0.000594
PSG9	0.019391	0.034796	0.156895	-0.29193	0.886158	0.799039	0.243806	0.027562	-0.01518	-0.10399	0.170347	-0.26105	0.460132	0.245806	0.868381	0.039859
PSG11	0.118299	-0.21484	0.152188	-0.18714	0.385197	0.115221	0.262832	0.167264	0.181065	-0.3692	0.053131	-0.21547	0.88575	0.005784	0.635564	0.075201
PSKH1	0.052748	0.087094	0.223048	0.015051	0.696766	0.523298	0.095365	0.911522	-0.00247	0.143458	-0.06738	0.011645	0.493504	0.829232	0.330059	0.530613
PSMA1	-0.02408	0.315496	-0.3282	0.305805	0.858909	0.017858	0.012689	0.020703	-0.0668	0.580891	-0.20588	0.461102	0.329588	0.999988	0.087426	0.99937
ZC3HAV1	-0.0198	0.231881	-0.28283	0.350625	0.883771	0.085501	0.033027	0.007496	-0.07611	0.514589	-0.16498	0.448342	0.307572	0.999873	0.139394	0.99911
PSMA2	-0.01022	0.270926	-0.32121	0.2537	0.939865	0.043421	0.014839	0.056879	-0.15713	0.595366	-0.27451	0.499522	0.148505	0.999994	0.034007	0.999796
IFNK	0.096128	-0.09717	0.196934	-0.25988	0.480954	0.480323	0.145734	0.053076	0.080277	-0.25864	0.248273	-0.29034	0.702061	0.04132	0.949959	0.025152
SLAMF8	-0.09862	-0.12536	0.200704	0.527145	0.469587	0.36179	0.138022	2.99E-05	-0.02282	-0.07291	0.11175	0.150708	0.440165	0.315071	0.767563	0.841283
GPR137	-0.14813	-0.00438	0.156682	-0.18166	0.275917	0.974703	0.248831	0.180277	-0.31083	0.046923	-0.09403	-0.05799	0.018846	0.620228	0.271886	0.352571
PSMA3	-0.0178	0.210562	-0.24086	0.297711	0.895427	0.119308	0.071101	0.024504	-0.16535	0.457986	-0.21886	0.428612	0.136057	0.999314	0.074308	0.99852
SPHK2	0.009905	-0.14003	0.172316	-0.12238	0.941708	0.303338	0.199932	0.364445	0.030883	-0.23512	0.220636	-0.23706	0.580722	0.057869	0.927365	0.05634
TCEAL7	0.164809	-0.19053	0.179614	-0.18843	0.224817	0.163504	0.185305	0.164296	0.147031	-0.49563	0.292182	-0.21322	0.83524	0.000231	0.974268	0.077404
PSMA4	-0.10153	0.309485	-0.37073	0.262793	0.452344	0.020284	0.004527	0.048273	-0.14317	0.598186	-0.21252	0.479602	0.171261	0.999994	0.080518	0.999628
GRIPAP1	-0.17567	-0.07771	-0.02368	-0.07743	0.191171	0.569178	0.861203	0.566993	-0.32515	0.101328	-0.01197	-0.03428	0.013731	0.748589	0.468891	0.410538
C15orf24	-0.00163	0.156039	-0.26595	0.238462	0.990499	0.255278	0.047577	0.076749	-0.09338	0.325221	-0.25138	0.282689	0.268526	0.986287	0.047884	0.971516
RAD18	0.098789	0.225343	-0.14731	0.137068	0.464715	0.094952	0.274174	0.309285	0.016951	0.333441	-0.16246	0.346467	0.544514	0.988229	0.143161	0.990832
BRUNOL4	-0.02859	-0.07653	0.253242	-0.18141	0.832828	0.57508	0.057343	0.176856	0.105291	-0.36972	0.192748	-0.31597	0.756913	0.005722	0.897698	0.01621
PSMA5	-0.06539	0.147501	-0.31788	0.246827	0.6289	0.277988	0.015968	0.064173	-0.19869	0.470257	-0.29509	0.408562	0.092798	0.999513	0.024542	0.997591
PSMA6	-0.01485	0.27611	-0.3647	0.274333	0.912673	0.039413	0.005283	0.038915	-0.23827	0.505235	-0.26825	0.43781	0.055403	0.999829	0.037402	0.998828
PSMA7	0.025975	0.131878	-0.23287	0.498098	0.849289	0.337172	0.084143	9.37E-05	-0.14532	0.563343	-0.37793	0.45789	0.167613	0.999977	0.00524	0.999312
CDC42SE1	0.101191	0.147838	-0.05706	0.246983	0.458044	0.281415	0.676179	0.066489	0.209699	0.328442	-0.06617	0.182053	0.916598	0.986194	0.334774	0.88433
FSTL5	-0.03018	-0.18478	0.136605	-0.32147	0.823674	0.172773	0.310937	0.014754	-0.04179	-0.44199	0.133577	-0.29743	0.391365	0.001051	0.809153	0.022351

UGCGL1	0.032697	0.241274	-0.09677	0.298023	0.809207	0.073233	0.47394	0.024347	-0.076	0.399022	-0.14741	0.336826	0.307846	0.996992	0.166942	0.988958
KCMF1	-0.03877	0.433071	-0.31582	0.139096	0.774648	0.000857	0.016704	0.302114	-0.10159	0.548305	-0.26546	0.377008	0.250862	0.99996	0.039	0.995099
TM9SF3	0.04758	0.309199	-0.15995	0.185985	0.72524	0.020407	0.234644	0.166002	0.033193	0.372758	-0.13469	0.269432	0.58667	0.994634	0.18885	0.964909
PSMB1	0.009127	0.256332	-0.33553	0.240276	0.946279	0.056528	0.010726	0.071809	-0.1683	0.52497	-0.28954	0.42507	0.131766	0.99991	0.026853	0.998384
MDM1	-0.09132	0.011193	-0.07809	-0.14037	0.499289	0.934749	0.563688	0.297649	-0.20035	-0.12431	0.043937	-0.05659	0.090934	0.205218	0.612785	0.354359
LGALS14	0.020684	-0.04772	0.128897	-0.23601	0.878622	0.726883	0.339283	0.077151	0.052934	-0.34468	0.295626	-0.2363	0.636597	0.009493	0.975674	0.056936
C8orf4	0.143564	-0.16253	-0.07012	0.150025	0.291158	0.235783	0.607592	0.269757	-0.0135	-0.01482	0.034938	-0.03233	0.464525	0.461063	0.590116	0.415543
UBQLN4	-0.02411	0.024093	-0.07189	0.075434	0.858689	0.860093	0.595126	0.577054	0.097027	0.536195	-0.14112	0.462419	0.739393	0.999939	0.177576	0.999393
AGPAT3	-0.29593	0.269821	-0.03166	0.08414	0.026798	0.046349	0.81682	0.537541	-0.32377	0.359356	-0.29859	0.264736	0.014083	0.992911	0.023167	0.962297
AGPAT4	-0.12238	-0.41608	0.072965	0.030684	0.364452	0.001426	0.589616	0.820748	0.045652	-0.2473	0.130947	0.079651	0.617064	0.050732	0.801574	0.698507
DPYSL5	-0.03609	-0.11112	0.153759	-0.32762	0.789828	0.414893	0.253478	0.012855	-0.07717	-0.26119	0.017371	-0.22682	0.305102	0.039778	0.545086	0.064773
WRNIP1	-0.02438	0.119839	-0.18281	0.009192	0.85715	0.379	0.173475	0.945893	-0.17604	0.484338	-0.41233	0.309574	0.120942	0.999676	0.002442	0.981852
BDH2	0.103575	0.08147	-0.22791	0.261945	0.443252	0.550568	0.088178	0.049028	0.18543	0.167187	0.105356	0.334763	0.891356	0.866619	0.75452	0.988518
ANKS1B	0.316083	-0.24898	0.32147	-0.0174	0.016608	0.06425	0.014753	0.897775	0.111422	-0.30161	0.21647	-0.08238	0.766901	0.022033	0.920931	0.295283
PSMB2	-0.02355	0.090783	-0.20961	0.372464	0.863193	0.509789	0.121025	0.0047	-0.20923	0.60222	-0.29116	0.501007	0.08143	0.999995	0.026162	0.999805
TMEM167E	0.065627	0.218058	-0.18599	0.227496	0.627664	0.106422	0.165979	0.088774	0.032978	0.372041	-0.21076	0.293851	0.585138	0.994075	0.084837	0.974957
NDUFA4L2	0.038987	-0.15794	0.240973	-0.07456	0.773396	0.245003	0.070963	0.581506	0.021319	-0.33637	0.231514	-0.2079	0.554626	0.012791	0.932384	0.08784
PNO1	0.00058	0.189835	-0.34926	0.235603	0.996584	0.161115	0.007749	0.077685	-0.1531	0.435494	-0.28059	0.374227	0.154855	0.998757	0.030954	0.994798
PAPOLB	0.291017	-0.35107	0.225849	-0.30191	0.028076	0.007979	0.091172	0.022466	0.284435	-0.47701	0.201955	-0.41613	0.972306	0.000402	0.908305	0.002011
SH3GLB2	-0.17502	-0.0196	0.053076	-0.01272	0.192861	0.885993	0.694975	0.925184	-0.21143	0.033915	-0.08661	-0.0115	0.079189	0.588526	0.285788	0.469759
C15orf39	-0.01625	-0.19429	0.110066	-0.09407	0.904511	0.151332	0.415044	0.486436	-0.05555	-0.15181	-0.0245	-0.18693	0.356922	0.156941	0.436536	0.106759
THAP10	-0.059	-0.11182	-0.0304	-0.49881	0.66581	0.41636	0.823971	9.12E-05	-0.02884	-0.43312	0.140106	-0.19405	0.424565	0.001321	0.820677	0.09814
SPIRE1	0.207276	-0.0643	0.032557	0.080856	0.121843	0.637784	0.810005	0.549902	0.369851	-0.39297	0.299086	-0.34329	0.994294	0.003451	0.977023	0.009753
PSMB3	-0.12517	0.068297	-0.31481	0.246284	0.353535	0.616973	0.017076	0.06478	-0.23832	0.464257	-0.27881	0.372165	0.055357	0.999423	0.031821	0.994566
STARD7	0.041369	0.17918	-0.28736	0.351064	0.759956	0.186388	0.030207	0.007416	-0.14854	0.681871	-0.3511	0.553199	0.162256	1	0.00902	0.999967
C21orf7	0.229651	-0.23081	0.098917	-0.18628	0.088638	0.090004	0.468261	0.169241	-0.18188	-0.37896	0.142191	-0.31936	0.113188	0.0047	0.824267	0.015256
C11orf60	-0.07409	-0.11171	-0.08187	-0.21649	0.583873	0.412421	0.544904	0.105769	-0.26688	-0.10435	0.009845	-0.04202	0.036493	0.245041	0.52559	0.390786
C1GALT1	-0.0659	0.220553	-0.16363	0.144323	0.626233	0.102379	0.223886	0.284127	-0.03676	0.322315	-0.08555	0.202896	0.404175	0.985539	0.288163	0.911869
OTOR	0.009717	-0.27258	0.145718	-0.33454	0.942813	0.042108	0.279448	0.010974	0.078566	-0.37699	0.292403	-0.38377	0.698119	0.004903	0.974361	0.004233
EXOSC5	-0.07118	0.229856	-0.21278	0.248203	0.598797	0.088345	0.11203	0.062656	-0.13461	0.481542	-0.45019	0.228618	0.188992	0.999594	0.001084	0.934548
SMARCAD1	0.022015	0.193375	-0.21289	0.042774	0.870873	0.153301	0.111838	0.752061	-0.03238	0.367904	-0.12059	0.276672	0.415412	0.994057	0.215044	0.968653
MEIS3	0.122624	-0.30876	0.302403	-0.16103	0.363499	0.020594	0.022235	0.231437	0.154182	-0.32786	0.047952	-0.48159	0.846862	0.013064	0.622784	0.000351
C2orf83	0.03268	-0.08357	0.168569	-0.26024	0.809303	0.540304	0.210038	0.050579	0.134196	-0.38594	0.092775	-0.25331	0.813037	0.004036	0.727792	0.044699
DHX33	-0.11633	0.433429	-0.2748	0.097314	0.388815	0.000847	0.038571	0.471441	-0.1762	0.666104	-0.26291	0.431414	0.120728	1	0.040504	0.998621
PSMB4	-0.08639	0.261002	-0.33019	0.395853	0.522841	0.052024	0.012126	0.002304	-0.21118	0.585636	-0.35177	0.511208	0.079447	0.99999	0.008903	0.999859
SEMA3G	0.128912	-0.25731	0.284845	-0.04536	0.339224	0.055557	0.031746	0.737611	0.206953	-0.32525	0.254478	-0.2302	0.916205	0.013705	0.954194	0.06189
MCCC1	0.047582	0.449332	-0.22072	0.10013	0.725232	0.000513	0.098965	0.458643	0.049967	0.443894	-0.09737	0.234035	0.629214	0.999	0.262285	0.941261
NMUR2	-0.10943	0.318662	-0.08196	0.283265	0.417754	0.016683	0.544441	0.032747	-0.08218	0.226996	-0.1988	0.111892	0.295752	0.933133	0.097888	0.767847
PAK6	0.018256	0.241604	0.010521	-0.22202	0.892777	0.072829	0.93809	0.096934	-0.21526	0.407144	-0.21523	0.208706	0.075403	0.997509	0.077818	0.918029
LXN	-0.09823	-0.12742	-0.15747	0.009855	0.467275	0.349345	0.242059	0.942	-0.28115	-0.04161	0.042131	0.085107	0.029197	0.391821	0.608263	0.713065
NCLN	0.062223	0.025269	0.175251	-0.01721	0.648697	0.854698	0.196391	0.899832	0.002348	0.160956	-0.03288	-0.00765	0.506106	0.854572	0.416105	0.480108
GPR108	0.0472	0.212061	-0.09774	0.004582	0.727351	0.116641	0.469485	0.973014	-0.11795	0.492504	-0.23129	0.275293	0.217497	0.999746	0.063171	0.967966
SPPL2B	-0.11098	-0.13759	0.14769	-0.14672	0.415461	0.31648	0.277366	0.280585	-0.19883	-0.01993	0.086253	-0.17169	0.095198	0.448306	0.711135	0.129717
FEM1C	-0.01481	0.249854	-0.22736	-0.01293	0.912947	0.063292	0.088965	0.923959	0.22511	0.295351	0.036451	0.140014	0.933727	0.976855	0.593951	0.823313
PSMB5	-0.08627	0.058332	-0.20845	0.046454	0.523438	0.669356	0.1197	0.731496	-0.34215	0.443701	-0.43001	0.338678	0.009972	0.998995	0.001598	0.989341
DUS3L	-0.10316	0.025345	0.025202	-0.04744	0.445074	0.852904	0.852377	0.726016	-0.10741	0.092523	-0.26743	-0.07362	0.23869	0.729588	0.037867	0.313395
CA10	-0.01787	-0.20915	0.204741	-0.17434	0.895029	0.12187	0.126574	0.194609	0.119868	-0.34289	0.208095	-0.29711	0.786249	0.00983	0.914927	0.022472
C11orf75	0.164038	-0.0562	0.134402	0.138996	0.222731	0.680789	0.318878	0.302463	0.34487	0.025247	0.067327	0.141696	0.990542	0.566137	0.669826	0.82622
C14orf162	-0.15492	-0.19761	0.09361	-0.18633	0.249874	0.144336	0.488556	0.165211	-0.00998	-0.44461	0.134915	-0.44622	0.473756	0.000982	0.811549	0.000941
PMEPA1	0.382611	-0.12366	0.35564	0.408883	0.003611	0.36841	0.007147	0.001755	0.445061	-0.2031	0.283688	-0.08291	0.99903	0.087915	0.97052	0.291928

ARNTL2	-0.23002	0.449925	-0.24113	0.187221	0.088117	0.000568	0.073412	0.167069	-0.12313	0.682366	-0.18249	0.423933	0.207463	1	0.115098	0.998337
PSMB6	-0.01374	0.072058	-0.02023	0.242305	0.919934	0.601111	0.882376	0.071977	-0.13403	0.532044	-0.25131	0.376469	0.187262	0.999929	0.04793	0.995041
DUSP22	-0.24322	0.269811	-0.19425	0.123172	0.06829	0.044324	0.147652	0.361342	-0.24295	0.30419	-0.14849	0.110072	0.051882	0.980076	0.165154	0.76676
C3orf37	-0.02727	0.085849	-0.2549	0.280877	0.840394	0.52928	0.055673	0.034311	-0.14889	0.498928	-0.24092	0.316623	0.16168	0.999792	0.055441	0.983977
C16orf61	-0.0125	0.336422	-0.34224	0.277937	0.926492	0.01124	0.009166	0.03632	-0.06522	0.56287	-0.26559	0.382663	0.333379	0.999977	0.038925	0.995663
ENY2	0.135775	0.114384	-0.12213	0.164644	0.313916	0.401232	0.365436	0.221001	0.093723	0.296198	-0.05933	0.283011	0.732218	0.977181	0.349323	0.971663
OLFML3	0.260292	-0.17172	0.181718	0.396918	0.050526	0.205714	0.176106	0.002236	0.111299	-0.06642	0.299908	0.241454	0.769253	0.330475	0.977334	0.947015
MRPS22	-0.12209	0.240376	-0.43768	0.11294	0.365623	0.074342	0.000662	0.402893	-0.15896	0.508775	-0.2503	0.317933	0.145679	0.999847	0.048629	0.984348
C11orf30	-0.06931	0.132344	-0.08022	-0.20946	0.608439	0.33089	0.553055	0.11787	0.019292	0.10028	0.000444	-0.03518	0.55063	0.746362	0.501154	0.408224
MFF	0.080461	0.249192	-0.13871	0.153003	0.551859	0.064017	0.30346	0.255848	0.206274	0.362166	-0.06288	0.297892	0.91549	0.993307	0.340783	0.977822
SDR39U1	-0.04371	-0.08757	0.079045	0.236403	0.74683	0.521043	0.558902	0.076652	0.102922	0.100059	-0.01222	0.004585	0.751955	0.745893	0.46825	0.512062
XAB2	-0.0212	-0.09193	-0.10148	0.045929	0.87563	0.500427	0.452586	0.734419	0.043651	0.233335	-0.02958	-0.05885	0.612068	0.938535	0.424428	0.350482
PSMB7	-0.05766	0.079534	-0.30943	0.12818	0.672968	0.5638	0.020307	0.346466	-0.22271	0.53102	-0.25102	0.351232	0.068413	0.999927	0.048133	0.991654
SMYD2	-0.15879	-0.04949	-0.08573	-0.15288	0.23808	0.717167	0.526052	0.256241	-0.34577	-0.05249	-0.08299	0.010152	0.009293	0.364506	0.293915	0.526694
C5orf15	-0.14646	0.028506	-0.09122	-0.09937	0.276974	0.834797	0.499796	0.46207	-0.24637	-0.00442	-0.00493	0.129797	0.051398	0.488498	0.487341	0.802283
PRTFDC1	0.055294	0.099783	-0.2324	0.328872	0.682889	0.464356	0.081929	0.012496	0.249874	0.233006	-0.00958	0.309873	0.953011	0.940427	0.475088	0.981946
NT5M	0.035044	-0.15349	0.237793	-0.15687	0.795794	0.258737	0.074884	0.243891	0.057488	-0.34316	0.104954	-0.27296	0.647838	0.009778	0.753687	0.033222
NIT2	-0.18873	0.251049	-0.19161	0.087631	0.159731	0.061997	0.153333	0.516864	-0.16149	0.329922	-0.03187	0.222824	0.141821	0.987427	0.417681	0.931685
MEPE	0.026926	-0.15863	0.150601	-0.42002	0.842403	0.242935	0.263474	0.001143	0.08666	-0.38475	0.271562	-0.35218	0.716563	0.004143	0.964424	0.00819
LHX9	0.040326	-0.14764	0.18006	-0.2557	0.76583	0.27753	0.180152	0.054884	0.186089	-0.32946	0.083473	-0.38154	0.892185	0.012681	0.707174	0.004444
OTUD7B	-0.18539	0.341026	-0.21904	-0.3782	0.171338	0.010837	0.104811	0.004054	-0.17409	0.245748	-0.18578	0.01505	0.12362	0.950141	0.110877	0.539537
LOC100133	0.069789	0.223311	-0.15041	0.18685	0.60596	0.09805	0.264097	0.164005	0.109841	0.288008	-0.01961	0.225281	0.766288	0.973868	0.449128	0.933877
PSMB8	-0.17329	0.010578	-0.06492	0.519339	0.197356	0.938324	0.63137	3.48E-05	-0.22151	0.455224	-0.13959	0.50093	0.069511	0.99926	0.180221	0.999804
SHD	-0.03489	-0.15855	0.229884	-0.14671	0.796699	0.243153	0.085385	0.276166	0.084165	-0.35858	0.098182	-0.24393	0.710933	0.007202	0.739448	0.051164
RGMA	0.088506	-0.02383	0.174533	-0.08097	0.512666	0.861606	0.194118	0.549358	0.132027	-0.04388	0.051944	-0.06148	0.809117	0.386078	0.632648	0.342404
WDR93	-0.19636	-0.26489	0.022449	-0.33221	0.143207	0.048506	0.868355	0.01158	-0.24854	-0.38801	0.013275	-0.23798	0.047903	0.003856	0.534485	0.055625
PARP6	-0.21204	0.27691	-0.03286	-0.05693	0.113312	0.038823	0.808275	0.674011	0.070888	0.026056	-0.06141	-0.07389	0.680159	0.568236	0.344315	0.312765
C14orf132	0.012648	-0.21248	0.292037	-0.22005	0.925604	0.115895	0.027505	0.100017	-0.11117	-0.39263	-0.04061	-0.30202	0.231014	0.003478	0.395552	0.020679
RPL23AP32	0.322262	-0.10738	0.377308	0.133754	0.015427	0.435223	0.004149	0.325719	0.430353	-0.3473	0.156365	-0.22053	0.998583	0.00902	0.847493	0.070409
PYY	-0.12452	-0.07181	0.253071	-0.14798	0.35609	0.598921	0.057517	0.271977	0.15964	-0.54219	0.222308	-0.47178	0.855371	4.97E-05	0.928915	0.000467
ATXN7L3	0.088137	0.239271	-0.11431	-0.07816	0.514436	0.075724	0.397156	0.563313	0.031548	0.449199	-0.17366	0.316622	0.582438	0.99913	0.126965	0.983977
CEACAM19	0.065023	0.103334	0.295503	-0.06263	0.630841	0.448529	0.025637	0.643502	0.063893	-0.25366	0.159739	-0.23534	0.663433	0.044473	0.852716	0.05769
FAM20C	0.040749	-0.09632	0.245723	0.10369	0.763445	0.480065	0.065413	0.442741	0.311496	-0.22297	0.004539	-0.04888	0.98137	0.070474	0.511665	0.37492
STOX2	-0.05451	0.223463	0.135143	-0.17979	0.687142	0.097816	0.316195	0.180828	-0.06271	0.016515	0.137173	-0.05293	0.339432	0.543373	0.815553	0.363404
PRDM8	0.076486	-0.25487	0.361819	-0.18331	0.575286	0.060391	0.006143	0.176273	-0.10381	-0.34044	0.023011	-0.26795	0.246187	0.010304	0.559633	0.035898
PRDM9	-0.0511	-0.10753	0.060921	-0.12695	0.708381	0.434558	0.655578	0.351155	0.087768	-0.26817	0.220849	-0.24169	0.716782	0.037446	0.925156	0.054855
PSMB9	-0.09692	-0.14115	0.108177	0.680181	0.473244	0.299448	0.423145	5.90E-09	-0.17569	0.086095	0.067201	0.372935	0.124169	0.713057	0.667645	0.994183
PRDM10	-0.08964	0.377223	-0.13885	-0.20461	0.50728	0.004158	0.302972	0.126828	-0.20107	0.184801	-0.09557	-0.06933	0.090137	0.89056	0.266148	0.323526
PRDM11	0.077571	-0.2512	0.142398	-0.12634	0.56628	0.061838	0.290666	0.349015	0.081005	-0.26623	0.06717	-0.2515	0.703731	0.036857	0.669454	0.045895
KTELC1	-0.00389	0.344023	-0.23821	0.449188	0.977093	0.009428	0.07436	0.000457	-0.01316	0.476754	-0.18809	0.426441	0.465404	0.999595	0.107983	0.998438
PSMG2	0.058426	0.259583	-0.31913	0.21417	0.665957	0.053361	0.015535	0.109655	-0.14866	0.61009	-0.33063	0.400624	0.162064	0.999997	0.013268	0.997101
C17orf48	0.015198	0.098029	-0.16293	-0.06801	0.910658	0.472285	0.225926	0.615178	0.089796	-0.14349	0.08943	-0.2427	0.723566	0.170718	0.720459	0.052064
DTWD1	0.101119	0.157626	-0.06717	0.169185	0.454196	0.245956	0.619583	0.20835	0.140302	0.083474	0.052151	0.26394	0.823814	0.709365	0.633158	0.96184
BBX	0.142186	0.048739	-0.10669	0.184159	0.291392	0.721305	0.4296	0.170273	0.147374	0.34328	0.088209	0.339443	0.83581	0.990245	0.717758	0.989496
PSMB10	-0.17179	-0.21953	0.087546	0.273418	0.201327	0.104016	0.517272	0.039597	-0.21588	0.115508	-0.13114	0.211808	0.074798	0.777691	0.195254	0.921188
CDC42SE2	-0.05372	0.124614	-0.22575	0.419371	0.691463	0.360158	0.091323	0.001166	0.015213	0.351715	0.016891	0.343839	0.539966	0.991734	0.543846	0.99035
KIF15	-0.05368	0.124008	-0.11663	-0.07673	0.694369	0.367039	0.391972	0.574057	-0.01431	0.430891	-0.24297	0.237056	0.46283	0.998436	0.053892	0.941549
TOMM22	-0.10256	0.338038	-0.26988	-0.10279	0.451967	0.011597	0.044265	0.450913	-0.10287	0.405171	-0.17694	0.15352	0.248153	0.997391	0.122463	0.845809
CHPT1	0.2185	-0.09024	0.052786	0.249161	0.102492	0.508332	0.69656	0.061616	0.560999	-0.29887	0.183647	-0.34185	0.999975	0.021817	0.886395	0.010028
TULP4	-0.08931	0.272069	-0.30951	0.043151	0.508826	0.04251	0.019136	0.749943	-0.11208	0.412315	-0.29975	0.180649	0.229165	0.997796	0.022727	0.885206

SLC12A9	0.087257	-0.00721	0.053675	0.07164	0.518658	0.957967	0.691702	0.596409	0.038664	0.192157	-0.19891	-0.02356	0.600681	0.899616	0.095113	0.438237
CABC1	-0.0055	-0.15469	0.116664	0.046534	0.967623	0.254977	0.38746	0.731052	-0.13808	0.052292	-0.0381	0.007423	0.180065	0.635005	0.401882	0.519524
CTNNBIP1	0.062637	0.024051	0.098573	-0.03966	0.643455	0.860334	0.465697	0.769565	0.116492	0.020575	-0.13045	-0.08615	0.779638	0.553979	0.196511	0.284582
ADAMTS9	0.134184	0.011584	0.104644	0.471367	0.31967	0.932474	0.438532	0.000215	0.253633	-0.02267	-0.00484	0.222187	0.955512	0.440551	0.487421	0.931108
BAAT	-0.17515	-0.05543	-0.09751	-0.28924	0.196663	0.684919	0.474628	0.030613	0.007293	-0.36149	0.052057	-0.23389	0.519183	0.006787	0.632926	0.058853
C9orf31	0.088071	-0.31285	0.013055	0.092881	0.514753	0.018893	0.923218	0.491965	0.232629	-0.41366	0.082241	-0.24982	0.940119	0.002134	0.704392	0.047024
ACN9	-0.13878	0.229015	-0.29306	0.075874	0.303215	0.089548	0.026943	0.574826	-0.24613	0.459692	-0.31374	0.372662	0.049588	0.999345	0.017921	0.994623
C7orf36	-0.00049	0.287508	-0.2092	0.067229	0.997137	0.031668	0.118347	0.61927	0.053672	0.41138	-0.1634	0.246351	0.638427	0.997746	0.141741	0.950569
CCDC47	-0.07643	0.366864	-0.35909	0.143813	0.575563	0.005869	0.006571	0.290315	0.034571	0.412234	-0.12363	0.338634	0.59021	0.997792	0.209235	0.989332
CXCR7	0.071579	0.238212	-0.21015	0.039287	0.600114	0.079885	0.120056	0.773746	-0.2413	0.263596	-0.14971	0.0172	0.053104	0.96164	0.16316	0.545166
PSMC2	0.010706	0.265875	-0.34602	0.273757	0.937002	0.047641	0.008376	0.039343	-0.14121	0.474178	-0.18861	0.430821	0.174617	0.999564	0.107339	0.9986
CABP4	-0.00283	-0.15009	0.207168	-0.15007	0.983318	0.269558	0.122042	0.265168	0.152701	-0.35502	0.139386	-0.39578	0.844499	0.007737	0.819428	0.003238
AKR1B10	0.08898	0.411334	-0.19265	-0.23623	0.510406	0.001636	0.151079	0.07687	-0.16226	0.483707	-0.2079	0.27286	0.140654	0.99967	0.085277	0.966724
COQ9	-0.08978	0.076078	-0.0388	-0.09329	0.510527	0.580914	0.776496	0.494052	-0.21112	0.649312	-0.29758	0.239207	0.079504	0.999999	0.023555	0.94532
CCNL1	0.030202	0.190386	-0.08006	0.291823	0.823519	0.15988	0.553874	0.027623	0.405785	0.302928	-0.00294	0.071704	0.997428	0.97964	0.492364	0.682088
CIAPIN1	-0.11174	0.228081	-0.07696	0.305511	0.40795	0.0909	0.569367	0.020832	-0.30954	0.537175	-0.27903	0.435471	0.018159	0.999941	0.031716	0.998756
PSMC3	-0.01706	0.011491	-0.04665	0.241266	0.90067	0.933639	0.732815	0.073243	-0.07159	0.535702	-0.28765	0.29903	0.318173	0.999938	0.027681	0.978244
C16orf62	0.045796	0.351692	-0.29083	0.219245	0.735161	0.007862	0.028182	0.101297	-0.04223	0.500219	-0.15488	0.430828	0.390247	0.9998	0.154844	0.9986
PDXP	-0.08507	-0.27444	0.20487	-0.13277	0.529233	0.040672	0.126331	0.32486	0.003187	-0.35994	0.123084	-0.3008	0.508385	0.007004	0.789737	0.021113
SLC17A7	0.04945	-0.2334	0.243839	-0.0629	0.714892	0.083417	0.067571	0.642069	-0.01283	-0.19255	0.05016	-0.14521	0.466283	0.099919	0.62825	0.167803
C1orf63	-0.01563	0.039006	0.085591	-0.02259	0.908145	0.775321	0.526703	0.867545	0.140814	0.03181	-0.02334	-0.12199	0.8247	0.583113	0.439518	0.209655
ANKMY2	-0.05633	0.068625	-0.25829	-0.04535	0.677292	0.615281	0.052392	0.737638	-0.1443	0.103687	-0.12377	0.210141	0.172145	0.751055	0.211731	0.917054
RARS2	0.010654	0.24938	-0.19429	0.237107	0.937303	0.06381	0.147551	0.075753	0.132786	0.350599	-0.15383	0.216151	0.810493	0.991549	0.156503	0.925459
PSMC4	-0.02684	0.061665	-0.26931	0.159076	0.842877	0.651643	0.04279	0.237233	-0.25834	0.499458	-0.24838	0.33361	0.041507	0.999795	0.049963	0.988266
TWSG1	0.154294	0.179567	-0.13706	0.235339	0.251809	0.185422	0.309303	0.078027	0.172516	0.297687	0.078637	0.263502	0.874202	0.977745	0.696186	0.961586
PLSCR2	-0.01213	0.167248	0.148225	-0.10998	0.929305	0.222286	0.27561	0.419718	0.260222	-0.27202	0.147378	-0.16259	0.959644	0.033712	0.833006	0.140156
PLSCR3	0.016311	-0.05303	0.018196	0.199825	0.904144	0.697896	0.893129	0.136146	0.077192	0.143371	-0.06722	0.140022	0.694938	0.829084	0.330423	0.823328
PSMC5	-0.1307	0.206424	-0.33082	0.195978	0.332499	0.126913	0.011955	0.144007	-0.09179	0.467176	-0.38977	0.294429	0.272035	0.999468	0.004064	0.976496
UTP3	-0.16657	0.355396	-0.35063	0.19058	0.215571	0.00719	0.007494	0.1556	-0.14787	0.382159	-0.10032	0.307408	0.163369	0.995615	0.256015	0.981154
C6orf50	0.237127	-0.13245	0.137857	-0.3415	0.078464	0.33507	0.310961	0.009999	0.068952	-0.2681	-0.0581	-0.1991	0.673667	0.037489	0.353963	0.094902
CHRNA10	-0.25223	-0.2407	0.136286	-0.10935	0.05838	0.073936	0.312079	0.418092	-0.06823	-0.37185	0.032299	-0.22817	0.326153	0.005471	0.58341	0.063611
TBX20	0.193488	-0.2278	0.313377	-0.25237	0.149273	0.09131	0.017613	0.058234	-0.01746	-0.3505	0.31112	-0.25959	0.454683	0.009125	0.980092	0.042533
PSMC6	-0.00503	0.256986	-0.26218	0.257439	0.970365	0.055879	0.048822	0.053201	-0.15314	0.441255	-0.21712	0.370089	0.154802	0.998928	0.075975	0.994323
PCBP4	0.15011	-0.25012	0.127798	0.036474	0.265053	0.063001	0.343449	0.78765	0.269304	-0.2575	0.033003	-0.1949	0.96484	0.042025	0.585201	0.097149
DDX24	0.139324	-0.10791	-0.24376	0.164249	0.301313	0.4286	0.067667	0.222128	0.04348	0.063594	0.103365	0.103241	0.611642	0.660934	0.747837	0.750124
PSMD1	-0.05815	0.291885	-0.33947	0.142884	0.667444	0.029052	0.009785	0.289006	-0.16814	0.464832	-0.19973	0.342755	0.132007	0.999432	0.094183	0.990145
PSMD2	0.033497	-0.0412	-0.03727	0.183963	0.80639	0.765207	0.785094	0.174712	-0.12266	0.463111	-0.1671	0.384203	0.208361	0.999404	0.136285	0.995807
CASC5	-0.12336	0.261659	-0.18286	-0.06958	0.365046	0.053643	0.177359	0.610358	-0.11481	0.616878	-0.24821	0.367553	0.226326	0.999997	0.050087	0.993502
SLC17A6	-0.00328	-0.22736	0.040451	-0.34291	0.980704	0.091947	0.765129	0.009021	-0.01249	-0.23518	0.107242	-0.41082	0.467166	0.057822	0.758406	0.002284
AGTRAP	-0.24771	-0.11966	0.054597	-0.15955	0.065666	0.3842	0.689413	0.240179	-0.15865	-0.35473	0.12012	-0.28758	0.151827	0.009072	0.778534	0.029186
PLSCR4	0.20923	-0.14041	0.035635	0.223367	0.118289	0.302011	0.792429	0.094879	0.322004	-0.12426	0.220181	0.038949	0.985457	0.20532	0.926938	0.601409
ENTPD7	-0.24001	0.400243	-0.30225	0.193632	0.072131	0.00224	0.022308	0.148964	-0.20429	0.574743	-0.43396	0.412937	0.086622	0.999985	0.001449	0.997828
PSMD3	-0.00399	0.162471	-0.12988	0.073574	0.976511	0.231552	0.335563	0.586507	-0.18686	0.563461	-0.32774	0.367458	0.106848	0.999977	0.013982	0.994001
CASS4	0.041039	-0.25643	0.270491	0.20221	0.761812	0.056431	0.041848	0.131436	-0.05708	-0.29947	0.132583	-0.15143	0.354785	0.022831	0.804536	0.160359
PCNP	-0.04514	0.13102	-0.2347	0.249929	0.741157	0.340352	0.081662	0.063209	0.178266	0.134727	-0.04652	0.20882	0.882052	0.813991	0.380765	0.918147
CPA6	0.083553	-0.30821	0.189258	-0.35457	0.54039	0.02206	0.162415	0.007336	-0.00854	-0.30797	0.168571	-0.24563	0.477791	0.019791	0.862986	0.051932
C1orf128	0.070644	-0.02595	-0.25195	0.167857	0.601539	0.849448	0.05867	0.211998	0.039752	0.08164	-0.20694	-0.03846	0.603452	0.705185	0.086291	0.399827
RPGRIP1	-0.02075	-0.35339	0.234183	-0.24238	0.878245	0.007547	0.079543	0.069282	0.067668	-0.43589	0.23816	-0.39168	0.672501	0.001231	0.942422	0.003552
PARP11	0.041788	-0.05645	0.042185	0.312605	0.757599	0.679422	0.755364	0.017909	-0.01916	0.017115	0.013307	0.321644	0.449709	0.544941	0.534567	0.985362
AVEN	-0.02842	0.198345	-0.05646	-0.12628	0.833758	0.14281	0.676581	0.349274	-0.05343	0.099536	-0.19362	-0.04712	0.362176	0.744777	0.101264	0.377918

BACH1	0.032776	0.304675	-0.1911	0.354319	0.808753	0.022423	0.154455	0.006849	0.03386	0.319773	-0.18997	0.138556	0.588384	0.984858	0.105668	0.820773
PSMD4	-0.0782	0.086891	-0.30011	-0.00309	0.563151	0.524271	0.023319	0.981771	-0.10404	0.357897	-0.07934	0.291549	0.245694	0.992698	0.302197	0.975345
ANO2	0.255463	-0.25634	0.041836	0.148688	0.05512	0.05652	0.757325	0.269658	0.325434	-0.32878	0.218577	-0.12651	0.98634	0.012841	0.92542	0.201075
C12orf4	-0.04021	0.24262	-0.18231	0.208261	0.766511	0.071596	0.174684	0.120041	-0.00957	0.389603	-0.14391	0.336872	0.474832	0.996279	0.172801	0.988968
C12orf5	0.01489	0.245345	-0.31375	0.213106	0.912462	0.068372	0.017471	0.111472	-0.08839	0.40192	-0.16036	0.233793	0.279567	0.997186	0.146332	0.941065
PNPLA2	-0.03627	-0.03717	0.142472	-0.08137	0.78883	0.785641	0.290412	0.547372	0.182219	-0.01486	0.069811	-0.19655	0.887251	0.460953	0.675691	0.095232
CYSLTR2	-0.01024	-0.31939	0.053342	0.164268	0.939766	0.016422	0.693522	0.222073	0.27201	-0.42329	0.318005	-0.19449	0.964666	0.001883	0.982295	0.100232
NAT14	-0.20102	-0.29365	0.186999	-0.29927	0.133779	0.028051	0.163665	0.02373	-0.18414	-0.42353	0.126328	-0.31321	0.110285	0.001679	0.795854	0.017023
PDSS2	-0.02477	0.266477	-0.25297	0.122062	0.856216	0.049232	0.059958	0.370153	-0.08117	0.563161	-0.32437	0.40817	0.295899	0.999977	0.014859	0.997568
REXO4	-0.19398	-0.1227	-0.16624	0.039873	0.148216	0.367636	0.216507	0.76839	-0.31367	0.17171	-0.08436	0.12167	0.016885	0.873074	0.290831	0.789733
PSMD5	0.013419	0.238821	-0.32638	0.272289	0.921084	0.076293	0.013221	0.040454	0.109963	0.49511	-0.1748	0.380993	0.766537	0.999766	0.125393	0.995503
HRASLS	-0.11194	0.281356	-0.25221	-0.31756	0.407104	0.035674	0.058395	0.016079	-0.06611	-0.04351	-0.07199	-0.13096	0.331221	0.387008	0.319197	0.192833
RAB25	-0.20278	0.391929	-0.21733	-0.04402	0.133919	0.003084	0.107627	0.747344	-0.23807	0.715677	-0.37052	0.339689	0.055553	1	0.006114	0.989546
TRPC7	-0.2789	-0.04007	-0.09169	-0.24203	0.03739	0.77145	0.501528	0.072314	-0.00998	-0.34082	0.050363	-0.24556	0.473758	0.010229	0.62875	0.049994
PGLYRP4	-0.01264	-0.12861	0.112762	-0.10603	0.925651	0.344852	0.403639	0.43246	-0.12595	-0.21756	-0.06684	-0.27385	0.202134	0.07319	0.331329	0.032768
ZNF695	-0.00808	0.068252	-0.01655	-0.4206	0.952448	0.617204	0.902777	0.001123	0.055155	-0.06122	0.151999	-0.1187	0.642095	0.343046	0.840558	0.216029
INTS12	-0.01097	0.218304	-0.24887	-0.05951	0.935452	0.106018	0.061926	0.660149	-0.04384	0.191011	0.019474	0.15945	0.386178	0.898241	0.550518	0.855079
CAMK1D	-0.2463	0.336944	-0.32063	-0.153	0.064764	0.011107	0.01503	0.255868	-0.36239	0.382695	-0.09955	0.140846	0.006663	0.995666	0.257649	0.824755
SPINLW1	-0.12833	-0.27703	0.066971	-0.23018	0.34144	0.038739	0.620618	0.084972	0.00032	-0.42105	0.070552	-0.37809	0.500841	0.001784	0.677434	0.004789
GOPC	0.093917	0.00128	-0.11234	0.200185	0.487128	0.992529	0.405418	0.135426	0.197555	0.151406	-0.01535	0.287411	0.905917	0.842415	0.460149	0.973612
LPAR5	0.043374	-0.03822	0.111084	0.03266	0.748693	0.779713	0.410717	0.809416	0.114852	0.043945	0.039852	-0.04773	0.776386	0.614088	0.602535	0.376392
NUP107	-0.05125	0.258288	-0.25571	0.18753	0.704995	0.054605	0.054879	0.16245	-0.03546	0.447913	-0.08885	0.378182	0.407515	0.9991	0.280826	0.995221
CD248	0.209868	-0.26991	0.20158	0.083071	0.120559	0.046275	0.136275	0.542738	0.010432	-0.05081	0.263992	0.215695	0.527428	0.368677	0.96014	0.925019
PLXDC1	0.064648	-0.15624	0.115839	0.46044	0.632814	0.25018	0.390848	0.000313	-0.01529	0.260017	0.092402	0.473513	0.459823	0.95952	0.726979	0.999556
CD177	-0.04221	-0.23336	0.237835	0.002517	0.757401	0.086407	0.07755	0.985309	0.037318	-0.12648	0.333369	-0.0453	0.597244	0.201128	0.987384	0.3825
RHBG	0.056989	-0.11201	0.233762	-0.31167	0.673703	0.411133	0.0801	0.018272	0.044105	-0.22955	0.120912	-0.21093	0.61449	0.062444	0.785582	0.079694
LYRM4	0.068161	0.060759	0.192242	0.151297	0.617675	0.659459	0.155771	0.265669	-0.1044	0.25834	-0.01452	0.275487	0.244952	0.958496	0.462296	0.968063
MRPL47	-0.08132	0.266994	-0.34676	0.034151	0.547615	0.046678	0.008229	0.800893	-0.25454	0.431495	-0.22269	0.393064	0.043903	0.998624	0.070737	0.996556
PSMD7	-0.0032	0.236703	-0.23192	0.350717	0.981354	0.08187	0.085445	0.008047	-0.19213	0.541188	-0.25137	0.378128	0.100413	0.999949	0.047892	0.995215
ATP13A1	-0.2165	0.049438	-0.02425	0.052294	0.105761	0.717471	0.857898	0.699253	-0.29228	0.358543	-0.2712	0.247684	0.024359	0.992793	0.035772	0.951504
CHMP1B	0.109297	0.232438	-0.29764	0.072171	0.418328	0.08473	0.024541	0.593684	0.179794	0.352851	0.066315	0.125094	0.884081	0.991919	0.667426	0.796261
MAN1C1	0.094204	-0.13612	0.254617	0.078021	0.485788	0.317158	0.055958	0.564024	0.033842	-0.23561	0.213937	-0.25	0.588339	0.057477	0.920899	0.046904
C20orf3	-0.00312	0.036932	-0.14456	0.313185	0.981613	0.786982	0.283329	0.017686	-0.21988	0.381723	-0.27209	0.374733	0.073343	0.995165	0.036988	0.994397
RGL3	0.025513	-0.10212	0.197206	-0.0993	0.850578	0.453905	0.141461	0.462403	0.100834	-0.26614	0.033744	-0.12984	0.747541	0.036908	0.587086	0.194878
PSMD8	0.004481	0.068056	-0.13277	0.022283	0.973852	0.621521	0.329341	0.870513	-0.27733	0.589984	-0.19479	0.382285	0.031025	0.999992	0.099882	0.995627
RNPEPL1	-0.10813	0.007226	-0.02396	0.084204	0.423366	0.957848	0.85958	0.533449	-0.03016	0.216452	-0.16735	0.056575	0.421148	0.925749	0.135935	0.645593
RTN4	0.076592	0.226208	-0.16531	0.084924	0.571203	0.093657	0.2191	0.52994	0.208948	0.278402	-0.01423	0.167593	0.91828	0.969499	0.46304	0.867206
ADCK1	-0.04489	0.10703	0.036516	0.013415	0.740193	0.432376	0.787416	0.921107	-0.04566	0.412308	-0.20916	0.061432	0.38159	0.997796	0.083966	0.65747
PAK7	0.1276	-0.14445	0.097807	-0.18717	0.344204	0.288159	0.469187	0.16327	-0.06917	-0.31208	0.274518	-0.17664	0.323922	0.017367	0.965995	0.12013
TMEM159	-0.06182	0.207914	-0.33503	0.166253	0.647806	0.124134	0.01085	0.216459	-0.01987	0.588305	-0.13265	0.303984	0.447863	0.999991	0.192512	0.980006
SCYL3	-0.0424	0.17523	-0.03832	0.172289	0.754146	0.196444	0.777168	0.200003	-0.0379	0.47413	-0.03614	0.341895	0.402384	0.999499	0.407922	0.98924
KIAA1219	-0.04278	0.300811	-0.27135	0.080819	0.752049	0.024275	0.041179	0.550087	-0.06287	0.431209	-0.17716	0.279062	0.33904	0.998614	0.122171	0.969817
LYRM1	0.015124	0.123899	-0.11322	-0.2198	0.91109	0.362943	0.401705	0.100407	0.031749	-0.03456	0.215043	-0.10693	0.582955	0.409813	0.921995	0.239689
PSMD9	-0.0371	0.126829	-0.06566	-0.24813	0.784117	0.351613	0.627504	0.062737	-0.28278	0.511014	-0.30063	0.235769	0.029903	0.999833	0.02369	0.94052
C6orf162	-0.0453	0.02113	-0.08197	-0.06475	0.737935	0.877157	0.544405	0.632295	0.154709	0.042913	-0.01492	0.037433	0.847697	0.611478	0.461244	0.597539
LYZL6	0.024244	-0.1876	0.173824	-0.21549	0.859226	0.170205	0.200117	0.110705	0.093477	-0.3589	0.080375	-0.17341	0.731679	0.007154	0.700157	0.124549
SLURP1	-0.04824	-0.08341	0.061501	-0.18035	0.724041	0.541088	0.65251	0.183489	0.166638	-0.06778	0.160203	-0.25411	0.86582	0.327241	0.853426	0.044178
SLC44A2	0.023536	0.104679	-0.25066	0.078042	0.863295	0.446906	0.06242	0.567517	0.109494	0.308321	-0.14448	0.237138	0.76558	0.98145	0.171848	0.943723
SMURF1	-0.30746	0.36527	-0.24911	-0.23604	0.021162	0.006104	0.064108	0.079878	-0.27715	0.27504	-0.30599	-0.05777	0.031114	0.967838	0.020466	0.351459
TMEM63C	-0.09708	0.303526	-0.11445	-0.33457	0.476622	0.024275	0.400956	0.011724	-0.02542	0.354937	-0.09243	-0.02648	0.43341	0.992249	0.272961	0.430676

PHTF2	0.042831	0.199276	-0.26392	0.091342	0.751737	0.140906	0.047289	0.499195	0.09399	0.246392	-0.01148	0.18698	0.732801	0.950598	0.470158	0.8933
JPH2	0.251022	-0.31633	0.290589	-0.10297	0.059637	0.017541	0.028318	0.445918	0.345339	-0.44247	0.304331	-0.31956	0.990628	0.001038	0.978951	0.015199
TRIM54	-0.2773	-0.04043	0.24717	-0.04333	0.03854	0.767364	0.066277	0.751157	-0.0034	-0.23667	-0.08745	-0.30962	0.491145	0.058762	0.286225	0.019239
PSMD10	0.030769	0.11268	-0.25725	-0.0186	0.82026	0.408327	0.053386	0.890764	-0.2546	0.339113	-0.10984	0.274046	0.043863	0.98943	0.236298	0.967334
PELI2	0.003714	0.142607	-0.02609	-0.12433	0.978126	0.294421	0.847237	0.35681	0.028029	-0.30544	0.007601	-0.2224	0.572509	0.020659	0.519528	0.071004
PELI1	-0.04946	0.200872	-0.31704	-0.15729	0.714856	0.137686	0.016266	0.242597	-0.24607	0.27308	-0.09438	0.021753	0.049632	0.966838	0.268725	0.557049
GJC2	0.085346	-0.20632	0.255083	-0.16953	0.527892	0.127102	0.055495	0.2074	0.03154	-0.30857	0.17829	-0.15275	0.582418	0.018468	0.879354	0.155422
SALL4	-0.08334	-0.04921	0.126726	-0.13171	0.537691	0.718733	0.347546	0.328744	0.078886	-0.30738	0.009995	-0.26936	0.698859	0.018855	0.525978	0.035132
ASPHD2	-0.10963	0.169045	-0.09845	0.095824	0.416911	0.212958	0.466274	0.478286	0.033979	0.214124	-0.04731	0.062948	0.588692	0.923487	0.378817	0.661147
ZNFX1	-0.20509	-0.04061	-0.06015	0.31334	0.12944	0.768462	0.659651	0.018698	0.031542	0.207182	0.042115	0.285652	0.582422	0.916445	0.608222	0.972846
PSMD11	-0.09022	0.40362	-0.21782	0.299708	0.508445	0.002245	0.106813	0.024827	-0.12584	0.624682	-0.37873	0.424264	0.202339	0.999998	0.005152	0.998351
DOLPP1	-0.08938	0.057299	-0.11397	-0.07793	0.508496	0.674879	0.398572	0.564494	-0.25297	0.496019	-0.26367	0.235248	0.044919	0.999772	0.040048	0.942233
CAMK1G	0.084103	-0.03459	0.243164	-0.12764	0.537716	0.802027	0.070943	0.348515	0.17167	-0.47634	0.245373	-0.41697	0.873018	0.000409	0.94788	0.001971
CORO1B	0.037554	0.077982	0.052932	-0.06319	0.783478	0.571453	0.698428	0.643594	-0.13503	0.470861	-0.16925	0.180817	0.185461	0.999521	0.133189	0.885426
VARS2	0.110354	-0.06456	0.172204	-0.1949	0.418132	0.639583	0.204406	0.150016	-0.11415	-0.02151	0.118319	-0.14191	0.227648	0.444225	0.777846	0.176217
ZMIZ1	0.123903	0.030995	-0.04303	0.080087	0.358479	0.820606	0.750646	0.553716	0.119421	0.251792	0.044624	0.224013	0.782704	0.952396	0.613182	0.930471
KIAA1191	-0.11937	0.150137	-0.30834	0.106804	0.37646	0.269395	0.01962	0.429087	-0.17688	0.424684	-0.17911	0.280321	0.119804	0.998368	0.119552	0.970415
PSMD12	-0.01724	0.348371	-0.25162	0.205543	0.898743	0.008509	0.059013	0.125064	0.003537	0.533077	-0.20344	0.40632	0.509306	0.999932	0.090064	0.99746
ACTR3B	-0.19364	0.163873	-0.17887	-0.13326	0.148938	0.227496	0.183098	0.323034	-0.17536	-0.22411	-0.12274	-0.10021	0.121878	0.067164	0.21092	0.253794
SLC39A10	0.110836	0.027504	-0.12533	0.133794	0.411767	0.840527	0.352937	0.321092	-0.13902	0.154148	-0.0295	0.309788	0.178411	0.846808	0.423733	0.981919
ANKRD50	-0.00874	0.409302	-0.30443	0.241055	0.948582	0.001734	0.021312	0.070864	-0.0619	0.614504	-0.23563	0.447595	0.341383	0.999997	0.059592	0.999093
C15orf17	-0.15439	0.240942	-0.13168	-0.1101	0.251506	0.073641	0.328868	0.414896	-0.16672	0.198535	-0.31112	0.043251	0.134061	0.90703	0.018751	0.612333
NPAL3	-0.14712	0.291745	-0.25901	0.180451	0.274798	0.029133	0.051714	0.179191	-0.2589	0.583872	-0.24452	0.384917	0.042961	0.999987	0.054836	0.995485
C20orf74	-0.16881	0.255267	-0.09268	0.200843	0.209371	0.057597	0.492886	0.134121	-0.12968	0.265868	-0.12241	0.277386	0.195182	0.96294	0.211549	0.969004
THOC2	-0.03689	0.235016	-0.27077	0.089532	0.785275	0.081238	0.041627	0.507772	0.039659	0.322098	-0.14203	0.247958	0.603217	0.985482	0.176014	0.951694
ADAMTSL3	0.22109	-0.1082	-0.17398	-0.03149	0.098385	0.427333	0.195559	0.816119	0.371923	0.162161	0.241435	0.243666	0.994538	0.859194	0.944951	0.948644
KIAA1147	-0.05894	0.383311	-0.10988	-0.00043	0.663209	0.003545	0.415844	0.997453	0.024813	0.256443	-0.32116	0.046273	0.564265	0.955475	0.016766	0.618612
PSMD13	-0.11361	-0.09443	-0.24591	0.180209	0.404438	0.49287	0.067714	0.183831	-0.18164	0.47474	-0.27317	0.354633	0.113504	0.999571	0.034713	0.992202
SEPN1	0.07973	-0.0326	0.185017	0.000405	0.555491	0.811494	0.168255	0.997617	0.116384	0.281512	0.15434	0.128176	0.776777	0.969492	0.84142	0.799295
VN1R1	0.354196	-0.26979	0.107839	-0.10126	0.006869	0.044339	0.424604	0.45357	0.110046	-0.27115	0.064035	-0.18665	0.766706	0.034173	0.66199	0.107107
MCOLN1	-0.06839	-0.10572	0.099292	0.19917	0.613237	0.438067	0.462432	0.137462	-0.01079	0.032003	-0.03892	-0.02999	0.471644	0.58361	0.399803	0.421594
ATP10A	0.058976	-0.43826	0.285875	0.372752	0.662999	0.000729	0.031107	0.004296	0.258679	-0.40624	0.290287	-0.19027	0.958704	0.002544	0.973467	0.102653
ATP8B2	0.40791	-0.29746	0.231719	0.347525	0.001635	0.025986	0.082852	0.008079	0.412358	-0.24155	0.271526	-0.0633	0.99756	0.054962	0.9627	0.339763
BAD	-0.16097	-0.18354	0.018183	-0.17988	0.231622	0.175714	0.893207	0.180586	-0.14464	-0.15333	-0.17612	-0.22351	0.168764	0.154499	0.123583	0.067698
PSME1	-0.1614	0.027012	-0.12586	0.468009	0.230361	0.843345	0.35087	0.000242	-0.19196	0.461873	-0.22444	0.496287	0.100615	0.999384	0.06914	0.999774
ATP10D	0.161335	0.284834	-0.12997	0.333857	0.230551	0.03336	0.335229	0.011149	0.306234	0.378256	0.005976	0.293811	0.980766	0.995228	0.51554	0.976253
ZNF248	0.072263	0.136002	-0.06762	0.066396	0.593213	0.317578	0.617252	0.623625	0.313218	0.01766	0.133274	0.021338	0.982978	0.546368	0.808607	0.555968
PSME2	-0.09533	-0.08404	0.196599	0.342805	0.480567	0.53804	0.142715	0.009044	-0.08777	0.317915	-0.17418	0.355592	0.28094	0.984343	0.12624	0.99235
SLC45A4	-0.2019	0.153469	-0.04845	-0.11849	0.135643	0.263288	0.722906	0.384408	-0.08886	0.006552	-0.14384	-0.10856	0.278516	0.517235	0.172922	0.236331
GPR126	0.463496	0.013952	0.01332	0.217823	0.000321	0.919474	0.922381	0.106809	0.527987	0.162016	0.149046	0.106802	0.999903	0.856176	0.832879	0.757503
KIAA0495	0.225491	-0.18473	0.037326	0.076238	0.094729	0.176957	0.784762	0.576533	0.130939	0.010358	0.011649	0.027472	0.807131	0.527235	0.53027	0.571906
C13orf1	0.021925	0.369526	-0.18254	-0.02224	0.871396	0.005065	0.174117	0.869563	0.036267	0.309147	-0.00246	0.148689	0.594557	0.981716	0.493593	0.837983
KIAA1199	-0.13784	0.565146	-0.32543	0.152413	0.306538	5.68E-06	0.013506	0.257708	0.089128	0.65693	-0.26719	0.380131	0.722081	1	0.038005	0.995418
THAP11	0.086284	-0.16004	0.054119	-0.04834	0.527187	0.243132	0.692	0.72349	0.05314	0.121578	0.146978	-0.02593	0.635587	0.786861	0.829466	0.432869
VANGL2	-0.15779	0.128087	-0.0916	-0.09384	0.241092	0.346816	0.497988	0.487474	-0.11434	0.285037	-0.10119	0.198422	0.224643	0.972574	0.254171	0.906902
TTC7A	-0.12977	-0.05048	-0.0256	-0.02616	0.336007	0.711796	0.850046	0.846852	-0.20872	0.141075	-0.20338	-0.00932	0.081951	0.82515	0.090129	0.475487
KIAA1244	-0.15211	-0.067	0.071743	-0.21543	0.263086	0.626939	0.599272	0.110811	-0.14759	-0.06504	-0.02197	-0.25813	0.163839	0.333796	0.443053	0.041634
ERGIC1	-0.17349	0.324135	-0.11472	-0.03248	0.200986	0.015769	0.399831	0.812162	0.094482	0.374385	-0.0719	0.182003	0.733873	0.994816	0.319399	0.886971
SMEK2	-0.06632	0.09893	-0.1597	-0.00224	0.624004	0.468203	0.235364	0.986832	-0.13343	0.135574	-0.04739	0.076528	0.188334	0.815503	0.378619	0.693395
NHSL1	-0.06032	0.261958	-0.24855	-0.47054	0.655789	0.051139	0.062282	0.000221	-0.27642	0.432451	-0.27667	0.046938	0.03147	0.998656	0.032896	0.621628

LYRM2	0.039269	0.171183	0.067521	-0.28134	0.771801	0.207143	0.617747	0.034	-0.13861	-0.09106	0.010598	-0.20669	0.17914	0.273626	0.527543	0.084068
LOC57228	-0.28493	0.452857	-0.23002	-0.13944	0.033298	0.000517	0.08811	0.305398	-0.30813	0.676242	-0.24659	0.405396	0.018612	1	0.051236	0.997405
PSPH	-0.08127	-0.12713	-0.00204	-0.16106	0.551537	0.354988	0.988091	0.235696	-0.24228	0.049416	0.012652	0.142418	0.05237	0.627837	0.532871	0.827457
SNX14	-0.04829	0.176177	-0.21625	0.081556	0.72133	0.193998	0.106166	0.546443	-0.00912	0.240273	-0.01951	0.207936	0.476007	0.946129	0.449381	0.917232
ZNF630	0.214772	-0.07879	0.239984	-0.23764	0.111932	0.567484	0.074831	0.077804	0.171942	-0.15691	0.128363	-0.21382	0.873399	0.148854	0.799641	0.076812
PTAFR	-0.26559	0.013059	-0.22895	0.03073	0.04789	0.924612	0.089642	0.82211	-0.35834	0.333593	-0.24221	0.352677	0.007236	0.988262	0.054466	0.99189
PTBP1	0.023674	0.25109	-0.05482	0.224469	0.862506	0.064443	0.688188	0.096276	-0.12412	0.736843	-0.20436	0.483658	0.205591	1	0.08906	0.999669
TAS2R38	-0.02033	-0.09007	0.083937	-0.29284	0.880701	0.509143	0.534751	0.027064	-0.09202	-0.28063	-0.10792	-0.24642	0.271518	0.029441	0.240196	0.049382
PTCH1	0.317588	-0.13291	0.247594	0.143293	0.016071	0.328803	0.063324	0.287614	0.158167	-0.07125	0.277463	0.096174	0.853105	0.318979	0.967504	0.73755
PTEN	0.144771	0.067346	-0.008	0.193267	0.282618	0.621897	0.952928	0.149746	0.470845	-0.03797	0.1911	0.02745	0.999521	0.40108	0.895711	0.57185
SLC4A10	0.159687	-0.16796	0.260061	-0.24232	0.239757	0.220304	0.052908	0.071953	0.159287	-0.58274	0.207315	-0.46021	0.85483	1.07E-05	0.914105	0.000645
PTGDR	0.016137	-0.14619	0.126406	0.216577	0.905164	0.282336	0.348774	0.105626	0.143179	-0.47608	0.310966	-0.40488	0.828756	0.000413	0.9812	0.002627
BAG1	-0.1189	0.395412	-0.16557	-0.18015	0.38278	0.002809	0.222645	0.183983	-0.01119	0.507502	-0.2508	0.100752	0.470583	0.999841	0.048281	0.747366
PTGDS	0.128834	-0.09653	0.006344	0.548675	0.339522	0.479107	0.962647	9.92E-06	-0.15913	0.170582	0.172544	0.467971	0.145418	0.871484	0.871481	0.99948
PTGER1	-0.01371	-0.19973	0.242931	-0.15983	0.919348	0.139984	0.068632	0.234977	0.110698	-0.42607	0.103933	-0.25963	0.768034	0.001577	0.751566	0.040716
PTGER2	-0.01693	-0.36843	0.004629	-0.03121	0.900555	0.005208	0.97274	0.817703	0.038065	-0.54051	0.342002	-0.28143	0.599154	5.27E-05	0.989261	0.029066
CSRP2BP	-0.0572	0.24097	-0.29738	0.030279	0.672568	0.073607	0.024669	0.823077	0.018836	0.351759	-0.07059	0.21663	0.548871	0.991095	0.324436	0.923547
PBXIP1	0.020118	-0.33362	0.164898	0.080509	0.881917	0.011981	0.220279	0.551622	0.187514	-0.43028	0.186278	-0.26525	0.893964	0.001419	0.889747	0.037408
PTGER3	0.078196	-0.31501	0.141714	-0.02719	0.566749	0.018045	0.297487	0.842347	0.12561	-0.40245	0.205488	-0.30627	0.797235	0.00278	0.912159	0.01922
CBX8	-0.28183	-0.18081	0.058824	-0.10806	0.033677	0.182349	0.663817	0.42366	-0.09588	-0.22979	0.138464	-0.06149	0.265481	0.064444	0.814968	0.344111
RCN3	0.145823	-0.35738	0.338362	0.105736	0.279098	0.006851	0.010041	0.433744	0.116932	-0.16362	0.171157	0.074156	0.777853	0.141421	0.866686	0.68585
ZNF286A	-0.13876	0.267325	-0.23758	-0.00539	0.307777	0.048488	0.077881	0.968573	-0.09043	0.381973	-0.04857	0.167216	0.277332	0.995191	0.377119	0.863878
ZNF287	0.028949	-0.02264	-0.03831	-0.11259	0.830732	0.868474	0.777245	0.404349	-0.00172	-0.11078	0.042988	-0.02099	0.49547	0.231794	0.610411	0.444946
SENP7	0.079248	0.046399	-0.08344	0.044077	0.557892	0.73418	0.537173	0.744757	0.035601	-0.02562	-0.05055	0.170091	0.591798	0.433658	0.372271	0.868015
JPH3	-0.11405	-0.1675	0.136765	-0.1429	0.398274	0.21724	0.310365	0.288947	0.021658	-0.31375	0.156498	-0.1729	0.556803	0.016862	0.847701	0.125261
PTGER4	0.046981	0.05937	-0.18769	-0.0294	0.728565	0.663819	0.162082	0.828108	-0.03835	0.486568	0.098529	0.227972	0.401253	0.999649	0.73771	0.933987
ZNF304	0.084294	0.068033	-0.03733	0.080743	0.533011	0.618336	0.78279	0.550461	-0.20926	0.489539	-0.28105	0.218971	0.083857	0.999679	0.032296	0.925795
TTYH1	0.208801	-0.21616	0.286753	-0.08618	0.119062	0.109577	0.030571	0.52385	0.393309	-0.47646	0.334787	-0.32732	0.996575	0.000408	0.98771	0.013193
GJD2	-0.08945	-0.02794	0.192155	-0.14023	0.508188	0.838021	0.15215	0.298157	0.026805	-0.42343	0.108776	-0.23517	0.570178	0.001683	0.761541	0.057833
PTGFR	0.051787	0.005058	0.068176	-0.28873	0.702034	0.970489	0.614332	0.029391	-0.0063	-0.40071	0.198025	-0.29768	0.483438	0.002894	0.903878	0.022258
AICDA	-0.06028	-0.15809	0.176792	-0.06893	0.656017	0.244549	0.188318	0.61042	-0.082	-0.34382	0.042501	-0.34482	0.293981	0.009653	0.60919	0.009468
PTGFRN	0.119523	0.483104	-0.14246	0.376521	0.37585	0.000162	0.290448	0.003892	0.030166	0.759792	-0.13939	0.587529	0.578872	1	0.180563	0.999991
MRS2	-0.15255	0.428724	-0.23879	0.22678	0.257278	0.000978	0.073632	0.08981	-0.10926	0.491708	-0.29612	0.344351	0.234902	0.99974	0.024131	0.990446
RHOJ	0.331766	-0.31247	0.359502	0.354313	0.012493	0.020199	0.006504	0.007381	0.460615	-0.35122	0.390189	-0.05529	0.999362	0.008348	0.995973	0.357576
PTGIR	0.085123	-0.10319	0.251976	0.04215	0.532779	0.453441	0.061008	0.757746	0.284498	-0.35119	0.181564	-0.28192	0.972334	0.008353	0.883692	0.028839
TMEM27	0.04188	-0.00628	0.047104	-0.19626	0.75708	0.963388	0.727885	0.14342	-0.11397	-0.20074	0.00245	-0.05718	0.225377	0.090504	0.506373	0.352908
CLK4	0.008628	0.117149	-0.11448	0.185929	0.94921	0.389866	0.396478	0.16613	0.261571	0.036436	0.067424	0.024091	0.960452	0.594989	0.670056	0.563133
PTGIS	0.357893	-0.24052	0.222209	0.244025	0.006766	0.076917	0.099762	0.069918	0.466623	-0.21104	0.362863	0.074119	0.99946	0.079583	0.992853	0.68777
CLLU1OS	0.045609	-0.29914	0.175684	-0.22794	0.736199	0.025117	0.191147	0.088138	-0.0547	-0.46845	0.196578	-0.3641	0.359028	0.000513	0.90221	0.006432
S100A14	-0.08862	0.406493	-0.09879	-0.12128	0.516028	0.002073	0.468829	0.373251	-0.17655	0.709158	-0.36856	0.39693	0.120248	1	0.006365	0.996845
CLLU1	0.171559	-0.1473	0.12948	-0.16791	0.206133	0.283183	0.341555	0.21609	0.173852	-0.31377	0.152963	-0.24497	0.876056	0.016858	0.842106	0.050411
DUSP5P	0.010594	-0.09658	0.18669	-0.24586	0.937661	0.478886	0.164373	0.065261	0.115101	-0.20673	0.045077	-0.40511	0.776881	0.084025	0.615632	0.002613
RAB22A	0.029315	0.481288	-0.2247	0.053211	0.83018	0.000199	0.09593	0.696915	0.085964	0.416863	0.03451	0.26829	0.714997	0.998024	0.58903	0.964287
CYP20A1	0.070292	0.169857	-0.18535	0.220841	0.603359	0.210736	0.16748	0.098774	-0.00063	0.349372	-0.10385	0.292019	0.498347	0.991341	0.24861	0.975536
SNORA6	-0.03856	-0.16633	0.021073	0.066779	0.775815	0.220504	0.876359	0.621623	-0.24898	0.090419	-0.25037	-0.09627	0.049545	0.722638	0.050587	0.264655
SPC25	0.083905	-0.00858	-0.07898	-0.17018	0.538681	0.950409	0.562852	0.209856	-0.04503	0.45512	0.060084	0.21668	0.384493	0.999159	0.65078	0.923595
ABHD6	-0.07003	0.200889	-0.23195	-0.23424	0.604714	0.137652	0.082543	0.079471	-0.27532	0.149203	-0.19817	0.060686	0.032021	0.838827	0.09596	0.655656
NMRAL1	0.026299	0.111025	0.14345	0.033914	0.846026	0.415292	0.28708	0.802243	-0.10739	0.179552	-0.05222	0.002484	0.241289	0.881039	0.368192	0.50646
LRTM1	0.046831	-0.05436	0.251738	-0.25973	0.729398	0.690696	0.058889	0.051045	0.033639	-0.35351	0.12062	-0.20837	0.586819	0.008605	0.782283	0.084789
MIF4GD	-0.04261	0.052671	-0.04055	-0.16796	0.752972	0.699841	0.764596	0.211705	-0.30032	0.171749	-0.10658	0.033763	0.022511	0.870364	0.245535	0.587135

PTH	0.078143	-0.14476	0.064515	-0.28039	0.563414	0.287101	0.633517	0.034638	-0.03214	-0.22654	-0.05375	-0.18603	0.416034	0.065024	0.362915	0.107891
SCYL1	-0.00022	-0.06165	0.079558	0.023272	0.998729	0.651729	0.556345	0.863572	0.102001	0.0985	-0.06053	0.038828	0.750012	0.742561	0.346437	0.601098
AS3MT	0.190451	-0.09245	-0.07312	0.075963	0.155886	0.497966	0.588837	0.574381	0.134	-0.1142	0.142881	0.03024	0.812685	0.22491	0.825446	0.579065
RHBDD2	-0.18703	0.189693	-0.2308	0.021288	0.167501	0.165404	0.087007	0.876244	-0.33143	0.420561	-0.24589	0.22798	0.012225	0.998194	0.051741	0.936225
C3orf14	-0.24746	0.355112	-0.43149	0.197518	0.063469	0.007239	0.000805	0.14082	-0.28237	0.654615	-0.2846	0.575957	0.028631	1	0.029058	0.999986
WDR18	-0.14005	-0.00512	-0.02817	0.010302	0.298772	0.970139	0.835211	0.939374	-0.19555	0.351283	-0.20585	0.260152	0.096385	0.991662	0.087451	0.959602
SLC24A3	0.020169	-0.20246	0.204216	0.191098	0.881621	0.134545	0.127572	0.15446	0.082432	0.02121	0.135462	0.01777	0.706993	0.555635	0.812523	0.546654
PTGS1	0.338654	-0.26851	0.197936	0.194004	0.009973	0.045401	0.139965	0.14817	0.187703	-0.37936	0.23628	-0.23311	0.894198	0.00466	0.94093	0.05949
PTGS2	0.066605	-0.14254	-0.04222	0.002407	0.625745	0.299191	0.757336	0.985956	-0.11339	0.094206	0.056942	0.058423	0.229145	0.730901	0.64324	0.648477
PTHLH	-0.07808	0.135714	-0.14369	0.065152	0.563724	0.318617	0.28628	0.630162	-0.10331	0.278868	0.14972	0.192335	0.24723	0.969723	0.836861	0.899829
C1orf138	-0.06699	-0.28523	0.034311	-0.02141	0.620496	0.033103	0.799978	0.874381	0.113309	-0.43599	0.155464	-0.32449	0.773303	0.001228	0.846077	0.013898
C1orf147	-0.05275	0.072177	0.191154	-0.23819	0.696768	0.597059	0.154336	0.074386	0.176674	-0.24536	0.17236	-0.26719	0.879913	0.050137	0.871222	0.036319
NDRG3	0.159738	0.137429	-0.23553	0.104905	0.23526	0.31248	0.077777	0.437388	0.169478	0.312094	-0.0405	0.173774	0.86714	0.981562	0.397035	0.873194
NDRG2	0.247216	-0.19482	0.160764	-0.05724	0.063742	0.150199	0.232227	0.672357	0.473429	-0.33595	0.278238	-0.26494	0.999555	0.011228	0.967893	0.037589
BIRC6	0.022284	0.290679	-0.22348	0.261554	0.869311	0.029754	0.094711	0.04938	0.124092	0.369122	-0.13241	0.272313	0.794363	0.994206	0.192944	0.966439
PLEKHG5	-0.1209	0.094927	0.031547	-0.06304	0.370355	0.486476	0.815793	0.641338	-0.20727	0.314721	-0.17701	0.246683	0.083459	0.983425	0.122368	0.950803
PTH1R	0.057273	-0.19594	0.205383	-0.04241	0.67217	0.147812	0.125364	0.754129	0.303264	-0.38712	0.306998	-0.26378	0.979757	0.003932	0.97988	0.038253
ODZ2	-0.01047	0.353008	-0.15466	0.003766	0.938939	0.008204	0.255081	0.978024	-0.15516	0.622449	-0.42747	0.37233	0.15159	0.999998	0.001701	0.994585
GALNTL1	0.33067	-0.14465	0.295208	0.119216	0.011995	0.28748	0.025792	0.377087	0.27708	-0.16013	0.265861	0.044319	0.968854	0.143877	0.961234	0.615032
DSCAML1	-0.05546	-0.43256	0.181722	-0.41106	0.682002	0.00087	0.176098	0.001491	-0.10179	-0.61326	0.161268	-0.50154	0.250437	2.93E-06	0.855045	0.000192
REXO1	0.060849	-0.16018	0.246782	-0.18543	0.652969	0.238302	0.064224	0.167284	-0.0273	-0.14258	0.038393	-0.15692	0.428526	0.172257	0.598858	0.148836
KIAA1143	-0.03475	-0.07824	-0.0161	-0.09127	0.797461	0.566549	0.905398	0.499558	-0.10966	-0.00578	-0.06675	0.017466	0.23408	0.484791	0.331535	0.54586
TMCC3	0.04383	0.115946	-0.07477	0.012467	0.7484	0.394787	0.583917	0.927337	0.113311	0.209273	-0.17452	0.071845	0.773308	0.918614	0.12578	0.682421
GATAD2B	0.111421	0.039723	-0.09339	0.069306	0.409286	0.771302	0.489572	0.608462	0.200602	0.101991	0.005744	0.139851	0.909346	0.74999	0.514936	0.823031
PTH2R	-0.19776	-0.13253	-0.01432	-0.0341	0.140328	0.330221	0.915793	0.801186	-0.1095	-0.32485	0.08636	-0.33839	0.2344	0.013806	0.713648	0.010717
PPM1H	-0.30714	-0.00839	-0.03952	-0.16056	0.020127	0.951045	0.770405	0.232827	0.078806	-0.23705	0.104124	-0.46608	0.698674	0.056345	0.751963	0.000548
ISY1	-0.03602	0.317186	-0.33467	0.299386	0.790236	0.017222	0.01094	0.023673	-0.00261	0.495504	-0.15943	0.340529	0.493124	0.999769	0.147752	0.989713
KIAA1161	-0.12246	0.174794	-0.07346	-0.33212	0.364165	0.197579	0.587077	0.011603	-0.35371	0.265538	-0.17824	0.124758	0.007944	0.962754	0.120707	0.795626
AMIGO1	-0.00483	-0.07217	0.239888	-0.16537	0.971567	0.597094	0.072282	0.218943	0.137957	-0.32586	0.204865	-0.2732	0.81972	0.013553	0.911487	0.033102
FAM40B	0.235385	0.029642	0.066608	-0.14316	0.077967	0.828312	0.622518	0.288055	-0.02635	0.118627	0.037005	0.009593	0.431783	0.781164	0.594244	0.524934
TBC1D24	0.109934	-0.24827	0.269477	-0.19258	0.415604	0.065041	0.042652	0.151218	0.171643	-0.41006	0.280299	-0.37236	0.87298	0.002325	0.968907	0.005412
SFRS15	0.062711	0.410704	-0.18684	0.302873	0.643062	0.001666	0.164038	0.022018	0.107496	0.503283	-0.03155	0.333629	0.76148	0.999818	0.418495	0.98827
HHATL	-0.18705	-0.28989	0.137459	-0.31391	0.16354	0.030223	0.307893	0.017412	0.004145	-0.48208	0.221993	-0.25219	0.510905	0.000346	0.928625	0.045438
SLC12A5	-0.05276	-0.14351	-0.00673	-0.36033	0.696693	0.291351	0.960386	0.005899	-0.07886	-0.12242	0.045456	-0.15089	0.301204	0.208826	0.616577	0.158423
PTK2	-0.05055	0.122792	-0.19749	0.094237	0.708848	0.367277	0.140869	0.485637	0.03817	0.257675	-0.061	0.223307	0.599421	0.958084	0.345296	0.932121
LRRC47	0.224332	-0.01899	-0.04812	-0.132	0.093424	0.889542	0.722228	0.327698	-0.06827	0.488587	-0.18917	0.180134	0.326065	0.999715	0.106643	0.884529
ERMN	0.077727	-0.02204	-0.00703	-0.05014	0.565499	0.871928	0.958615	0.711107	0.122341	-0.29401	0.143262	-0.24658	0.791022	0.02367	0.826093	0.049267
CNOT6	-0.119	0.2348	-0.2603	0.02783	0.377945	0.081526	0.050524	0.837184	-0.12388	0.412085	-0.13244	0.317229	0.206033	0.997784	0.192904	0.98415
ZNF512B	0.015014	-0.06417	0.166976	-0.02587	0.911737	0.638478	0.214439	0.848536	0.020826	0.001871	0.036606	-0.06321	0.554633	0.504922	0.594342	0.338208
ZNF490	-0.04796	0.162986	-0.12229	0.006698	0.723153	0.230056	0.364821	0.960564	-0.26349	0.214821	-0.02219	0.135776	0.03842	0.924169	0.442477	0.815864
PLEKHH1	0.014528	-0.00773	0.12823	0.012602	0.914581	0.954885	0.341808	0.925876	-0.06513	0.058106	0.074229	0.019545	0.333591	0.649353	0.686019	0.551292
GRAMD1B	-0.20227	0.337405	-0.05195	0.047249	0.131319	0.01099	0.701126	0.727077	0.065066	0.113784	-0.14805	0.026092	0.66626	0.774256	0.16588	0.56833
SHROOM4	0.168728	-0.26305	0.121746	0.169098	0.21383	0.052339	0.371403	0.212812	0.191239	-0.12751	0.137762	0.036484	0.898516	0.199209	0.816589	0.595113
USP31	-0.0467	0.227261	-0.08138	0.231225	0.730109	0.092099	0.54733	0.083528	0.008144	0.449474	-0.17612	0.267519	0.521419	0.999137	0.12358	0.963863
PRR12	-0.00766	-0.13697	0.173702	-0.14466	0.95488	0.314129	0.196282	0.283	0.126536	-0.19573	0.330871	-0.27327	0.796244	0.098771	0.985874	0.034663
PLEKHG1	-0.11458	0.276373	-0.20079	0.567509	0.396035	0.039218	0.134218	4.16E-06	-0.11829	0.535534	-0.12954	0.550058	0.21683	0.999937	0.198191	0.999963
KIAA1210	-0.05146	-0.00805	0.036422	-0.4056	0.703826	0.95304	0.78795	0.001747	0.033935	-0.25507	0.253271	-0.35391	0.588579	0.043562	0.953392	0.007913
KIAA1211	-0.11262	-0.21497	0.136044	-0.31541	0.404234	0.111591	0.312947	0.016854	-0.12659	-0.49418	0.183906	-0.33488	0.200922	0.000241	0.886728	0.011457
RNF150	0.241564	-0.46472	0.225266	0.069258	0.070254	0.000308	0.092033	0.608708	0.192383	-0.39764	0.194956	-0.20275	0.899886	0.003104	0.900317	0.088285
NLN	0.059331	0.315409	-0.09156	0.206721	0.664025	0.018995	0.502129	0.126356	0.020917	0.525145	-0.21086	0.397712	0.55487	0.999911	0.082212	0.996901

FAM62B	0.113112	-0.10303	-0.10112	0.063508	0.40652	0.454153	0.458357	0.641928	0.355689	-0.08266	0.120475	0.002019	0.992365	0.292481	0.784742	0.505311
ODF2L	-0.1879	0.005064	-0.06559	-0.05839	0.161616	0.970454	0.627843	0.666161	-0.14495	-0.06393	0.062756	0.000604	0.168241	0.336478	0.658927	0.501588
AHRR	0.019379	0.064256	0.185843	0.004241	0.887266	0.641163	0.17027	0.975254	-0.06826	-0.02219	0.104711	0.041892	0.326097	0.441805	0.753184	0.608891
ARID1B	-0.19583	-0.28894	-0.14007	-0.18539	0.144314	0.030794	0.298699	0.167396	-0.04306	-0.14275	-0.06718	-0.16259	0.389412	0.17477	0.332397	0.142962
HEG1	0.304644	-0.18064	0.197499	0.409105	0.021216	0.182771	0.14086	0.001579	0.272549	-0.09483	0.180297	0.241326	0.966562	0.26536	0.882026	0.946919
RIMKLB	0.004784	0.045529	-0.01496	-0.03922	0.971824	0.738989	0.912037	0.772107	0.179749	-0.10735	0.19062	-0.07725	0.884021	0.238816	0.895128	0.304935
KIAA1239	-0.0349	0.073556	0.010814	-0.29996	0.798424	0.590053	0.936952	0.024702	0.037443	-0.28364	0.16449	-0.40264	0.597564	0.028052	0.859875	0.002767
MKL2	0.006724	0.234589	-0.09792	0.190975	0.96041	0.081809	0.468652	0.15473	-0.02815	0.331911	0.048	0.344119	0.426327	0.987886	0.622903	0.990402
LRFN2	0.099292	0.037885	0.312347	-0.19211	0.466565	0.783619	0.019097	0.156069	0.282291	-0.15463	0.248109	-0.10378	0.971333	0.152425	0.949844	0.246237
KIDINS220	0.104333	0.109241	-0.17129	0.17245	0.439902	0.42287	0.202664	0.199577	0.228632	0.097553	-0.00701	0.155374	0.936782	0.740525	0.481785	0.848747
BAI1	0.07241	-0.07215	0.274923	-0.05864	0.592461	0.597174	0.03848	0.664828	0.097039	-0.19135	0.216747	-0.21355	0.739419	0.10135	0.923661	0.077083
KIAA1257	-0.09659	-0.07141	0.062262	-0.45291	0.474759	0.600971	0.645446	0.000404	-0.20212	-0.38492	0.126209	-0.2801	0.088979	0.004128	0.795633	0.029688
NLGN4X	0.096019	0.148176	-0.10736	0.170227	0.477386	0.27577	0.42668	0.205522	-0.07111	0.267372	-0.08193	0.250803	0.319308	0.963781	0.296316	0.953638
MTA3	0.044869	0.269026	-0.19144	-0.16831	0.740331	0.044971	0.15371	0.210741	-0.07791	0.40094	-0.10239	0.191072	0.305475	0.996828	0.254189	0.895678
AARS2	-0.03033	-0.08412	0.029611	0.069852	0.822771	0.537647	0.826921	0.60563	-0.0823	-0.02426	-0.21057	-0.08312	0.293309	0.436416	0.082502	0.291437
VISA	-0.01477	-0.07823	-0.00195	-0.10245	0.913192	0.566586	0.988513	0.44826	-0.01201	0.095922	-0.14088	0.007781	0.468422	0.737004	0.177987	0.520465
ZNF608	-0.11575	0.089747	-0.24491	-0.21374	0.391222	0.510675	0.066342	0.110384	-0.11645	0.076301	-0.04211	0.005736	0.220441	0.692867	0.391801	0.515089
INTS2	-0.03082	0.322984	-0.26032	0.083866	0.819987	0.015185	0.0505	0.535101	-0.15879	0.472669	-0.10274	0.394126	0.145928	0.999545	0.250922	0.996638
MTUS1	0.314807	0.102979	0.033801	0.028568	0.017076	0.450098	0.802889	0.832928	0.444126	0.004207	0.149984	-0.02899	0.999006	0.511068	0.837292	0.424178
XPO5	0.052662	0.378149	-0.06336	0.32293	0.699892	0.00442	0.642702	0.015203	-0.00908	0.58212	-0.19469	0.354569	0.476117	0.999989	0.100002	0.992192
COG6	0.045368	0.222437	-0.17851	0.093649	0.737548	0.099407	0.183987	0.488373	-0.05634	0.336556	-0.06879	0.252765	0.354977	0.988902	0.326713	0.954943
GPR158	0.048136	-0.10903	0.157232	-0.20026	0.724613	0.428124	0.247152	0.138906	0.109782	-0.31137	0.184761	-0.29392	0.766168	0.017586	0.887823	0.023705
CASKIN2	0.094621	-0.09552	0.038319	0.079365	0.483853	0.48376	0.777179	0.557309	0.177572	0.106818	-0.00173	0.118539	0.881123	0.76008	0.495499	0.783661
CDGAP	0.350616	-0.2082	0.07091	0.397095	0.007497	0.123613	0.600168	0.002225	0.447964	-0.14998	0.275498	0.044817	0.999101	0.159906	0.966503	0.616289
SERINC1	0.194791	0.056359	-0.08806	0.236107	0.1465	0.679921	0.514792	0.077032	0.217299	0.099033	0.043787	0.188077	0.926559	0.743702	0.61241	0.89466
STARD9	0.322889	-0.35559	0.306482	-0.0126	0.014295	0.007156	0.02041	0.925856	0.195597	-0.36834	0.23421	-0.10017	0.903665	0.00589	0.939255	0.25388
HECW2	0.038496	0.052202	-0.01876	-0.10639	0.778185	0.705052	0.890866	0.435147	-0.1413	0.214472	0.011787	0.141458	0.177264	0.921431	0.530265	0.823011
KIAA1303	-0.04734	0.071058	0.103017	0.046112	0.726574	0.602774	0.445726	0.733401	-0.23832	0.324449	-0.29427	0.189905	0.055361	0.986091	0.024872	0.896902
SRGAP1	-0.08677	0.130293	-0.1094	-0.34724	0.521022	0.338505	0.417892	0.008135	-0.02813	0.040136	0.074482	-0.12031	0.427241	0.60325	0.684564	0.215571
KIAA1305	-0.01907	0.369042	-0.21613	-0.38139	0.888021	0.005128	0.106358	0.00342	-0.11242	0.448282	-0.14033	0.316386	0.228493	0.999109	0.178927	0.983909
CASKIN1	-0.04549	-0.03689	0.15475	-0.17061	0.736884	0.787237	0.250395	0.204495	0.103178	-0.27706	0.078846	-0.30171	0.752493	0.031157	0.696665	0.020787
PCDH19	0.290635	0.132184	0.020711	-0.04166	0.028292	0.331482	0.878465	0.75834	-0.04493	0.191419	-0.0439	0.17033	0.38343	0.898732	0.387299	0.871128
KCTD16	0.049134	-0.12632	0.183578	-0.41178	0.71664	0.353566	0.171649	0.00146	-0.01261	-0.44384	0.187726	-0.29814	0.466847	0.001002	0.891563	0.022087
RGAG1	0.075636	-0.01412	0.210271	-0.2112	0.57603	0.917709	0.116427	0.114782	0.01275	-0.19696	0.28031	-0.1688	0.53351	0.094763	0.968912	0.131058
PTK6	-0.19128	0.317906	-0.12933	-0.16221	0.154057	0.016957	0.337658	0.228011	-0.11345	0.474629	-0.21341	0.153553	0.22642	0.99957	0.079628	0.845861
CGN	-0.24235	-0.10376	-0.08535	-0.33013	0.069311	0.446639	0.527851	0.012144	-0.43533	-0.05154	-0.19054	-0.23803	0.001249	0.36686	0.104969	0.055584
HACE1	0.165145	0.090312	-0.13261	0.107582	0.219579	0.508005	0.325429	0.425712	0.111434	0.199626	0.043978	0.20522	0.769525	0.908258	0.612886	0.914372
NUFIP2	-0.10339	0.334474	-0.28184	0.218957	0.444086	0.011751	0.033673	0.101758	-0.0531	0.501917	-0.20512	0.44642	0.36298	0.99981	0.088234	0.999064
TBC1D14	-0.15774	0.481287	-0.38904	0.109202	0.241236	0.000173	0.002781	0.418737	-0.25681	0.550753	-0.29091	0.302222	0.044291	0.999956	0.027695	0.978193
MIB1	0.084437	0.128525	-0.22415	0.14214	0.532313	0.345159	0.093699	0.291549	0.002051	0.418487	-0.14291	0.338947	0.505396	0.9981	0.174498	0.989396
KIAA1324	0.176417	0.062002	0.131215	-0.06337	0.189274	0.649865	0.330592	0.639578	-0.02219	0.072485	0.027283	-0.02996	0.44181	0.68393	0.5706	0.42167
KIAA1328	0.078171	-0.04821	0.005824	-0.17594	0.563272	0.724185	0.965706	0.190497	0.076367	-0.27024	0.140596	-0.1012	0.693021	0.034658	0.821525	0.251675
SORCS2	0.041406	-0.0348	0.079313	0.10286	0.759747	0.798997	0.557568	0.446423	0.023941	0.079973	0.106153	0.248809	0.562745	0.701363	0.756167	0.952283
ALPK3	-0.04886	-0.02873	0.165035	-0.16469	0.71817	0.833514	0.219891	0.220865	0.037697	-0.44642	0.110332	-0.41058	0.598214	0.000936	0.764702	0.002297
WDR35	-0.08176	-0.10264	-0.07549	-0.19721	0.54543	0.451609	0.57679	0.141446	-0.16033	-0.24296	0.093705	-0.1079	0.143573	0.05187	0.729815	0.237692
PTK7	0.003272	0.039533	-0.07985	-0.09719	0.980731	0.772366	0.554907	0.472016	-0.1944	0.509585	-0.07461	0.271957	0.100333	0.999825	0.315148	0.964638
PTCHD2	-0.1436	-0.14301	0.181614	-0.17195	0.291021	0.297592	0.180377	0.205098	0.067829	-0.35081	0.213584	-0.2836	0.672885	0.008417	0.920548	0.028072
ZNF398	-0.15113	0.253681	-0.11607	-0.15916	0.266218	0.061646	0.394264	0.241327	-0.06928	0.241982	-0.08636	-0.04847	0.323662	0.947407	0.28635	0.374519
KLHDC5	0.314318	0.131543	0.101904	0.25206	0.017258	0.333852	0.450679	0.058555	0.325998	0.113355	0.052158	0.09035	0.986481	0.773396	0.633174	0.724794
TXNDC16	0.118883	-0.04865	-0.22995	0.139707	0.382842	0.724278	0.088216	0.304449	0.065946	-0.27711	-0.04044	-0.33708	0.666547	0.032672	0.397192	0.011777

CC2D2A	-0.08583	-0.1534	0.011297	-0.17495	0.525531	0.259002	0.933531	0.193049	-0.18927	-0.24148	0.117803	-0.10713	0.103873	0.052968	0.779557	0.239266
PDP2	-0.0425	0.318968	-0.19419	-0.08514	0.755793	0.017617	0.151548	0.532696	0.018358	0.272466	-0.191	0.051769	0.548193	0.966519	0.104409	0.633704
ZNF624	0.011768	0.03624	-0.07845	-0.15032	0.931401	0.792798	0.565476	0.268808	-0.06125	0.045878	0.048626	-0.02574	0.342977	0.618963	0.624455	0.432582
IGSF9	-0.04089	0.190414	-0.07911	-0.20308	0.762669	0.159817	0.558566	0.12974	-0.20915	0.426909	-0.30547	0.240803	0.081508	0.998456	0.020647	0.946528
TAOK1	-0.00593	0.256214	-0.24794	0.141233	0.965094	0.056645	0.062947	0.294673	0.097226	0.296829	-0.03029	0.194021	0.739823	0.977422	0.421713	0.901824
AADACL1	-0.11694	0.323648	-0.28663	-0.0045	0.386311	0.014965	0.030648	0.973503	-0.30245	0.467097	-0.11843	0.316609	0.020528	0.999467	0.219213	0.983973
MICAL3	-0.00618	-0.27387	0.192114	-0.33224	0.963612	0.041104	0.152239	0.01157	-0.08722	-0.52662	0.146539	-0.3937	0.282188	8.51E-05	0.831611	0.003395
LRRC7	0.161221	-0.14234	0.142003	-0.18019	0.230885	0.295321	0.292021	0.179841	0.142169	-0.29561	0.060903	-0.34308	0.827031	0.023044	0.654471	0.009792
NLGN2	0.109574	-0.09738	0.220755	0.125866	0.417145	0.475219	0.098909	0.350856	0.106689	-0.04776	0.225078	0.06024	0.759815	0.376315	0.931431	0.654569
SEMA6A	0.152418	-0.08703	-0.04013	0.248896	0.262102	0.527517	0.769014	0.064344	0.196709	0.073875	0.018603	0.194717	0.904949	0.687199	0.54827	0.90264
USP35	0.008057	0.008743	0.208288	-0.11794	0.952569	0.949008	0.119991	0.382238	-0.08709	-0.15641	0.186599	-0.25183	0.284727	0.152432	0.887399	0.047581
STAMBPL1	0.071866	-0.01309	-0.07526	0.353163	0.595252	0.923723	0.577951	0.007046	0.098379	0.338445	-0.05397	0.304713	0.739868	0.988518	0.36395	0.979087
IFT80	-0.12366	0.094967	-0.1776	-0.1012	0.359418	0.486293	0.186265	0.453822	-0.2233	0.019516	-0.02265	0.076434	0.067884	0.551215	0.441296	0.693176
ARRDC3	0.078067	-0.04903	-0.17853	0.229577	0.563794	0.719697	0.183951	0.085815	0.12606	0.358445	0.06252	0.342696	0.798082	0.992779	0.658361	0.990134
KIAA1377	-0.07019	-0.12655	0.058133	-0.26184	0.603859	0.352685	0.667533	0.049122	-0.08697	-0.35875	0.13819	-0.25675	0.282747	0.007176	0.817339	0.042494
KLHL8	0.021423	0.086567	-0.14032	-0.02227	0.87432	0.525826	0.297831	0.869379	-0.10448	-0.06953	-0.08229	-0.05616	0.244771	0.323069	0.295494	0.355427
KLHL14	0.052318	-0.12441	0.126698	-0.20851	0.701761	0.36547	0.352114	0.123038	-0.03132	-0.09557	0.060153	-0.06682	0.419073	0.266151	0.650946	0.331386
ZNF319	0.106017	-0.03305	0.131092	-0.16085	0.432514	0.808935	0.331049	0.23198	-0.008	-0.13782	0.293703	0.041656	0.478969	0.180524	0.974897	0.608291
SIPA1L2	0.024174	0.416312	-0.22832	0.346151	0.858337	0.001416	0.087591	0.00835	-0.00097	0.587132	-0.25075	0.429507	0.49746	0.999991	0.048315	0.998553
ARHGAP20	0.191806	-0.10068	0.002871	0.316535	0.152908	0.460317	0.983091	0.016445	0.244547	0.197172	0.267992	0.245264	0.949282	0.905479	0.962452	0.949797
TRMT5	0.032533	0.244387	-0.24111	-0.03726	0.810141	0.069491	0.070802	0.783169	-0.04787	0.385708	-0.03604	0.258975	0.376029	0.995943	0.407102	0.958886
ATPGD1	0.007551	-0.12371	0.300882	-0.18799	0.955545	0.36369	0.02295	0.161411	0.082485	-0.39666	0.16627	-0.36138	0.707114	0.003175	0.862496	0.006801
DOCK6	-0.00917	0.10315	-0.01102	0.061599	0.946001	0.449341	0.935168	0.648973	-0.00844	0.31844	-0.09484	0.223986	0.477802	0.98449	0.267737	0.932728
ZNF471	0.190795	0.013821	-0.02121	-0.2409	0.155127	0.919471	0.875547	0.071046	0.09276	-0.21397	-0.00525	-0.10427	0.730108	0.076663	0.48636	0.245221
MARCH4	-0.00747	-0.15846	0.263128	-0.36875	0.955994	0.243421	0.047978	0.004764	0.05523	-0.43445	0.09762	-0.39928	0.642279	0.001277	0.738249	0.00299
PCDH10	0.290031	-0.29255	0.329824	-0.1427	0.028637	0.028668	0.012228	0.289622	0.318457	-0.56256	0.247859	-0.37379	0.984495	2.36E-05	0.949667	0.005251
KIF17	-0.19672	-0.26152	0.168353	-0.44859	0.142464	0.051539	0.210629	0.000466	-0.3254	-0.4183	-0.03575	-0.32508	0.013669	0.001908	0.407836	0.013749
KIAA1407	-0.07211	-0.18719	0.02943	-0.31812	0.593994	0.167149	0.827963	0.015883	-0.22462	-0.29265	0.064194	-0.21957	0.066709	0.024208	0.66237	0.071301
KIAA1409	-0.07954	-0.15745	0.007145	-0.49211	0.560096	0.250953	0.958319	0.000117	-0.21612	-0.42094	0.049621	-0.36729	0.074567	0.00179	0.626918	0.00602
FAM135A	-0.09412	0.559091	-0.32981	0.074931	0.486174	7.51E-06	0.012233	0.579602	0.079636	0.614612	-0.18448	0.394091	0.700588	0.999997	0.112531	0.996635
PREX1	-0.01336	-0.56679	0.141618	0.382984	0.921423	5.26E-06	0.293344	0.003278	-0.02654	-0.47874	0.14945	-0.25418	0.430503	0.000382	0.836419	0.044133
KCNT1	0.062321	-0.08958	0.401111	-0.16259	0.645129	0.51146	0.001987	0.226906	0.157876	-0.36993	0.185131	-0.27904	0.852656	0.005696	0.888294	0.030194
TMEM181	-0.04384	0.265247	-0.10921	0.252976	0.746057	0.048188	0.418711	0.057614	-0.01697	0.353234	-0.10466	0.226785	0.45543	0.99198	0.246923	0.935193
ARHGAP21	0.048867	0.148934	-0.012	0.101092	0.718114	0.273296	0.92939	0.454316	0.189867	0.149924	0.164273	0.004731	0.896855	0.840007	0.859553	0.512446
CRAMP1L	-0.10247	-0.03477	0.08754	-0.05211	0.448135	0.799164	0.517297	0.700272	-0.03181	0.119467	0.012009	-0.02067	0.417833	0.782793	0.530835	0.446407
SYT13	-0.09385	-0.24086	0.065038	0.048308	0.495548	0.076489	0.637103	0.726158	0.104694	-0.29584	0.148375	-0.25563	0.755667	0.022958	0.834654	0.043201
KIAA1430	-0.00032	0.214694	-0.15911	-0.07144	0.998108	0.112066	0.237117	0.59744	-0.00547	0.225427	0.020015	0.182169	0.485619	0.934006	0.551915	0.887186
KIAA1432	0.059948	0.18686	-0.20602	0.337348	0.657786	0.167904	0.124165	0.010282	0.169234	0.279059	-0.02661	0.249447	0.869567	0.969815	0.431112	0.95272
WDFY1	-0.23099	-0.02483	-0.20672	0.438893	0.083845	0.855844	0.12287	0.000637	-0.08156	0.494132	-0.15979	0.441471	0.295001	0.999759	0.147199	0.998934
MKL1	0.147062	-0.20253	0.214408	-0.01368	0.274988	0.134398	0.109251	0.919539	0.10361	-0.1709	0.05214	-0.19919	0.753399	0.128065	0.633131	0.092231
ZNF687	0.08348	-0.11183	0.138796	-0.14347	0.536987	0.411899	0.303167	0.287011	-0.11167	0.129695	-0.05224	-0.12783	0.229995	0.804846	0.366618	0.198598
EBF4	0.016223	-0.05234	0.109367	-0.07131	0.90466	0.701621	0.418032	0.598104	0.20275	-0.15456	0.089473	-0.27691	0.911709	0.152536	0.720553	0.031227
HOMEZ	-0.15159	0.311048	-0.17628	0.068887	0.26033	0.019628	0.189615	0.610633	-0.03995	0.401041	-0.01742	0.309332	0.396044	0.997129	0.454794	0.981775
PDZD4	-0.02159	-0.31218	0.109399	-0.25859	0.873354	0.019165	0.417892	0.052109	0.015486	-0.47059	0.155781	-0.44715	0.540679	0.000483	0.846577	0.000918
BEGAIN	0.096666	-0.0605	0.058039	-0.05921	0.474408	0.657815	0.668041	0.661724	-0.0324	-0.22823	-0.04748	-0.27514	0.415356	0.063561	0.378399	0.03211
BAHCC1	-0.04751	-0.24598	0.096969	-0.18033	0.725623	0.067635	0.473019	0.179497	0.058634	-0.23511	0.11269	-0.15353	0.650646	0.05788	0.769447	0.154181
WDR48	0.010355	0.122652	-0.19082	0.10474	0.939062	0.36783	0.155066	0.438111	0.061815	0.30153	-0.03178	0.207483	0.658402	0.979148	0.417899	0.91676
BAI2	-0.00871	-0.14286	0.241303	-0.26762	0.948735	0.293542	0.070566	0.04416	-0.25908	-0.21015	-0.01055	-0.17831	0.041048	0.080487	0.472593	0.117888
FNIP2	0.239614	-0.12945	0.014254	0.259792	0.072619	0.341661	0.916189	0.050987	0.407634	-0.28995	0.096714	-0.27362	0.997537	0.025313	0.736309	0.032884
USP36	0.156746	0.007233	0.219011	0.143928	0.248635	0.958203	0.104864	0.289923	0.30413	-0.15385	0.128374	-0.21538	0.97888	0.156475	0.796862	0.077671

C8orf79	-0.18274	-0.15774	-0.04793	-0.07737	0.173653	0.245601	0.723295	0.56727	-0.18613	-0.12377	0.090738	-0.10811	0.107758	0.20624	0.723337	0.237255
PITPNM2	0.278088	-0.21118	0.243795	0.062156	0.036214	0.118204	0.067623	0.646009	0.25796	-0.31334	0.215568	-0.04897	0.95826	0.016984	0.92251	0.373276
SLAIN2	0.01206	0.266634	-0.14951	0.013796	0.929051	0.046986	0.266987	0.918871	0.105839	0.159984	0.063869	0.059948	0.758052	0.855897	0.661592	0.653858
KIAA1462	0.338566	-0.16944	0.244932	0.210975	0.009993	0.211887	0.066312	0.115182	0.472096	-0.46044	0.375459	-0.19705	0.999538	0.000641	0.994481	0.094659
DIP2B	0.123475	0.411345	-0.13777	0.126733	0.3646	0.001809	0.311281	0.351981	-0.10069	0.670136	-0.19791	0.409477	0.252772	1	0.096251	0.997642
RANBP10	-0.02501	-0.30531	0.070723	-0.31677	0.854846	0.02341	0.604487	0.017375	-0.18053	-0.29912	-0.01199	-0.31272	0.11495	0.021722	0.468833	0.017174
ISLR2	0.039886	-0.18541	0.312367	-0.16899	0.768316	0.171297	0.018001	0.208889	-0.0936	-0.27565	0.255017	-0.27769	0.270418	0.033419	0.952604	0.03238
KIAA1467	-0.04163	0.056956	-0.11281	0.068271	0.758491	0.676719	0.403439	0.613837	0.005573	0.152093	-0.34718	-0.00953	0.51466	0.843523	0.009729	0.474952
KIAA1468	-0.04384	0.42167	-0.26719	0.049823	0.746058	0.001209	0.04451	0.712836	-0.07638	0.496426	-0.16517	0.28993	0.306953	0.999775	0.139119	0.974678
ZNF492	0.177075	-0.08447	-0.06198	-0.26344	0.1917	0.539761	0.649997	0.049789	0.087289	-0.33596	-0.0301	-0.18442	0.717973	0.011226	0.422186	0.109926
TSHZ3	0.212222	0.238202	-0.03394	0.154849	0.113	0.077081	0.802104	0.250086	0.403015	0.146347	0.235176	0.167548	0.997257	0.8341	0.940041	0.867142
VPS18	0.000516	-0.15268	-0.00966	-0.04678	0.996962	0.261274	0.943163	0.729685	-0.18962	0.359078	-0.136	0.13926	0.103446	0.992871	0.186516	0.822002
SHROOM3	-0.15295	-0.26268	0.1088	-0.35501	0.256005	0.050482	0.42046	0.006734	-0.15556	-0.34379	0.065532	-0.31513	0.150962	0.00966	0.665561	0.016455
STIM2	-0.05571	0.423341	-0.07897	0.050286	0.680636	0.001151	0.559279	0.710283	-0.18501	0.421354	-0.17798	0.339361	0.109176	0.998229	0.12106	0.98948
ZBTB2	0.010653	0.274148	-0.09271	0.175654	0.937311	0.040892	0.492765	0.191223	-0.1301	0.350982	-0.15328	0.178659	0.194412	0.991612	0.15738	0.882575
LRFN1	0.099307	-0.17281	0.280782	-0.03965	0.462364	0.20279	0.034374	0.769637	0.117188	-0.19309	0.093062	-0.24207	0.778354	0.10189	0.726027	0.054565
ZFAT	0.119058	-0.01976	0.121781	0.063037	0.382134	0.886128	0.371265	0.644405	-0.04538	0.302193	-0.17594	-0.01786	0.382287	0.979383	0.12382	0.453116
KIAA1486	-0.06659	-0.21468	0.251274	-0.14163	0.622606	0.112095	0.059373	0.293291	-0.18361	-0.39815	0.12629	-0.30076	0.110954	0.003069	0.795784	0.021126
KLHL1	-0.05565	-0.11174	0.006864	-0.18682	0.680978	0.412279	0.959585	0.164086	-0.02039	-0.30484	-0.01311	-0.29189	0.446515	0.019701	0.465948	0.024516
DPP10	0.137719	0.28704	-0.0244	-0.12887	0.306971	0.031959	0.857003	0.339402	-0.26974	0.455978	-4.06E-05	0.245002	0.034926	0.999275	0.499894	0.949609
PTMS	0.169455	-0.06941	0.305753	-0.17131	0.207614	0.61124	0.020726	0.202622	0.217912	-0.27594	0.369669	-0.15521	0.927142	0.03171	0.993777	0.151504
SH3RF1	-0.08644	0.443811	-0.19755	-0.20941	0.522581	0.000612	0.140754	0.117959	-0.00977	0.406914	-0.30239	0.023002	0.474321	0.997495	0.021748	0.560301
LRCH2	0.286528	-0.22102	0.178293	0.172156	0.030707	0.101636	0.184535	0.200355	0.460341	-0.45904	0.293685	-0.23956	0.999357	0.000667	0.974889	0.054415
LRRN1	-0.03112	0.04559	-0.02838	0.342566	0.818227	0.738649	0.833988	0.009095	-0.09533	0.29426	-0.0251	0.389343	0.264281	0.97643	0.435	0.996257
EP400	-0.2212	-0.02084	-0.02995	-0.23528	0.10135	0.879934	0.826554	0.080894	-0.34167	0.13957	-0.04342	0.021639	0.010063	0.822542	0.388503	0.556753
ARHGAP23	0.053003	0.081266	-0.00522	0.175263	0.695376	0.551569	0.969235	0.192229	0.041809	0.28764	-0.03586	0.272424	0.60868	0.973711	0.407541	0.966497
CCDC146	-0.11652	-0.02279	-0.06737	-0.23178	0.388047	0.867572	0.618539	0.082763	-0.20271	-0.1726	0.049907	-0.13272	0.088329	0.125677	0.627624	0.189632
PTN	0.059012	0.097015	-0.24459	0.278518	0.662809	0.476899	0.066706	0.035915	-0.20556	0.48139	-0.12115	0.59154	0.085269	0.999647	0.213959	0.999993
COL20A1	-0.03066	-0.15892	0.303635	-0.24441	0.820887	0.242064	0.02167	0.066912	0.185874	-0.32833	0.1719	-0.35935	0.891915	0.012949	0.870576	0.00709
ZSWIM5	0.238415	0.204558	0.154704	-0.2756	0.074105	0.130461	0.250537	0.037985	-0.21994	0.148882	-0.04347	0.148125	0.070954	0.8383	0.388394	0.837052
MYH7B	-0.08589	-0.11582	0.132782	-0.17465	0.525279	0.395317	0.3248	0.193803	0.053567	-0.2141	0.122511	-0.24203	0.638167	0.076541	0.788646	0.05256
POGK	0.032898	0.3933	-0.24381	0.255285	0.808054	0.002712	0.067603	0.055296	0.032461	0.579158	-0.13513	0.361615	0.584788	0.999988	0.188072	0.993231
USP28	-0.0269	0.192082	-0.14026	0.107732	0.842554	0.156122	0.298045	0.425063	-0.03258	0.325988	-0.0508	0.309435	0.414903	0.986478	0.370177	0.981807
DHX37	-0.09607	0.012043	-0.00106	-0.00742	0.477149	0.929801	0.993748	0.956343	0.015167	0.082529	-0.00191	-0.03342	0.539845	0.707215	0.495032	0.412736
KIAA1522	-0.12129	0.066982	-0.06181	-0.16678	0.368767	0.623784	0.647825	0.214985	-0.29664	0.344136	-0.33234	0.147345	0.022652	0.990406	0.012857	0.835762
PHF12	-0.04759	0.065409	-0.0429	0.15488	0.7276	0.635179	0.753555	0.254383	0.055415	0.18353	0.102626	0.148388	0.639556	0.88347	0.743723	0.831798
KIAA1524	0.104943	0.233089	-0.16777	0.125115	0.441456	0.086784	0.216482	0.358215	-0.09905	0.542518	-0.22002	0.396815	0.256252	0.999951	0.073215	0.996837
KIAA1529	-0.14106	-0.25026	0.036699	-0.2741	0.295274	0.06285	0.78637	0.039085	-0.19075	-0.38446	0.063982	-0.31943	0.102076	0.004169	0.661865	0.015236
KIAA1530	-0.14926	-0.23401	0.067257	-0.13337	0.267814	0.082594	0.619124	0.322652	-0.26352	-0.07231	-0.06293	-0.24799	0.038404	0.316492	0.340655	0.048281
GRAMD1A	0.217356	-0.36035	0.393416	0.138235	0.104348	0.00637	0.002466	0.305144	0.331763	-0.49707	0.233541	-0.34521	0.987852	0.000221	0.938705	0.009396
HCN3	0.047927	0.05803	0.175804	-0.22417	0.723318	0.670968	0.190839	0.093675	0.167158	-0.07545	0.233663	-0.14666	0.866578	0.309127	0.938805	0.165384
CALCOCO1	-0.03017	-0.35154	0.190802	-0.22262	0.825291	0.008493	0.158952	0.099124	0.21499	-0.50754	0.214982	-0.5358	0.924334	0.000159	0.921935	6.22E-05
ZBTB4	0.23566	-0.17087	0.256542	-0.12792	0.07761	0.207986	0.054065	0.342992	0.140194	-0.12037	0.250663	-0.08888	0.823626	0.212768	0.951625	0.278465
PHRF1	-0.01148	-0.00153	0.085363	-0.09604	0.932452	0.991055	0.52781	0.477304	0.083627	-0.04427	-0.00115	-0.17454	0.709714	0.38509	0.496997	0.122998
KIAA1543	-0.03369	-0.11606	0.161661	-0.22921	0.803531	0.394306	0.229598	0.086325	0.083926	-0.21396	0.110732	-0.29627	0.710392	0.076673	0.76551	0.02279
USP29	-0.01323	0.047924	0.118177	-0.27091	0.922921	0.728252	0.385692	0.043432	-0.20023	-0.23769	0.012559	-0.28396	0.093625	0.057946	0.532245	0.029352
PLEKHA4	0.138291	-0.26262	0.197114	-0.12383	0.304947	0.050536	0.14165	0.358761	0.138925	-0.24931	0.184748	-0.23661	0.821417	0.047373	0.887807	0.056693
RDH14	-0.15286	-0.07649	-0.16014	0.162626	0.256282	0.575253	0.234065	0.226792	-0.28206	0.174832	-0.40219	0.166311	0.028773	0.877405	0.003084	0.865344
FBRSL1	0.102155	-0.20411	0.326953	-0.05774	0.449558	0.131332	0.01305	0.669634	0.012206	-0.22083	0.207745	-0.18645	0.532084	0.070136	0.914559	0.107358
EPB41L5	0.058846	0.16661	-0.14683	-0.04378	0.663697	0.21972	0.275767	0.746437	0.192288	-0.10999	0.024293	-0.18043	0.899772	0.233398	0.56293	0.115078

KIAA1549	-0.05283	-0.04642	0.145658	-0.32229	0.696301	0.734069	0.27965	0.014488	0.120618	-0.32389	0.12434	-0.26432	0.787704	0.014052	0.792118	0.037943
BEND3	-0.06133	0.032947	0.06608	-0.27695	0.650407	0.80951	0.625284	0.037019	-0.24149	0.003724	-0.08652	0.016746	0.052959	0.509798	0.285996	0.543978
RNF213	-0.1676	0.176457	0.003129	0.563668	0.221291	0.201819	0.98191	7.43E-06	-0.01611	0.376454	-0.01587	0.375927	0.458184	0.994595	0.459292	0.994535
ZFP14	0.023398	-0.01121	-0.1148	-0.01261	0.862841	0.934643	0.39512	0.92584	-0.04906	0.223488	0.049861	0.121718	0.373044	0.932283	0.627511	0.789824
GPAM	0.093573	0.134953	-0.24735	0.001391	0.488728	0.321363	0.063594	0.991809	-0.04794	0.269057	-0.01195	0.149896	0.375852	0.964706	0.46894	0.839961
ALS2	-0.02841	0.165633	-0.06912	-0.17031	0.833826	0.222474	0.609415	0.205308	-0.15832	0.131532	0.032551	0.035187	0.146651	0.808214	0.584053	0.59179
QSOX1	-0.12487	0.05006	-0.10916	0.140072	0.359155	0.71664	0.423222	0.303174	-0.16775	0.349311	-0.29961	0.260229	0.132561	0.99133	0.022779	0.959648
CHD8	-0.04241	0.276375	-0.34508	0.038318	0.75412	0.039217	0.008567	0.777184	-0.12429	0.492244	-0.18093	0.369504	0.205254	0.999744	0.117137	0.994252
ZDBF2	0.122273	-0.1433	0.013357	-0.01787	0.364887	0.292043	0.921443	0.895042	0.211187	-0.20689	-0.03194	-0.14612	0.920563	0.083857	0.417496	0.166272
ZBTB26	-0.1039	0.278571	0.018114	-0.0667	0.441798	0.03762	0.893611	0.622012	0.157076	-0.05226	0.034386	-0.04441	0.851412	0.365072	0.588716	0.384727
CACHD1	0.155551	0.038602	0.06797	-0.01087	0.252307	0.777588	0.618663	0.936607	-0.15907	0.185638	0.016041	0.247696	0.145505	0.891618	0.541647	0.951513
VAT1L	0.120461	-0.16305	0.200917	-0.15578	0.372089	0.229871	0.133975	0.247203	0.22632	-0.22763	0.192671	-0.23279	0.934789	0.064075	0.897606	0.059751
ZSWIM6	-0.20035	0.342585	-0.32071	0.259973	0.135099	0.00975	0.015004	0.05082	-0.06171	0.26414	-0.21481	0.222701	0.343577	0.960227	0.080718	0.929276
LRRC4C	0.058435	-0.1975	0.173102	0.057025	0.668803	0.148355	0.20202	0.676347	0.073854	-0.42674	0.25769	-0.52554	0.687148	0.001551	0.956273	8.83E-05
TNRC6C	0.176874	-0.36594	0.29261	0.05307	0.192213	0.005544	0.028637	0.69768	0.319576	-0.47813	0.22148	-0.29121	0.983819	0.000447	0.92575	0.026139
KIAA1586	0.053701	0.142429	-0.21643	0.167755	0.691562	0.295029	0.105871	0.212278	0.108461	0.092069	-0.031	0.221601	0.763466	0.72859	0.419893	0.930575
MAGEE1	0.188954	-0.05732	0.252342	-0.14123	0.159226	0.674784	0.058264	0.294671	0.227686	-0.24652	0.33705	-0.12605	0.935972	0.049313	0.988215	0.201941
ZNF317	0.027355	0.258647	-0.09885	0.224886	0.839925	0.054257	0.464417	0.092597	-0.03447	0.466945	-0.1716	0.448421	0.410058	0.999465	0.129852	0.999112
USP37	-0.00923	0.210916	-0.27192	0.226844	0.945683	0.118674	0.040739	0.089716	0.041554	0.33904	0.005543	0.232164	0.608033	0.989415	0.514415	0.939738
DDX55	-0.13752	0.365798	-0.22204	0.173615	0.312174	0.006025	0.100027	0.200665	0.127067	0.169639	-0.12628	0.101509	0.799969	0.870145	0.204227	0.748972
FANCM	0.163695	0.122727	-0.14116	0.18131	0.223711	0.367531	0.294936	0.177095	0.010658	0.377588	-0.06305	0.222585	0.528023	0.995159	0.34036	0.931469
KIAA1598	-0.0109	0.197709	-0.09031	-0.08767	0.935872	0.144123	0.504089	0.516665	0.146963	0.152273	-0.12015	0.016401	0.835127	0.843812	0.215877	0.543075
CPNE5	0.137171	-0.34198	0.133712	0.161404	0.308918	0.009888	0.321392	0.230349	-0.0201	-0.07928	0.175233	0.076377	0.447248	0.300241	0.875207	0.693044
BAI3	0.352735	-0.26141	0.05578	0.20603	0.00712	0.051648	0.68025	0.124151	0.390314	-0.4929	0.258982	-0.31892	0.996337	0.000251	0.957089	0.015376
PTPN1	-0.33912	0.524704	-0.32536	0.207738	0.009864	3.31E-05	0.013528	0.120995	-0.20182	0.728236	-0.22034	0.509107	0.089311	1	0.072915	0.999849
FAM160B1	-0.01799	0.213458	-0.16046	0.286553	0.894324	0.114195	0.233125	0.030692	0.091606	0.242104	0.023022	0.252615	0.72757	0.947497	0.559662	0.954845
KIAA1602	-0.10231	-0.03308	0.079136	-0.15679	0.448876	0.808741	0.558448	0.24413	-0.03948	-0.09151	-0.04298	-0.13012	0.397237	0.27264	0.389607	0.194376
CWC22	-0.01839	0.182304	-0.23615	0.142821	0.892987	0.182814	0.079743	0.29369	0.103135	0.236685	0.046785	0.166875	0.752402	0.943368	0.619886	0.866165
GBA2	-0.12352	0.10532	0.026182	0.255308	0.364416	0.444112	0.848099	0.057557	-0.07417	0.268222	-0.18319	0.277149	0.316158	0.960828	0.119825	0.965722
WDFY4	-0.02848	-0.31731	0.167145	0.519561	0.834932	0.018247	0.218222	4.07E-05	-0.06039	-0.21332	0.074162	-0.12436	0.34676	0.079712	0.68383	0.207847
DENND1A	-0.05149	-0.30072	0.102467	-0.04173	0.703678	0.024322	0.448172	0.757938	-0.0879	-0.28479	-0.03978	0.011575	0.282932	0.028972	0.398829	0.530077
KIAA1609	-0.20395	0.331577	-0.17097	-0.22798	0.131624	0.0134	0.207709	0.091047	-0.27979	0.693546	-0.35858	0.414669	0.029835	1	0.007787	0.997917
MIER1	0.052926	0.159793	-0.17743	0.16031	0.695793	0.239438	0.186694	0.233565	0.238916	0.105232	0.044559	0.172317	0.945097	0.756789	0.614338	0.873924
SLC7A14	0.037555	0.018442	0.199024	-0.30872	0.78151	0.892686	0.137755	0.019465	0.090215	-0.07714	0.209019	-0.26208	0.724495	0.30519	0.915892	0.039248
PTPN2	-0.09229	0.205891	-0.10229	0.305994	0.494726	0.127919	0.448977	0.020621	-0.09725	0.463717	-0.01517	0.323122	0.262553	0.999332	0.461074	0.984807
KIAA1614	0.033999	-0.1302	0.271972	-0.13625	0.801756	0.338854	0.040696	0.312197	0.19593	-0.32769	0.124279	-0.21088	0.904051	0.013105	0.792002	0.07975
ZNF529	-0.04179	0.075422	-0.11466	0.093083	0.757569	0.580629	0.395719	0.491019	0.103764	0.140318	-0.05981	0.003102	0.753722	0.823841	0.348163	0.508162
SFMBT2	0.108278	-0.22458	0.215753	0.612364	0.422708	0.096108	0.106992	4.15E-07	0.108575	-0.01424	0.187118	0.242639	0.761132	0.463027	0.888054	0.94586
KIAA1618	-0.16029	0.054823	0.035155	0.449782	0.242408	0.693775	0.798874	0.000571	-0.04964	0.245595	-0.05178	0.226369	0.37304	0.948042	0.369274	0.93258
SEMA4G	0.029294	-0.15677	0.164551	-0.3123	0.828748	0.248565	0.221266	0.018026	-0.00065	-0.15709	0.03213	-0.34277	0.498304	0.15137	0.582013	0.010584
PRX	-0.03563	-0.09297	0.258976	-0.23748	0.792444	0.495533	0.051747	0.075277	0.152274	-0.4319	0.154823	-0.31187	0.843814	0.001362	0.845065	0.017431
PCDHB16	0.320836	-0.16827	0.044677	-0.1115	0.014962	0.215086	0.741403	0.408953	0.343456	0.049209	0.280439	-0.03357	0.990278	0.62732	0.968975	0.412355
PPP4R4	-0.00823	0.115455	-0.17623	-0.37262	0.951569	0.396805	0.189757	0.004311	0.051349	-0.27596	0.117346	-0.34448	0.63266	0.0317	0.778663	0.00953
ANO8	-0.02568	0.157922	-0.03077	-0.08254	0.849633	0.245057	0.820256	0.541604	-0.0548	0.438808	-0.17263	0.144444	0.35879	0.998858	0.128404	0.830904
GPR107	-0.0563	0.375892	-0.25713	0.063428	0.680246	0.004681	0.055734	0.642352	-0.16837	0.444709	-0.21406	0.300908	0.131671	0.999021	0.078975	0.978926
METTL14	-0.01858	0.137879	-0.24504	0.173044	0.890891	0.310885	0.066185	0.19801	-0.04384	0.364286	-0.15281	0.299624	0.386167	0.993593	0.158141	0.978462
IGDCC4	0.015301	-0.10616	0.217442	-0.15487	0.910055	0.43616	0.104208	0.250012	0.016009	-0.18852	-0.0203	-0.20262	0.542049	0.104791	0.44735	0.088433
KIAA1632	0.173868	-0.02029	0.034741	0.19114	0.195848	0.882021	0.797521	0.154368	0.017872	0.244264	0.003621	0.125914	0.546921	0.949077	0.509418	0.797807
NCOA5	0.015317	0.221833	-0.05724	0.029823	0.911624	0.103584	0.678086	0.828878	0.052794	0.31494	-0.26447	0.160405	0.636251	0.983489	0.039576	0.856538
WDR19	-0.09179	-0.13106	-0.03171	-0.20477	0.497102	0.335652	0.814889	0.126527	-0.12731	-0.32003	0.061551	-0.20877	0.199578	0.015071	0.656032	0.081908

ANKRD36B	-0.02901	-0.09839	0.087775	0.15764	0.830385	0.470657	0.516169	0.241548	0.375245	0.018499	0.051639	-0.05427	0.99491	0.548559	0.631896	0.360088
SPTBN4	0.017065	-0.16569	0.280657	-0.24757	0.89974	0.222315	0.034457	0.063351	0.214888	-0.53844	0.264228	-0.40526	0.924235	5.67E-05	0.96028	0.002603
ZFYVE28	-0.14491	-0.08197	0.124011	-0.09955	0.282141	0.548112	0.358056	0.461269	-0.05393	-0.1691	-0.0236	-0.05597	0.36093	0.130622	0.438861	0.355886
GBA3	0.142895	-0.15341	0.201216	-0.21723	0.293436	0.263467	0.136999	0.107784	0.086156	-0.44447	0.039353	-0.27358	0.715431	0.000985	0.601279	0.032903
PTPN3	-0.06884	0.263989	-0.16066	0.060401	0.610896	0.049301	0.23254	0.655366	-0.21982	0.498043	-0.19415	0.328704	0.071068	0.999786	0.100636	0.98714
PTPN4	0.097317	0.117549	-0.03773	-0.12199	0.471424	0.388241	0.780532	0.366018	0.121445	-0.02777	-0.02947	-0.0494	0.7893	0.427321	0.423813	0.372195
SCUBE2	0.121067	-0.21397	0.325624	-0.05222	0.374096	0.116737	0.014328	0.702289	0.301723	-0.27925	0.269261	-0.27031	0.97801	0.031607	0.961424	0.03626
TRIB3	0.076684	-0.20636	0.241304	-0.15532	0.570741	0.12704	0.070564	0.248647	0.129343	-0.3656	0.199794	-0.26106	0.804198	0.006235	0.905889	0.039853
ANKRA2	-0.05069	0.124514	-0.14793	0.15582	0.708042	0.360546	0.27215	0.247094	0.003815	0.2259	-0.03335	0.106897	0.510038	0.934421	0.413921	0.760245
PTPN6	-0.30453	-0.16002	-0.15996	0.148922	0.021267	0.238763	0.234615	0.268897	-0.36064	0.129088	-0.11398	0.133126	0.006905	0.803727	0.227979	0.811109
PTPN7	-0.02817	-0.30738	0.214681	0.301436	0.835201	0.021199	0.10879	0.022688	0.026715	-0.0698	0.168506	0.029201	0.569945	0.322415	0.865745	0.57638
RBAK	-0.06365	0.294819	-0.16537	0.104812	0.63806	0.027402	0.218938	0.437795	-0.11154	0.463959	-0.10838	0.334746	0.230265	0.999418	0.239266	0.988515
MARK4	0.055041	-0.0779	0.148388	-0.17294	0.684265	0.568203	0.270636	0.198274	0.189394	-0.22245	0.127938	-0.21371	0.896278	0.06865	0.798853	0.076915
SF4	-0.09276	0.048856	-0.00247	-0.11792	0.492549	0.720663	0.985424	0.382314	0.041993	0.311108	-0.11574	0.089583	0.609146	0.982333	0.224495	0.723092
FAM5B	0.000575	-0.05742	0.153096	-0.06973	0.996643	0.677096	0.259961	0.609602	0.236776	-0.3999	0.140072	-0.37985	0.941326	0.003247	0.817761	0.005032
GATAD1	0.102756	0.121993	0.039502	0.053366	0.446884	0.370427	0.770483	0.693388	0.270102	0.092004	0.248138	0.019739	0.96527	0.728447	0.949864	0.551799
RAB40C	-0.19896	0.116161	0.003265	-0.19498	0.137879	0.393907	0.980771	0.146109	-0.20047	0.079135	-0.14487	-0.12525	0.090799	0.699433	0.171185	0.203437
BAK1	-0.18127	0.078522	-0.2311	0.339074	0.177199	0.565127	0.083699	0.009875	-0.28119	0.56424	-0.26229	0.42282	0.029175	0.999978	0.040878	0.998291
PTPN9	0.032346	0.181023	-0.24809	0.162802	0.811217	0.181825	0.062774	0.226283	-0.10865	0.499718	-0.09865	0.415995	0.23615	0.999797	0.259556	0.997982
HES4	0.013999	-0.16308	0.311536	-0.15831	0.917685	0.229789	0.018325	0.239536	0.200776	-0.35084	0.089955	-0.32987	0.906992	0.009066	0.719277	0.013451
POLD4	-0.13591	0.183203	-0.10858	-0.0392	0.313445	0.17653	0.421399	0.772207	0.073956	0.195487	-0.11635	-0.01068	0.687387	0.903537	0.223297	0.471918
KIAA1967	-0.18205	0.026336	-0.10575	-0.04927	0.183425	0.850068	0.442237	0.720923	-0.30996	0.354303	-0.2164	0.241062	0.018027	0.99215	0.076672	0.946722
PTPN11	0.107298	0.246275	-0.08882	0.26211	0.426945	0.067298	0.511174	0.048881	0.3862	0.148959	0.044547	0.119135	0.995987	0.838427	0.614308	0.784823
HAMP	-0.00624	-0.20923	0.360816	-0.13984	0.963594	0.125248	0.006297	0.303985	0.132639	-0.3393	0.223393	-0.13767	0.810227	0.010532	0.929908	0.180776
G6PC2	-0.10974	-0.21742	0.131574	-0.25275	0.420746	0.110814	0.333738	0.060191	0.002091	-0.3528	0.09349	-0.39836	0.505501	0.008089	0.729347	0.003054
LSM2	-0.06273	0.075114	-0.10559	0.307094	0.646048	0.585727	0.438615	0.021325	-0.20838	0.54721	-0.22103	0.441617	0.082307	0.999958	0.072265	0.998938
PTPN12	0.109351	0.084712	-0.09743	0.278478	0.418101	0.534767	0.4709	0.035943	0.254784	0.155799	-0.01293	0.24603	0.956256	0.849415	0.466412	0.950342
CCNB1IP1	0.05163	0.089343	-0.2571	0.187268	0.705504	0.516557	0.055761	0.16696	0.072463	0.249297	-0.14224	0.070001	0.683879	0.952617	0.175642	0.678058
C1orf114	-0.07164	-0.18515	0.035435	-0.32892	0.596407	0.171907	0.793565	0.012481	-0.21474	-0.42352	0.158692	-0.28744	0.075912	0.00168	0.851109	0.026373
GRHL3	0.056031	0.339858	-0.07356	-0.19112	0.684515	0.011926	0.593527	0.162187	-0.05007	0.545254	-0.23349	0.266486	0.370519	0.999955	0.061334	0.963288
SLAMF7	-0.02277	-0.13091	0.003332	0.658729	0.866464	0.336188	0.980375	2.55E-08	-0.3563	0.296906	-0.04195	0.34549	0.008146	0.97618	0.393444	0.98995
HMHB1	0.09199	-0.02128	0.22854	-0.23231	0.496147	0.876268	0.08728	0.082054	0.129013	-0.43733	0.254251	-0.38816	0.803588	0.001186	0.954044	0.003843
RAP2C	-0.05649	0.225325	-0.12843	0.268295	0.676398	0.09498	0.341059	0.043605	0.002791	0.359022	-0.20776	0.270288	0.507343	0.992863	0.085425	0.965369
C6orf47	0.010031	-0.02346	0.140215	0.049526	0.940963	0.863729	0.298203	0.714475	0.007335	0.165856	-0.05842	0.106998	0.519294	0.864679	0.351526	0.760453
C19orf15	-0.11687	-0.22096	0.156288	-0.36314	0.391024	0.104985	0.250036	0.005945	-0.08291	-0.44981	0.154228	-0.33666	0.294097	0.000967	0.841242	0.01187
ZP4	0.01504	-0.07138	0.128342	-0.23559	0.911585	0.601143	0.341382	0.077697	0.122001	-0.30238	-0.03589	-0.21533	0.790369	0.02055	0.407463	0.075332
PTPN13	-0.02807	0.498184	-0.29702	-0.13297	0.8373	0.000109	0.026216	0.328588	-0.07065	0.713914	-0.29753	0.437797	0.320393	1	0.023578	0.998828
CYP4F11	-0.11364	0.263439	-0.20586	-0.28823	0.39998	0.049793	0.124463	0.029687	-0.29672	0.258921	-0.23846	0.182368	0.022619	0.958853	0.057342	0.887443
SLC4A5	-0.17425	-0.19112	0.101997	-0.20056	0.194853	0.158246	0.450267	0.134684	-0.17366	-0.30241	0.159697	-0.17966	0.124204	0.020542	0.852652	0.116096
PTPN14	0.354524	-0.15583	0.105423	0.067923	0.006814	0.251446	0.435112	0.615651	0.430483	-0.00412	0.101872	-0.01057	0.998588	0.48915	0.747258	0.472209
PTPRA	0.027345	0.124575	-0.2839	0.068675	0.839983	0.360307	0.032342	0.611736	-0.133	0.371618	-0.12808	0.341151	0.189121	0.994503	0.20089	0.989835
ZNF410	-0.0494	0.302668	-0.33372	0.179228	0.715195	0.023369	0.011184	0.182205	0.106609	0.46722	-0.06437	0.390181	0.757105	0.999393	0.339024	0.995972
CADM3	0.111744	-0.21065	0.280763	0.201852	0.407922	0.119153	0.034387	0.132136	0.327347	-0.34157	0.188182	-0.20784	0.986813	0.010084	0.89213	0.082866
SLC46A2	-0.13641	-0.13153	0.118064	-0.13827	0.311646	0.333909	0.381746	0.305007	0.072029	-0.64141	0.103365	-0.48946	0.682855	7.81E-07	0.750383	0.000278
PTPRB	0.245221	-0.12514	0.214405	0.388114	0.068516	0.362636	0.11256	0.00312	0.297711	-0.14917	0.193648	0.096503	0.977754	0.161224	0.898771	0.738261
PTPRC	-0.05601	-0.3023	-0.06811	0.527618	0.679022	0.023546	0.614691	2.47E-05	-0.30059	-0.14606	-0.03063	0.115394	0.021188	0.166376	0.420842	0.777464
PTPRD	0.255621	-0.18895	0.141015	0.268722	0.054964	0.163107	0.295427	0.043259	0.272457	-0.06615	0.104268	0.049918	0.966514	0.331128	0.752263	0.629092
NKX3-2	-0.03898	-0.12621	0.163542	-0.14548	0.773435	0.353997	0.22415	0.280233	-0.06715	-0.23041	0.040719	-0.22621	0.330589	0.063919	0.603505	0.067561
PTPRCAP	-0.05765	-0.30677	0.124846	0.135955	0.670138	0.021467	0.354805	0.313269	0.015273	-0.23959	0.066799	-0.0865	0.540122	0.054389	0.668575	0.283786
PTPRE	0.170208	-0.05231	0.117596	0.22273	0.205573	0.701825	0.38365	0.095851	0.022403	-0.07762	0.160701	-0.08542	0.558743	0.304073	0.854186	0.286225

PTPRF	-0.22076	0.225672	-0.2233	-0.15913	0.102054	0.097594	0.098069	0.241424	-0.24626	0.336477	-0.38115	0.096829	0.051474	0.988089	0.005345	0.736555
PTPRG	0.261921	-0.08258	0.233106	0.393244	0.051174	0.548908	0.083814	0.002716	0.455575	-0.05458	0.198874	0.112618	0.999267	0.35933	0.904847	0.771916
PTPRH	-0.19783	0.359348	-0.19638	-0.06637	0.14019	0.006529	0.143176	0.623776	-0.10235	0.536062	-0.11519	0.27807	0.249246	0.999938	0.225575	0.969338
PTPRJ	-0.04346	-0.16469	0.060689	0.128955	0.748224	0.225144	0.653827	0.339064	-0.01974	-0.1284	-0.00075	-0.08549	0.448787	0.200282	0.498065	0.2883
PTPRK	-0.09154	0.481219	-0.27594	0.248516	0.498243	0.000174	0.037741	0.062315	-0.15574	0.671014	-0.21004	0.546912	0.150683	1	0.08305	0.999958
PTPRM	0.266865	-0.28908	0.210436	0.011567	0.044781	0.030705	0.116134	0.931947	0.334748	-0.49894	0.272175	-0.26232	0.988515	0.000208	0.964755	0.039107
PTPRN	0.020945	-0.08656	0.250536	-0.26506	0.877099	0.525849	0.060149	0.046306	0.1036	-0.34307	0.251042	-0.34062	0.753378	0.009795	0.951885	0.010269
PTPRN2	-0.15831	-0.05125	0.138407	-0.30429	0.239516	0.707588	0.304538	0.021372	-0.15349	-0.24461	-0.02184	-0.3883	0.154238	0.050674	0.44337	0.003831
ACTA1	0.152831	-0.2071	0.229375	-0.06034	0.256387	0.125651	0.086099	0.655692	0.239267	-0.38063	0.303696	-0.36653	0.945366	0.004533	0.978725	0.006116
BARD1	0.040867	0.326201	-0.24239	-0.0116	0.762784	0.014146	0.069274	0.931766	-0.17623	0.601825	-0.29535	0.298894	0.120687	0.999995	0.024435	0.978194
PTPRO	0.168843	-0.01831	0.228645	-0.01419	0.209287	0.893456	0.087131	0.916545	0.284617	-0.24448	0.176113	-0.32411	0.972387	0.050766	0.876411	0.013994
PTPRR	-0.12673	-0.03754	0.09357	-0.27023	0.347519	0.783552	0.488743	0.042054	-0.06734	-0.39266	0.064337	-0.28506	0.328284	0.003475	0.662713	0.027416
PTPRS	0.221824	0.018388	-0.01352	0.163743	0.097243	0.893	0.920493	0.223575	0.297188	0.242629	-0.01079	0.188263	0.977557	0.947885	0.471957	0.894891
PTPRZ1	0.174355	0.463726	-0.21348	0.054026	0.198724	0.000319	0.114166	0.692501	-0.0957	0.650029	-0.21089	0.481001	0.263479	0.999999	0.082179	0.999643
PTS	-0.00444	0.327228	-0.17684	-0.00313	0.973873	0.013828	0.188202	0.981588	0.045458	0.402999	-0.16626	0.154553	0.617904	0.997256	0.137513	0.847451
PTX3	0.159291	-0.04334	0.080175	-0.20394	0.236591	0.751147	0.553278	0.128093	0.338179	-0.35134	0.319524	-0.24679	0.988461	0.008978	0.982753	0.051093
BAX	-0.01763	-0.15784	0.152714	-0.02012	0.89641	0.245307	0.256756	0.881894	0.086481	-0.06903	0.012052	-0.01702	0.716162	0.324242	0.531314	0.455309
RAD1	0.052198	0.277648	-0.16545	0.19049	0.699778	0.038285	0.218729	0.155801	0.181553	0.381637	-0.06533	0.261402	0.886386	0.995565	0.334924	0.960351
PURA	0.126498	0.146827	-0.00741	0.262398	0.348423	0.280214	0.956388	0.048624	0.157302	0.214587	0.076156	0.268932	0.848955	0.921545	0.688404	0.962979
PURB	-0.1215	0.452076	-0.35375	0.384812	0.367931	0.000469	0.006945	0.00312	0.163999	0.597465	-0.23769	0.32594	0.861941	0.999994	0.057951	0.986467
PTBP2	0.133971	-0.00231	0.003007	0.183824	0.320448	0.986493	0.98229	0.171064	0.338354	-0.13717	0.106699	-0.06024	0.989275	0.18166	0.75729	0.345431
NGB	-0.01696	-0.07483	0.220244	-0.19973	0.900347	0.583613	0.099712	0.136331	0.004222	-0.36333	0.18126	-0.34053	0.511108	0.006534	0.883293	0.010288
NEUROD4	0.083416	-0.39287	0.065803	-0.22075	0.541057	0.003007	0.62992	0.102062	0.184441	-0.51734	0.260533	-0.403	0.890102	0.000116	0.958052	0.002744
PVALB	-0.15448	-0.13447	0.15984	-0.29003	0.251225	0.32313	0.234959	0.02864	-0.15129	-0.41233	0.206241	-0.26193	0.160581	0.002442	0.910389	0.041093
NF-E4	0.227769	-0.24188	0.304966	-0.26649	0.091354	0.075211	0.022288	0.047109	-0.01795	-0.45336	0.165459	-0.31556	0.452863	0.000778	0.861306	0.016329
PVR	0.035672	0.257433	0.213577	0.152411	0.792215	0.055439	0.110664	0.257713	0.208439	0.102971	0.03342	0.186445	0.917753	0.752056	0.586262	0.892632
PVRL1	-0.0475	0.274061	-0.17284	0.051797	0.725696	0.040959	0.198559	0.701975	-0.07307	0.568777	-0.22629	0.338308	0.314689	0.999981	0.06749	0.989266
WFDC1	0.28717	-0.21946	0.371903	0.010071	0.030319	0.104131	0.004392	0.94073	0.308363	-0.46651	0.267148	-0.19812	0.981464	0.000542	0.961973	0.093443
PVRL2	-0.03449	-0.08168	0.090307	0.079679	0.798946	0.549526	0.504092	0.555743	-0.0809	0.213025	-0.17234	0.127381	0.296511	0.922403	0.128808	0.800556
CTDSP1	0.132358	-0.12509	0.18666	0.079153	0.326362	0.358308	0.164443	0.558367	0.212282	-0.01644	0.073502	0.043097	0.921662	0.456812	0.68433	0.611943
CXCL16	-0.09728	0.343664	-0.18176	0.300979	0.471591	0.009507	0.175997	0.022904	-0.05318	0.632403	-0.10723	0.465605	0.362798	0.999999	0.241618	0.999444
BBS1	-0.12035	-0.16818	0.011854	-0.20844	0.372531	0.215331	0.930263	0.119717	-0.25735	-0.06374	-0.00111	-0.04961	0.042117	0.336943	0.49711	0.371684
PWP2	-0.02856	0.087149	-0.14358	0.050554	0.832951	0.523039	0.286629	0.708807	-0.15481	0.419189	-0.13281	0.2225	0.152143	0.998132	0.192229	0.931392
PEX19	0.018904	0.157465	-0.25486	-0.0408	0.888998	0.246444	0.055715	0.763166	-0.0366	0.178542	-0.25454	0.203064	0.405669	0.879693	0.047717	0.909528
ABCD3	-0.04643	0.228704	-0.24965	0.002751	0.73164	0.089997	0.061087	0.983795	-0.26949	0.415267	-0.23117	0.265681	0.035059	0.997946	0.063273	0.962835
ABCD4	0.07873	-0.09754	0.122079	0.113406	0.56776	0.48287	0.374597	0.40972	-0.055	0.215404	-0.024	0.101905	0.359857	0.92235	0.438553	0.747326
PXMP2	0.052606	0.146242	-0.06573	-0.07702	0.697546	0.282157	0.627109	0.569064	0.259509	-0.00818	0.203969	-0.15801	0.957418	0.478744	0.907918	0.149946
PXMP3	-0.17207	0.102367	-0.31071	0.091007	0.200578	0.452808	0.018655	0.500779	-0.28501	0.32482	-0.28828	0.237875	0.027437	0.986185	0.027405	0.944295
PXN	0.003327	-0.21889	0.184701	-0.13885	0.980405	0.105064	0.168997	0.302979	-0.06885	-0.1681	0.265971	-0.08624	0.326563	0.134839	0.959511	0.286616
BBS2	0.085605	-0.05228	-0.12694	-0.0506	0.526638	0.701982	0.346726	0.70858	-0.05242	-0.0682	0.08947	-0.05595	0.364682	0.326229	0.720547	0.355943
PEX5	0.111997	0.003279	-0.02961	-0.15469	0.406856	0.980866	0.826937	0.250594	-0.057	0.298831	-0.0962	0.108701	0.354981	0.976926	0.267233	0.761389
PYCR1	0.074514	-0.08341	0.246728	-0.06144	0.581723	0.54109	0.064284	0.649804	0.21706	-0.21353	0.175419	-0.15413	0.926331	0.0771	0.875462	0.153226
ALDH18A1	0.218512	0.03942	0.100332	0.072081	0.102473	0.773002	0.457735	0.594148	0.091656	0.263236	-0.07528	0.189495	0.72768	0.961431	0.311553	0.896402
PCYT2	-0.17819	-0.17742	0.07835	-0.26894	0.184797	0.190829	0.562374	0.043085	-0.29415	-0.21962	-0.14514	-0.20505	0.023614	0.071258	0.170736	0.085811
PYGB	0.12904	-0.08276	0.021112	0.219664	0.338742	0.544252	0.87613	0.100631	0.261496	0.312465	-0.17696	0.056505	0.960407	0.98275	0.122439	0.645422
PYGL	-0.03619	-0.17653	-0.13158	-0.14035	0.789275	0.193087	0.329255	0.297728	0.202004	-0.04812	0.052449	-0.15927	0.910894	0.375399	0.633889	0.145198
PYGM	0.313718	-0.25104	0.320807	-0.07423	0.017483	0.06201	0.014971	0.583164	0.335822	-0.38998	0.353012	-0.1414	0.987943	0.004046	0.990624	0.177092
SQRDL	-0.20164	0.29687	-0.25229	0.397012	0.13256	0.026296	0.058319	0.00223	-0.23986	0.591584	-0.28965	0.391896	0.054182	0.999993	0.026805	0.996465
PLEKHB1	-0.09836	-0.28085	0.172315	-0.33837	0.46665	0.036022	0.199934	0.01004	-0.16146	-0.43057	0.058162	-0.35988	0.141858	0.001409	0.647843	0.007013
MS4A7	0.087179	-0.32562	0.092593	0.336011	0.522893	0.015271	0.497307	0.011346	0.028708	-0.22364	0.153727	0.002228	0.575105	0.067578	0.843326	0.505861

TP53INP2	0.074709	0.164423	0.041825	-0.24739	0.580733	0.225918	0.75739	0.063551	0.04845	0.233896	0.023663	-0.02088	0.625421	0.941149	0.561309	0.445235
SRPRB	0.172066	0.275	0.005268	0.221195	0.204776	0.042156	0.969264	0.101359	-0.08671	0.534616	-0.18628	0.434877	0.283324	0.999935	0.110255	0.998737
ENOPH1	-0.03749	0.323391	-0.26336	0.188359	0.781894	0.01505	0.047773	0.160567	-0.13239	0.625415	-0.22012	0.527988	0.190227	0.999998	0.073123	0.999919
RHOU	0.016092	-0.436	0.255091	-0.07298	0.905425	0.000783	0.055487	0.589537	0.251879	-0.64327	0.302519	-0.44689	0.954358	7.13E-07	0.978301	0.000924
NLRC4	-0.19768	-0.2546	-0.04889	-0.14258	0.140498	0.058277	0.718006	0.290033	-0.02879	-0.35371	0.186252	-0.30638	0.425533	0.008572	0.88696	0.020332
TRAPPC1	-0.12098	-0.03549	-0.11848	-0.21177	0.370007	0.795129	0.380059	0.113791	-0.42014	0.152361	-0.06106	0.133766	0.001825	0.843953	0.345144	0.812264
ZBED5	0.03079	0.197915	-0.12879	0.158686	0.820141	0.143696	0.339688	0.238399	0.207841	0.288543	0.00729	0.155752	0.917133	0.974096	0.518954	0.849341
CREBZF	0.026556	0.21369	-0.04512	0.21794	0.844545	0.113794	0.738934	0.103398	0.207234	0.244877	0.035219	0.128987	0.9165	0.949519	0.59083	0.80354
PCTP	-0.05509	0.337575	-0.36437	0.0056	0.684	0.010947	0.005328	0.967025	0.087281	0.263215	-0.20128	0.14179	0.717956	0.961419	0.092443	0.826382
FAM108C1	-0.10765	0.224076	-0.0556	-0.01539	0.425402	0.096875	0.681211	0.909516	-0.15162	0.388323	-0.2587	0.242607	0.15724	0.996171	0.043087	0.947869
RPRD1B	-0.15829	0.099278	-0.03298	-0.08614	0.239596	0.46663	0.807611	0.524044	-0.14055	0.473764	-0.07928	0.221596	0.175749	0.999559	0.302336	0.930569
ZNF71	-0.02903	-0.00696	0.25574	0.012169	0.830238	0.959421	0.054848	0.928415	0.068886	-0.14537	-0.05474	-0.03777	0.673513	0.170346	0.362082	0.40272
ZNF77	0.034606	-0.14138	0.044571	-0.14503	0.800114	0.303213	0.744287	0.286194	0.070943	0.139263	0.03993	-0.19895	0.680289	0.822008	0.602733	0.092505
C9orf80	0.059053	0.27671	-0.13264	0.095973	0.662585	0.03897	0.325327	0.4776	-0.09821	0.36662	-0.14129	0.27488	0.258062	0.993896	0.177282	0.967758
JAM2	0.332371	-0.22982	0.139432	0.399266	0.011537	0.088393	0.300934	0.002093	0.259172	-0.09267	0.197216	0.231008	0.959006	0.27008	0.902948	0.938782
OVOL2	-0.22117	-0.09274	0.00903	-0.24115	0.098256	0.496634	0.94685	0.070752	-0.27611	0.028676	-0.169	-0.18087	0.031627	0.575023	0.133539	0.114511
LY6G5B	-0.04459	0.07078	-0.0041	0.307613	0.744176	0.607598	0.976088	0.021095	0.235646	0.092823	0.080425	0.061646	0.942549	0.730246	0.70027	0.657989
PRUNE	0.031974	0.129479	-0.22235	-0.26907	0.813348	0.34156	0.096431	0.042976	-0.07917	0.275956	-0.27135	0.128041	0.300496	0.968298	0.035688	0.801784
MYL7	-0.03308	-0.1894	0.149829	-0.16731	0.807036	0.162103	0.26596	0.213518	0.148705	-0.40356	0.187961	-0.33883	0.838009	0.002709	0.891855	0.010627
ZNF462	0.291248	-0.24389	0.152161	-0.07281	0.027946	0.070081	0.258503	0.590414	0.242694	0.169085	0.086287	0.111526	0.947933	0.869354	0.713484	0.769711
BBS4	-0.08773	-0.00659	-0.08127	-0.1661	0.516369	0.961551	0.547858	0.21688	-0.20842	-0.07809	0.081591	0.012021	0.082269	0.302984	0.70292	0.531599
ZNF250	-0.23579	0.268547	-0.09339	0.160328	0.077444	0.045369	0.489604	0.233514	0.032929	0.143267	0.054532	0.078378	0.585013	0.826103	0.63742	0.695592
PROL1	-0.05695	-0.18428	0.15993	-0.13262	0.676746	0.178032	0.239033	0.32987	-0.00172	-0.07697	0.1522	-0.20316	0.49559	0.309729	0.835052	0.092971
ARHGAP22	-0.06429	-0.12383	0.199787	-0.02389	0.634721	0.363199	0.136221	0.859984	-0.09994	-0.21005	0.136919	-0.11691	0.254351	0.080592	0.815106	0.219529
OSTC	0.094225	0.265191	-0.06102	0.266714	0.48972	0.05038	0.655058	0.046917	-0.04009	0.3653	-0.24036	0.388303	0.396858	0.993197	0.058019	0.995803
SCAF1	-0.01128	-0.23491	0.249854	-0.14816	0.933637	0.081385	0.060874	0.271377	0.077885	-0.343	0.189118	-0.30001	0.696544	0.009808	0.893289	0.021397
MLL3	0.065128	0.242603	-0.07116	0.065823	0.630286	0.071617	0.598895	0.626634	0.275003	0.136623	0.025762	0.03391	0.96782	0.817367	0.5667	0.588515
C19orf29	-0.11662	-0.04531	0.0705	-0.0833	0.387631	0.740175	0.602281	0.537885	-0.16243	-0.08891	-0.06351	-0.09959	0.140395	0.278404	0.339271	0.255103
PRODH2	0.041422	-0.06322	0.295232	-0.27044	0.759657	0.643433	0.025779	0.041887	0.112713	-0.35476	0.26024	-0.36274	0.772106	0.007779	0.957871	0.006614
DNASE2B	0.092368	-0.04571	0.295519	-0.28029	0.494368	0.738005	0.025628	0.034702	0.005565	-0.45748	0.176505	-0.37671	0.51464	0.000696	0.876945	0.004933
DLGAP3	-0.09686	-0.06831	0.142631	-0.27289	0.473539	0.616896	0.289869	0.039996	-0.00261	-0.42256	0.103319	-0.3155	0.49313	0.00172	0.750288	0.016347
EPS15L1	-0.17542	0.249796	-0.16006	-0.30265	0.195954	0.065877	0.238647	0.023376	-0.3042	-0.02706	-0.13589	-0.15954	0.019922	0.429159	0.186715	0.144783
SELK	0.076381	0.035809	-0.0426	0.124117	0.575815	0.795209	0.755225	0.362092	0.230415	0.084969	0.199754	0.054735	0.938287	0.712753	0.905844	0.641056
FAM60A	-0.08371	0.255417	-0.21417	0.092714	0.539606	0.057446	0.112956	0.496743	-0.22836	0.429423	-0.33745	0.328683	0.063452	0.99855	0.011698	0.987135
RBM25	0.043664	0.170836	-0.04443	0.094119	0.747069	0.208078	0.742805	0.486188	0.238522	0.050732	-0.11954	0.03821	0.942706	0.629662	0.219794	0.598396
DMRT3	-0.0499	0.094297	-0.09259	-0.31288	0.712414	0.489389	0.493334	0.017802	-0.15655	0.006906	0.180737	0.072542	0.14941	0.518166	0.882606	0.684064
WIZ	-0.00967	0.126284	0.155604	0.110067	0.943076	0.353704	0.247759	0.415039	0.043327	0.179066	-0.10665	-0.02715	0.612524	0.883117	0.242808	0.428937
MID1IP1	-0.2362	0.209532	-0.12403	-0.21919	0.076909	0.121168	0.357982	0.101389	-0.49959	0.255654	-0.19355	0.118708	0.000204	0.956813	0.101351	0.783992
C6orf115	-0.08702	0.359046	-0.34957	0.21399	0.519785	0.006577	0.007689	0.10996	-0.18586	0.679402	-0.28654	0.400158	0.108104	1	0.028177	0.99707
RRAGD	-0.14271	0.067408	-0.07431	-0.26177	0.289586	0.621577	0.582743	0.049185	0.036841	-0.15044	0.072893	-0.18771	0.596027	0.159159	0.682911	0.105798
MYOZ1	-0.03519	-0.25575	0.232805	-0.0147	0.796817	0.059482	0.084226	0.914383	0.100306	-0.33871	0.100312	-0.15529	0.746418	0.010652	0.743971	0.151385
LY6G6D	0.020105	-0.22262	0.288775	-0.03516	0.881996	0.099121	0.029365	0.795158	0.183455	-0.32693	0.135083	-0.29646	0.888843	0.013289	0.811848	0.022721
PRM3	-0.15714	-0.16218	0.157339	-0.23231	0.247429	0.232412	0.246828	0.084906	0.096159	-0.38763	0.164173	-0.36123	0.737517	0.003888	0.859404	0.006822
SNX6	-0.02491	0.211247	-0.27567	0.249442	0.854076	0.118083	0.037937	0.061314	-0.04362	0.465332	-0.10141	0.405408	0.386745	0.99944	0.253719	0.997406
MPP4	0.055556	-0.03634	0.141258	-0.17573	0.684241	0.792267	0.29906	0.195146	-0.09938	-0.26607	-0.05467	-0.23543	0.255559	0.036945	0.360666	0.057621
PZP	-0.05097	-0.06071	0.031028	-0.27486	0.706521	0.65672	0.818775	0.03853	-0.18708	-0.18965	0.021995	-0.18421	0.106578	0.103407	0.557017	0.110197
QARS	-0.01838	0.27274	-0.23952	0.14728	0.892059	0.041982	0.072739	0.27427	-0.20928	0.692465	-0.33897	0.404226	0.081383	1	0.011369	0.997333
BCAT1	0.112464	-0.21745	0.186833	-0.04434	0.409232	0.110763	0.167965	0.745596	0.412771	-0.20033	0.21607	-0.34831	0.997583	0.093513	0.920536	0.009521
QDPR	0.170391	-0.00551	-0.02155	0.256171	0.205079	0.967872	0.873575	0.054426	0.12039	0.34758	-0.07768	0.27027	0.787263	0.99103	0.30601	0.96536
RAB1A	0.086857	0.203413	-0.21679	0.164067	0.520584	0.132674	0.105283	0.222646	0.070553	0.368944	-0.07354	0.321997	0.679366	0.994184	0.315577	0.985455

RAB2A	0.056077	0.214334	-0.26098	0.129338	0.678639	0.112682	0.049902	0.337616	-0.03631	0.36319	-0.11783	0.277676	0.405334	0.993446	0.22039	0.969146
RGL2	-0.17645	-0.10713	-0.08799	-0.12387	0.193302	0.43627	0.518999	0.363045	-0.2071	-0.04047	-0.06135	-0.06661	0.083644	0.394714	0.34446	0.330035
RAB3A	0.121727	-0.14815	0.270626	-0.05914	0.367046	0.275849	0.041742	0.662095	0.242133	-0.42867	0.102499	-0.32679	0.947519	0.001478	0.748573	0.013324
RAB3B	-0.12131	0.172294	-0.07835	-0.45819	0.368701	0.204167	0.562399	0.000338	-0.40787	-0.21712	-0.12624	-0.36727	0.002449	0.073616	0.204307	0.006023
RAB3IL1	0.002272	-0.2067	0.273751	-0.08497	0.986619	0.126402	0.039348	0.529715	0.162415	-0.51805	0.15596	-0.31181	0.859577	0.000113	0.846858	0.01745
RAB4A	-0.0279	0.05455	-0.27791	0.054328	0.83829	0.692434	0.038094	0.690866	-0.11043	0.112121	-0.31552	-0.00795	0.235108	0.768306	0.018477	0.479329
RAB5A	-0.04106	0.36151	-0.28124	0.177355	0.761691	0.00619	0.034067	0.186892	0.027657	0.454213	-0.10392	0.263448	0.572385	0.99924	0.24846	0.961554
RAB5B	-0.14997	0.263248	-0.27236	-0.08623	0.269944	0.052154	0.042279	0.527465	-0.18809	0.208234	-0.35655	0.08916	0.105328	0.917541	0.008107	0.722151
BCAT2	0.125389	-0.09197	0.066233	-0.11365	0.352696	0.500222	0.624485	0.399905	0.138014	0.192981	-0.01416	0.111011	0.819821	0.900596	0.463232	0.768669
RAB6A	0.042918	0.169493	0.058959	-0.04998	0.751253	0.21173	0.663093	0.711991	0.307097	-0.19491	0.161173	-0.01507	0.981052	0.097134	0.854902	0.460415
MAP4K2	-0.07238	-0.18256	0.092401	-0.0712	0.592598	0.178082	0.494215	0.598659	0.082418	-0.2628	0.143495	-0.34739	0.706961	0.038822	0.82649	0.009004
RAB13	0.051731	-0.01771	0.143318	-0.14786	0.704954	0.897887	0.291995	0.276801	-0.02595	0.021798	-0.13333	-0.06549	0.432044	0.557167	0.191298	0.332711
RAB27A	-0.12189	0.183955	-0.22461	0.334192	0.366397	0.17473	0.093012	0.011063	0.062205	0.313874	-0.08916	0.192657	0.659347	0.983174	0.280138	0.900212
RAB27B	-0.11678	0.398137	-0.22488	-0.08746	0.386972	0.002374	0.092606	0.517681	-0.09764	0.455136	-0.18419	0.213838	0.259292	0.999259	0.112909	0.923206
RABGGTA	-0.07597	0.046049	-0.06863	0.104524	0.574356	0.736113	0.611948	0.439064	-0.21505	0.546596	-0.24242	0.368807	0.075611	0.999958	0.054308	0.994168
RABGGTB	-0.04173	0.28526	-0.20108	0.272941	0.757895	0.033086	0.133659	0.039957	0.049726	0.485202	-0.16577	0.3876	0.628613	0.999684	0.138232	0.996109
RABIF	-0.07811	0.389913	-0.23855	0.292783	0.567178	0.003254	0.076637	0.028538	-0.14702	0.625659	-0.32851	0.436837	0.164773	0.999998	0.013789	0.998799
RAB5C	0.033913	0.154798	-0.2036	0.109829	0.802248	0.254638	0.128756	0.416053	-0.259	0.484336	-0.25484	0.384979	0.041099	0.999676	0.045568	0.995878
RAC1	0.111261	0.250918	-0.20973	0.140309	0.409964	0.062138	0.117395	0.297875	0.139061	0.507073	-0.04794	0.253703	0.821655	0.999839	0.377235	0.955557
RAC2	-0.0158	-0.30381	0.078046	0.541074	0.907153	0.022829	0.563896	1.39E-05	-0.23964	-0.06516	-0.0424	0.103277	0.054354	0.333522	0.391074	0.7527
RAC3	-0.10522	-0.20254	0.163045	-0.26609	0.436018	0.134384	0.22558	0.045426	-0.01326	-0.41843	0.131211	-0.41427	0.465141	0.001902	0.80487	0.002103
RAD9A	-0.30062	-0.13962	0.0122	-0.16413	0.023076	0.30474	0.928233	0.222456	-0.33909	-0.16609	-0.05709	-0.1636	0.010575	0.134978	0.35477	0.13866
RAD17	-0.01434	0.256058	-0.14022	0.120656	0.915664	0.056802	0.298199	0.371309	0.123626	0.245529	0.037251	0.165083	0.793478	0.949985	0.595973	0.863543
RAD21	0.117311	0.131547	-0.31966	0.213372	0.384814	0.333838	0.015355	0.111016	0.005711	0.533248	-0.16535	0.382328	0.515024	0.999932	0.138858	0.995631
RAD23A	-0.22355	0.265426	-0.03958	-0.01472	0.094606	0.048032	0.770034	0.913451	-0.05276	0.38759	-0.1302	0.079106	0.363825	0.996108	0.196973	0.699365
RAD23B	-0.08844	0.422773	-0.35312	0.106734	0.513006	0.00117	0.007052	0.429391	-0.00794	0.450874	-0.20701	0.322431	0.479118	0.999168	0.08622	0.98557
RAD51	0.021282	0.030972	0.091129	-0.08642	0.876279	0.822391	0.504161	0.526549	-0.1672	0.371624	0.0094	0.217462	0.136142	0.994023	0.524144	0.924352
RAD51C	-0.00538	0.129737	-0.25928	0.110057	0.968298	0.340588	0.051462	0.415081	-0.18388	0.346583	-0.29212	0.176367	0.110616	0.990853	0.025757	0.879498
RAD51L1	-0.03685	0.144456	-0.1277	-0.0817	0.785518	0.288139	0.343811	0.545735	-0.05	0.073763	-0.07032	-0.06693	0.370707	0.686934	0.3231	0.329267
RAGE	-0.13164	-0.16591	0.05758	-0.35607	0.329029	0.221703	0.670513	0.006558	-0.20659	-0.26473	-0.01743	-0.25422	0.084177	0.037706	0.454759	0.044105
RAD51L3	-0.09714	-0.04651	0.084342	-0.12193	0.472231	0.733554	0.532777	0.366236	0.007887	-0.1139	-0.03267	-0.11918	0.520743	0.225516	0.415637	0.215096
RAD52	-0.05218	0.046007	-0.11001	0.04808	0.699894	0.736343	0.4153	0.722473	-0.06176	0.059643	-0.05653	-0.00777	0.341725	0.653111	0.356112	0.479569
RAF1	-0.05105	0.243328	-0.29917	0.197454	0.706068	0.070747	0.02378	0.140951	-0.01618	0.428327	-0.15653	0.217617	0.457493	0.99851	0.152254	0.926861
RAG1	-0.08969	0.076987	-0.12702	-0.16326	0.507014	0.572782	0.346422	0.224954	0.032398	0.091103	-0.20209	-0.01862	0.583663	0.724137	0.09416	0.45169
RAG2	-0.03388	-0.10113	-0.02503	-0.05717	0.804229	0.462533	0.854729	0.675586	-0.09808	-0.28753	-0.05957	-0.12533	0.260778	0.027734	0.350441	0.206023
RALA	-0.04125	0.298816	-0.32965	0.101067	0.762758	0.026686	0.013102	0.458599	-0.06996	0.587873	-0.16489	0.382778	0.322043	0.999991	0.139533	0.995674
IL22RA1	-0.05334	-0.23546	0.166079	-0.45099	0.693535	0.080647	0.216948	0.00043	-0.19468	-0.3825	0.104497	-0.40213	0.097408	0.004353	0.752739	0.0028
TMEM8	-0.05161	-0.02374	0.130941	-0.11416	0.7056	0.863392	0.33609	0.402149	0.018789	0.036972	0.003193	-0.01155	0.549318	0.596361	0.508305	0.46963
RALB	-0.15957	0.119965	-0.28449	0.071244	0.235764	0.378494	0.031969	0.598447	-0.16044	0.156716	-0.12024	0.123196	0.14341	0.850851	0.21571	0.792656
ACTA2	0.399857	-0.20346	0.294921	0.112348	0.002264	0.136249	0.027346	0.40972	0.321884	-0.39516	0.311835	-0.20469	0.985426	0.003284	0.981479	0.086199
BCHE	0.252414	-0.18765	0.119283	0.016315	0.05819	0.166081	0.376817	0.904124	0.180317	-0.18004	0.264135	0.052332	0.882053	0.118315	0.958412	0.633601
RALGDS	-0.24127	0.135401	-0.15118	-0.106	0.070603	0.319744	0.261618	0.432585	-0.26897	0.328787	-0.25437	0.113593	0.035344	0.98716	0.045879	0.773872
RAN	-0.03563	0.294438	-0.32956	0.174772	0.792432	0.027612	0.012302	0.193498	-0.08482	0.630762	-0.2135	0.464789	0.287575	0.999999	0.079539	0.999432
RANBP2	0.213288	0.130738	-0.15431	0.054894	0.111116	0.336845	0.251754	0.685065	0.327022	0.156789	0.018346	0.0988	0.986733	0.850966	0.547606	0.743205
RANGAP1	-0.14254	0.238643	-0.10604	-0.01892	0.29018	0.076518	0.432408	0.888878	-0.14922	0.57339	-0.18611	0.284267	0.16114	0.999984	0.110459	0.972231
RAP1A	0.06821	0.132444	-0.12508	0.207624	0.614153	0.330522	0.353889	0.121203	0.117137	0.087301	-0.00674	0.191349	0.778254	0.715744	0.482681	0.896014
IL21	0.099646	-0.25894	0.298743	-0.2366	0.460831	0.053973	0.023989	0.076405	-0.0185	-0.2376	0.157466	-0.07636	0.451441	0.055918	0.84921	0.307003
RAP1B	-0.09084	0.107911	-0.15468	0.174528	0.501577	0.428573	0.250616	0.194129	-0.08862	0.253721	-0.15442	0.172782	0.279049	0.955569	0.155566	0.874573
CARD18	0.07643	-0.20179	0.064427	-0.36938	0.575568	0.139573	0.637112	0.005085	0.181658	-0.33445	0.086243	-0.3717	0.883815	0.012368	0.711113	0.005967
ENPP5	-0.07553	-0.16981	-0.00913	-0.19326	0.576591	0.210868	0.946264	0.149754	-0.17224	-0.31691	0.128074	-0.20985	0.126185	0.015942	0.799105	0.080793

RAP1GAP	-0.08846	-0.00182	0.144997	-0.23572	0.512911	0.98935	0.28186	0.077536	0.009556	-0.16572	0.020845	-0.24629	0.525127	0.135523	0.554055	0.049472
RAP1GDS1	0.086743	0.398437	-0.28266	0.216222	0.521134	0.002355	0.033139	0.106214	0.072072	0.486509	-0.17496	0.336991	0.682958	0.999696	0.125171	0.988993
RAP2A	0.002369	0.23991	-0.29885	0.205746	0.986172	0.077695	0.025262	0.128195	0.276226	0.278955	-0.09709	0.058953	0.968432	0.969765	0.262895	0.651426
RAP2B	0.028781	0.157503	-0.09713	0.38871	0.83323	0.25079	0.476395	0.00307	0.034397	0.532087	-0.17104	0.321769	0.589765	0.999929	0.130635	0.985395
RAPSN	-0.1289	-0.16664	0.227956	-0.17678	0.339272	0.21964	0.088113	0.18834	-0.02388	-0.33597	0.177474	-0.34723	0.437414	0.011222	0.878257	0.009032
RARA	-0.07175	-0.30127	0.133565	-0.13517	0.595841	0.024048	0.32193	0.316108	-0.12066	-0.27165	0.118078	-0.15998	0.212224	0.033909	0.780093	0.144103
RARB	0.096071	0.192554	-0.15362	-0.00551	0.477148	0.155089	0.253926	0.967555	-0.13627	0.48569	-0.07673	0.33008	0.186047	0.99964	0.310278	0.9866
RARG	0.096912	0.058676	0.009982	-0.03639	0.477371	0.670453	0.941793	0.790051	-0.0033	0.46429	-0.17282	0.264295	0.491328	0.999424	0.128128	0.962044
RARS	0.031966	0.296017	-0.3087	0.225969	0.813392	0.026751	0.019471	0.090995	-0.06501	0.536751	-0.24744	0.457716	0.333863	0.99994	0.050635	0.999309
RARRES1	0.064433	-0.36807	0.343223	0.443447	0.633949	0.005255	0.008954	0.000551	0.090423	-0.12943	0.194396	0.180746	0.724956	0.195635	0.899657	0.885332
RARRES2	0.269945	-0.17522	0.293995	0.243689	0.044215	0.2007	0.027858	0.070317	0.208573	-0.32853	0.249824	-0.07293	0.917892	0.012901	0.951045	0.315029
RARRES3	-0.29929	-0.09918	0.027828	0.322588	0.025041	0.471259	0.838676	0.015317	-0.26689	0.353053	-0.07787	0.375047	0.036488	0.991951	0.305583	0.994888
RASA1	-0.03042	0.325499	-0.25804	0.11122	0.822244	0.014368	0.052627	0.41014	0.122217	0.396456	-0.07349	0.316756	0.790783	0.996811	0.31569	0.984015
RASA2	0.021338	0.258786	-0.18243	0.214755	0.874815	0.054124	0.174391	0.108665	0.136399	0.318425	-0.03863	0.13535	0.816971	0.984486	0.400538	0.815103
RASGRF1	-0.02067	-0.26113	0.270707	-0.06214	0.878712	0.051904	0.041678	0.646084	0.001052	-0.33753	0.186404	-0.4166	0.502767	0.010894	0.889906	0.001988
RASGRF2	0.257511	-0.16819	0.220329	0.348848	0.053133	0.215316	0.099579	0.007826	0.297761	-0.30674	0.292822	-0.03587	0.977772	0.019067	0.974534	0.406467
RB1	0.002274	0.320738	-0.24999	0.137461	0.986604	0.015948	0.060729	0.307886	-0.01246	0.44988	-0.12106	0.362525	0.467259	0.999146	0.214132	0.993356
ARID4A	-0.00281	0.172282	-0.16608	0.186851	0.983469	0.204199	0.216936	0.164004	0.202806	0.047361	0.055554	0.025845	0.911771	0.622689	0.641497	0.567689
HIVEP3	-0.10152	0.040627	0.053366	0.159705	0.456579	0.768377	0.696074	0.239703	-0.00343	0.20872	-0.08146	0.185354	0.490986	0.918044	0.297378	0.891259
JARID1A	0.036907	0.108424	-0.17166	0.202275	0.785192	0.426369	0.201683	0.131311	0.032032	0.260186	-0.0401	0.131733	0.583684	0.959623	0.396836	0.808582
C21orf63	-0.15517	0.031065	-0.07547	0.157289	0.249093	0.820204	0.576884	0.242611	-0.05052	0.316395	-0.11718	0.151996	0.369411	0.983912	0.221654	0.843367
ACE2	-0.13151	0.291862	-0.17544	-0.17885	0.329487	0.029065	0.191782	0.183157	-0.29472	0.459695	-0.08723	0.150445	0.023389	0.999345	0.284422	0.840856
MESDC1	0.046103	-0.00111	0.173333	-0.0696	0.733448	0.993514	0.197248	0.606937	0.116172	-0.0672	0.121203	-0.20906	0.779006	0.328609	0.786143	0.081608
NTN4	0.211953	0.005148	0.091515	0.193648	0.113466	0.969963	0.49838	0.14893	0.167862	0.028292	0.146262	0.057478	0.867596	0.574029	0.831148	0.647813
RBBP4	0.032769	0.225747	-0.25808	0.214801	0.808794	0.094345	0.052586	0.108588	-0.01681	0.535597	-0.22097	0.446876	0.455853	0.999937	0.072324	0.999075
CACNG8	-0.0729	-0.09062	0.198492	-0.15347	0.593379	0.506551	0.142508	0.258794	0.21939	-0.3613	0.218075	-0.28556	0.928531	0.006813	0.924941	0.027194
CACNG7	0.108767	-0.20327	0.230662	-0.17412	0.420605	0.132949	0.084304	0.195183	0.149909	-0.4429	0.193879	-0.36118	0.839982	0.001027	0.899045	0.00683
CACNG6	-0.14537	-0.30517	0.063734	-0.40452	0.280614	0.022192	0.63764	0.001803	-0.24004	-0.40606	-0.01864	-0.2462	0.054047	0.002555	0.451625	0.049536
UBL5	-0.11958	-0.31392	0.07845	-0.15515	0.375626	0.01847	0.561877	0.249172	-0.20597	-0.3142	-0.04665	-0.06699	0.084829	0.016728	0.380449	0.329117
RBBP5	0.009832	0.13868	-0.26985	0.212613	0.942134	0.308053	0.042354	0.112321	0.067566	0.439972	-0.28316	0.14363	0.672257	0.998892	0.029726	0.829524
BCKDHA	0.062055	0.193015	-0.16316	-0.09559	0.649583	0.157987	0.229544	0.483429	-0.02233	0.534276	-0.05825	0.251426	0.441437	0.999934	0.351948	0.954056
RBBP6	-0.00361	0.195848	-0.13719	0.07726	0.978735	0.148012	0.308854	0.567841	0.110616	0.227136	0.085946	0.147871	0.767866	0.935497	0.712723	0.836633
SIGIRR	-0.24628	-0.1493	0.001974	-0.07471	0.064788	0.272116	0.988371	0.580726	-0.28341	-0.06051	0.040847	-0.11299	0.031143	0.348203	0.602593	0.232615
RBBP7	0.17032	0.225771	-0.2736	0.276213	0.20527	0.09431	0.039461	0.037543	-0.01428	0.557743	-0.19651	0.428807	0.462482	0.999972	0.097872	0.998527
RBBP8	0.051164	0.250987	-0.1917	0.157362	0.705455	0.062063	0.153147	0.24239	0.013846	0.465026	-0.23123	0.417277	0.536385	0.999435	0.063218	0.998044
RBL1	0.018081	0.165122	-0.34145	0.354355	0.893801	0.223925	0.009338	0.006842	0.027517	0.459329	-0.04047	0.339926	0.572024	0.999339	0.395913	0.989593
PRDM12	-0.01225	-0.08107	0.185935	-0.21545	0.927952	0.552539	0.166118	0.107493	0.077979	-0.44134	0.168896	-0.48324	0.694679	0.001204	0.863455	0.000386
PRDM13	0.048085	-0.1497	0.245437	-0.16836	0.722442	0.270822	0.065737	0.21061	0.125138	-0.48916	0.137347	-0.43996	0.793623	0.000325	0.813013	0.001246
PLEKHA1	0.179576	0.256698	-0.12836	0.287835	0.181344	0.056164	0.341331	0.029921	0.081008	0.530399	-0.08799	0.382701	0.703738	0.999925	0.282716	0.995667
PLEKHA2	-0.01247	0.254139	-0.13812	0.582449	0.92662	0.058748	0.305561	2.00E-06	-0.00914	0.509766	-0.0975	0.449047	0.475952	0.999852	0.262012	0.999127
RBL2	-0.00734	0.130967	-0.12447	0.048903	0.956788	0.335993	0.35626	0.717917	0.156088	0.044935	0.022957	0.057383	0.849869	0.616586	0.559494	0.647578
HRH4	0.149959	-0.25441	0.09429	-0.20686	0.26554	0.058465	0.485388	0.122603	0.103053	-0.49474	0.06872	-0.42306	0.749732	0.000275	0.671204	0.001893
TRPV4	-0.08982	-0.17137	0.122463	-0.29977	0.506386	0.206639	0.364136	0.023484	-0.07918	-0.10767	-0.04434	-0.1451	0.302568	0.240715	0.387518	0.170797
SCPEP1	-0.03002	0.00406	0.040536	0.030255	0.824547	0.976311	0.764648	0.823214	-0.32395	0.217663	-0.14581	0.185646	0.014036	0.926905	0.169606	0.891628
SENP2	-0.04341	0.169589	-0.25145	0.095311	0.748504	0.211469	0.059192	0.480654	-0.08868	0.357124	-0.22627	0.188643	0.278915	0.992583	0.067512	0.895359
ALOXE3	-0.024	-0.10475	0.141888	-0.23543	0.859365	0.442295	0.292417	0.07791	-0.0574	-0.41478	0.206038	-0.34626	0.352383	0.002078	0.912748	0.009205
GNB4	0.09315	-0.22063	0.060637	0.318944	0.490705	0.102259	0.654101	0.0156	0.167664	-0.29254	0.263712	0.027723	0.86731	0.024253	0.959974	0.572558
FKSG2	0.058443	-0.12657	0.056894	-0.18498	0.668758	0.357132	0.677048	0.172291	-0.06111	-0.11297	-0.04939	-0.07779	0.343312	0.227374	0.373657	0.303686
ZNF350	0.016996	0.053148	-0.04014	0.079934	0.900143	0.697258	0.766906	0.554476	0.103364	0.015702	0.135658	0.057035	0.752883	0.541246	0.812872	0.646725
KLHL12	-0.07277	0.310694	-0.19805	0.068084	0.590627	0.019775	0.13973	0.614812	-0.07306	0.409584	-0.10588	0.261724	0.31472	0.997648	0.244396	0.960542

RBM3	-0.06317	0.223674	-0.28825	0.472451	0.643714	0.100677	0.031212	0.000236	0.068272	0.550082	-0.2663	0.428983	0.673942	0.999963	0.038515	0.998534
RXFP1	0.081575	-0.10263	0.110397	0.001661	0.550054	0.455887	0.417952	0.990309	-0.07066	-0.21725	-0.04234	-0.095	0.322303	0.07585	0.39246	0.267378
PBOV1	0.06365	-0.15543	0.105745	-0.28807	0.638087	0.252689	0.433705	0.02978	0.061637	-0.11754	0.002979	-0.205	0.657969	0.218287	0.507747	0.085861
LGR6	0.291132	-0.02706	0.050467	0.067113	0.028011	0.843066	0.709289	0.619878	0.305897	-0.1028	0.024525	-0.12396	0.980654	0.248306	0.563524	0.205885
TMEM35	0.053996	-0.21001	0.120455	-0.16772	0.689953	0.120296	0.372112	0.212368	0.162777	-0.45931	0.27087	-0.29322	0.860119	0.000662	0.964048	0.02398
RBM4	-0.14786	0.091239	-0.13097	0.199163	0.272365	0.503644	0.331523	0.137475	-0.18323	0.251598	-0.34354	0.276607	0.114138	0.952264	0.011211	0.967071
RBMS1	0.139391	-0.12784	0.197435	0.007041	0.301077	0.347759	0.140991	0.958543	0.379763	-0.39604	0.273552	-0.2811	0.995381	0.00322	0.965488	0.029219
RBMS2	0.040036	-0.0984	0.074044	0.233941	0.769551	0.474779	0.58758	0.082681	0.402746	-0.0688	0.147423	0.140089	0.99724	0.324797	0.833079	0.823445
BCKDHB	0.264414	0.018529	0.031842	0.131366	0.048923	0.89319	0.815783	0.334508	0.298443	-0.02897	-0.0338	-0.00153	0.978027	0.424209	0.412785	0.495972
RBP1	0.143773	0.145681	0.057596	0.101	0.285984	0.284027	0.670431	0.454728	-0.24757	0.349894	-0.1178	0.369682	0.048575	0.99143	0.220454	0.994274
RBP2	-0.05212	-0.25339	0.269591	-0.21206	0.705506	0.064489	0.046543	0.120112	0.110291	-0.45017	0.183289	-0.33649	0.767205	0.000847	0.885933	0.011112
SNORD101	-0.01034	0.299334	-0.11148	0.245053	0.939157	0.025016	0.409032	0.066174	0.02968	0.380823	-0.10324	0.311064	0.577617	0.995486	0.249882	0.982319
SNORA33	-0.01514	0.204053	-0.14236	0.374259	0.910974	0.131434	0.290794	0.00413	-0.00202	0.441505	-0.2481	0.282442	0.494692	0.998935	0.05016	0.971403
CPLX3	0.032548	-0.25127	0.317384	-0.17862	0.810059	0.061762	0.016143	0.183709	0.116233	-0.33098	0.228785	-0.28758	0.779126	0.012327	0.934692	0.026316
RBP3	0.151343	0.015976	0.269583	-0.26863	0.261102	0.90697	0.042567	0.043333	0.063114	-0.39498	0.292542	-0.25572	0.661549	0.003298	0.974418	0.043146
CCND1	0.143374	-0.01112	-0.07139	0.066391	0.287338	0.935178	0.597675	0.623652	-0.0305	0.442995	-0.21892	0.26853	0.420262	0.998976	0.074256	0.964419
RBP4	0.349905	-0.15483	0.33431	-0.08023	0.008826	0.263619	0.01261	0.560402	0.501317	-0.20655	0.303425	-0.23373	0.999774	0.086701	0.97737	0.061142
RCN2	0.047789	0.2532	-0.29089	0.127753	0.72408	0.059721	0.028146	0.343621	0.029886	0.408959	-0.0976	0.395369	0.578149	0.997613	0.261799	0.996731
OPN1LW	-0.05597	0.016831	0.123657	-0.03216	0.679226	0.90201	0.359443	0.812297	-0.05611	-0.36279	0.027512	-0.20657	0.355552	0.006607	0.571187	0.0842
RCVRN	-0.00624	-0.30868	0.106289	-0.20298	0.963593	0.021849	0.435585	0.133512	0.130581	-0.32335	0.160298	-0.21123	0.806475	0.01419	0.853571	0.079393
RDH5	-0.05003	0.072415	0.250481	-0.07928	0.7117	0.595848	0.060207	0.557712	-0.08299	0.060148	-0.02632	-0.04741	0.291735	0.654344	0.431877	0.377175
BCL2	0.320258	-0.04963	0.123903	0.239967	0.016115	0.718954	0.362925	0.074852	0.150939	-0.29954	0.300726	-0.12534	0.841659	0.021569	0.977641	0.203282
PRPH2	0.139372	-0.11548	0.304275	0.083646	0.301144	0.396717	0.021381	0.536175	0.274293	-0.2438	0.279239	-0.16907	0.96746	0.051262	0.968389	0.130668
RDX	0.256803	0.096229	-0.10431	0.186624	0.053812	0.480491	0.440017	0.164526	0.216157	0.253949	-0.07535	0.277995	0.925465	0.955717	0.311389	0.969301
RECQL	0.009732	0.109669	-0.20898	0.348583	0.942721	0.421044	0.118742	0.007876	-0.05433	0.364817	-0.06904	0.408616	0.359937	0.993663	0.326125	0.997594
REL	-0.10737	0.338943	-0.34886	0.175398	0.42662	0.010608	0.007822	0.191881	-0.01774	0.579394	-0.1659	0.320689	0.453435	0.999988	0.13804	0.985107
REG1A	0.281509	0.018024	0.288418	-0.19273	0.033891	0.895107	0.029575	0.150907	0.160627	-0.22118	0.34424	-0.18897	0.856876	0.069809	0.989708	0.104238
REG1B	0.224088	-0.18254	0.188501	-0.16134	0.093791	0.178121	0.160245	0.230548	0.04509	-0.34149	-0.01357	-0.35132	0.616978	0.010099	0.464745	0.008331
REG1P	0.025073	-0.06442	0.087978	-0.41925	0.854463	0.640313	0.519078	0.001299	0.08144	-0.3504	-0.01602	-0.35049	0.704729	0.008485	0.458402	0.008469
BCL2A1	-0.08061	-0.31315	0.018861	0.282232	0.551129	0.018773	0.889249	0.033416	-0.2078	-0.31214	0.036124	-0.06096	0.082906	0.01735	0.593123	0.343672
RELA	0.066243	0.112779	0.052486	0.122653	0.62443	0.407914	0.698202	0.363387	0.193589	0.357451	0.058468	0.126237	0.901315	0.992632	0.648586	0.798414
RELB	-0.05437	-0.02586	0.087848	0.200179	0.690643	0.851326	0.519698	0.139077	-0.05514	0.264524	-0.08423	0.215202	0.357954	0.962175	0.291114	0.92454
REN	0.100819	-0.29659	0.171222	-0.17328	0.455543	0.026443	0.202845	0.197394	0.171662	-0.46869	0.334497	-0.27227	0.873007	0.000509	0.987643	0.033584
RENBP	0.039718	-0.32878	0.23142	0.149628	0.769262	0.013358	0.083261	0.266608	0.107213	-0.47378	0.187892	-0.31126	0.760897	0.000441	0.891769	0.01762
UPF1	-0.10019	0.121572	-0.16632	0.005937	0.458377	0.372092	0.216284	0.965039	-0.21947	0.510134	-0.14393	0.250173	0.071398	0.999854	0.172765	0.953214
DPF2	0.067694	0.094915	-0.10055	0.139656	0.616844	0.486533	0.456773	0.300153	-0.06858	0.281178	-0.09104	0.319371	0.325326	0.970817	0.275994	0.984748
REST	-0.02099	0.0809	-0.26359	-0.02974	0.87684	0.553368	0.047571	0.826193	-0.02184	0.229891	-0.06683	0.193852	0.442713	0.937847	0.331364	0.901626
RET	-0.17612	-0.13792	-0.02175	-0.35818	0.194139	0.315319	0.873609	0.006719	-0.17705	-0.24467	0.104395	-0.21459	0.119578	0.05063	0.752527	0.076051
BCL2L1	-0.35522	-0.21295	-0.07721	-0.07998	0.00722	0.118534	0.571668	0.557901	-0.26115	-0.19065	-0.1476	-0.15614	0.04157	0.104829	0.16951	0.152863
REV3L	0.005907	0.0671	-0.08123	0.067067	0.965215	0.623171	0.548049	0.620117	0.17944	-0.06396	0.065693	0.057534	0.883612	0.336414	0.665946	0.64795
RFC1	0.123848	0.179363	-0.18276	0.170255	0.358693	0.185932	0.173588	0.205445	0.12319	0.335251	-0.00924	0.217651	0.792646	0.988624	0.475987	0.926893
RFC2	-0.19596	0.260679	-0.27412	0.250964	0.147785	0.054578	0.040917	0.062088	-0.28007	0.725701	-0.38914	0.488008	0.029705	1	0.004121	0.99971
RFC3	0.096043	0.128697	-0.23531	0.263615	0.477279	0.344505	0.078064	0.047551	-0.14189	0.55046	-0.25528	0.419843	0.173442	0.999963	0.045281	0.998162
RFC4	0.03269	0.072377	-0.06103	0.201334	0.810968	0.599495	0.655028	0.136764	-0.32795	0.513495	-0.35204	0.411449	0.013041	0.999869	0.008856	0.99775
RFC5	-0.02121	0.35175	-0.24282	-0.05571	0.875561	0.007851	0.068766	0.680655	-0.31182	0.514114	-0.26327	0.354962	0.017448	0.999871	0.040291	0.992253
RFNG	-0.00756	-0.05615	0.282654	-0.00693	0.955493	0.681051	0.033142	0.959201	0.066509	-0.13029	0.072284	-0.15112	0.669727	0.194062	0.681489	0.158052
TRIM27	-0.05013	0.149165	0.047069	0.438785	0.713677	0.277071	0.730489	0.000717	0.16843	0.386909	-0.06267	0.318252	0.868414	0.996049	0.341286	0.984438
RFPL1	0.023409	-0.10701	0.086862	-0.14109	0.864029	0.436812	0.524411	0.299637	-0.09472	-0.25311	0.010939	-0.25743	0.265606	0.044827	0.528427	0.042068
RFX1	0.050488	-0.02269	0.221393	-0.38697	0.711731	0.869386	0.101046	0.003217	0.069557	-0.23007	0.275023	-0.35845	0.675093	0.064207	0.964603	0.007807
BCL2L2	0.116163	0.127989	0.136132	-0.09553	0.389514	0.34719	0.312632	0.47963	0.245615	0.016038	0.08361	-0.1732	0.950047	0.542124	0.707483	0.124849

RFX2	-0.22189	-0.14101	0.029603	-0.31519	0.097136	0.299929	0.826969	0.016935	-0.28238	-0.2659	-0.0053	-0.22594	0.028626	0.037044	0.486227	0.06554
RFX3	-0.07488	-0.10285	0.001181	-0.11861	0.579846	0.450684	0.993046	0.379544	-0.21961	-0.15764	0.038307	-0.06462	0.071261	0.147714	0.598642	0.334818
RFX4	0.103	-0.17121	0.26593	-0.15955	0.4458	0.20708	0.045564	0.235829	0.04321	-0.43392	0.156922	-0.34728	0.612228	0.001294	0.848363	0.009023
RFX5	-0.10179	0.048853	-0.12809	0.489761	0.451202	0.720677	0.342342	0.00011	-0.06965	0.533462	-0.11985	0.43741	0.322779	0.999933	0.216459	0.998816
RFXAP	-0.05647	0.171216	-0.06105	0.185534	0.676498	0.207053	0.651899	0.167049	0.002424	0.140254	-0.02319	0.216992	0.506304	0.820934	0.440608	0.923898
RGR	0.017016	-0.06971	0.209151	-0.19688	0.900942	0.613057	0.121862	0.14585	0.107273	-0.23721	0.233145	-0.20843	0.761021	0.056224	0.938378	0.082252
RGS1	0.085204	-0.18306	-0.06997	0.314421	0.528583	0.176879	0.605036	0.017219	-0.23858	0.17285	0.055444	0.302204	0.057251	0.871908	0.639627	0.978186
RGS2	0.195768	-0.26511	-0.00894	0.153231	0.144446	0.048306	0.947348	0.255132	0.136787	-0.27407	0.145419	-0.19861	0.814873	0.034242	0.826865	0.095455
RGS3	-0.13238	-0.2209	0.186448	-0.21818	0.326291	0.101828	0.16493	0.103003	-0.11417	-0.3608	0.208307	-0.22657	0.224977	0.006883	0.915149	0.064998
RGS4	0.198011	0.014525	0.095655	-0.22317	0.139811	0.915384	0.479066	0.095175	0.036413	-0.13805	0.285588	-0.07338	0.593854	0.182899	0.96989	0.315951
ACTB	0.243859	0.097005	-0.07682	0.206537	0.070115	0.481092	0.573635	0.126701	0.263196	0.186685	0.25223	0.178949	0.959667	0.890259	0.950709	0.880236
RGS7	0.068488	-0.18084	0.22042	-0.34742	0.612708	0.182272	0.099435	0.008099	0.146016	-0.31277	0.161729	-0.31068	0.833546	0.017157	0.855743	0.017801
RGS10	-0.08976	-0.15404	-0.11981	0.183724	0.506699	0.256997	0.374695	0.171301	-0.12986	0.025789	-0.09207	0.04184	0.197598	0.566771	0.276115	0.607533
RGS12	-0.07732	0.214619	-0.1531	-0.22627	0.567538	0.112194	0.255539	0.090549	-0.33314	0.36451	-0.24691	0.146476	0.011839	0.993622	0.051013	0.834316
RGS13	0.166486	-0.1975	0.030114	0.182775	0.220069	0.148367	0.825624	0.177561	-0.21514	0.111049	0.112876	0.317771	0.077913	0.766149	0.767157	0.983297
RGS16	0.157002	-0.22421	0.300274	0.150666	0.243481	0.096677	0.023241	0.263268	0.199927	-0.17469	0.280347	-0.13333	0.908595	0.122793	0.968931	0.188525
RHAG	0.077081	0.037307	0.145054	-0.12756	0.568742	0.784872	0.281668	0.34435	0.131793	-0.27188	0.099179	-0.31412	0.808691	0.033785	0.74157	0.016754
RHCE	-0.20044	0.047327	-0.02065	-0.39093	0.134919	0.729067	0.878803	0.002641	-0.24146	-0.25737	-0.1448	-0.29707	0.052982	0.042109	0.171295	0.022487
RHD	0.081947	-0.0297	0.04259	-0.29258	0.548231	0.829545	0.755292	0.028655	0.130549	-0.32945	0.259029	-0.13377	0.806417	0.012684	0.957118	0.187726
RHEB	0.139482	0.103403	0.026151	0.119588	0.300761	0.448224	0.846882	0.375589	0.049229	0.197825	0.001276	0.19095	0.627371	0.906224	0.503319	0.898168
RHO	0.054981	-0.14251	0.277122	0.003736	0.684589	0.294765	0.036894	0.977995	0.293085	-0.38349	0.22364	-0.26157	0.975965	0.004259	0.930134	0.039547
GRK1	0.00465	-0.01497	0.183325	-0.26857	0.972614	0.91282	0.172249	0.043379	0.030118	-0.45877	0.202497	-0.38684	0.57875	0.000671	0.908904	0.003956
RLN1	0.242821	-0.06099	0.300358	-0.30741	0.071355	0.658241	0.0245	0.021183	-0.03253	-0.34619	0.048279	-0.31565	0.415039	0.009218	0.623593	0.016303
RIT2	0.056078	-0.18659	0.225192	-0.26724	0.681431	0.172567	0.09518	0.046471	0.066729	-0.14183	0.136382	-0.09516	0.670253	0.173551	0.814156	0.26465
RING1	0.181844	-0.30407	0.203619	-0.22061	0.175803	0.022705	0.128713	0.099129	0.09641	-0.13077	0.082543	-0.27818	0.73806	0.193174	0.705076	0.030608
RIT1	0.00846	0.414711	-0.33141	0.112863	0.950199	0.001484	0.011794	0.403215	-0.0732	0.468319	-0.11111	0.315816	0.314397	0.999485	0.233718	0.983745
RLBP1	0.071715	-0.15927	0.125263	-0.32639	0.596027	0.241016	0.353184	0.013217	0.284313	-0.36519	0.214687	-0.43627	0.972251	0.006288	0.921643	0.001219
RLF	0.021085	0.13673	-0.18849	0.194133	0.876289	0.314972	0.160277	0.147896	0.155688	0.279706	-0.01826	0.171978	0.849242	0.970124	0.452628	0.873449
RLN2	0.103895	-0.19035	-0.01918	-0.41621	0.441836	0.159954	0.887375	0.001281	0.163913	-0.38656	0.251308	-0.24342	0.859018	0.004358	0.95007	0.053559
BCL3	-0.15159	-0.00406	0.12239	0.202195	0.264736	0.976535	0.368859	0.135058	0.08099	-0.07665	-0.00201	-0.13886	0.703698	0.306321	0.494764	0.178699
RMRP	-0.00374	-0.18641	0.095312	0.164702	0.978167	0.172985	0.484703	0.225122	0.059192	-0.06251	-0.10223	-0.01087	0.650339	0.341654	0.254524	0.471764
AFAP1	0.422198	0.228375	0.082206	0.106992	0.00107	0.090472	0.543238	0.428269	0.030901	0.398829	0.081116	0.349174	0.58077	0.996979	0.701841	0.991307
GPBP1L1	-0.00549	0.252533	-0.19052	0.165221	0.96768	0.06042	0.155726	0.219366	-0.05886	0.463969	-0.17874	0.283044	0.348795	0.999418	0.120048	0.971678
C12orf10	-0.11277	-0.05743	0.007626	-0.22622	0.407949	0.677046	0.955514	0.093632	-0.27209	-0.01696	-0.02674	-0.00427	0.035293	0.455983	0.431599	0.488893
FAM3A	0.087732	-0.01493	0.235726	-0.12899	0.516377	0.913028	0.077524	0.33892	0.045999	-0.09729	0.04403	-0.18887	0.619266	0.260036	0.613016	0.104369
RNASE1	0.149197	-0.3794	0.171065	0.289954	0.268004	0.003929	0.203267	0.028681	0.398981	-0.44874	0.272119	-0.09018	0.996989	0.00088	0.964725	0.275577
RNASE2	-0.14135	-0.30778	0.206806	-0.1245	0.294258	0.021024	0.122709	0.356162	-0.01095	-0.48933	0.145011	-0.4061	0.471205	0.000279	0.829052	0.002553
RNASE3	-0.14685	-0.24231	0.085553	-0.30026	0.27568	0.07197	0.526891	0.023246	-0.06417	-0.42383	0.108395	-0.46466	0.335904	0.001667	0.760765	0.00057
AVPI1	0.216927	-0.03454	-0.02594	0.106397	0.105051	0.800465	0.848127	0.430861	0.341665	0.062785	-0.03918	-0.05841	0.989935	0.660754	0.399165	0.349897
RNASE4	0.013438	0.048683	0.034156	0.050664	0.92097	0.721612	0.800863	0.708202	0.098118	0.041885	0.085435	0.086649	0.741741	0.608873	0.71158	0.716537
TSKS	-0.02695	-0.10192	0.290223	-0.18769	0.843692	0.459029	0.030023	0.16599	-0.02608	-0.47657	0.07538	-0.4381	0.431707	0.000407	0.688689	0.001163
SLC25A19	-0.31688	0.019696	-0.17048	0.006154	0.016322	0.885436	0.204828	0.963765	-0.11186	-0.13094	-0.08328	-0.11594	0.229611	0.192862	0.293259	0.221446
RNASE6	-0.06096	-0.17061	-0.04221	0.476823	0.652376	0.208689	0.755232	0.000177	-0.28919	-0.05241	0.037166	0.229832	0.027004	0.366197	0.594646	0.935592
BCL6	0.026231	-0.00994	0.058074	-0.03335	0.847819	0.942017	0.670733	0.807242	-0.00456	0.05731	0.042262	-0.07828	0.488143	0.645775	0.607338	0.304622
EDA2R	0.142008	-0.23954	0.265815	-0.04936	0.292004	0.07539	0.045661	0.715386	0.078651	-0.29285	0.07793	-0.12404	0.698315	0.024129	0.694566	0.20573
RNASEL	-0.08956	0.242025	-0.30108	-0.08364	0.507625	0.072316	0.022854	0.5362	-0.1077	0.477005	-0.07761	0.230437	0.238106	0.999598	0.306164	0.938306
EXOC4	-0.01226	0.149989	-0.10657	-0.15059	0.927878	0.269874	0.430092	0.263506	-0.21206	0.212886	-0.09059	0.078667	0.078556	0.922265	0.276989	0.698353
TGIF2	-0.04852	-0.28621	0.081297	0.24503	0.720016	0.032478	0.547722	0.0662	0.130249	-0.19903	-0.01967	-0.07654	0.805867	0.092414	0.448978	0.306586
CDH26	-0.1083	0.401106	-0.20612	-0.04101	0.422606	0.002186	0.123989	0.76197	-0.23698	0.407919	-0.07563	0.309763	0.056404	0.997554	0.310724	0.981911
SNORA62	-0.04424	-0.23476	0.290455	-0.04369	0.743854	0.081584	0.028395	0.746926	0.005728	-0.28908	-0.0309	-0.3773	0.514895	0.027052	0.421089	0.00531

RNF2	-0.17173	0.141212	-0.29717	0.086793	0.20149	0.299218	0.024776	0.520895	-0.28814	0.253882	-0.01413	0.128152	0.026075	0.955673	0.463297	0.801992
BRD2	-0.06252	0.30635	-0.07712	0.270282	0.644087	0.021657	0.568559	0.042012	0.037117	0.640288	-0.20031	0.434613	0.596732	0.999999	0.093529	0.998728
BACH2	0.010202	0.059824	0.108131	0.091773	0.939961	0.661405	0.42334	0.497167	0.393912	-0.33572	0.100024	-0.34011	0.996622	0.011275	0.743362	0.010369
RNF4	-0.20006	0.014867	-0.06643	0.314324	0.135685	0.913403	0.623443	0.017255	-0.06122	0.098457	-0.29936	0.10444	0.343038	0.742468	0.022873	0.755136
RNF5	-0.01018	-0.2103	0.072083	-0.22195	0.940068	0.119774	0.594137	0.097056	-0.02497	-0.14247	0.034597	-0.20985	0.434594	0.172456	0.589251	0.080793
ELOVL5	-0.09973	0.212726	-0.15865	0.214194	0.460465	0.115472	0.238517	0.109614	-0.21489	0.334252	-0.08279	0.355234	0.075764	0.988407	0.294372	0.992295
SLC5A7	0.142281	0.027767	-0.06786	-0.06607	0.295538	0.840517	0.619234	0.628539	-0.12052	0.135672	-0.13479	0.162397	0.215179	0.812898	0.191511	0.85675
HAPLN2	-0.01011	-0.105	0.245406	-0.22043	0.940513	0.441185	0.065772	0.099426	0.12581	-0.42838	0.139881	-0.36512	0.797612	0.001489	0.820287	0.006298
SAV1	0.215999	0.017292	0.036028	0.009876	0.106583	0.899342	0.790186	0.941874	0.398189	-0.13151	0.30452	0.001677	0.996934	0.191824	0.979018	0.504414
TRMT11	0.037307	0.13473	-0.11325	0.20637	0.782919	0.322167	0.401595	0.123519	0.179213	0.312146	-0.11074	0.272043	0.883312	0.982652	0.234472	0.966298
MRPS35	-0.11796	0.114953	-0.34188	0.065699	0.386571	0.403321	0.009911	0.63046	-0.29264	0.538539	-0.31828	0.302028	0.024214	0.999943	0.016555	0.979325
APOBEC3G	-0.23186	-0.03766	-0.11139	0.41739	0.082659	0.782863	0.409401	0.001237	-0.42097	0.275878	-0.00706	0.403134	0.001788	0.968259	0.48164	0.997264
RNF6	-0.07416	0.125998	-0.30214	-0.04809	0.583524	0.354806	0.022356	0.722402	-0.27021	0.261118	-0.17596	0.194775	0.034673	0.960182	0.123793	0.902708
PPCDC	0.065034	-0.16048	0.217557	-0.03172	0.63078	0.237394	0.104021	0.814792	-0.24424	-0.07027	-0.20041	-0.23815	0.050939	0.32131	0.093412	0.055491
NIF3L1	0.007344	0.152246	-0.19279	0.129006	0.95676	0.262648	0.150765	0.338869	-0.14474	0.620567	-0.29265	0.332433	0.168596	0.999998	0.025535	0.988004
CCDC90B	0.024302	0.324128	-0.23172	0.330377	0.857594	0.014808	0.082857	0.012075	0.081082	0.585149	-0.11676	0.386376	0.703908	0.99999	0.222478	0.996003
FASTKD5	-0.11089	0.427957	-0.29946	0.180782	0.411545	0.001001	0.023639	0.178381	0.075204	0.393948	-0.30194	0.286986	0.68828	0.996292	0.023188	0.972024
CCDC81	-0.07396	-0.27121	0.063982	-0.27418	0.584549	0.043194	0.636328	0.03903	-0.15259	-0.35589	0.141145	-0.2967	0.15568	0.007603	0.822471	0.022627
HPSE2	0.372583	-0.20649	0.225767	0.221869	0.004686	0.130392	0.094316	0.100295	0.182594	-0.33406	0.145902	-0.0076	0.887736	0.011636	0.830547	0.480008
AASDHPPT	0.065444	0.095804	-0.23693	0.162174	0.628626	0.482442	0.075973	0.228104	-0.08529	0.400333	-0.11993	0.290738	0.286514	0.997082	0.216313	0.975013
BCL7A	-0.19032	-0.08234	-0.08252	-0.31382	0.156182	0.546293	0.541682	0.017445	-0.18555	-0.23982	0.006898	-0.2112	0.108492	0.054216	0.517935	0.079424
RNH1	-0.04712	0.026781	-0.08914	0.143592	0.727799	0.84467	0.509664	0.286598	-0.2179	0.453721	-0.24143	0.282144	0.072872	0.99923	0.055054	0.971266
NYX	-0.02081	-0.17495	0.312156	-0.17169	0.877914	0.19716	0.018083	0.201591	0.076618	-0.30558	0.232502	-0.20084	0.693603	0.019452	0.937845	0.090394
AGBL5	-0.23445	-0.15704	-0.01625	-0.42618	0.079194	0.247734	0.90451	0.000948	-0.42315	-0.18643	-0.04088	-0.13432	0.001695	0.107381	0.394868	0.186735
RNPEP	-0.23438	0.287832	-0.22983	-0.1949	0.082094	0.033096	0.088384	0.150034	-0.30974	0.396346	-0.28878	0.200724	0.018095	0.996803	0.027183	0.909482
C2orf43	-0.0269	0.245178	-0.19193	0.05544	0.842555	0.068566	0.152629	0.682095	-0.21375	0.454508	-0.16188	0.366527	0.076882	0.999246	0.144022	0.993884
ELAC2	0.013805	0.10563	-0.03805	0.27868	0.919564	0.442767	0.780716	0.037543	-0.16491	0.607965	-0.3569	0.39849	0.136713	0.999996	0.00805	0.996955
ALX4	-0.02058	-0.16284	0.178476	-0.20398	0.879208	0.230485	0.184077	0.128027	0.2274	-0.51159	0.327804	-0.24874	0.935725	0.00014	0.986034	0.047765
GUF1	-0.14464	0.331381	-0.20022	0.110731	0.283043	0.012602	0.135352	0.412211	-0.15269	0.451426	-0.22947	0.336505	0.155526	0.999181	0.064718	0.988891
SPCS3	0.076829	0.291139	-0.14764	0.43372	0.57001	0.029485	0.273071	0.000751	0.038302	0.51057	-0.09746	0.426978	0.599759	0.999856	0.262094	0.998458
MAK10	-0.12035	0.192998	-0.221	0.03779	0.372521	0.154119	0.098533	0.780178	-0.01186	0.245806	-0.13003	0.188094	0.46882	0.950183	0.197293	0.894682
RINT1	0.03105	0.231918	-0.21011	0.172464	0.820292	0.088426	0.12013	0.203713	-0.08357	0.41274	-0.30702	0.283475	0.290414	0.997818	0.020111	0.971874
ABCE1	-0.02203	0.3542	-0.31621	0.229325	0.870772	0.007401	0.016563	0.08617	0.000404	0.43217	-0.15104	0.30752	0.501063	0.998647	0.160994	0.98119
SCOC	-0.03661	0.182129	-0.25029	0.07558	0.786899	0.179124	0.060408	0.576316	-0.07622	0.320556	-0.16076	0.214687	0.307313	0.985071	0.145721	0.924038
KCNK15	0.0297	-0.163	0.386007	-0.14672	0.826408	0.23003	0.003021	0.276117	0.208194	-0.39552	0.286105	-0.30968	0.9175	0.003258	0.971628	0.018116
DHX35	-0.04468	0.455157	-0.24752	-0.14153	0.741366	0.000424	0.063403	0.29364	-0.06461	0.472445	-0.25058	0.252407	0.334841	0.999542	0.048433	0.954708
RIC8A	-0.16465	0.025621	-0.22326	0.072911	0.220981	0.851318	0.095044	0.589892	-0.2703	0.489636	-0.32723	0.378952	0.034623	0.999723	0.014113	0.995299
KLKP1	-0.00887	-0.02744	-0.01125	-0.29181	0.947766	0.840898	0.933796	0.027629	0.206064	-0.1168	0.068975	-0.16036	0.915268	0.219753	0.673722	0.143535
CYB5RL	-0.06393	0.050058	0.20361	-0.31405	0.63658	0.71408	0.128731	0.017357	0.076608	-0.05907	-0.11411	-0.17999	0.69358	0.348296	0.227714	0.115658
SNORD68	0.008111	-0.21509	0.198548	0.010116	0.952251	0.111386	0.138718	0.940469	0.047778	-0.37338	-0.03885	-0.13012	0.623735	0.005296	0.399985	0.19438
UBE2MP1	0.033328	-0.18891	-0.06937	-0.12677	0.805592	0.163212	0.608114	0.347376	-0.09491	0.050708	-0.05872	-0.13936	0.2652	0.631064	0.350804	0.177817
C8orf49	-0.0251	-0.15719	0.12072	-0.23997	0.8543	0.251761	0.375479	0.074845	0.093545	-0.46502	0.287873	-0.45217	0.731829	0.000565	0.972418	0.000803
RP5-1077B	0.124962	-0.19641	0.231372	-0.14912	0.354355	0.146827	0.083326	0.268244	0.257228	-0.37837	0.322428	-0.30938	0.957805	0.00476	0.984618	0.018211
C12orf44	-0.0172	-0.0292	0.016769	-0.01013	0.898954	0.830809	0.901467	0.940386	-0.03557	0.104313	-0.01814	-0.12659	0.407226	0.754872	0.452926	0.200932
PROK2	-0.14378	-0.36082	0.122825	-0.17996	0.285976	0.006297	0.362707	0.180402	-0.05723	-0.45284	0.087142	-0.36756	0.35441	0.000893	0.713101	0.006497
PAPPA2	0.11852	-0.21071	0.258621	-0.31264	0.384304	0.122557	0.054282	0.018978	0.126813	-0.37635	0.324937	-0.33642	0.79676	0.005417	0.984306	0.011924
BRUNOL6	-0.12575	-0.19791	0.279017	-0.22239	0.351301	0.143702	0.035571	0.096369	-0.05535	-0.30794	0.109298	-0.27833	0.357423	0.018674	0.762605	0.030538
EEFSEC	0.084068	0.081375	0.082117	0.241054	0.534112	0.551035	0.543675	0.070866	-0.12528	0.300909	0.03124	0.265824	0.203391	0.978926	0.580712	0.962915
BRUNOL5	0.017555	-0.12284	0.242818	-0.23135	0.896875	0.367105	0.068764	0.083357	0.142174	-0.45443	0.302693	-0.36609	0.82704	0.000756	0.978364	0.006172
FKBP10	0.404046	-0.36082	0.382491	0.092062	0.001827	0.006296	0.003321	0.495808	0.241636	-0.08908	0.250901	0.21317	0.945104	0.28031	0.949785	0.920133

SMAP1	-0.0568	0.315126	-0.22633	0.070153	0.677561	0.019108	0.093468	0.607412	-0.09093	0.482631	-0.08825	0.273134	0.273931	0.999659	0.282154	0.966865
C4orf41	0.039395	0.263556	-0.18545	0.119686	0.771089	0.049688	0.16725	0.375195	0.059503	0.436709	-0.05011	0.315126	0.65277	0.998795	0.371867	0.983544
ZFAND3	0.159423	0.032214	0.058747	-0.24457	0.236196	0.813673	0.664232	0.066721	-0.22349	-0.06552	0.032407	-0.11826	0.067716	0.332648	0.583686	0.216887
C14orf93	-0.10654	-0.07435	-0.08646	-0.22515	0.430219	0.586047	0.52248	0.092209	-0.44044	0.262832	-0.03898	0.2298	0.001095	0.961195	0.399661	0.937771
BCL9	0.173006	-0.15994	0.262143	-0.43684	0.19811	0.238999	0.048851	0.00068	-0.00592	-0.42328	0.149216	-0.24009	0.48443	0.00169	0.836037	0.05401
SNORD15A	0.202795	-0.06088	0.054562	0.284555	0.130301	0.655786	0.68687	0.031928	0.011914	0.278809	-0.15209	0.172177	0.531317	0.969695	0.159292	0.873728
TNFRSF17	-0.01364	-0.10951	-0.0173	0.525006	0.920541	0.426089	0.899303	3.27E-05	-0.14411	0.167474	-0.11996	0.273172	0.172464	0.864252	0.218981	0.965287
SNORA73A	-0.0149	0.167184	0.062954	-0.01067	0.912396	0.218113	0.641771	0.937237	-0.04275	0.111817	-0.22418	0.130671	0.388933	0.770299	0.069377	0.806641
SNORD20	0.007013	0.14901	-0.11391	0.280636	0.958708	0.273048	0.398853	0.034472	-0.0173	0.314467	-0.39649	0.238427	0.455093	0.982304	0.003855	0.942631
SNORD21	0.020567	0.195272	-0.02348	0.266929	0.879302	0.149233	0.862389	0.044728	0.237576	0.142106	0.038022	-0.05207	0.944063	0.826924	0.597922	0.365558
RNY5	0.115037	-0.23607	0.212516	0.072477	0.394158	0.079848	0.112489	0.592116	-0.01409	-0.29368	0.031697	-0.22297	0.463408	0.025114	0.580922	0.070474
ROBO1	0.222267	0.384863	-0.15548	0.267091	0.099672	0.003403	0.252538	0.046596	-0.05763	0.727957	-0.11864	0.65144	0.351826	1	0.218815	1
ROBO2	0.239817	0.031675	-0.00191	0.302243	0.072369	0.816735	0.988724	0.02231	-0.19545	0.328406	0.039137	0.526024	0.096502	0.987068	0.600734	0.999913
ROCK1	0.124386	0.059455	-0.107	0.051718	0.356594	0.663367	0.428247	0.702409	0.264906	-0.10523	0.168208	0.01386	0.962394	0.243215	0.865314	0.536421
ROM1	0.00993	0.018448	0.087805	-0.1629	0.941557	0.892653	0.516027	0.226011	0.031637	-0.11448	0.260574	-0.23669	0.582668	0.224364	0.958078	0.056632
RORA	0.050715	0.197073	-0.1683	0.220658	0.707921	0.145444	0.210776	0.099061	0.12514	0.010381	0.013498	0.08712	0.796347	0.527295	0.535062	0.717596
RORB	-0.02118	-0.17283	0.085497	0.025321	0.875713	0.202752	0.527159	0.851686	0.033697	-0.09913	0.245928	-0.00096	0.587967	0.25609	0.948283	0.49748
RORC	0.019213	-0.22939	0.221627	-0.22845	0.887194	0.089017	0.097549	0.087412	0.06459	-0.42419	0.056033	-0.40067	0.665115	0.001652	0.642665	0.002896
ROS1	-0.01292	-0.00871	0.086412	-0.22814	0.924698	0.949661	0.52657	0.090811	0.074871	-0.46534	0.073953	-0.36987	0.68953	0.00056	0.685378	0.005704
HCN2	-0.0465	-0.18288	0.195324	-0.21859	0.731233	0.177311	0.145377	0.102349	0.031147	-0.40835	0.083249	-0.37338	0.581403	0.002421	0.706671	0.005297
RP9	0.249195	-0.1042	0.094457	0.118653	0.06158	0.444729	0.484613	0.379359	0.172523	-0.01811	0.022517	0.105569	0.874212	0.452456	0.558361	0.75749
RP1	-0.07847	-0.00914	0.038928	-0.17815	0.561787	0.946711	0.773731	0.184882	-0.1164	-0.12034	-0.15537	-0.18841	0.223188	0.215518	0.15695	0.107591
RP2	-0.085	0.090719	-0.26317	0.002676	0.529594	0.506086	0.04794	0.984236	-0.15148	0.300175	0.014953	0.155075	0.157468	0.978662	0.538831	0.848276
RPGR	-0.1314	-0.0763	-0.05017	-0.19571	0.329897	0.576218	0.710934	0.144559	-0.08067	-0.3325	0.112615	-0.19886	0.297044	0.011982	0.769298	0.092598
OPN1SW	0.143292	0.063783	0.158293	-0.16018	0.287616	0.640488	0.239578	0.233942	0.097963	-0.19952	0.150565	-0.19334	0.741407	0.091857	0.838237	0.098975
RPA1	0.077039	0.136672	-0.28734	0.112496	0.568954	0.315179	0.03022	0.404754	-0.13401	0.443966	-0.17668	0.330889	0.187305	0.999002	0.122813	0.987652
RPA2	0.028821	-0.03096	-0.22313	0.077368	0.831469	0.820823	0.095233	0.567298	-0.34555	0.436062	-0.28696	0.425261	0.009333	0.998775	0.027989	0.998391
RPA3	-0.01923	-0.02856	0.126664	-0.3387	0.888122	0.836027	0.352245	0.010668	-0.42276	-0.22965	-0.11424	-0.30873	0.001711	0.062357	0.227462	0.018417
RPE	-0.08683	0.265475	-0.2466	0.260563	0.520737	0.047989	0.064432	0.050278	0.093795	0.436381	-0.01075	0.391802	0.732375	0.998785	0.472075	0.996457
RPE65	-0.17498	-0.36096	-0.00142	-0.2614	0.192957	0.006274	0.991653	0.049516	-0.29858	-0.38201	-0.02766	-0.32101	0.021922	0.004399	0.428427	0.014809
RPL3	-0.01251	0.264954	-0.35313	0.191619	0.926433	0.048445	0.007052	0.153317	-0.11526	0.561623	-0.39944	0.403415	0.222805	0.999976	0.003281	0.997282
RPL3L	-0.00794	-0.14173	0.218802	-0.14346	0.953282	0.297416	0.102007	0.287057	0.077241	-0.27425	0.119169	-0.23121	0.695051	0.032562	0.782216	0.061049
RPL4	0.084296	0.341241	-0.30904	0.100669	0.532999	0.010059	0.019329	0.456217	0.110601	0.454435	-0.16827	0.328016	0.767835	0.999244	0.134596	0.986975
RPL5	0.114331	0.306548	-0.28691	0.212586	0.397085	0.021568	0.030475	0.112368	0.047902	0.565048	-0.26151	0.419417	0.624046	0.999979	0.041352	0.998143
RPL6	-0.06984	0.263619	-0.2852	0.085435	0.6057	0.049631	0.031524	0.52746	-0.01721	0.433614	-0.14822	0.343094	0.454816	0.998696	0.165598	0.99021
BCR	-0.07774	0.141432	-0.03453	-0.05307	0.569014	0.303016	0.800543	0.697691	-0.01611	0.292239	-0.21521	0.148877	0.458185	0.974292	0.080313	0.835479
RPL7A	0.088642	0.008877	0.272385	0.031998	0.515915	0.948713	0.042261	0.814901	0.203852	-0.21899	0.135016	-0.21713	0.912905	0.071839	0.811729	0.073601
RPL8	0.017168	0.176273	-0.20975	0.189612	0.900059	0.197971	0.120778	0.161617	-0.04352	0.603735	-0.32188	0.429039	0.386994	0.999996	0.015534	0.998536
DEFB136	0.243633	-0.09734	0.261266	-0.35636	0.067811	0.47543	0.049639	0.006512	0.067267	-0.08541	0.202806	-0.01416	0.671541	0.286242	0.909244	0.462788
DEFB137	0.129459	-0.1829	0.283996	-0.15181	0.341633	0.181365	0.033906	0.264046	0.022425	-0.35528	0.116391	-0.08863	0.558801	0.007698	0.77679	0.279028
DEFB134	-0.01729	-0.06428	0.117217	-0.2949	0.899331	0.641017	0.389593	0.027355	0.009453	-0.2762	0.1431	-0.31023	0.524571	0.033135	0.822951	0.019038
CTXN3	0.034371	-0.04369	0.115226	-0.33552	0.801441	0.751454	0.39775	0.011473	0.055074	-0.33265	0.063083	-0.2637	0.641895	0.011949	0.659711	0.038298
RPL9	0.064473	0.237553	-0.26948	0.208376	0.633739	0.077914	0.042651	0.119832	-0.06377	0.303758	-0.35824	0.37084	0.336871	0.979928	0.00784	0.994412
RPL10	0.031904	-0.0744	-0.09478	0.214753	0.815431	0.589331	0.48716	0.111964	-0.03	0.227276	-0.11743	0.16689	0.421556	0.935618	0.221166	0.866188
RPL11	0.069872	0.143578	-0.25882	0.291772	0.605528	0.291111	0.051895	0.027652	0.017073	0.468974	-0.3982	0.376567	0.544832	0.999495	0.003374	0.995052
RPL12	-0.17895	0.215217	-0.21839	0.283483	0.182893	0.111173	0.102663	0.032608	-0.07733	0.22114	-0.38555	0.231252	0.304738	0.930152	0.004454	0.938985
RPL13	-0.03469	-0.02683	-0.02571	0.199858	0.79966	0.845817	0.850809	0.139726	-0.30573	0.126587	-0.33288	0.054236	0.020556	0.79634	0.013627	0.638273
RPL15	0.159404	0.271689	-0.17145	0.131232	0.236253	0.042811	0.202223	0.33053	0.307163	0.312881	-0.14483	0.204799	0.981073	0.982876	0.171252	0.913922
RPL17	-0.00774	0.288267	-0.20665	0.13929	0.954442	0.031201	0.122996	0.301433	0.058707	0.446787	-0.27293	0.302767	0.650825	0.999073	0.034844	0.979584
RPL18	0.003727	0.306325	-0.34704	0.284606	0.978051	0.021669	0.008174	0.031896	-0.04181	0.671659	-0.34431	0.4672	0.391315	1	0.010279	0.999469

RPL19	-0.12428	-0.06769	-0.01714	0.086882	0.357026	0.620113	0.899321	0.520462	0.152938	0.003325	0.014311	-0.0377	0.842067	0.508646	0.536731	0.402886
RPL22	0.077947	0.208817	-0.19782	0.16204	0.564392	0.122473	0.140204	0.228492	0.00442	0.200826	0.088711	0.143557	0.511629	0.909595	0.718872	0.829399
MRPL23	-0.0246	-0.11761	0.133948	-0.35004	0.857207	0.392448	0.32501	0.008178	-0.26113	-0.13776	0.071931	-0.11338	0.041584	0.183419	0.678676	0.229172
RPL24	-0.03799	0.127446	-0.16159	0.15541	0.77902	0.349258	0.229818	0.248355	-0.05414	0.415806	-0.38816	0.249882	0.360403	0.997973	0.004209	0.953016
RPL26	0.075961	0.068676	-0.23353	-0.0115	0.574388	0.615014	0.080413	0.932365	-0.02031	0.068596	-0.15642	0.272856	0.446712	0.674715	0.152424	0.966721
RPL27	0.048227	0.092674	-0.12753	0.197058	0.721657	0.496929	0.344456	0.141766	-0.03403	0.361114	-0.37966	0.322918	0.411179	0.993161	0.005052	0.985697
RPL30	0.10017	0.23631	-0.30731	0.249673	0.458463	0.079529	0.020057	0.061067	0.108308	0.39115	-0.3278	0.349372	0.760588	0.996056	0.01492	0.990673
RPL27A	-0.07164	0.345527	-0.22133	0.109058	0.596394	0.009101	0.098018	0.419356	0.00491	0.312765	-0.18922	0.118087	0.512917	0.982841	0.106589	0.782775
RPL28	0.059443	0.472412	-0.34862	0.172709	0.660495	0.000237	0.007869	0.198891	-0.03372	0.6964	-0.26114	0.453958	0.411987	1	0.041577	0.999235
RPL29	0.101596	0.224029	0.076819	0.141657	0.452058	0.096947	0.57006	0.293211	0.185739	0.150538	-0.0744	0.104797	0.889066	0.838194	0.315627	0.753362
RPL31	-0.06016	0.216668	-0.12386	0.110923	0.656631	0.108727	0.358653	0.411396	0.001355	0.227654	-0.08642	0.028201	0.503567	0.935944	0.286225	0.573794
RPL32	0.105768	0.045199	-0.03204	0.203118	0.433603	0.740814	0.812952	0.129676	0.062246	0.378298	-0.24504	0.13676	0.659445	0.995233	0.052366	0.81761
RPL34	-0.1604	0.33401	-0.31681	0.324403	0.233304	0.011875	0.016348	0.01382	-0.12194	0.530918	-0.37162	0.414728	0.209756	0.999926	0.005978	0.99792
RPL35A	0.036007	0.218669	-0.38168	0.217515	0.79031	0.105421	0.003394	0.104089	-0.08859	0.463605	-0.43587	0.456721	0.27912	0.999413	0.001382	0.99929
RPL36AL	-0.1039	0.262685	-0.23176	0.289238	0.441829	0.050475	0.082793	0.029095	-0.04509	0.361142	-0.29995	0.299463	0.383018	0.993165	0.022649	0.978403
RPL37	0.081959	0.358532	-0.22888	0.235145	0.544455	0.006661	0.086802	0.07828	0.303281	0.346569	-0.09462	0.305749	0.979763	0.99085	0.268206	0.980604
RPL37A	0.081368	0.191769	-0.16587	0.056863	0.551069	0.16074	0.221794	0.677216	0.12302	0.50517	-0.35695	0.406335	0.79232	0.999829	0.008042	0.997461
RPL38	0.21201	0.074024	-0.16125	0.101229	0.113367	0.587683	0.2308	0.453704	0.082309	0.196146	-0.29188	0.233733	0.706714	0.9043	0.025857	0.941018
BCS1L	-0.116	0.145511	-0.02601	0.330875	0.39019	0.284597	0.847716	0.011938	-0.12365	0.439625	-0.29776	0.275302	0.206481	0.998882	0.023488	0.96797
RPL41	-0.13576	-0.04852	-0.28098	-0.22451	0.313956	0.722507	0.034243	0.093165	0.003366	-0.15616	0.06357	-0.17489	0.508754	0.152833	0.659078	0.125258
RPLP0	-0.11256	0.233147	-0.21205	0.155727	0.404486	0.083759	0.113302	0.247379	-0.04015	0.484681	-0.43564	0.310154	0.395522	0.999679	0.00139	0.982035
RPLP1	-0.05042	0.154232	-0.15937	0.23466	0.70954	0.256401	0.23637	0.078914	-0.03802	0.554513	-0.21261	0.378814	0.402094	0.999961	0.082935	0.994857
RPLP2	0.203997	0.27947	-0.17562	0.226175	0.12799	0.036983	0.191306	0.090693	0.115881	0.48545	-0.37309	0.261789	0.77843	0.999687	0.005798	0.960581
MRPL12	-0.04777	0.105907	0.097555	-0.14537	0.724202	0.437248	0.470337	0.280608	-0.13124	0.189925	-0.22428	-0.00374	0.192318	0.896926	0.069284	0.490148
MRPS12	-0.16055	0.243403	-0.21717	0.123959	0.232861	0.070658	0.104651	0.358258	-0.26376	0.454701	-0.52495	0.284228	0.038262	0.99925	0.000107	0.972213
RPN1	-0.0109	0.207024	-0.04346	0.201061	0.935873	0.125789	0.748213	0.13369	-0.18035	0.519027	-0.18592	0.465522	0.115188	0.99989	0.110708	0.999443
RPN2	0.068898	0.141417	-0.08867	0.326459	0.610578	0.298508	0.511876	0.013196	-0.12395	0.508304	-0.27627	0.391597	0.205907	0.999845	0.0331	0.996441
RPS3	-0.03226	0.274457	-0.27587	0.375	0.811732	0.040657	0.037793	0.004051	-0.04889	0.647112	-0.41594	0.494736	0.373466	0.999999	0.002243	0.999763
RPS3A	0.144127	0.054559	0.217755	-0.09685	0.284787	0.689621	0.103697	0.47355	0.074176	-0.23227	0.135543	-0.19794	0.687904	0.060177	0.812668	0.093645
RPS4X	0.105731	0.320207	-0.24567	0.118793	0.433768	0.016133	0.06547	0.378795	0.039028	0.517294	-0.31234	0.339006	0.60161	0.999884	0.01836	0.989408
SERINC4	0.146863	-0.34707	0.198764	-0.40126	0.280097	0.00943	0.14195	0.002177	-0.0668	-0.3549	0.039884	-0.2061	0.329588	0.007757	0.602616	0.084695
FDP2L2A	-0.15134	0.259075	-0.11335	-0.0042	0.261108	0.053846	0.401186	0.975257	-0.24351	0.158371	-0.09535	0.133137	0.051472	0.85342	0.266634	0.811129
RPS4Y1	-0.04318	0.067589	-0.21461	0.044189	0.749792	0.620638	0.108915	0.744132	0.03443	0.326881	-0.3366	0.309957	0.58985	0.986699	0.011885	0.981973
LOC619207	0.023622	-0.19387	0.128528	-0.1772	0.861537	0.152239	0.34068	0.187295	0.170047	-0.41758	0.181261	-0.38104	0.870726	0.001942	0.883295	0.004492
C6orf225	-0.10273	-0.16317	-0.019	-0.15826	0.447017	0.229515	0.888436	0.239689	-0.18843	-0.28758	0.038878	-0.15512	0.104908	0.026313	0.600082	0.15165
ZNF704	0.181304	-0.06731	0.198195	-0.20611	0.177109	0.622069	0.139437	0.124003	0.290976	-0.24066	0.319718	-0.23957	0.975111	0.053583	0.98386	0.054403
RPS5	0.004054	0.096636	-0.18709	0.176353	0.976123	0.478628	0.163453	0.189435	-0.04662	0.435036	-0.40302	0.336817	0.379163	0.998742	0.003026	0.988957
MBOAT4	-0.11893	-0.0917	0.102909	-0.10823	0.37825	0.501481	0.446204	0.4229	0.17036	-0.24703	-0.05911	-0.15388	0.87117	0.048954	0.349851	0.153621
SCARNA9	0.144107	0.038691	0.067558	0.335128	0.284854	0.777092	0.61755	0.010826	0.255399	-0.03555	0.14377	-0.00795	0.954798	0.40834	0.824088	0.479326
RPS6	0.187586	0.360241	-0.2241	0.078254	0.162322	0.006387	0.093767	0.562856	-0.02357	0.514983	-0.29217	0.362904	0.438222	0.999875	0.025737	0.993408
SNORD74	-0.17205	0.231791	-0.22859	0.380024	0.200633	0.085625	0.087216	0.003548	-0.0447	0.523949	-0.21543	0.347532	0.384001	0.999907	0.077624	0.991021
SNORA27	0.164968	-0.00158	0.014224	0.285331	0.220081	0.99076	0.916361	0.031443	0.220008	0.142574	0.115605	-0.06982	0.929107	0.827726	0.775241	0.322384
RPS6KA1	-0.21559	-0.01779	-0.15879	-0.06523	0.107272	0.896465	0.238075	0.629748	-0.12939	0.180419	-0.03956	-0.02789	0.19847	0.882188	0.399369	0.427856
SNORA21	0.178279	-0.04813	0.207651	0.160997	0.184569	0.724663	0.121155	0.231543	0.053979	-0.16427	0.139304	-0.16025	0.639188	0.137656	0.819285	0.143702
C1orf191	0.039137	-0.06416	0.134177	-0.25423	0.774588	0.641651	0.324176	0.058655	0.074938	-0.37597	0.104776	-0.43151	0.689687	0.005012	0.753317	0.001376
SNORA3	0.074385	-0.32618	0.285321	0.046912	0.582377	0.014152	0.03145	0.728948	0.166406	-0.53199	0.315665	-0.37011	0.865483	7.09E-05	0.982669	0.005675
SNORA52	-0.02666	-0.20338	0.13216	-0.00924	0.843936	0.13274	0.327093	0.945606	0.038923	-0.33846	-0.01585	-0.28312	0.60134	0.010702	0.458841	0.028288
SNORA4	0.048534	0.292271	-0.11699	0.290059	0.719955	0.02883	0.386128	0.028621	0.125196	0.442496	-0.11367	0.259194	0.796453	0.998962	0.228588	0.95902
SNORA41	0.034106	0.020457	0.004206	0.12849	0.801146	0.88104	0.975228	0.340822	0.173774	-0.02248	-0.05339	-0.02039	0.875948	0.441062	0.363793	0.446516
SNORD95	-0.15538	0.128517	0.141217	0.260863	0.248437	0.345188	0.294729	0.050005	0.07255	0.046725	-0.00643	0.101103	0.684084	0.621092	0.483283	0.748111

SNORD96A	-0.00754	0.214922	0.025625	0.308312	0.955601	0.111676	0.849927	0.019633	0.063515	0.283939	-0.04501	0.181848	0.662519	0.972083	0.384546	0.88677
RPS6KA2	0.152362	-0.4159	0.346025	0.009966	0.262281	0.001589	0.008995	0.941886	0.187894	-0.59612	0.228489	-0.35313	0.894435	6.17E-06	0.934436	0.008037
RPS6KA3	-0.05684	0.355577	-0.31063	0.225408	0.67452	0.007158	0.018687	0.091822	0.001156	0.49069	-0.14423	0.388735	0.503041	0.999732	0.172259	0.996206
RPS6KB1	-0.13689	0.231344	-0.33643	0.088293	0.309917	0.086248	0.010504	0.513686	0.054337	0.1888	-0.08042	0.148944	0.640073	0.89555	0.299731	0.838401
RPS6KB2	-0.10831	0.089086	-0.01557	-0.02795	0.42257	0.513804	0.908478	0.836475	-0.07174	0.30929	-0.18548	0.07791	0.317833	0.981761	0.111265	0.696602
RPS7	-0.06423	-0.00757	0.003083	-0.11876	0.635038	0.955836	0.981843	0.378933	-0.26315	0.136635	-0.09408	-0.02796	0.038619	0.817388	0.269379	0.426835
RPS9	0.04213	-0.20381	0.244764	-0.07714	0.755675	0.131896	0.066504	0.56843	-0.03055	-0.31138	-0.05218	-0.19495	0.42013	0.017584	0.366764	0.097085
RPS10	0.048083	0.199757	0.169496	-0.22907	0.722454	0.13993	0.207503	0.086535	0.085378	-0.19932	-0.0275	-0.4445	0.711455	0.094645	0.429679	0.00111
RPS11	0.081135	0.146485	-0.33193	0.204285	0.548521	0.28135	0.011655	0.12744	0.002794	0.477281	-0.32732	0.407328	0.507352	0.999602	0.014089	0.99752
RPS12	-0.13121	0.335472	-0.21447	0.12757	0.33061	0.011487	0.109147	0.34432	-0.04986	0.432904	-0.32629	0.396026	0.37105	0.998672	0.014354	0.996779
RPS13	0.121294	0.196669	-0.31391	0.269877	0.368765	0.146286	0.01741	0.042334	0.112038	0.410625	-0.33309	0.289836	0.770747	0.997705	0.012681	0.974639
RPS14	0.075353	0.051274	-0.13589	0.05451	0.577466	0.707446	0.313488	0.687149	-0.07128	0.310271	-0.22064	0.143522	0.318908	0.982071	0.07263	0.829341
RPS15	-0.0918	0.042369	-0.20836	0.105925	0.50101	0.758741	0.12331	0.437171	0.061684	0.327043	-0.22037	0.203047	0.658083	0.986739	0.072884	0.912033
RPS15A	-0.01436	-0.08777	-0.22458	0.261117	0.91557	0.520066	0.093056	0.049774	-0.01676	0.297185	-0.27489	0.376237	0.455999	0.977556	0.033814	0.995017
RPS16	0.033821	0.256912	-0.30943	0.316233	0.802772	0.055952	0.01917	0.016554	-0.03097	0.64848	-0.44407	0.455372	0.419983	0.999999	0.001266	0.999164
BDH1	-0.11813	0.14697	-0.11134	-0.16772	0.381495	0.279742	0.40963	0.212385	-0.2774	0.283988	-0.34929	0.002067	0.030991	0.972105	0.009342	0.505439
RPS18	-0.11365	0.227853	-0.16846	-0.03316	0.39991	0.091233	0.210347	0.806572	0.19696	0.239787	-0.07544	0.160661	0.902652	0.943689	0.31324	0.854125
RPS19	0.032647	-0.03955	0.049372	0.147044	0.809492	0.772272	0.715324	0.27505	-0.0105	0.115324	-0.1737	0.190029	0.472394	0.777325	0.126903	0.897052
RPS20	0.168582	0.046778	-0.08257	0.197361	0.210002	0.732092	0.541438	0.141143	0.293855	0.046027	-0.2306	-0.03635	0.974959	0.617998	0.066041	0.4063
RPS21	0.185649	0.020337	-0.10781	0.14034	0.166782	0.881734	0.424747	0.297767	0.090485	0.277555	-0.30302	0.224251	0.725092	0.969087	0.021517	0.932965
RPS23	0.145743	0.100582	-0.14842	0.230274	0.283821	0.464985	0.274987	0.087753	0.123437	0.444111	-0.26771	0.324013	0.793116	0.999005	0.03771	0.98598
RPS24	-0.01008	0.396684	-0.35272	0.138818	0.940672	0.002472	0.007123	0.303091	-0.07629	0.455309	-0.47391	0.340386	0.307164	0.999262	0.000504	0.989684
BDKRB1	-0.04042	0.476526	-0.13826	-0.22201	0.765329	0.000205	0.30507	0.096952	-0.05553	0.365792	-0.02251	0.116341	0.356986	0.99379	0.441653	0.779341
RPS25	0.170296	0.203186	-0.27285	0.225334	0.205336	0.133117	0.040023	0.091932	0.13216	0.432604	-0.31581	0.279799	0.809358	0.998662	0.017286	0.970168
RPS26	0.052484	-0.00023	0.01655	-0.15635	0.70086	0.998667	0.903643	0.249839	-0.05137	-0.02727	-0.04921	-0.02532	0.367294	0.428623	0.374096	0.433671
RPS29	0.204133	0.157015	-0.08913	0.253062	0.12773	0.247815	0.509681	0.057526	-0.02795	0.434415	-0.30547	0.402256	0.426844	0.998722	0.020647	0.997208
RRAD	-0.21603	-0.26068	-0.0114	-0.19588	0.106538	0.052325	0.932912	0.144221	-0.24402	-0.35833	-0.01613	-0.26196	0.051096	0.007237	0.458116	0.039317
RRAS	0.308774	-0.02591	0.151487	0.218137	0.020589	0.851047	0.265064	0.106292	0.500609	-0.22217	0.33629	-0.1056	0.999802	0.068905	0.988047	0.242436
RRBP1	0.085867	-0.0505	0.167135	-0.00777	0.525369	0.711663	0.213999	0.95426	0.169943	0.082625	0.065024	-0.03047	0.870577	0.707435	0.664352	0.420348
RREB1	-0.07282	0.220976	-0.00514	-0.08615	0.593795	0.10496	0.970028	0.527842	-0.22358	0.582137	-0.24575	0.327829	0.067632	0.999989	0.051846	0.98693
BDKRB2	-0.25343	0.253351	-0.16203	-0.17517	0.057155	0.059564	0.228511	0.192457	-0.19197	0.14112	-0.17029	-0.01708	0.100611	0.825227	0.131702	0.455154
RRM1	0.058574	0.238511	-0.30818	-0.00249	0.668059	0.079495	0.020845	0.98549	-0.1406	0.702932	-0.29852	0.463112	0.175675	1	0.023192	0.999404
RRM2	-0.11109	0.293656	-0.05734	0.047169	0.415003	0.029555	0.674673	0.729935	-0.13579	0.65951	-0.18922	0.436721	0.184111	1	0.106588	0.998795
RTKN	0.166765	-0.11298	0.157017	0.017978	0.215027	0.407054	0.243437	0.894405	0.083402	0.189416	0.105076	0.105305	0.707014	0.893656	0.751371	0.754414
RS1	0.03274	-0.16622	0.264534	-0.2556	0.80896	0.220808	0.046754	0.054985	0.207107	-0.3564	0.211052	-0.35614	0.916366	0.007526	0.91799	0.007565
RSC1A1	0.103551	0.283975	-0.04094	0.007346	0.443359	0.03392	0.762381	0.956749	-0.02199	0.425994	-0.25481	0.159258	0.442326	0.99842	0.04559	0.854786
CLIP1	-0.09209	0.302984	-0.27827	-0.04319	0.495664	0.023218	0.036089	0.749728	-0.06054	0.293926	-0.08775	0.073409	0.344705	0.976298	0.283261	0.686103
RSU1	0.188887	-0.0132	-0.01065	0.063784	0.163256	0.923781	0.937918	0.640482	0.104245	0.109077	0.142857	0.052001	0.754729	0.764727	0.825404	0.634282
RTN1	0.244547	-0.30417	0.300485	-0.10161	0.066753	0.022658	0.02314	0.451998	0.400934	-0.56501	0.314252	-0.45849	0.997122	2.15E-05	0.982238	0.000677
RTN2	-0.05735	-0.16321	0.137156	-0.14385	0.674609	0.2294	0.313453	0.290172	0.179488	-0.31149	0.218976	-0.30412	0.883676	0.017549	0.9258	0.019946
RXRA	-0.06966	0.132718	-0.07629	-0.1959	0.606613	0.329516	0.572747	0.144172	-0.1287	0.128492	0.00876	-0.10734	0.196998	0.802623	0.522772	0.238849
RXRB	0.154103	-0.14535	0.175548	-0.03404	0.252403	0.285128	0.191497	0.801532	0.139392	-0.0748	-0.10687	-0.22459	0.822233	0.310643	0.242363	0.066735
RXRG	0.211656	0.038169	0.131396	-0.08329	0.113985	0.78002	0.329921	0.537927	0.208152	-0.504	0.383031	-0.4576	0.917456	0.000178	0.995298	0.000693
RYK	0.133445	0.193755	-0.09911	0.084855	0.32237	0.15248	0.463245	0.530276	0.207777	0.313645	0.004761	0.262999	0.917066	0.983106	0.512382	0.961293
RYR1	-0.01708	-0.0925	0.150522	-0.15818	0.89965	0.49772	0.26373	0.239915	0.043478	-0.20577	0.156086	-0.16787	0.612905	0.085043	0.847055	0.132388
RYR2	0.455656	-0.18213	0.331408	0.087008	0.000417	0.183246	0.012594	0.52371	0.403936	-0.40284	0.218097	-0.30679	0.997315	0.002754	0.924962	0.01905
RYR3	0.233212	-0.37977	0.182334	-0.14216	0.080834	0.003892	0.174621	0.291489	0.140212	-0.57887	0.088045	-0.38551	0.823658	1.25E-05	0.717396	0.004075
BDNF	-0.00348	0.331073	-0.15158	-0.03021	0.979529	0.012689	0.260363	0.823492	-0.15205	0.160441	-0.01706	0.014857	0.156542	0.856593	0.455715	0.539034
S100A1	0.263246	-0.25097	0.3207	-0.0305	0.047875	0.062084	0.015007	0.821834	0.282606	-0.35593	0.301305	-0.27861	0.970013	0.008206	0.976569	0.031924
SORT1	-0.05862	0.242738	-0.31476	-0.24303	0.667839	0.074154	0.018142	0.071103	-0.0797	0.032776	-0.00851	-0.09647	0.29926	0.585598	0.477882	0.261809

S100A2	-0.0944	0.344618	-0.20966	0.140573	0.488909	0.00998	0.12094	0.301432	-0.08302	0.713261	-0.30695	0.461717	0.291677	1	0.020138	0.999381
S100A3	-0.17451	0.320273	-0.23088	0.052121	0.194178	0.01611	0.084003	0.700201	-0.14762	0.545218	-0.21497	0.320361	0.163782	0.999955	0.078075	0.985018
S100A4	-0.01584	-0.21921	-0.07668	0.323629	0.907737	0.107832	0.574333	0.014971	-0.03212	-0.00416	0.089504	0.182161	0.416083	0.489062	0.720623	0.887175
S100A5	0.07723	-0.04284	0.26134	-0.24067	0.571563	0.756126	0.05171	0.073982	0.02085	-0.2287	0.175632	-0.13468	0.554068	0.065385	0.872933	0.188874
S100A6	-0.18001	-0.00768	-0.08135	-0.11586	0.180274	0.955176	0.547442	0.390758	-0.17819	0.006741	-0.24725	-0.01441	0.118054	0.517732	0.050765	0.462134
S100A7	0.087846	0.068529	0.071954	-0.12892	0.515832	0.615772	0.594796	0.339209	-0.02549	-0.08219	-0.05552	-0.19532	0.433226	0.293548	0.358594	0.096657
S100A8	-0.134	0.075962	-0.32387	-0.08032	0.320325	0.577918	0.013985	0.552566	-0.28041	0.165285	-0.2402	-0.03733	0.029544	0.863841	0.055996	0.402735
S100A9	-0.18264	-0.00316	-0.1598	-0.08046	0.177893	0.981706	0.239417	0.555535	-0.19904	0.157717	-0.194	-0.04697	0.092401	0.852409	0.100812	0.3783
S100A10	-0.04475	0.422525	-0.35307	0.01553	0.741013	0.001179	0.007062	0.908718	-0.03627	0.603116	-0.08888	0.443534	0.405446	0.999995	0.280764	0.99899
S100A11	-0.13458	0.176995	-0.26113	-0.07189	0.32272	0.196111	0.051901	0.598548	-0.39948	0.40242	-0.28286	0.247643	0.002976	0.997219	0.029868	0.951475
S100A12	-0.07678	-0.16839	-0.10416	-0.10903	0.573829	0.219109	0.444892	0.423768	-0.2511	-0.172	-0.06304	-0.14151	0.048077	0.12928	0.342186	0.176903
S100A13	-0.14012	-0.04921	0.012045	-0.23092	0.298542	0.718703	0.929138	0.083945	0.048372	-0.23334	0.080879	-0.25473	0.625226	0.059303	0.701303	0.043776
S100B	0.417659	-0.39529	0.267295	0.072535	0.001227	0.002568	0.044425	0.591818	0.520311	-0.40392	0.350234	-0.30112	0.999876	0.002965	0.990115	0.022213
S100P	-0.20048	0.331162	-0.20746	-0.11176	0.134848	0.012664	0.121509	0.407862	-0.2544	0.350639	-0.22495	0.106596	0.043989	0.991555	0.068683	0.759621
SAA1	-0.04191	-0.37531	0.201562	0.351378	0.756904	0.004369	0.132703	0.007359	-0.10399	-0.16896	-0.13478	-0.09114	0.24832	0.133607	0.191528	0.275776
SAA2	-0.18867	-0.27346	0.117178	0.404663	0.15987	0.041419	0.385354	0.001795	-0.10284	-0.20317	-0.15304	-0.10555	0.248209	0.087829	0.157766	0.242541
CFB	-0.13035	-0.31344	0.212322	0.475239	0.333827	0.018659	0.112826	0.000187	-0.20241	0.153786	-0.09817	0.32204	0.088658	0.846233	0.260587	0.985467
SAA4	-0.15487	-0.25495	0.146889	0.355932	0.250026	0.057922	0.275561	0.006582	-0.16139	-0.13593	-0.07647	-0.13719	0.141963	0.183868	0.308802	0.181631
VPS52	-0.08355	0.395488	-0.17907	0.069187	0.540419	0.002803	0.186665	0.612379	-0.10225	0.520605	-0.20353	0.169838	0.251949	0.999877	0.092569	0.867656
SAFB	-0.02052	0.04432	-0.10859	0.084243	0.879587	0.745679	0.421349	0.533257	-0.11368	0.231998	-0.08127	0.101301	0.225963	0.939601	0.297803	0.74853
SAG	-0.12944	-0.11774	0.10087	-0.19085	0.341698	0.391941	0.459476	0.158843	0.060883	-0.1904	0.019305	-0.23719	0.656134	0.102499	0.550083	0.05624
ACSM3	0.279853	0.118707	-0.09796	0.112605	0.036714	0.388031	0.472575	0.408641	0.183314	0.159837	-0.11502	0.072427	0.888662	0.855672	0.225905	0.683793
SALL2	0.148951	-0.258	0.099869	-0.21027	0.268803	0.054881	0.459821	0.116424	0.004289	-0.17708	0.092373	-0.1041	0.511284	0.119546	0.726915	0.245583
SALL1	0.005166	0.164094	0.180682	-0.20827	0.96958	0.226861	0.178625	0.120024	-0.00875	-0.27874	0.067425	-0.1778	0.476978	0.030336	0.670059	0.118573
MAPK12	0.073962	-0.00834	0.051644	-0.08264	0.587996	0.951789	0.705428	0.544858	0.210179	-0.17169	0.17791	0.009634	0.919541	0.126952	0.878844	0.525333
SARS	0.236698	0.10569	-0.08745	0.282328	0.079022	0.442506	0.521603	0.035014	0.10155	0.414146	-0.20122	0.22881	0.749059	0.99789	0.092508	0.936933
TSPAN31	-0.09255	0.213839	-0.25563	0.123013	0.493536	0.113535	0.054955	0.361968	-0.17088	0.470783	-0.16695	0.358523	0.128101	0.99952	0.136515	0.99279
SLC22A23	-0.26478	-0.01631	-0.1126	-0.28096	0.048602	0.905921	0.408644	0.035945	-0.2327	0.008812	-0.28785	-0.1522	0.059827	0.523174	0.027594	0.156304
SAT1	-0.3116	0.205468	-0.29906	0.295438	0.018302	0.128722	0.023831	0.025671	-0.19222	0.471086	-0.32885	0.347724	0.10031	0.999524	0.013704	0.991055
BCORL1	0.11556	-0.31418	0.236489	-0.06641	0.391996	0.018368	0.076541	0.62353	0.182416	-0.35305	0.32522	-0.18823	0.887506	0.00805	0.985367	0.105149
ELA2A	-0.00056	-0.06137	0.133853	-0.38742	0.996682	0.653178	0.320876	0.002907	0.072969	-0.37235	0.167662	-0.2189	0.68507	0.005414	0.864524	0.071929
SATB1	-0.0721	0.067013	0.017876	-0.24219	0.594054	0.623625	0.895	0.069505	-0.04329	-0.17763	0.083942	-0.19551	0.387558	0.118795	0.708231	0.096437
SBF1	-0.02308	-0.01198	0.059886	0.065824	0.864678	0.930152	0.658121	0.626628	0.016855	0.141413	-0.09033	0.025099	0.544263	0.825732	0.277565	0.565753
SC4MOL	-0.18618	0.26129	-0.2051	0.042788	0.165561	0.051757	0.125902	0.751978	-0.22649	0.192945	-0.10097	0.208794	0.065063	0.900554	0.254639	0.918121
SC5DL	0.08726	0.272883	-0.14202	0.047629	0.518643	0.04187	0.291958	0.72497	0.079873	0.330712	-0.00916	0.284764	0.701132	0.987611	0.476184	0.972453
BFSP1	-0.00966	0.101393	0.097628	-0.50622	0.943124	0.457142	0.470004	5.88E-05	-0.03424	-0.45323	0.160551	-0.37165	0.410638	0.00078	0.853957	0.005493
ATXN1	0.084276	0.081049	-0.06768	0.10255	0.533098	0.552635	0.616924	0.4478	-0.00302	0.111837	-0.0152	0.17569	0.492055	0.770341	0.460526	0.878577
ATXN2	-0.10277	0.00197	-0.07189	-0.23121	0.446837	0.988501	0.595134	0.083554	-0.10441	-0.24088	0.022052	-0.25275	0.24492	0.053416	0.557165	0.045066
ATXN7	-0.17481	0.147039	-0.02953	0.330264	0.193408	0.279515	0.827371	0.012106	0.244991	0.062352	-0.04327	-0.03494	0.947602	0.657958	0.390164	0.409881
SERPINB3	0.003374	0.503619	-0.29849	0.09935	0.980129	7.60E-05	0.024116	0.462168	0.032237	0.480691	-0.14274	0.27165	0.584213	0.999639	0.174801	0.966092
SERPINB4	-0.02535	0.379123	-0.29546	0.299385	0.851547	0.003958	0.025659	0.023673	0.001362	0.45386	-0.18486	0.304457	0.503544	0.99913	0.114815	0.978996
SCD	0.006852	0.284829	-0.03653	0.007751	0.959657	0.033363	0.787326	0.954365	-0.03618	0.465707	-0.20036	0.317365	0.405653	0.999446	0.093479	0.984188
BGLAP	-0.07327	-0.08587	0.144586	-0.19784	0.588047	0.529172	0.283243	0.140157	0.004186	-0.22324	0.04092	-0.19232	0.511012	0.067938	0.605222	0.10019
CLEC11A	0.071443	-0.12882	0.311254	-0.03067	0.597424	0.344028	0.018437	0.820811	-0.02886	-0.21345	0.001754	-0.1439	0.424512	0.077173	0.504562	0.170022
SCML1	0.029947	0.049925	-0.05807	0.115849	0.824987	0.71481	0.667874	0.390806	0.30061	-0.08232	0.158087	0.01035	0.978819	0.293259	0.850173	0.527215
SCN1A	-0.01962	-0.13668	-0.03322	-0.4188	0.884793	0.315167	0.806235	0.001186	-0.02868	-0.37458	0.108318	-0.39309	0.424979	0.005162	0.760608	0.003442
SCN1B	0.07789	-0.24082	0.315734	-0.05959	0.564678	0.073797	0.016735	0.659708	0.336375	-0.50005	0.270012	-0.48929	0.988863	0.000201	0.963578	0.00028
SCN2A	0.177173	-0.05632	0.010648	-0.19014	0.187353	0.680123	0.937343	0.156582	0.383685	-0.2053	0.128192	-0.07853	0.995364	0.088047	0.796527	0.304056
SCN2B	0.146156	-0.18087	0.294615	-0.02852	0.277989	0.182204	0.026105	0.83321	0.073147	-0.32581	0.140136	-0.14407	0.685488	0.013565	0.82073	0.169732
SCN3A	0.177435	0.042378	0.016283	0.025131	0.190783	0.758689	0.90519	0.85413	0.112436	-0.05379	0.024575	-0.04153	0.771547	0.361268	0.563654	0.392018

SCN4A	0.035135	-0.10368	0.343656	-0.18286	0.795273	0.447	0.008863	0.173368	0.070873	-0.24299	0.171803	-0.1539	0.680124	0.051846	0.870441	0.153581
BGN	0.370257	-0.32049	0.104386	0.291401	0.004972	0.017056	0.443895	0.029332	0.383339	-0.19428	0.325751	0.133111	0.995727	0.097867	0.985506	0.811082
SCN4B	-0.0012	-0.29932	0.277146	-0.27491	0.992994	0.02642	0.03865	0.040312	-0.0784	-0.47433	0.200618	-0.32445	0.302258	0.000434	0.906816	0.013908
SCN5A	-0.04544	-0.21667	0.185263	-0.17331	0.737117	0.108729	0.16768	0.1973	0.036534	-0.46526	0.168558	-0.39935	0.595241	0.000561	0.86582	0.002985
SCN7A	0.226429	-0.16086	0.007617	0.396746	0.090321	0.236287	0.955156	0.002247	0.289582	-0.1644	0.2149	0.028815	0.974533	0.137463	0.921853	0.575382
SCN8A	-0.31056	0.088518	-0.09254	-0.16272	0.018715	0.516503	0.493566	0.226521	-0.27732	-0.10871	-0.13842	-0.15139	0.032566	0.238599	0.185105	0.160422
SCN9A	0.070665	0.084803	-0.06486	-0.03373	0.601433	0.534326	0.631701	0.80329	-0.00282	-0.01599	0.120066	-0.04299	0.492568	0.458014	0.783953	0.388322
SCN10A	0.00321	-0.15351	0.171967	-0.30209	0.981094	0.258659	0.200857	0.022382	0.068438	-0.4432	0.259704	-0.30223	0.674339	0.001019	0.957539	0.020604
SCNN1A	-0.26111	0.246716	-0.05907	-0.10378	0.051922	0.069393	0.66539	0.446546	-0.07169	0.26204	-0.22426	-0.07717	0.317935	0.96073	0.069305	0.305107
SCNN1B	-0.07582	0.064477	-0.05858	-0.22182	0.578642	0.63685	0.668042	0.100365	-0.27347	0.229581	-0.15597	-0.10666	0.034555	0.935378	0.156003	0.242787
SCNN1D	0.087285	-0.11165	0.262382	-0.20722	0.518524	0.412641	0.048638	0.121941	0.03281	-0.20849	0.121554	-0.21634	0.585687	0.082196	0.786815	0.074357
CEACAM1	0.005824	0.191745	-0.04391	0.198326	0.965706	0.156864	0.745708	0.139169	0.092936	0.42959	-0.02853	0.308326	0.730495	0.998556	0.42621	0.981452
SCNN1G	-0.04279	-0.3719	0.117463	0.032919	0.751974	0.004768	0.384195	0.807932	-0.13815	-0.33875	0.14119	-0.35414	0.179932	0.010645	0.822549	0.007876
SCO1	-0.05854	0.307804	-0.27294	0.216759	0.668248	0.022247	0.041825	0.108575	-0.07366	0.495326	-0.3487	0.310241	0.313317	0.999767	0.00945	0.982062
SCP2	0.017682	0.065707	-0.25352	0.055928	0.896131	0.630418	0.057058	0.679449	-0.26448	0.311782	-0.15165	0.217103	0.037852	0.982541	0.160003	0.926371
SCT	0.023634	-0.16082	0.238801	-0.2399	0.861467	0.236398	0.073624	0.072268	0.15722	-0.44452	0.254219	-0.33274	0.851637	0.000984	0.954023	0.011927
SCTR	-0.04383	-0.04875	0.141605	-0.25229	0.748405	0.723759	0.29786	0.060673	0.067091	-0.24761	0.048983	-0.27329	0.671122	0.048548	0.625338	0.033052
SRL	0.173561	-0.13954	0.237787	-0.30504	0.19665	0.30505	0.074892	0.021042	0.219644	-0.31974	0.263532	-0.21135	0.928768	0.015152	0.959867	0.07927
CCL1	0.125155	-0.1254	0.305086	-0.27799	0.353603	0.357104	0.021019	0.036284	0.104721	-0.36273	0.253844	-0.30973	0.753203	0.007167	0.951814	0.019205
CCL2	0.10847	0.035954	0.039638	0.617265	0.421882	0.792496	0.769719	3.15E-07	0.057381	0.245559	-0.01269	0.450779	0.645947	0.948015	0.467413	0.999057
CCL3	0.040791	-0.29641	0.197855	-0.09635	0.763212	0.026543	0.14013	0.475849	0.062257	-0.30755	0.094712	-0.24334	0.659472	0.018799	0.731996	0.051593
BHMT	-0.03001	-0.06079	0.26685	-0.17376	0.824619	0.656256	0.044793	0.196137	0.050894	-0.39783	0.069105	-0.40226	0.631527	0.003091	0.674029	0.002791
CCL4	-0.43094	0.02496	-0.21045	0.104808	0.000819	0.85511	0.116107	0.437814	-0.37186	-0.27408	-0.20598	-0.24577	0.00547	0.032646	0.087316	0.049843
CCL5	-0.05373	-0.18593	0.014802	0.647667	0.691406	0.170077	0.912977	5.17E-08	-0.19463	-0.07315	-0.01207	0.131659	0.097458	0.314514	0.468635	0.808446
CCL7	0.030158	-0.1803	0.169124	-0.13301	0.825373	0.187761	0.212741	0.328428	0.04648	-0.52569	0.184926	-0.39144	0.620477	8.78E-05	0.888034	0.003572
CCL8	0.202776	-0.1342	0.261692	-0.00603	0.133918	0.328661	0.051384	0.964846	0.141391	-0.15154	0.0745	0.077732	0.822896	0.160181	0.684607	0.69411
CCL11	0.096962	-0.02225	0.091743	0.509041	0.473053	0.87069	0.497309	5.27E-05	-0.01448	0.157509	0.068609	0.347147	0.461968	0.852087	0.672859	0.990953
CCL13	0.037652	-0.13504	0.05924	0.321953	0.782929	0.325608	0.664511	0.015531	0.106308	-0.24591	0.200429	0.04684	0.759025	0.049744	0.906604	0.621382
CCL14	0.197192	-0.24157	0.160491	0.337178	0.141491	0.072869	0.233032	0.010323	0.22336	-0.34555	0.098295	-0.04157	0.932168	0.009334	0.73969	0.391921
CCL15	-0.12294	-0.13114	0.061891	-0.17736	0.362273	0.33534	0.647418	0.186868	-0.22356	-0.27167	0.074147	-0.11216	0.067652	0.033898	0.685829	0.229005
BICD1	0.078919	0.16255	0.097223	0.161949	0.559532	0.231322	0.471855	0.228757	0.29737	0.088072	0.173558	0.134189	0.977626	0.719725	0.872894	0.813025
CCL16	-0.03093	-0.16039	0.221949	-0.1365	0.819309	0.237667	0.097051	0.311315	0.054902	-0.3022	0.152246	-0.19968	0.64147	0.020616	0.840955	0.091686
CCL17	-0.01855	-0.26613	0.208141	-0.2789	0.891046	0.047424	0.120259	0.035652	-0.05037	-0.41222	0.283132	-0.32517	0.369775	0.002209	0.97026	0.013725
CCL18	-0.20383	-0.23646	0.003537	0.11861	0.131872	0.082197	0.979361	0.383941	-0.1189	0.00376	0.012743	0.113088	0.221036	0.509663	0.532319	0.767579
CCL19	0.075662	0.09794	0.057601	0.602318	0.575902	0.472686	0.670403	7.17E-07	-0.11125	0.340562	-0.06493	0.510238	0.230845	0.989719	0.335876	0.999854
CCL20	-0.12634	-0.23175	0.009853	0.197816	0.349035	0.085677	0.94201	0.14021	-0.15781	-0.00928	-0.11217	0.00559	0.15025	0.475871	0.234259	0.514535
CCL21	0.010433	0.023575	-0.00352	0.63063	0.939169	0.864347	0.979469	1.90E-07	-0.06008	0.231059	0.026551	0.436808	0.345817	0.938825	0.568724	0.998798
CCL22	0.122939	-0.02636	0.035349	-0.01818	0.362258	0.847104	0.794054	0.893221	-0.05884	0.019827	0.011226	-0.01133	0.348861	0.552027	0.529172	0.470212
CCL23	0.064302	-0.08562	0.150469	-0.05934	0.634639	0.530359	0.263899	0.661056	-0.13708	-0.35005	0.086458	-0.28251	0.181821	0.008543	0.713866	0.028567
CCL24	-0.02677	0.019355	0.069256	-0.26906	0.844757	0.88846	0.612025	0.044943	-0.10872	-0.02411	-0.12005	-0.14096	0.236003	0.436818	0.216088	0.175047
BID	-0.13944	0.248367	-0.21019	0.127317	0.300906	0.064932	0.116573	0.345284	-0.17626	0.349881	-0.15253	0.188422	0.120652	0.991428	0.158589	0.895085
CCL25	0.008828	-0.09386	0.169449	-0.17613	0.948034	0.491407	0.20763	0.190013	0.128596	-0.23684	0.181338	-0.23414	0.802816	0.056512	0.883396	0.058658
CXCL6	-0.12661	-0.19448	0.150353	0.090031	0.348001	0.15092	0.264271	0.505404	-0.19504	0.061347	-0.01488	-0.01966	0.096988	0.657264	0.461346	0.448417
CXCL11	0.027426	-0.20038	0.076065	0.455768	0.840974	0.142421	0.577399	0.000416	-0.01592	-0.16793	0.117655	-0.04063	0.459154	0.137946	0.773794	0.396708
CXCL5	0.064616	-0.29462	0.306913	-0.06381	0.632983	0.027512	0.020224	0.637241	-0.0583	-0.46901	0.229915	-0.37261	0.350181	0.000505	0.935663	0.005383
XCL1	0.152373	-0.16258	0.366194	-0.01734	0.257832	0.231249	0.005087	0.898136	-0.1475	-0.28281	0.190365	-0.25841	0.163973	0.028429	0.894818	0.041464
CX3CL1	0.193008	-0.27987	0.185941	0.292438	0.150304	0.036699	0.166103	0.027283	0.084763	0.176823	0.14362	0.221103	0.712288	0.880114	0.826703	0.930118
BIK	-0.14703	0.10077	-0.02922	-0.14534	0.2751	0.459925	0.829168	0.280699	-0.18443	0.233478	-0.08627	0.03519	0.10991	0.940811	0.286554	0.591799
SDC1	-0.03127	0.38894	-0.1477	0.042336	0.817405	0.003051	0.272893	0.75452	-0.18873	0.621181	-0.27743	0.372243	0.104538	0.999998	0.032512	0.994575
SRR	-0.24384	0.075434	-0.3172	-0.21037	0.067573	0.58057	0.016209	0.116254	-0.40031	0.031829	-0.10202	0.201769	0.00292	0.58316	0.252434	0.910636

BCAN	0.063965	-0.14148	0.2372	-0.27622	0.636418	0.298277	0.075634	0.037539	0.115231	-0.43056	0.282531	-0.40186	0.777141	0.001409	0.969977	0.002818
SDC2	0.452322	-0.30859	0.289832	0.110907	0.000412	0.020669	0.028751	0.411464	0.499085	-0.32441	0.426277	-0.14577	0.999758	0.014848	0.998045	0.16967
SDC4	-0.28526	0.368552	-0.39616	-0.19142	0.033087	0.005629	0.002508	0.157588	-0.34849	0.447802	-0.31149	0.088873	0.008812	0.999098	0.01863	0.721513
SDCBP	0.057208	-0.03305	-0.15282	0.193242	0.672522	0.808941	0.256412	0.149801	-0.02003	0.124933	-0.03174	0.136869	0.447442	0.795957	0.418014	0.817803
CXCL12	0.363473	-0.28414	0.281923	0.430595	0.005451	0.033809	0.033619	0.000827	0.115487	-0.03385	0.246028	0.344838	0.777648	0.411645	0.948356	0.990536
ABHD4	-0.01667	0.262582	-0.15405	0.020407	0.902023	0.050568	0.25256	0.880237	-0.1079	0.434048	-0.1934	0.217914	0.237695	0.99871	0.101526	0.927143
MRPL17	-0.0587	0.02541	0.094897	-0.01151	0.66741	0.853897	0.486615	0.932904	-0.1801	0.160918	-0.25981	0.07824	0.115511	0.857317	0.042397	0.697366
PKNOX2	0.191474	-0.26946	0.282154	-0.13543	0.153634	0.04461	0.033467	0.315174	0.216069	-0.58139	0.212646	-0.37481	0.92538	1.13E-05	0.919606	0.005138
C10orf84	0.001628	0.22546	-0.17541	0.074974	0.990412	0.094777	0.191842	0.579384	0.125544	0.210756	-0.04864	0.062666	0.797111	0.920127	0.375513	0.660466
SDF2	-0.02993	0.332398	-0.31706	0.173307	0.828254	0.01406	0.018344	0.205743	-0.15362	0.590643	-0.32399	0.403555	0.154027	0.999992	0.014959	0.997291
SDHA	-0.16206	0.206821	-0.43317	0.17429	0.232755	0.129766	0.000854	0.198895	-0.29424	0.600733	-0.32549	0.418036	0.023576	0.999995	0.014563	0.998079
RNF123	-0.01637	-0.05187	-0.01221	-0.07659	0.903804	0.704174	0.928173	0.571191	-0.17714	0.29264	-0.11672	0.152622	0.119458	0.975787	0.222573	0.844372
THADA	-0.0626	0.021917	-0.16864	0.007323	0.643658	0.872619	0.209834	0.956887	-0.19498	0.164814	-0.18663	0.140975	0.097058	0.863147	0.109815	0.824978
UBE2O	-0.1419	-0.01237	-0.07308	-0.09804	0.292366	0.92788	0.589037	0.468104	-0.07543	0.006022	-0.25938	-0.17396	0.30916	0.515841	0.042663	0.123794
C14orf133	-0.15078	0.31716	-0.19738	0.084185	0.262897	0.017232	0.141098	0.533543	-0.18185	0.447862	-0.07055	0.320489	0.113229	0.999099	0.322566	0.985052
FAM38B	0.424913	-0.30909	0.10107	-0.29824	0.000986	0.020454	0.454415	0.024239	0.41773	-0.43617	0.390923	-0.23008	0.998065	0.001222	0.996037	0.061989
HEATR6	-0.06265	0.005005	-0.06639	-0.02174	0.643391	0.970799	0.623682	0.872502	-0.40856	0.278125	-0.10613	0.204012	0.00241	0.969365	0.243891	0.913077
SH2D4A	-0.14293	0.417129	-0.31657	-0.08953	0.288838	0.001383	0.016431	0.507771	-0.30193	0.687087	-0.2465	0.46484	0.02071	1	0.051303	0.999432
NSUN3	-0.04864	0.210337	-0.1828	0.028958	0.719389	0.119712	0.173494	0.830682	-0.0261	0.220773	-0.02247	0.067855	0.431638	0.929814	0.441758	0.672947
PRDM1	0.004508	0.105737	-0.10767	0.644122	0.973451	0.43799	0.425346	6.45E-08	-0.15699	0.572844	-0.09872	0.469624	0.148726	0.999984	0.259404	0.999504
SDHB	-0.12888	0.018879	-0.23254	0.18025	0.348358	0.892218	0.087557	0.187879	-0.2649	0.478369	-0.38101	0.289652	0.037612	0.999614	0.004909	0.974562
FAM111A	-0.18402	0.094551	-0.02136	0.150293	0.170605	0.488214	0.874696	0.264466	-0.1144	0.114438	-0.0173	0.150669	0.224523	0.775562	0.45509	0.84122
DUSP21	0.051522	-0.1751	0.25041	-0.14038	0.706092	0.201013	0.062687	0.302106	0.106886	-0.35347	0.28021	-0.39046	0.760221	0.007982	0.968864	0.003651
MANBAL	-0.08317	0.22574	-0.20804	0.069066	0.538488	0.094356	0.120449	0.609706	-0.04679	0.4307	-0.08369	0.291774	0.378745	0.998596	0.292339	0.975437
GPATCH3	-0.20392	0.210992	-0.1243	-0.12222	0.128128	0.118539	0.356917	0.365085	0.012295	-0.05736	-0.03851	-0.14747	0.532318	0.352488	0.400857	0.164038
NAPB	0.024794	0.220331	-0.08837	0.048436	0.85474	0.102734	0.513298	0.720499	0.198115	0.291326	-0.01268	0.178651	0.906554	0.975254	0.467062	0.882566
SDHC	0.126493	-0.04443	-0.13422	0.022502	0.34844	0.745086	0.31953	0.868046	0.047615	0.246269	-0.14011	0.163251	0.623327	0.950511	0.179321	0.860828
SLC17A9	-0.22835	0.01659	0.088419	0.044393	0.087555	0.903411	0.513087	0.74299	-0.01627	-0.13707	0.026254	-0.08497	0.457268	0.181839	0.567963	0.287255
MUTED	0.130014	0.029942	-0.1486	0.080084	0.335079	0.826604	0.269946	0.55373	0.013952	0.350049	-0.05419	0.243222	0.536662	0.991456	0.361842	0.94832
ELMO2	0.031061	0.078069	-0.12026	0.404823	0.818584	0.567383	0.372883	0.001787	0.17615	0.148383	0.232682	0.073016	0.879203	0.837478	0.937994	0.685179
GALNT11	0.201909	-0.27474	0.117071	-0.06549	0.132024	0.040441	0.385793	0.628395	0.02573	-0.38935	0.096207	-0.21747	0.566619	0.004102	0.732778	0.075644
SDHD	-0.01717	0.083309	-0.03494	0.135074	0.899095	0.541577	0.796377	0.316442	0.009578	0.261544	-0.09356	0.153798	0.525185	0.960435	0.270501	0.846252
C5orf54	0.070785	0.08249	-0.07638	0.06944	0.600812	0.545571	0.572282	0.607767	0.019823	-0.00716	-0.0053	0.146075	0.552017	0.481169	0.486208	0.833645
CHTF18	-0.09613	-0.14575	0.223082	-0.02558	0.476894	0.283788	0.095313	0.850185	0.086401	-0.17945	0.15202	-0.05425	0.71598	0.116367	0.840592	0.360145
TNN	0.021006	-0.12889	0.239321	-0.04749	0.876748	0.343764	0.07298	0.725743	0.060648	-0.19274	0.229424	-0.07456	0.655562	0.099688	0.935243	0.311192
CIDEC	-0.05467	-0.23684	0.180432	-0.17864	0.689015	0.081692	0.183279	0.187747	0.219538	-0.41488	0.280417	-0.30093	0.92867	0.002073	0.968965	0.021066
ZNF335	0.034657	-0.11278	0.134335	0.013153	0.798004	0.407902	0.319124	0.922643	0.045068	-0.06639	-0.16656	-0.09929	0.61692	0.330557	0.137081	0.25574
ANKRD5	-0.23397	0.010897	-0.16167	-0.05494	0.079825	0.936469	0.229581	0.684817	-0.3541	0.111394	-0.12474	0.149862	0.007883	0.769445	0.207122	0.839906
CHP2	-0.0217	0.03152	-0.02039	-0.06499	0.872716	0.817619	0.880342	0.631026	-0.14703	-0.17433	0.13516	-0.15607	0.167579	0.126038	0.809149	0.152974
XPNPEP3	-0.10935	-0.08577	-0.1112	-0.25539	0.418095	0.529646	0.410203	0.055193	-0.37223	-0.026	-0.0418	0.041556	0.005427	0.431915	0.392571	0.608037
MRPS14	-0.03924	0.274135	-0.16282	0.191398	0.771994	0.040902	0.226238	0.153801	0.08966	0.392777	0.021783	0.304831	0.723264	0.996534	0.556472	0.980295
CXorf56	-0.16837	0.045686	-0.24761	0.188887	0.219144	0.742884	0.068357	0.167244	-0.23142	0.160527	-0.31673	0.15791	0.060872	0.856723	0.017011	0.852707
CCDC90A	-0.11923	0.283429	-0.31843	0.076545	0.377037	0.034279	0.015778	0.571439	-0.12277	0.300599	-0.07494	0.154327	0.208151	0.978815	0.312328	0.847093
ZNF667	0.210498	-0.23337	0.143895	-0.21949	0.116023	0.083459	0.285571	0.100905	0.106504	-0.3186	-0.04766	-0.17145	0.75943	0.015466	0.377938	0.127297
PCIF1	0.06948	-0.11423	0.071903	0.016381	0.60756	0.401852	0.595059	0.903738	0.036451	0.031182	0.070686	-0.09932	0.595028	0.581495	0.677747	0.255675
C20orf177	-0.0132	0.280518	-0.0991	0.015053	0.92235	0.03625	0.463313	0.911511	-0.06908	0.248642	-0.17622	0.162584	0.324123	0.952168	0.123449	0.85983
GPSM3	-0.18641	-0.1634	0.122626	-0.07578	0.165021	0.22887	0.363492	0.575286	-0.02738	-0.3752	0.095783	-0.26241	0.428331	0.005095	0.734307	0.039055
NECAB3	-0.07408	-0.01897	0.174047	-0.11909	0.583944	0.889637	0.195381	0.377598	0.118763	-0.07351	0.129217	-0.14765	0.784099	0.313652	0.801218	0.163737
FKBPL	0.044862	-0.23631	0.202443	-0.20717	0.740368	0.079534	0.130984	0.122041	0.017008	-0.12107	0.10611	-0.0941	0.544663	0.211418	0.756076	0.266952
DMRTC2	-0.05609	0.137473	0.128527	-0.11761	0.678558	0.312325	0.340683	0.383579	0.130954	-0.32383	0.151117	-0.2893	0.807158	0.014066	0.839134	0.025587

DMRTB1	-0.00936	-0.16553	0.278606	-0.26804	0.944913	0.222777	0.035854	0.04381	0.127079	-0.39216	0.263867	-0.30743	0.799991	0.003515	0.960066	0.018838
DMRTA2	0.043442	-0.1152	0.172635	-0.14855	0.748312	0.397845	0.199087	0.270115	0.175698	-0.31589	0.146161	-0.18295	0.878589	0.016235	0.83098	0.111806
DMRTA1	-0.1919	-0.25495	0.094707	-0.11261	0.156527	0.057915	0.487492	0.408602	0.126141	-0.48372	0.191593	-0.36917	0.798233	0.00033	0.896309	0.005788
SEC13	0.041621	0.163566	-0.04504	0.170734	0.758535	0.228379	0.739375	0.204154	0.00119	0.482238	-0.10018	0.298333	0.503095	0.999602	0.258806	0.976735
CLSPN	0.016539	0.135273	0.103704	-0.09362	0.903705	0.324768	0.446896	0.492541	-0.08218	0.383484	0.074813	0.137323	0.295751	0.995344	0.685326	0.815817
SEC14L1	-0.12807	-0.22459	-0.047	0.121354	0.346884	0.099256	0.730864	0.372959	-0.15311	-0.32013	0.033007	-0.17186	0.154844	0.015045	0.585211	0.126719
P53AIP1	-0.11147	0.068398	-0.28334	-0.23937	0.409068	0.61645	0.032697	0.072921	-0.24399	0.419576	-0.26034	0.280792	0.051118	0.99815	0.042065	0.970637
KIF13A	0.14605	0.015627	-0.11254	-0.12114	0.282797	0.909842	0.408908	0.373815	0.212922	0.099879	-0.00924	0.045478	0.9223	0.74551	0.475972	0.617955
NEUROG2	-0.13258	-0.09887	0.199742	-0.22078	0.325559	0.468458	0.136312	0.098874	0.023126	-0.33966	0.143832	-0.18817	0.560624	0.01046	0.827062	0.105229
NEUROD6	-0.08452	-0.20268	0.078109	-0.27241	0.531932	0.134098	0.563583	0.040364	-0.00512	-0.31976	-0.03856	-0.32762	0.48652	0.015145	0.400729	0.013122
PRDM16	0.08069	-0.16242	0.245818	-0.10404	0.550725	0.23171	0.065306	0.441194	0.162736	-0.23863	0.279579	-0.24587	0.85726	0.05721	0.966967	0.051761
PRDM15	-0.10559	-0.16461	0.114973	-0.19851	0.434391	0.225377	0.39442	0.138804	-0.15764	-0.15184	-0.01712	-0.24405	0.147704	0.156882	0.455573	0.051079
PRDM14	-0.02085	-0.05671	0.165923	-0.19239	0.877677	0.678011	0.217387	0.151633	0.025357	-0.2676	0.094386	-0.25022	0.566423	0.036095	0.731291	0.046755
FIGNL1	-0.06246	0.393104	-0.28669	0.158411	0.644414	0.002726	0.030611	0.239223	-0.15661	0.592461	-0.28857	0.43828	0.149317	0.999993	0.027277	0.998842
SECTM1	-0.14724	0.030419	0.081348	0.135844	0.274396	0.823886	0.547468	0.313668	-0.00324	0.148999	0.037827	0.113256	0.491484	0.838492	0.59743	0.773196
ANO3	0.174028	-0.21545	0.13574	-0.40064	0.195432	0.110769	0.314041	0.002014	0.04099	-0.41275	0.150117	-0.40912	0.605397	0.002418	0.83463	0.002631
TRAPPC2	-0.03108	0.337601	-0.27694	0.023265	0.818482	0.010941	0.037026	0.863609	0.209354	0.304314	0.031878	0.261805	0.918697	0.980119	0.582339	0.96059
BLK	-0.05103	-0.22841	0.134934	0.118906	0.70877	0.093493	0.321431	0.382747	0.150662	-0.41908	0.151624	-0.36504	0.838396	0.002083	0.837073	0.006839
SEL1L	0.024465	0.161373	-0.15207	0.496185	0.856646	0.234765	0.258802	8.67E-05	-0.0396	0.488237	-0.13159	0.421961	0.396927	0.999712	0.194449	0.998255
MYO1G	-0.15986	-0.24557	-0.04147	0.522115	0.234912	0.068113	0.759388	3.11E-05	-0.2365	-0.11275	-0.05607	0.100874	0.058897	0.230432	0.358859	0.745158
SELE	0.070912	-0.00472	0.023195	0.250671	0.606924	0.973002	0.86651	0.064904	0.003372	0.094364	0.061012	0.208539	0.508872	0.733616	0.654734	0.917857
SELL	-0.08089	-0.5234	-0.01982	0.161605	0.553406	4.13E-05	0.884722	0.234084	-0.12779	-0.49315	0.058593	-0.39905	0.198679	0.000249	0.648888	0.003006
SELP	0.153306	-0.07307	0.044299	0.467463	0.254897	0.592502	0.743515	0.000246	0.132083	0.036818	0.197079	0.28856	0.809218	0.595966	0.90279	0.974103
SELPLG	-0.18226	-0.43452	0.005086	0.226356	0.174807	0.000819	0.970047	0.090429	-0.29652	-0.30193	-0.12486	-0.19164	0.022696	0.020712	0.206903	0.101002
SEMA3F	-0.01665	0.270279	-0.16847	-0.00122	0.902172	0.043943	0.210296	0.99284	-0.07929	0.618669	-0.20076	0.412405	0.300216	0.999998	0.093028	0.997801
SEMG1	0.206338	-0.05919	0.299415	-0.32539	0.127075	0.667729	0.024976	0.014403	0.181459	-0.41011	0.289417	-0.45317	0.883555	0.002571	0.971643	0.000886
TSPYL2	0.340239	-0.37071	0.381249	0.146596	0.010296	0.005334	0.003743	0.28098	0.456653	-0.39516	0.216212	-0.29911	0.999083	0.003969	0.918122	0.024284
RBM26	0.089249	0.201959	-0.10089	0.142381	0.509121	0.135524	0.455225	0.290726	0.237446	0.293732	-0.04241	0.233309	0.943963	0.976222	0.391048	0.940674
PRSS22	-0.15128	0.004967	-0.03171	-0.09013	0.261299	0.971017	0.814882	0.50491	-0.24919	0.306712	-0.24042	0.075758	0.047458	0.980925	0.055822	0.691602
PERP	0.058705	0.40647	-0.26243	-0.00707	0.6703	0.002074	0.052917	0.959132	-0.0478	0.677208	-0.36054	0.336196	0.377583	1	0.008104	0.988026
MMP27	0.154353	0.201997	0.106464	-0.10496	0.251627	0.135449	0.430567	0.437126	-0.07223	0.043757	-0.09672	-0.01047	0.316665	0.613613	0.263689	0.472479
NPAS3	0.146517	-0.29314	0.220329	-0.16261	0.276791	0.028336	0.099578	0.226831	0.060193	-0.35129	0.170553	-0.27106	0.65276	0.008986	0.865828	0.035849
SEMG2	0.170865	-0.12256	0.310962	-0.26669	0.203802	0.368201	0.018553	0.044926	-0.01547	-0.34535	0.057252	-0.3417	0.459818	0.010077	0.643987	0.0108
CDH23	0.141226	-0.38999	0.193471	-0.19413	0.29917	0.003247	0.153095	0.151672	0.169872	-0.57754	0.172845	-0.50058	0.867703	1.64E-05	0.869066	0.000231
C19orf33	-0.13559	0.117683	-0.12232	-0.21737	0.314565	0.387696	0.364711	0.104321	-0.20492	0.206192	-0.23793	-0.02064	0.085952	0.915403	0.057761	0.445858
LHPP	-0.15079	0.003735	-0.02294	-0.32582	0.262864	0.978207	0.865487	0.013389	-0.38148	0.195302	-0.23199	0.017546	0.00445	0.903322	0.062587	0.54607
SLC28A3	-0.07213	-0.41763	0.211904	0.113151	0.597315	0.001512	0.116917	0.406357	-0.08561	-0.55039	0.151129	-0.36486	0.28579	3.70E-05	0.839153	0.006331
RBKS	-0.16346	-0.06415	-0.10923	-0.26543	0.22439	0.638562	0.418636	0.045989	-0.38435	-0.11111	-0.04434	-0.01264	0.004179	0.231126	0.386213	0.466769
PBLD	-0.20385	0.019238	-0.04324	-0.12001	0.131828	0.889126	0.751669	0.378329	-0.33238	-0.13168	-0.05374	-0.21451	0.012009	0.191516	0.362952	0.076133
GOLPH3	-0.07997	0.231195	-0.11528	0.186557	0.554304	0.086456	0.393143	0.164679	0.110845	0.182187	0.066071	0.109575	0.768332	0.88721	0.666846	0.765745
CLSTN2	0.157398	-0.08445	0.184472	-0.2576	0.246648	0.539861	0.173501	0.055274	-0.05993	-0.45732	0.033115	-0.31861	0.346182	0.000699	0.585486	0.015461
MCCC2	-0.08296	0.347835	-0.31567	0.109462	0.543271	0.009264	0.017791	0.421928	-0.04745	0.628288	-0.2769	0.296865	0.37709	0.999999	0.032778	0.977435
SNX16	-0.03499	0.217436	-0.294	0.102674	0.796096	0.107448	0.026433	0.447247	-0.05118	0.441973	-0.07831	0.315134	0.367765	0.998948	0.304562	0.983546
GAL3ST2	-0.11975	0.017758	-0.03243	-0.23711	0.374925	0.896644	0.81071	0.075751	-0.26213	0.008631	-0.17272	-0.15633	0.039218	0.522699	0.128275	0.149745
POPDC2	0.034822	-0.11247	0.184358	0.155396	0.798887	0.413634	0.173773	0.252783	-0.04743	-0.28908	0.095674	-0.24752	0.377126	0.025679	0.734074	0.048613
SAMSN1	-0.03704	-0.14378	-0.13097	0.515257	0.784424	0.290416	0.331509	4.11E-05	-0.30524	0.229832	-0.04583	0.414333	0.020728	0.935592	0.383852	0.99767
SMOC1	0.104561	-0.20191	0.244781	-0.22509	0.438899	0.135631	0.066485	0.092288	0.425976	-0.50988	0.459654	-0.40022	0.99842	0.000148	0.999255	0.002926
SMOC2	0.36765	-0.21454	0.225557	0.191834	0.004901	0.112324	0.091602	0.152849	0.375284	-0.18425	0.338142	0.008111	0.994461	0.112829	0.987616	0.521085
GFRA4	0.0359	-0.15558	0.284957	-0.18042	0.790915	0.25221	0.031676	0.179266	0.189957	-0.42962	0.180549	-0.35146	0.896965	0.001443	0.882359	0.008308
EPB41L4A	-0.14407	0.151395	-0.10048	-0.0115	0.284977	0.265358	0.457077	0.932327	-0.10414	0.20943	-0.02188	0.030314	0.2455	0.918775	0.443279	0.579255

PARVG	-0.22217	-0.36879	0.086261	0.596355	0.096713	0.00516	0.523463	9.83E-07	-0.27465	-0.22001	-0.07781	-0.02948	0.03236	0.070894	0.305715	0.422906
BLM	0.062768	0.171275	-0.16765	0.120306	0.645825	0.211192	0.216821	0.37713	0.013309	0.096517	-0.02536	0.072504	0.534978	0.738291	0.434318	0.683974
ELSPBP1	-0.0429	-0.00595	0.094263	-0.20468	0.751349	0.965301	0.485516	0.126686	0.17679	-0.35155	0.13002	-0.43928	0.877332	0.008941	0.799884	0.001268
LRRC4	-0.211	0.26443	-0.12819	-0.28129	0.11514	0.048908	0.341942	0.034036	-0.31339	0.283757	-0.19398	0.074104	0.01697	0.972001	0.100837	0.687735
TNMD	-0.05324	-0.12693	0.081878	-0.13284	0.694056	0.351236	0.544857	0.324601	0.056463	-0.32835	0.109951	-0.38958	0.645317	0.012944	0.76393	0.003724
CENPK	-0.07746	0.301202	-0.30164	-0.21605	0.566815	0.024082	0.022593	0.106495	-0.25783	0.36347	-0.22716	0.253069	0.041818	0.993484	0.066724	0.955143
NPFFR1	-0.01473	-0.11423	0.205063	-0.07772	0.91338	0.401879	0.125965	0.565546	0.028881	-0.40042	0.159139	-0.2778	0.575553	0.002913	0.851797	0.030794
RTP4	-0.28093	-0.07898	-0.20079	0.235969	0.035963	0.56651	0.137855	0.079976	-0.2709	0.118765	-0.00526	0.344236	0.035934	0.781432	0.486473	0.989707
MAGEF1	-0.17198	0.175948	-0.0302	-0.0476	0.200814	0.194588	0.823557	0.725142	0.039199	0.291818	0.124514	0.226947	0.602045	0.975455	0.792446	0.935333
NPVF	0.115678	-0.22889	0.052308	-0.21193	0.39151	0.089734	0.699179	0.113503	-0.04893	-0.32098	0.140693	-0.22108	0.374792	0.015785	0.818833	0.072222
MOAP1	-0.04587	0.0776	0.026644	0.034524	0.734767	0.569717	0.844033	0.798758	0.281308	-0.0925	-0.04581	0.029988	0.970878	0.270471	0.382549	0.578414
TMBIM1	0.141692	0.150299	-0.06073	0.162528	0.29756	0.273393	0.656606	0.231388	0.028216	0.571243	-0.10677	0.39339	0.573832	0.999983	0.242562	0.996582
C10orf54	-0.02821	-0.14265	-0.0158	0.016194	0.834988	0.294276	0.907148	0.904833	-0.03644	0.022721	-0.01214	-0.1805	0.404998	0.559571	0.468446	0.114986
SLC39A8	0.121908	-0.00996	0.148113	0.174486	0.366329	0.941901	0.271536	0.194239	0.28019	-0.14959	0.192236	-0.05664	0.970354	0.160533	0.897084	0.354239
DUS1L	-0.07881	0.096775	-0.04148	0.003208	0.560073	0.477996	0.759316	0.981102	-0.06697	0.301117	-0.23717	0.126137	0.329174	0.979001	0.058359	0.798227
RRAGC	0.014964	0.149352	-0.26484	0.318717	0.91203	0.271936	0.046495	0.015678	0.011892	0.414836	0.08605	0.275264	0.5309	0.997697	0.710687	0.966383
FN3K	0.215341	-0.35612	0.358327	-0.21892	0.107681	0.007064	0.006202	0.10182	0.081987	-0.52886	0.291965	-0.47846	0.705977	7.89E-05	0.974178	0.000385
ELTD1	0.244087	-0.17992	0.015632	0.430348	0.067284	0.184544	0.908121	0.000834	0.363734	-0.21465	0.25219	0.13333	0.993519	0.076002	0.952666	0.811477
NOD2	-0.06502	-0.30828	0.084766	0.000736	0.63088	0.020804	0.53071	0.995665	-0.15263	-0.24439	0.187863	-0.09335	0.15843	0.052838	0.888991	0.270961
TINAGL1	0.159911	-0.19535	0.199723	0.280651	0.234748	0.149069	0.13635	0.034462	0.348464	-0.05315	0.127232	0.097655	0.991184	0.362875	0.797542	0.740745
LIN7B	-0.12378	-0.09397	0.129379	-0.15865	0.358958	0.490882	0.337462	0.238503	0.020628	-0.3054	0.025786	-0.22971	0.554118	0.019512	0.566764	0.062309
XYLT1	0.369163	-0.10766	0.255328	0.089011	0.005112	0.434	0.057536	0.514163	0.384439	-0.04174	0.321292	-0.15093	0.995438	0.39272	0.983273	0.161175
C15orf45	-0.09002	-0.13656	0.0288	-0.19621	0.505457	0.315586	0.831589	0.143523	0.014164	-0.16947	-0.0791	-0.37833	0.537217	0.130094	0.302751	0.004765
XYLT2	-0.08101	-0.0343	-0.03138	-0.05347	0.549145	0.801867	0.816736	0.692847	-0.07083	0.161168	0.104585	0.063284	0.32191	0.854895	0.750359	0.660193
ZNF674	-0.00646	0.222324	0.034761	-0.17033	0.96199	0.099583	0.797407	0.205232	-0.10654	0.020128	0.021515	-0.25927	0.240496	0.552812	0.555781	0.040935
IFIH1	0.032766	-0.05621	-0.0566	0.372858	0.810536	0.683583	0.678648	0.004653	-0.09004	0.246786	0.156869	0.285784	0.278195	0.948901	0.845401	0.971483
LOC641367	-0.05692	-0.11684	0.049865	-0.34568	0.674053	0.39113	0.712602	0.008444	0.006001	-0.40818	0.119468	-0.39561	0.515787	0.002431	0.782795	0.003251
ABCG4	0.05113	-0.20842	0.319757	-0.21266	0.705642	0.123198	0.015323	0.112237	0.15124	-0.37483	0.120047	-0.284	0.842146	0.005135	0.783915	0.027891
ACOT1	-0.03061	-0.02672	0.117009	-0.18819	0.82119	0.845021	0.386048	0.160942	-0.01956	-0.35319	0.041068	-0.37673	0.448671	0.008027	0.605593	0.004931
ACOT6	0.052689	-0.08753	0.082815	-0.45088	0.699747	0.525136	0.543986	0.000488	0.109198	-0.35296	0.355583	-0.29869	0.762402	0.008698	0.991076	0.023127
TMEM75	0.091814	-0.24598	0.261357	-0.00042	0.500946	0.07025	0.051694	0.997525	0.157399	-0.2648	0.248184	-0.15169	0.851916	0.037667	0.949897	0.157128
SEPP1	0.173061	0.056924	-0.18213	0.209956	0.197963	0.676888	0.175115	0.116988	0.158526	0.202124	0.032049	0.330449	0.853659	0.911025	0.582775	0.98755
ZFYVE20	-0.17084	0.302224	-0.32344	0.30425	0.203866	0.023583	0.01412	0.021392	-0.16012	0.275809	-0.27546	0.238273	0.146707	0.966664	0.035163	0.942511
SNORA19	0.014864	0.247082	-0.16315	0.208788	0.912614	0.066377	0.22528	0.119086	0.063705	0.329947	-0.27559	0.160137	0.661201	0.986567	0.035094	0.853325
PDF	-0.14745	-0.1828	0.151997	-0.12659	0.273723	0.177489	0.259022	0.348067	0.063311	-0.34716	0.225644	-0.22666	0.662026	0.009045	0.931937	0.064919
KIF9	-0.1687	-0.17593	0.047519	-0.32971	0.209686	0.194645	0.72558	0.012259	-0.241	-0.32064	0.106667	-0.19135	0.053321	0.014907	0.757224	0.101355
C17orf75	-0.07543	0.147389	-0.23928	0.039666	0.577065	0.278359	0.073028	0.769556	-0.22928	0.371066	-0.19156	0.259476	0.062667	0.994438	0.103726	0.959192
SEPW1	-0.03947	-0.20768	-0.01252	-0.15929	0.770653	0.124573	0.926335	0.236587	-0.19499	-0.02372	-0.07838	0.162948	0.09964	0.438535	0.306514	0.857577
NCAPG	0.007554	0.23808	-0.12298	-0.13953	0.955934	0.080056	0.366538	0.305074	-0.20307	0.65076	-0.22309	0.374954	0.087947	1	0.070367	0.994878
LOC641515	-0.08568	-0.03294	0.188611	-0.18783	0.530074	0.811315	0.163883	0.165666	-0.06734	-0.27421	0.002047	-0.21682	0.330152	0.034167	0.505261	0.076265
MAP2K4	-0.05296	0.293197	-0.24802	0.117533	0.695607	0.028304	0.062858	0.383907	-0.13359	0.470907	-0.20716	0.411922	0.188054	0.999522	0.086063	0.997775
IFRG15	0.045077	0.259756	-0.14333	0.136232	0.73917	0.053196	0.2875	0.312275	0.029249	0.364171	-0.04573	0.295856	0.576503	0.993578	0.382736	0.97705
TMEM91	-0.14875	-0.34994	0.012679	-0.35555	0.269453	0.008197	0.925421	0.006644	0.034883	-0.55846	0.135825	-0.43927	0.591011	2.75E-05	0.81317	0.001129
HEPN1	0.066635	-0.20166	0.235431	-0.2743	0.625585	0.13983	0.080688	0.040778	0.231295	-0.37046	0.157144	-0.29963	0.93902	0.005633	0.84871	0.021537
ERAP2	-0.00625	0.022977	-0.04422	0.296963	0.963188	0.866517	0.743961	0.024883	0.047877	0.285234	0.105953	0.457598	0.622597	0.971233	0.753174	0.999212
NECAB1	0.167768	-0.09672	0.216742	-0.30338	0.212241	0.47824	0.105355	0.021786	0.225486	-0.37088	0.310089	-0.36653	0.934058	0.005584	0.980914	0.006116
CARD9	0.028042	-0.20146	0.283199	-0.21743	0.835963	0.136516	0.03279	0.104232	0.168762	-0.43593	0.23478	-0.3452	0.868891	0.001229	0.939719	0.009398
OSGEPL1	0.125302	0.163347	-0.07777	0.157973	0.357489	0.233414	0.568854	0.244903	-0.06403	0.0222	0.049846	0.041618	0.336236	0.558214	0.627475	0.608194
SPATA1	0.05661	0.037145	0.112022	-0.06403	0.675757	0.78578	0.406751	0.636064	0.110674	-0.28983	0.127533	-0.15665	0.767985	0.025362	0.798102	0.149247
FLJ44124	0.096687	-0.03302	0.072504	0.019963	0.474315	0.809124	0.591978	0.882824	0.127781	-0.15944	0.044443	-0.20648	0.801302	0.14493	0.614047	0.084295

DPEP2	-0.10347	-0.45839	0.132837	0.019137	0.443716	0.000381	0.324598	0.887641	-0.02795	-0.5777	0.174703	-0.44071	0.426867	1.31E-05	0.874478	0.001087
LEPRE1	0.073421	-0.29916	0.267266	-0.03501	0.587288	0.025104	0.044449	0.79601	-0.03598	-0.00768	0.006682	0.081395	0.407243	0.480031	0.517169	0.702474
SET	0.065389	0.318392	-0.33902	0.241668	0.628913	0.01678	0.009889	0.070128	-0.04692	0.596172	-0.15677	0.462084	0.37843	0.999994	0.151874	0.999387
DPEP3	0.028746	-0.18377	0.218991	-0.16327	0.831904	0.175175	0.101704	0.224944	0.106594	-0.40991	0.155072	-0.30887	0.759617	0.002334	0.845459	0.018373
FAM12B	0.070918	-0.06201	0.289045	-0.25541	0.600129	0.649831	0.029208	0.055167	0.080816	-0.32892	0.215694	-0.274	0.703297	0.012809	0.922634	0.032687
SETMAR	0.121554	0.112766	0.111159	0.033514	0.367733	0.407967	0.410396	0.804527	0.262185	0.086311	-0.00292	0.04081	0.960815	0.715779	0.492409	0.606144
BLMH	0.081533	0.324605	-0.32332	0.066229	0.546555	0.014654	0.014159	0.624503	-0.13574	0.543295	-0.17378	0.466232	0.184194	0.999952	0.126801	0.999454
C14orf4	0.024935	-0.10767	0.16201	-0.0283	0.853927	0.429608	0.228579	0.8345	-0.1159	-0.04311	0.028116	-0.11108	0.221532	0.388032	0.572734	0.231196
POPDC3	0.135128	-0.03291	0.150505	-0.45811	0.325294	0.813265	0.27273	0.000436	0.065526	-0.35644	0.178178	-0.24512	0.667367	0.00752	0.879204	0.050309
SFPQ	0.062753	0.188369	-0.09718	0.213719	0.642835	0.164433	0.472058	0.110422	0.177611	0.280906	-0.10426	0.209314	0.881175	0.97069	0.247761	0.918656
MMS19	-0.12975	0.188991	-0.19437	0.091687	0.336061	0.16302	0.147381	0.497573	0.015652	0.296548	-0.21332	0.213543	0.540641	0.97604	0.082215	0.920507
LHX5	-0.01484	-0.1008	0.184865	-0.16429	0.91277	0.459783	0.168612	0.222018	0.025239	-0.31311	0.172362	-0.21245	0.566117	0.017054	0.871225	0.078172
LOC642131	0.109063	-0.06363	0.210452	0.609265	0.419335	0.641315	0.116106	4.92E-07	-0.28514	0.226444	0.020683	0.382422	0.027381	0.934896	0.553638	0.99564
DNAJC1	0.048946	0.178477	0.08202	0.27701	0.717679	0.18815	0.544156	0.036973	0.141072	0.371569	0.012986	0.299552	0.822346	0.994016	0.533338	0.9772
TFB2M	-0.19944	0.2324	-0.39624	0.118545	0.140573	0.087748	0.002502	0.384204	-0.22149	0.593583	-0.23993	0.417282	0.069528	0.999993	0.056202	0.998044
SEMA4A	0.080548	0.264385	-0.1239	-0.06596	0.555105	0.05111	0.362952	0.629111	-0.04866	0.491047	-0.18024	0.286019	0.37547	0.999693	0.120839	0.971589
PJA1	0.211022	0.151833	-0.02315	-0.01245	0.118485	0.268472	0.865519	0.927435	0.213792	0.191587	0.016669	0.151193	0.923161	0.898934	0.543273	0.842069
SFRP1	0.230685	-0.31438	0.215835	0.058594	0.084273	0.018287	0.106856	0.665051	0.537762	-0.51179	0.301078	-0.40366	0.999942	0.000139	0.977771	0.002702
STRA6	-0.1492	-0.0713	0.130576	0.055778	0.267991	0.601519	0.332974	0.68026	-0.24036	-0.11875	0.027434	-0.24234	0.053803	0.215918	0.570986	0.052331
ROBO3	-0.01983	-0.20991	0.163236	-0.104	0.883593	0.120481	0.225031	0.441365	0.149717	-0.30197	0.115577	-0.2069	0.839668	0.020695	0.775185	0.083846
TOR3A	-0.11779	0.070955	-0.02164	0.237835	0.382861	0.603303	0.873052	0.074832	-0.25352	0.518489	-0.37921	0.351881	0.044562	0.999888	0.0051	0.991761
GBL	-0.04537	0.050933	-0.03512	-0.09522	0.737525	0.709303	0.795351	0.481083	-0.20678	0.259138	-0.13733	0.108571	0.083977	0.958986	0.184167	0.763692
HERPUD2	0.044733	0.201254	-0.20812	0.340004	0.741091	0.136923	0.1203	0.009662	0.17814	0.374641	-0.09808	0.334979	0.881883	0.994844	0.260763	0.988565
ATL2	0.149733	0.248706	-0.13483	0.177451	0.266268	0.064555	0.317313	0.18665	0.167697	0.384916	-0.14984	0.250605	0.867357	0.995872	0.16295	0.953505
FAM110C	-0.10933	0.027803	0.079273	-0.06597	0.418198	0.838818	0.557769	0.62586	-0.07952	-0.01044	-0.14814	-0.04942	0.299685	0.472562	0.165726	0.372148
ZNF732	0.351672	-0.27536	0.285573	0.030371	0.007307	0.039977	0.031293	0.82255	0.261647	-0.45009	0.282494	-0.22157	0.960497	0.000849	0.96996	0.06945
SFRP2	0.280444	0.128907	0.012565	0.325921	0.034601	0.343713	0.926092	0.013357	0.284151	0.330899	0.324571	0.329484	0.970735	0.986799	0.984205	0.986453
MS4A6A	0.066524	-0.12177	-0.01174	0.479893	0.622959	0.371327	0.930917	0.000158	-0.20672	-0.18657	0.113435	0.107412	0.086529	0.109881	0.768267	0.758754
FLJ43763	0.093013	-0.16307	0.245968	-0.0975	0.491346	0.229827	0.065136	0.470597	-0.10028	-0.29614	0.102512	-0.17269	0.253639	0.022841	0.748598	0.12555
MS4A5	0.089214	-0.12278	0.051341	-0.27599	0.509288	0.367329	0.704481	0.037706	0.19904	-0.26002	0.153716	-0.20551	0.907599	0.040477	0.843308	0.085317
CCNYL3	-0.06028	-7.04E-05	-0.0096	-0.36916	0.656008	0.999589	0.943472	0.004714	0.061172	-0.29479	-0.01047	-0.44019	0.656839	0.023361	0.472799	0.001102
PDLIM2	0.01078	0.156493	0.003439	-0.04396	0.936568	0.249408	0.979746	0.745439	0.140958	0.142105	-0.0556	-0.06221	0.824948	0.826923	0.358385	0.340635
SFRP4	0.306283	-0.19782	0.135102	0.374279	0.020495	0.143899	0.316343	0.004128	0.058945	0.176049	0.330852	0.402506	0.651407	0.879066	0.986787	0.997224
ABCG5	-0.07919	-0.10202	0.123323	-0.23182	0.558177	0.454355	0.36075	0.082709	0.113979	-0.36924	0.168293	-0.34319	0.774644	0.00578	0.865438	0.009773
ABCG8	0.080219	-0.14376	0.183691	-0.20048	0.553061	0.29049	0.171381	0.134832	0.117573	-0.33224	0.094932	-0.32991	0.781769	0.012039	0.732472	0.012576
ADH5P4	0.058222	-0.16001	-0.01764	-0.04697	0.667054	0.238785	0.896391	0.728613	0.105734	-0.06083	0.117876	0.003534	0.757835	0.344001	0.7797	0.509298
C8orf73	0.025826	0.026268	0.135556	-0.17465	0.848765	0.847606	0.314704	0.193822	-0.02575	-0.01197	0.064452	-0.10861	0.432563	0.468538	0.662986	0.236231
FLJ45743	0.059556	-0.02615	0.136625	-0.13527	0.659889	0.848291	0.310867	0.31575	0.237454	-0.4817	0.35234	-0.26202	0.943969	0.00035	0.991195	0.039285
SFRP5	0.017315	-0.19205	0.264375	-0.13652	0.898275	0.156187	0.046892	0.311228	0.370588	-0.49109	0.203073	-0.44919	0.994382	0.000265	0.909537	0.00087
hCG_17765	0.087215	0.044463	-0.23186	0.075765	0.518862	0.744891	0.082661	0.57538	-0.26001	0.324388	-0.20937	0.278666	0.040482	0.986076	0.08374	0.969626
LOC642513	0.090155	0.145201	-0.08551	0.029019	0.504815	0.285634	0.527109	0.830328	0.048115	0.060103	-0.0074	0.017743	0.62458	0.654236	0.480758	0.546584
LOC642533	0.135238	0.17819	0.116143	0.133236	0.31585	0.188874	0.389596	0.323135	0.319426	-0.10146	0.122563	-0.17942	0.984763	0.251142	0.788744	0.116409
LOC642587	0.140686	0.296998	-0.15612	0.101384	0.301041	0.026228	0.250558	0.457182	-0.06301	0.554182	-0.18488	0.437513	0.338706	0.999968	0.112026	0.998819
SFRS1	-0.04113	0.260145	-0.14925	0.219459	0.761278	0.052828	0.267819	0.100957	0.148448	0.366151	-0.15128	0.297923	0.837585	0.993836	0.160605	0.977833
LOC642648	-0.00086	-0.2717	0.267889	-0.17777	0.994921	0.042802	0.043936	0.185836	0.163063	-0.4579	0.254837	-0.35862	0.860547	0.000687	0.95443	0.007196
hCG_19838	-0.00179	-0.11359	0.228651	-0.14813	0.989656	0.413463	0.093132	0.28045	0.122785	-0.21625	-0.04295	-0.22812	0.791871	0.074445	0.389692	0.063655
SFRS2	-6.64E-05	0.343096	-0.18495	0.363824	0.999609	0.009634	0.168407	0.005403	0.16259	0.53647	-0.15884	0.353553	0.859839	0.999939	0.148663	0.992031
FLJ32756	-0.01395	-0.14333	0.141449	-0.29677	0.91796	0.291952	0.293927	0.024982	0.039377	-0.1756	0.054615	-0.4288	0.602499	0.12154	0.639201	0.001473
LOC642776	-0.07704	-0.06883	0.215032	-0.19031	0.568951	0.614215	0.108199	0.156209	0.051664	-0.3787	0.075238	-0.2576	0.633442	0.004727	0.688359	0.041962
SFRS3	0.018779	0.205149	-0.22552	0.235991	0.889729	0.129329	0.091662	0.077182	0.060486	0.468346	-0.23999	0.383321	0.655169	0.999486	0.056154	0.995725

ZNF487	-0.1615	-0.02273	-0.03147	-0.16992	0.230083	0.867915	0.816224	0.206358	-0.22398	-0.0772	-0.01636	-0.08671	0.067274	0.305033	0.457517	0.28332
PAPD5	-0.14487	0.167269	-0.23585	-0.04967	0.282289	0.217875	0.077369	0.713674	-0.34814	0.264785	-0.04871	0.225937	0.009552	0.960607	0.376763	0.932197
RGNEF	-0.03953	0.240055	-0.14846	-0.33833	0.770304	0.074741	0.27039	0.010049	0.064815	0.102403	-0.05213	-0.16571	0.663853	0.748372	0.36842	0.138332
RAB17	-0.14849	-0.23737	0.158566	-0.12938	0.270291	0.078146	0.238759	0.337479	-0.05736	-0.27821	0.040501	-0.36538	0.352474	0.030593	0.604169	0.006264
CPSF4L	-0.00127	-0.01339	0.041297	-0.2159	0.992491	0.921955	0.760361	0.106747	-0.06528	0.018052	-0.13238	-0.12092	0.333234	0.547392	0.193003	0.211704
RHBDF1	0.098763	0.021776	0.119484	0.004277	0.464833	0.87343	0.376008	0.974811	0.183758	-0.02123	0.037951	-0.05351	0.889232	0.444324	0.597741	0.361962
LOC642864	-0.00348	-0.3425	0.119508	-0.22221	0.97953	0.00977	0.37591	0.096655	0.030078	-0.43838	0.07365	-0.20473	0.578646	0.001155	0.684674	0.086156
ZNF323	-0.01783	0.442811	-0.3219	-0.05853	0.895281	0.000632	0.014614	0.665381	-0.2884	0.694183	-0.28456	0.459964	0.025966	1	0.029075	0.99935
RPS29P3	0.112106	-0.00128	-0.10441	-0.03895	0.406398	0.992506	0.43958	0.773617	0.056428	0.064622	-0.21222	-0.00301	0.645231	0.66519	0.080827	0.492089
SFRS4	-0.0351	0.275356	-0.05964	-0.02607	0.795485	0.039976	0.659453	0.847368	0.105425	0.118041	0.094151	-0.02432	0.757192	0.782686	0.730782	0.436281
C10orf141	-0.10622	-0.05426	0.107048	-0.10967	0.431619	0.691239	0.428026	0.41672	-0.2086	-0.28406	-0.1153	-0.18879	0.08709	0.030833	0.230779	0.109851
LQK1	0.055794	0.076202	0.183107	-0.12993	0.680176	0.57671	0.172768	0.335378	-0.19559	0.176145	-0.11968	0.101447	0.096346	0.879197	0.216795	0.748841
FAM163B	-0.15281	-0.10448	0.172422	-0.17954	0.256442	0.443476	0.199652	0.181436	0.121597	-0.5068	0.15325	-0.43258	0.786898	0.000191	0.839685	0.0015
NCRNA001	-0.04858	0.000656	0.194593	-0.01112	0.719722	0.99617	0.146918	0.934567	-0.13027	0.001926	-0.08123	-0.04611	0.194089	0.505068	0.297904	0.380456
FLJ43080	-0.0577	-0.08976	-0.00707	-0.14867	0.669873	0.510628	0.958387	0.26971	-0.09667	-0.23765	0.114	-0.18	0.261374	0.05588	0.772061	0.115643
CXCR5	0.016459	-0.2382	0.12922	0.02651	0.903281	0.077085	0.338064	0.84481	-0.07626	-0.3454	0.11792	-0.10064	0.307233	0.009362	0.779785	0.252869
SFRS5	0.088465	0.075617	-0.03436	0.074781	0.512863	0.579649	0.799691	0.580364	0.274739	-0.01563	0.049149	-0.02805	0.967686	0.458954	0.62575	0.426609
LOC643008	-0.27713	-0.11512	-0.09301	-0.35918	0.036888	0.398173	0.491349	0.006071	-0.00528	-0.39582	0.200808	-0.33371	0.486111	0.003235	0.907028	0.011713
LOC643015	-0.01624	0.15291	-0.13994	0.005241	0.904563	0.260549	0.299161	0.969136	-0.12637	0.079596	-0.34766	-0.03119	0.201335	0.700494	0.00964	0.418474
UNQ9368	0.051088	-0.31438	0.192914	-0.16237	0.705868	0.018288	0.150505	0.22754	0.222676	-0.45874	0.234702	-0.44183	0.931551	0.000672	0.939656	0.001056
SFRS6	0.051641	0.168185	-0.10814	0.332906	0.702833	0.215328	0.423287	0.011395	0.137763	0.299984	-0.05628	0.289322	0.81938	0.978593	0.356728	0.974424
C5orf43	-0.06324	0.367919	-0.24417	0.167755	0.640231	0.005275	0.067193	0.212277	-0.00933	0.585657	-0.15307	0.403404	0.475466	0.99999	0.157722	0.997282
DKFZP779L	0.029386	-0.12823	0.010351	-0.22296	0.828216	0.346271	0.939088	0.095494	0.381832	-0.37105	0.302959	-0.29325	0.995584	0.005564	0.97846	0.02397
NOC3L	0.036153	0.278392	-0.22559	0.268053	0.789478	0.037749	0.091552	0.043802	0.101607	0.528555	-0.11295	0.401513	0.749178	0.99992	0.230033	0.99716
FBR5	-0.14545	-0.12286	0.138885	-0.19296	0.280335	0.366995	0.302855	0.150396	-0.05635	-0.24221	0.110404	-0.19532	0.354962	0.052422	0.764848	0.096651
SFRS7	-0.02724	0.200013	-0.1948	0.233873	0.842028	0.143165	0.15024	0.082773	0.140521	0.25231	-0.13538	0.179252	0.824194	0.954643	0.187615	0.883364
RNF25	-0.24461	0.236695	-0.20868	-0.04462	0.066682	0.079026	0.119287	0.741707	-0.06534	0.3228	-0.1362	0.249714	0.333073	0.985666	0.18617	0.952902
RPL36P8	0.005603	-0.14838	0.240622	-0.18865	0.967005	0.275107	0.071388	0.1599	0.260763	-0.31798	0.201791	-0.25676	0.95997	0.015639	0.908123	0.042491
SOX17	0.092148	-0.21053	0.305765	-0.06282	0.495401	0.119369	0.020721	0.642488	0.160079	-0.43057	0.331166	-0.26708	0.856041	0.001409	0.986863	0.036379
FLJ40292	-0.08098	0.060375	0.07153	-0.15899	0.552969	0.658475	0.600364	0.241829	0.135404	-0.32843	0.201916	-0.32245	0.8152	0.012926	0.908261	0.014425
LOC643224	-0.13172	-0.31376	0.100851	-0.26202	0.328701	0.018532	0.455399	0.048964	-0.22699	-0.45039	0.0592	-0.22865	0.064632	0.000842	0.650359	0.0632
LOC643233	-0.10909	-0.00593	0.179911	-0.37327	0.419199	0.965416	0.180518	0.004239	0.344397	-0.22632	0.249425	-0.29301	0.990454	0.06521	0.950768	0.024067
TMEM72	-0.01098	-0.08956	0.234034	-0.27261	0.935404	0.511575	0.07974	0.040205	0.03308	-0.39344	0.19716	-0.41695	0.586382	0.003415	0.902884	0.001972
NSD1	0.131992	0.250105	-0.19707	0.144773	0.327711	0.063018	0.14175	0.282613	0.087953	0.450908	-0.04716	0.383603	0.719459	0.999169	0.379181	0.995751
MAP1LC3B	0.100755	-0.07538	0.205592	-0.08225	0.455829	0.580837	0.12497	0.543038	0.18162	-0.28733	0.107334	-0.24688	0.886473	0.026424	0.758593	0.049061
RFWD2	-0.02307	0.2237	-0.23007	0.229945	0.864747	0.097451	0.085123	0.085301	-0.0297	0.376236	-0.20868	0.205862	0.422327	0.995017	0.084457	0.915054
LMBR1	-0.05138	0.333841	-0.22192	0.275017	0.704265	0.011921	0.097099	0.038411	-0.01145	0.410046	-0.25062	0.254648	0.469897	0.997674	0.048405	0.956169
XPO4	-0.03217	0.284191	-0.30672	0.212673	0.812203	0.033779	0.020308	0.112218	-0.00994	0.526889	-0.19494	0.402828	0.473865	0.999916	0.099704	0.997245
LOC643287	-0.07627	0.202017	-0.15526	-0.0067	0.572849	0.135411	0.24883	0.960522	-0.20354	0.516626	-0.18961	0.329683	0.087429	0.999881	0.106102	0.987371
SFRS8	-0.00188	-0.00032	0.164899	-0.08922	0.988941	0.998152	0.220277	0.509242	0.210142	-0.31143	0.153042	-0.25573	0.919503	0.017568	0.842232	0.043139
HSPD1P1	0.131636	0.127592	-0.07308	-0.22394	0.333507	0.353243	0.592449	0.097084	-0.18909	0.205065	-0.08028	0.332425	0.104092	0.914206	0.300053	0.988002
CT47.13	0.063557	-0.23327	0.151609	-0.13471	0.638575	0.083587	0.260256	0.317752	0.041879	-0.20801	0.314894	-0.20922	0.608857	0.082694	0.982435	0.081441
NFKBIZ	-0.01671	-0.05072	-0.14062	0.210824	0.901787	0.710447	0.296793	0.115447	-0.00364	0.256084	-0.06588	0.106998	0.490426	0.957086	0.333608	0.760454
ARHGAP9	-0.07604	-0.37686	0.124783	0.478015	0.573984	0.004198	0.355049	0.00017	-0.15341	-0.27103	0.174216	-0.11761	0.154372	0.034237	0.873807	0.218158
LOC64333C	-0.0062	-0.00011	0.072798	-0.18814	0.963506	0.99938	0.590474	0.161052	0.100041	-0.28054	0.119183	-0.25693	0.745855	0.029482	0.782243	0.042383
LOC643332	-0.00297	-0.14265	0.163093	-0.24716	0.982521	0.294284	0.225442	0.063805	0.137489	-0.41022	0.128013	-0.40178	0.818897	0.002316	0.798993	0.002823
C15orf62	-0.08735	-0.01662	0.103332	-0.2328	0.518192	0.903231	0.444328	0.081385	0.002273	-0.09669	0.029926	-0.1877	0.50598	0.261335	0.577359	0.105806
FLJ44054	-0.10983	-0.09172	0.172994	-0.07234	0.420373	0.501397	0.202306	0.596251	-0.01136	-0.30143	0.060324	-0.36157	0.470477	0.0221	0.651353	0.007335
SPINK9	-0.13485	-0.1243	-0.04228	-0.33011	0.317253	0.361378	0.754858	0.012148	-0.08781	-0.11261	-0.03399	-0.28448	0.280871	0.228097	0.412291	0.027676
TRA2B	0.130499	0.191667	-0.26663	0.325895	0.333261	0.157036	0.044976	0.013365	0.082093	0.600912	-0.25906	0.476082	0.706219	0.999995	0.042863	0.999588

LOC643406	-0.00924	-0.24713	0.216396	-0.28116	0.945622	0.066319	0.105926	0.034119	0.237351	-0.28395	0.229415	-0.28706	0.943888	0.027912	0.935235	0.026538
LIPK	-0.01135	-0.14216	0.133923	-0.10672	0.933244	0.295962	0.320622	0.429459	0.052034	-0.43639	0.127932	-0.30332	0.634363	0.001215	0.798842	0.020222
LIPN	-1.31E-05	-0.10479	0.009967	-0.13826	0.999923	0.442137	0.941343	0.30505	0.016003	-0.2675	0.079397	-0.03047	0.541549	0.037829	0.695782	0.421254
HS1BP3	-0.08892	-0.32724	0.28243	-0.23434	0.51068	0.013824	0.033287	0.07934	-0.14966	-0.4009	0.087671	-0.36871	0.160419	0.002881	0.716565	0.005844
LOC643428	0.015193	-0.14874	0.109216	-0.05626	0.910691	0.273922	0.418676	0.677674	-0.0832	-0.1175	0.021607	-0.10979	0.291255	0.218374	0.556017	0.233808
AZI2	-0.05154	0.217856	-0.20662	0.025645	0.703386	0.106754	0.123054	0.849814	0.016345	0.168232	-0.13587	0.14126	0.542928	0.86813	0.186758	0.825469
HIF3A	0.368745	-0.34313	0.311047	-0.14158	0.004765	0.009627	0.018519	0.293472	0.36813	-0.58845	0.332892	-0.40903	0.993578	1.06E-05	0.986377	0.002636
FLJ40606	0.03939	-0.05786	0.230163	-0.09255	0.771118	0.671894	0.084996	0.493516	0.121556	-0.296	0.237883	-0.21346	0.789513	0.022893	0.942204	0.077171
NXN	0.110138	0.046878	0.038185	0.304217	0.414736	0.731539	0.777937	0.021407	0.109264	0.317894	-0.0197	0.376953	0.76511	0.984337	0.448889	0.995093
MOP-1	-0.16518	-0.05997	-0.01587	-0.10648	0.219472	0.660615	0.906744	0.430514	0.082725	-0.26182	0.215887	-0.06149	0.705486	0.041159	0.920355	0.344115
ZNF862	-0.05968	0.001173	0.090614	-0.18516	0.65922	0.993153	0.50264	0.167922	-0.04893	-0.14787	-0.04007	-0.16517	0.373383	0.163377	0.396904	0.136335
hCG_20191	0.088809	-0.20181	0.25818	-0.1384	0.51512	0.139536	0.054709	0.309055	0.163468	-0.29826	0.152515	-0.20086	0.861151	0.022042	0.841388	0.090371
AMAC1L3	-0.02905	-0.03283	0.135748	-0.14374	0.830178	0.810154	0.314011	0.286086	0.136918	-0.30398	0.11042	-0.2923	0.81789	0.019997	0.764879	0.024352
LOC643695	0.097828	-0.13197	0.212588	-0.27211	0.473197	0.336843	0.115714	0.042481	0.086853	-0.46942	0.092034	-0.27814	0.716996	0.000499	0.726176	0.030627
LCAP	-0.06499	-0.17525	0.187254	-0.17645	0.631019	0.196389	0.163081	0.189194	0.005547	-0.43392	0.155032	-0.34416	0.514593	0.001294	0.845396	0.009591
SIL1	-0.13301	-0.0506	0.083597	0.033388	0.323955	0.711124	0.536412	0.805248	-0.34801	0.201026	-0.17168	0.216478	0.008895	0.909816	0.129731	0.925773
IKZF4	-0.14343	-0.0994	-0.06523	-0.19986	0.287164	0.466094	0.629776	0.136081	-0.25129	-0.13021	-0.16257	-0.11548	0.046033	0.194204	0.142986	0.22236
LOC643751	0.058691	0.152952	-0.06242	0.004309	0.664532	0.260415	0.64461	0.974621	-0.16063	0.263141	-0.1211	0.232698	0.143122	0.961376	0.214063	0.940175
hCG_17575	-0.03342	0.106633	-0.29006	0.227778	0.805063	0.434093	0.02862	0.088368	-0.0092	0.263964	-0.22073	0.264647	0.475796	0.961853	0.072551	0.962246
IKZF5	0.028191	0.183635	-0.14179	0.129887	0.835102	0.175494	0.292744	0.335554	0.158898	0.29006	0.061688	0.16522	0.854232	0.974733	0.656362	0.863745
CHST8	0.005573	-0.01604	0.26796	-0.22445	0.967181	0.906609	0.043878	0.093242	0.216243	-0.31042	0.161882	-0.29914	0.925548	0.017881	0.855974	0.021714
UNQ6190	0.07207	0.003003	0.263387	-0.21092	0.594202	0.982475	0.047751	0.115282	0.166273	-0.33794	0.167564	-0.33397	0.865288	0.01081	0.864383	0.011654
KRTAP24-1	-0.00718	0.156274	0.122686	-0.28917	0.957744	0.25008	0.363255	0.029134	-0.01494	-0.12925	0.078337	-0.1479	0.460737	0.19598	0.695499	0.163327
KRTAP27-1	-0.10288	0.11662	0.064089	-0.11733	0.44633	0.392029	0.635764	0.38473	-0.08984	-0.07937	0.044162	-0.08773	0.276329	0.300017	0.613346	0.281031
ZFP62	-0.02141	0.238445	-0.26509	0.056526	0.874398	0.076771	0.046279	0.676208	0.054716	0.255249	-0.13153	0.208262	0.639448	0.9547	0.197366	0.915102
TMPPE	-0.12919	0.020377	-0.06566	0.097217	0.342641	0.882609	0.630675	0.475975	-0.12272	0.243158	-0.19003	0.052976	0.21096	0.946248	0.108317	0.635185
MMP25	-0.06814	-0.43444	0.158603	-0.19622	0.614534	0.000821	0.238646	0.143511	-0.11471	-0.49203	-0.01611	-0.36054	0.226527	0.000299	0.458657	0.007487
CBLN3	0.150027	-0.05815	0.264629	-0.04563	0.265322	0.67035	0.046673	0.736066	0.135608	-0.1649	0.256687	-0.0652	0.815564	0.136727	0.955632	0.333415
GREM2	0.432036	-0.01716	0.226582	0.19854	0.000791	0.9001	0.090098	0.138736	0.210534	-0.00644	0.237736	0.097427	0.919902	0.483046	0.942088	0.740255
hCG_17904	0.00757	0.152012	-0.00348	-0.20922	0.955844	0.267902	0.979721	0.12174	-0.057	-0.01038	0.033289	0.026097	0.353358	0.472702	0.585929	0.568342
SFTPB	-0.06535	-0.12284	0.209801	-0.25268	0.629121	0.367085	0.117265	0.057921	0.024962	-0.4339	0.096366	-0.45344	0.565396	0.001295	0.735562	0.000776
RNF222	-0.11489	0.037647	0.151179	-0.16283	0.399134	0.782954	0.266046	0.230506	0.233539	-0.34487	0.262075	-0.29023	0.940861	0.009459	0.958994	0.025195
LOC643905	0.124568	-0.12967	0.241512	-0.21876	0.360333	0.345392	0.072942	0.105273	0.07204	-0.24744	0.056734	-0.26627	0.682882	0.048669	0.644374	0.036832
LOC643923	-0.00509	-0.04663	0.162808	-0.40644	0.97005	0.732924	0.226267	0.001706	-0.01449	-0.20041	0.106641	-0.1517	0.461931	0.090864	0.757171	0.157104
ZMAT3	0.08639	0.085945	-0.1146	0.27799	0.522838	0.528814	0.395951	0.036283	-0.11756	0.541396	-0.25839	0.440906	0.220917	0.999939	0.045178	0.998783
GMCL1	-0.13179	0.103358	-0.24331	-0.15454	0.32847	0.448423	0.068189	0.251054	-0.29875	-0.05654	-0.10043	0.048624	0.023104	0.356093	0.258277	0.62445
GMCL1L	-0.00501	-0.09764	0.082542	-0.26394	0.97052	0.474056	0.541586	0.047266	-0.19106	-0.20549	-0.04985	-0.16617	0.101702	0.085337	0.372521	0.134858
ZFP106	-0.01118	-0.10149	-0.07175	-0.07674	0.934241	0.456704	0.595831	0.570478	-0.03641	-0.14751	0.047024	-0.0656	0.405082	0.163966	0.62048	0.332465
MPP5	0.048924	0.286596	-0.22453	0.045443	0.717799	0.032237	0.093125	0.737127	0.119682	0.445261	-0.12054	0.305316	0.785889	0.999035	0.215127	0.980459
HHIP	0.03329	-0.22728	0.124555	0.062959	0.807563	0.09516	0.360384	0.644817	-0.07878	-0.30121	0.002906	-0.05828	0.303478	0.02218	0.507469	0.351861
LOC643997	0.084447	0.148607	0.080776	-0.11767	0.532266	0.27436	0.550301	0.383335	0.010503	-0.22931	0.138903	-0.22349	0.527616	0.062639	0.818586	0.067712
BLVRA	-0.02972	0.157566	-0.20733	-0.21845	0.826273	0.246137	0.121748	0.102568	-0.19636	0.296642	-0.06356	0.083451	0.095449	0.977351	0.339153	0.709314
SFTPC	-0.10539	-0.20102	0.120138	-0.20669	0.439496	0.141117	0.377802	0.126406	0.064551	-0.53666	0.174795	-0.30433	0.665019	6.03E-05	0.874605	0.019874
AKTIP	0.083571	0.069318	0.058345	0.092106	0.536541	0.611705	0.666393	0.495597	0.015406	0.268458	0.084086	0.057646	0.540469	0.96438	0.708556	0.648224
CDH24	-0.00117	-0.02159	0.106699	-0.11245	0.993114	0.874494	0.429546	0.404946	0.157114	-0.02968	0.008897	-0.09331	0.848662	0.423258	0.522853	0.271037
LOC644037	0.149698	0.169898	0.070434	-0.10482	0.270814	0.21494	0.605971	0.441993	0.052115	-0.08285	-0.07443	-0.14583	0.634564	0.292047	0.313517	0.166772
CDH22	-0.05606	-0.14597	0.275345	-0.09278	0.678713	0.283057	0.038171	0.492456	0.008232	-0.25417	0.147794	-0.12499	0.521401	0.046008	0.830818	0.206665
RPS14P3	0.006395	0.109888	-0.21952	-0.03013	0.962344	0.420111	0.100854	0.823922	0.005542	0.093744	-0.1113	0.07213	0.51458	0.732263	0.233344	0.683094
RGS18	0.001175	-0.59705	0.037708	-0.20177	0.993145	1.50E-06	0.782611	0.135892	-0.24879	-0.55701	-0.00842	-0.34482	0.049674	3.53E-05	0.478367	0.010178
LOC644083	0.134031	-0.02355	0.298193	-0.24905	0.324708	0.864505	0.025602	0.064169	0.047124	-0.15251	0.115767	-0.30645	0.622094	0.155803	0.775561	0.019162

WBSCR17	0.267517	-0.43196	0.290851	0.292026	0.044242	0.000886	0.028169	0.027511	0.341746	-0.45517	0.225536	-0.25251	0.989951	0.000741	0.93184	0.045222
SFTPD	-0.06939	-0.09062	0.147213	-0.24273	0.608029	0.506552	0.27449	0.068868	0.118775	-0.26086	0.089155	-0.31225	0.784122	0.039974	0.719852	0.017317
KLHL25	-0.06211	-0.13972	0.193962	-0.17905	0.649275	0.308972	0.152034	0.186717	-0.02221	-0.24339	0.039091	-0.12284	0.442433	0.053579	0.599453	0.210723
ARAP3	0.188125	-0.06449	0.127489	0.073018	0.161097	0.636754	0.344626	0.589345	0.108069	-0.05309	0.086096	-0.01328	0.76266	0.363026	0.713058	0.465095
GZF1	0.05728	-0.32381	-0.1069	-0.07157	0.672131	0.014913	0.42865	0.596781	-0.07504	-0.03399	0.179057	0.005066	0.310072	0.411269	0.88038	0.513329
RPL23AP53	0.146827	0.120107	-0.00585	-0.12089	0.275766	0.377926	0.96555	0.37036	-0.13391	0.025757	0.037875	0.159979	0.187484	0.567461	0.59755	0.855888
hCG_1776C	0.054141	-0.0093	0.119475	-0.32963	0.691878	0.946249	0.380458	0.013105	0.18211	-0.30075	0.217834	-0.31415	0.887109	0.021132	0.92471	0.016745
WIPF3	-0.01436	-0.29447	0.224603	-0.35448	0.91635	0.027592	0.096071	0.007351	0.095039	-0.56178	0.180493	-0.44799	0.735086	2.43E-05	0.882284	0.000898
DRGX	-0.02567	-0.10187	0.098777	-0.18141	0.849662	0.455037	0.464767	0.17685	0.095964	-0.31668	0.113061	-0.2965	0.737096	0.016007	0.770189	0.022702
C5orf28	-0.0601	0.21724	-0.22226	0.1753	0.656969	0.107774	0.096569	0.192135	-0.00281	0.342579	-0.02723	0.231368	0.492609	0.990112	0.429542	0.939081
TMEM168	0.074356	0.146605	-0.19736	0.252355	0.582524	0.280951	0.141154	0.058251	0.047656	0.328288	-0.13385	0.309879	0.62343	0.98704	0.190349	0.981948
MTMR14	-0.16197	0.198783	-0.27162	0.243143	0.228686	0.141912	0.040968	0.068382	-0.167	0.482594	-0.33193	0.206185	0.133656	0.999659	0.012956	0.915396
SGCA	0.130469	-0.15607	0.349047	-0.16449	0.333376	0.250721	0.007788	0.221433	0.251623	-0.58778	0.388761	-0.56185	0.954187	8.73E-06	0.995845	2.42E-05
SUSD1	-0.09078	0.178925	-0.01453	-0.09386	0.505784	0.191199	0.915343	0.491392	-0.35846	0.052132	-0.26203	0.018546	0.007219	0.634608	0.041035	0.548684
DCLRE1C	-0.0913	0.576981	-0.24225	-0.02238	0.499377	3.25E-06	0.069433	0.868754	-0.09812	0.633227	-0.17657	0.403628	0.258246	0.999999	0.122969	0.997296
ATG3	0.008972	0.188283	-0.2492	0.181793	0.947676	0.168629	0.064011	0.17994	-0.01018	0.503165	-0.14907	0.336938	0.473241	0.999817	0.164209	0.988982
INF2	0.078202	-0.02857	0.077968	0.081202	0.563118	0.834451	0.564287	0.548193	0.134384	0.201108	-0.06065	0.135319	0.813375	0.909907	0.346143	0.815049
POLR1E	0.102505	0.145114	-0.26338	0.306867	0.448003	0.285924	0.047759	0.020244	-0.05867	0.650333	-0.30258	0.404993	0.349274	1	0.021675	0.99738
SUDS3	0.054682	0.071343	-0.03565	-0.15569	0.686215	0.601317	0.792346	0.247485	-0.00043	-0.03146	-0.00689	-0.12982	0.498866	0.417796	0.482098	0.194929
TTC31	-0.11448	-0.06231	-0.00764	0.175993	0.400832	0.651297	0.955456	0.194472	0.096602	0.002815	-0.08362	-0.03266	0.736068	0.507321	0.294716	0.415674
NARFL	-0.10969	0.010455	-0.01884	0.001084	0.41665	0.939042	0.88935	0.993617	-0.08466	0.202366	-0.10511	-0.01833	0.287938	0.911291	0.245988	0.451874
ZDHHC6	-0.0576	0.275436	-0.21115	0.11941	0.670415	0.039916	0.114864	0.376306	0.130957	0.400983	-0.09122	0.25789	0.804407	0.996831	0.277964	0.9564
SGCB	0.148521	-0.08756	-0.06546	0.194055	0.270204	0.521063	0.628566	0.14806	0.161117	0.010634	0.048345	0.160591	0.857619	0.527959	0.623758	0.856822
C14orf135	-0.02356	0.041835	-0.0589	-0.0732	0.861912	0.7595	0.663427	0.588399	0.007338	-0.00906	-0.03676	0.006401	0.519302	0.476187	0.405266	0.516837
ACTR6	-0.04936	0.125252	-0.23128	0.130795	0.715371	0.357682	0.083446	0.332157	-0.1499	0.315922	-0.12155	0.301351	0.160035	0.983775	0.213187	0.979084
MT1IP	0.103942	-0.17147	0.138874	-0.2274	0.441627	0.206383	0.302893	0.088917	0.230055	-0.27072	0.09514	-0.31954	0.935782	0.036034	0.730497	0.016192
MRPS25	-0.08524	0.283251	-0.18073	0.235654	0.528429	0.034397	0.178512	0.077619	-0.12732	0.570106	-0.30157	0.347989	0.199566	0.999982	0.022048	0.991102
LOC644334	0.060849	-0.08768	-0.03002	-0.17741	0.65297	0.520506	0.824592	0.186742	0.069339	-0.1541	-0.05308	-0.18665	0.676485	0.153266	0.364558	0.107109
NOM1	-0.17375	0.342546	-0.09859	0.212771	0.196153	0.009759	0.465633	0.112048	-0.10782	0.28635	-0.25605	0.116604	0.237853	0.973152	0.044776	0.779859
ZCCHC18	0.176881	-0.08123	0.363904	-0.04994	0.188092	0.55173	0.005392	0.712175	0.230048	-0.34576	0.457943	-0.25358	0.93798	0.009295	0.99922	0.044521
RPL23AP71	0.139378	0.009039	0.156958	-0.22614	0.301126	0.947286	0.243614	0.09075	0.096415	-0.14905	-0.04256	-0.17798	0.73807	0.161428	0.390664	0.118325
SGCD	0.221971	-0.23687	0.256776	0.202402	0.100136	0.081643	0.056087	0.134652	0.236068	-0.49249	0.384199	-0.24392	0.942883	0.000254	0.995414	0.051173
DEFB131	0.072204	-0.08414	0.055319	-0.04634	0.600375	0.545247	0.688315	0.736904	-0.11819	-0.31396	0.175219	-0.09821	0.217029	0.0168	0.875188	0.258064
DNAI2	-0.15038	-0.1796	0.039316	-0.27146	0.264179	0.185342	0.771539	0.041093	-0.2222	-0.31915	0.014476	-0.28376	0.068883	0.015312	0.537597	0.027997
SGCG	-0.1719	-0.04538	0.032678	-0.2112	0.20521	0.742139	0.811036	0.118163	0.019905	-0.32244	0.157754	-0.25288	0.55223	0.014429	0.849657	0.044978
RP1-19N1.	0.073373	-0.13852	0.208231	0.233219	0.587534	0.308615	0.120095	0.080825	0.066986	-0.21732	0.133736	-0.0925	0.67087	0.073422	0.809437	0.270453
RPL13AP6	-0.1106	0.041543	-0.12051	-0.03099	0.412772	0.761126	0.371895	0.819005	0.032452	0.104364	-0.16691	0.038237	0.584766	0.754977	0.136574	0.599593
LOC644517	-0.12428	0.098152	-0.05432	-0.27905	0.356996	0.471723	0.688191	0.035551	-0.09363	0.059962	-0.30594	0.031954	0.267981	0.653891	0.020484	0.583482
NKX2-4	-0.04348	-0.12418	0.231139	-0.19192	0.748082	0.36186	0.083646	0.152659	0.141573	-0.47729	0.164666	-0.4335	0.823208	0.000458	0.857271	0.001466
LOC644538	0.143472	-0.22343	0.246173	-0.01163	0.287006	0.097869	0.064905	0.931584	0.216763	-0.43126	0.299023	-0.25433	0.926047	0.001384	0.976999	0.044037
TCEB1P3	0.051543	-0.15745	0.220444	-0.2445	0.705976	0.25096	0.102553	0.069362	0.148441	-0.50931	0.133973	-0.43252	0.837575	0.00015	0.809863	0.001341
LOC644556	0.093963	-0.32459	0.037839	-0.11137	0.486912	0.014658	0.779901	0.409513	0.032369	-0.34455	0.161538	-0.29955	0.584551	0.009517	0.855454	0.021566
NCRNA000	0.105234	-0.20468	0.192339	-0.10562	0.435942	0.130234	0.15175	0.434255	0.28653	-0.50905	0.244407	-0.30679	0.973231	0.000152	0.947173	0.019049
SGK1	0.060499	0.260246	-0.24812	0.287419	0.657816	0.052733	0.065202	0.031723	-0.09304	0.570291	-0.21023	0.313389	0.269275	0.999982	0.082853	0.983029
RP11-64P1	-0.17983	-0.11802	-0.19131	0.060869	0.180725	0.386319	0.154004	0.652865	-0.34931	0.000671	-0.04486	0.110641	0.008669	0.501765	0.384912	0.767917
SCG5	-0.12849	0.071442	-0.10521	-0.46797	0.340827	0.600812	0.436065	0.000242	-0.29133	0.029348	0.111781	-0.13413	0.024745	0.576761	0.767624	0.187076
LOC644717	0.033246	-0.37155	0.092884	-0.17552	0.809582	0.00567	0.500005	0.199934	0.024324	-0.23869	0.191528	-0.06077	0.563008	0.057161	0.893517	0.34585
WASF4	-0.0246	-0.01174	0.219609	-0.17489	0.855894	0.931586	0.100718	0.193181	0.114237	-0.16757	0.100016	-0.20123	0.772531	0.135602	0.740846	0.0925
CSMD1	-0.14647	-0.24881	-0.08464	-0.336	0.276959	0.064443	0.531305	0.010609	-0.37433	-0.14354	-0.09643	-0.18338	0.00565	0.173441	0.266749	0.113948
RPS15AP11	-0.10532	-0.01615	-0.10727	0.01685	0.435556	0.905953	0.427075	0.900993	-0.13488	0.016053	-0.23301	0.0997	0.188518	0.541678	0.063988	0.742674

SGSH	-0.06746	0.102464	0.114545	-0.00463	0.621311	0.456633	0.400562	0.973002	0.105119	0.130277	0.151245	0.015435	0.754029	0.803164	0.836461	0.540079
C15orf56	0.033302	-0.14409	0.257744	-0.38196	0.805743	0.28936	0.05291	0.003369	0.026443	-0.46593	0.136371	-0.35878	0.56924	0.000551	0.814137	0.007171
FAM83G	0.101047	0.265135	0.051334	-0.18977	0.454519	0.048287	0.704517	0.157405	-0.13977	0.407669	-0.21706	0.160473	0.177115	0.997539	0.076037	0.856641
EEF1B4	0.153956	0.055676	-0.31137	0.044551	0.252861	0.683598	0.018389	0.742107	0.019751	0.359333	-0.26154	0.150514	0.551829	0.992908	0.041329	0.840968
MEIG1	-0.12743	-0.22371	0.011154	-0.39786	0.344862	0.097433	0.934368	0.002178	-0.39903	-0.3348	-0.00405	-0.22668	0.003007	0.011474	0.489478	0.064897
SGTA	0.006411	-0.10573	0.121901	-0.11467	0.962252	0.438033	0.366357	0.395687	0.01315	0.077047	0.02327	0.02282	0.53456	0.694601	0.560299	0.559828
hCG_19935	-0.08261	-0.08604	0.123217	-0.1202	0.541242	0.528351	0.361166	0.37315	-0.06967	-0.39532	0.235186	-0.20399	0.324639	0.003597	0.937827	0.089465
hCG_18290	0.127217	0.154851	-0.2158	0.036595	0.350131	0.254472	0.110177	0.788879	0.200962	0.331699	-0.03057	0.232568	0.909745	0.987838	0.420984	0.940069
hCG_20335	0.008895	0.169265	-0.06709	-0.18583	0.947643	0.212354	0.619995	0.166365	-0.12664	0.091373	-0.19079	-0.05813	0.200836	0.727055	0.10467	0.350597
LOC644936	0.118456	0.175458	0.032063	-0.04342	0.380158	0.195855	0.812839	0.748456	0.321432	0.042992	0.157158	0.024411	0.985306	0.611677	0.848731	0.563966
RPL10P8	-0.00902	0.068645	0.13585	0.024347	0.947422	0.618497	0.318126	0.858633	0.201963	-0.21479	0.187351	-0.2556	0.908313	0.078253	0.888347	0.045068
RASSF10	0.002842	-0.13254	0.158268	0.008659	0.98326	0.33016	0.239655	0.94903	0.023285	-0.05046	-0.03604	-0.09196	0.561038	0.369552	0.407079	0.271642
LOC644950	-0.06789	0.223132	0.062115	-0.11397	0.619079	0.101525	0.649268	0.402958	0.088492	0.053473	-0.04313	0.010402	0.718385	0.636403	0.390518	0.527034
C5orf50	0.064262	-0.19527	0.252656	-0.13551	0.634851	0.149228	0.057941	0.314879	0.123317	-0.48678	0.162711	-0.41404	0.792888	0.000301	0.857222	0.002115
C1orf200	0.093868	-0.28229	0.286001	-0.25004	0.491377	0.03679	0.032613	0.063084	0.082734	-0.46646	0.303129	-0.31311	0.707682	0.000542	0.978522	0.017053
BLVRB	-0.0881	0.138838	-0.17422	-0.08139	0.51463	0.307496	0.194919	0.547264	-0.10809	0.154064	-0.20687	-0.00963	0.237305	0.846675	0.086362	0.474688
SH3BGR	0.220484	-0.14329	0.232812	-0.10485	0.102489	0.29665	0.084217	0.441841	0.188085	-0.45517	0.25108	-0.24576	0.89467	0.000741	0.951911	0.049853
FLJ16126	-0.09922	0.19745	-0.14494	-0.29518	0.462755	0.144658	0.282058	0.025804	-0.1883	0.019633	-0.05537	-0.00024	0.105066	0.55152	0.358942	0.499366
RPS2P20	-0.00992	0.027952	0.058479	0.099445	0.94161	0.837967	0.665671	0.461738	0.023306	0.254708	-0.19844	0.180623	0.561092	0.956207	0.095644	0.885171
CPEB1	-0.01147	-0.36186	0.183345	-0.4972	0.932508	0.006137	0.172202	8.34E-05	-0.21083	-0.51331	0.113123	-0.33147	0.0798	0.000132	0.770312	0.012216
SH3BGRL	0.125317	-0.09481	-0.03826	0.128131	0.352975	0.487008	0.777502	0.342182	0.209727	-0.24917	0.208127	-0.04136	0.919079	0.047469	0.91496	0.392456
CLRN2	-0.0215	-0.05326	0.228933	-0.13112	0.875019	0.699342	0.089667	0.335438	0.088775	-0.33113	0.066679	-0.3711	0.721293	0.012292	0.66829	0.005558
LOC645106	0.305926	-0.23116	0.284423	0.103879	0.020651	0.086502	0.032011	0.441907	0.257111	-0.31543	0.224572	-0.21306	0.957732	0.016367	0.930976	0.077561
CCNI2	-0.23358	-0.23955	-0.02882	-0.38586	0.080337	0.075376	0.831491	0.003033	-0.09018	-0.62367	0.096295	-0.45828	0.275581	1.83E-06	0.735408	0.00068
LOC645135	-0.08459	0.270639	-0.29859	0.118827	0.535367	0.045665	0.025398	0.383067	-0.06779	0.311725	-0.18755	0.200537	0.32722	0.982523	0.108658	0.909274
TEKT3	-0.108	-0.1716	0.042453	-0.30655	0.423927	0.206026	0.753861	0.02038	-0.25982	-0.34617	-0.0397	-0.32842	0.0406	0.009222	0.397857	0.012928
LOC645181	-0.13012	-0.23401	0.099064	-0.10424	0.334664	0.082583	0.463465	0.440292	0.016855	-0.3172	0.020804	-0.19404	0.544264	0.015858	0.553949	0.098149
LOC645188	0.110999	-0.16598	-0.04771	-0.16488	0.415402	0.225861	0.726978	0.224624	0.050548	-0.18518	0.058248	-0.13649	0.630664	0.108966	0.648052	0.182873
LINGO3	-0.04329	-0.01005	0.186471	-0.27768	0.749141	0.941387	0.164877	0.0365	0.133874	-0.35446	0.112048	-0.27445	0.812458	0.007826	0.768159	0.032462
LOC645195	0.145008	-0.24236	0.263624	0.022061	0.281823	0.071913	0.047544	0.870608	-0.24149	0.025332	-0.03937	0.161912	0.052962	0.566358	0.398676	0.85882
SH3BP2	0.122658	-0.15054	0.256298	0.309006	0.363366	0.26809	0.054302	0.019345	0.134441	0.033615	0.095336	0.060805	0.813478	0.587757	0.733344	0.655945
LOC645212	-0.24261	0.074751	-0.15315	-0.07563	0.071606	0.587544	0.259787	0.579581	0.031761	-0.31368	0.117852	-0.16343	0.582986	0.016883	0.779653	0.138912
LOC645225	-0.07135	-0.10699	0.010661	-0.26114	0.601268	0.432537	0.937844	0.051894	0.071567	-0.132	0.022013	-0.27096	0.679812	0.1937	0.556392	0.0359
LOC645251	0.209907	-0.09091	0.00504	-0.18404	0.117075	0.505169	0.97032	0.170565	-0.01874	-0.1019	-0.05463	-0.2571	0.450805	0.250198	0.36075	0.042275
hCG_17936	0.152197	-0.24616	0.221767	-0.35062	0.258391	0.067431	0.097332	0.007497	-0.06776	-0.42868	0.123812	-0.35293	0.327279	0.001478	0.791119	0.008068
LOC645294	0.068526	0.272121	0.025986	-0.00401	0.615789	0.044446	0.849226	0.976615	-0.15303	0.170585	-0.25675	0.244408	0.154973	0.871488	0.044325	0.949182
hCG_20045	0.121375	0.313356	-0.26182	0.028138	0.368444	0.018692	0.049142	0.83541	0.108603	0.314241	-0.18983	0.192753	0.763756	0.983283	0.105831	0.900326
ITSN1	0.030217	0.091719	0.016775	-0.26355	0.823434	0.50139	0.901435	0.04761	0.190172	-0.22104	0.251091	-0.18754	0.897227	0.069936	0.951918	0.106001
GLTPP1	-7.39E-05	0.173485	-0.00838	-0.05762	0.999565	0.20101	0.950687	0.670305	0.067089	0.160843	-0.09143	-0.0049	0.671117	0.857204	0.275156	0.4871
LOC645317	-0.11098	-0.09367	-0.05005	-0.24715	0.411171	0.492278	0.711597	0.063819	-0.18198	0.04644	-0.10632	-0.06485	0.113062	0.620376	0.243494	0.334254
LOC645332	-0.23374	-0.08751	0.040683	-0.47099	0.080134	0.521332	0.763819	0.000218	-0.3176	-0.16961	-0.06002	-0.15159	0.015744	0.129902	0.347647	0.157284
LOC645335	-0.10064	-0.0345	-0.00073	-0.00953	0.456358	0.800708	0.995679	0.943911	-0.11614	-0.03415	-0.01223	-0.15897	0.221058	0.410879	0.46823	0.145661
CHCHD9	-0.08687	-0.22189	0.205455	-0.17979	0.520539	0.10026	0.125229	0.180825	0.020332	-0.04381	0.023802	-0.02496	0.553345	0.386249	0.561667	0.434614
RPL10P12	-0.04317	-0.16559	0.090709	-0.00953	0.752075	0.226973	0.506136	0.944418	0.194269	-0.25818	0.087668	-0.14502	0.902116	0.041602	0.716559	0.168126
hCG_22804	0.154928	0.234508	-0.24643	0.251969	0.249843	0.081918	0.064616	0.05865	0.092868	0.431627	-0.26795	0.394326	0.730345	0.998628	0.037571	0.996653
RPL21P68	-0.08685	0.167308	0.070159	-0.06535	0.520632	0.217767	0.604043	0.629128	0.429592	-0.1927	0.119588	-0.34199	0.998556	0.099731	0.783027	0.010002
SH3GL1	-0.03012	0.112492	-0.0698	0.046359	0.823996	0.409115	0.605924	0.732023	-0.03716	0.382444	-0.13995	0.198968	0.403163	0.995642	0.179588	0.907518
SH3GL2	-0.03971	-0.11381	0.129322	-0.27978	0.769324	0.403621	0.337679	0.035048	0.017132	-0.15992	0.086514	-0.2125	0.544987	0.1442	0.713991	0.078116
LOC645605	0.120798	-0.19317	0.337088	-0.21024	0.370743	0.153744	0.010344	0.116475	0.289373	-0.40677	0.309782	-0.18034	0.974446	0.002513	0.980814	0.115203
RPL13AP3	0.072011	-0.1971	0.228313	-0.1251	0.594504	0.145385	0.087602	0.353827	0.081157	-0.21659	0.03443	-0.1497	0.704081	0.074114	0.588828	0.160354

SH3GL3	-0.14358	-0.025	-0.07706	-0.54766	0.286646	0.854879	0.568828	1.04E-05	-0.15416	-0.4166	0.115079	-0.36263	0.15318	0.001988	0.774202	0.006629
RP11-408E	-0.09162	-0.22316	0.219008	0.017505	0.501857	0.101484	0.104868	0.898106	0.078125	-0.36144	0.24708	-0.26854	0.695014	0.007353	0.947055	0.037242
LOC64576E	-0.05415	-0.22504	0.251085	-0.2109	0.689102	0.095411	0.059571	0.115314	0.122004	-0.29688	0.223508	-0.33642	0.790374	0.022558	0.930013	0.011127
ALDH8A1	-0.22299	-0.12952	0.090402	0.094526	0.098543	0.345968	0.507581	0.488329	-0.14012	-0.2169	0.121313	-0.02505	0.179291	0.07619	0.783609	0.435118
NDST4	0.262294	-0.21321	0.102951	-0.18063	0.048716	0.114622	0.446019	0.178746	0.154618	-0.35688	0.234935	-0.20364	0.847554	0.007453	0.939845	0.087322
LOC64580E	0.038137	-0.05513	-0.1072	-0.0968	0.780204	0.686562	0.431646	0.477875	-0.15241	0.190276	-0.04999	0.260335	0.155966	0.897352	0.372162	0.959712
CLEC7A	0.091495	-0.35462	0.209954	0.116001	0.502444	0.007896	0.120404	0.394561	-0.02403	-0.3437	0.109082	-0.22407	0.437757	0.010398	0.759547	0.069476
CCDC154	-0.04427	-0.17711	0.13625	-0.17442	0.743697	0.191619	0.31221	0.194398	0.103191	-0.36118	0.194697	-0.34515	0.752519	0.006829	0.900012	0.009408
GPR135	0.05343	-0.37843	0.290194	-0.25475	0.693041	0.00403	0.028543	0.055826	0.010468	-0.42284	0.015863	-0.34995	0.527523	0.001708	0.541188	0.008561
SEBOX	-0.00905	-0.045	0.238899	-0.10472	0.946747	0.741937	0.073501	0.438183	0.14231	-0.33472	0.07372	-0.21191	0.827273	0.011491	0.684838	0.078708
TR2IT1	-0.16162	-0.18218	0.048326	-0.15052	0.229726	0.179001	0.721105	0.263738	-0.00418	-0.31441	0.027899	-0.29446	0.488999	0.016668	0.572177	0.023493
TMEM14E	0.079886	0.103035	0.114299	-0.01737	0.554717	0.449849	0.397219	0.897926	0.169059	-0.34971	0.180369	-0.26929	0.869316	0.008602	0.882121	0.035167
MAGEB17	0.008592	-0.2431	0.174596	-0.17559	0.949425	0.071023	0.193953	0.191395	0.17143	-0.4927	0.197354	-0.46816	0.872681	0.000252	0.903107	0.000517
LOC64587C	-0.00898	-0.03004	0.048939	-0.30809	0.947148	0.826042	0.717716	0.019727	-0.36042	0.207734	-0.0054	0.22791	0.006936	0.917022	0.485965	0.936164
LOC645877	0.03754	-0.126	0.153704	-0.39447	0.783557	0.359342	0.258052	0.002626	0.138632	-0.4383	0.198932	-0.37483	0.820905	0.001157	0.904913	0.005136
S100A7L2	0.064868	-0.11079	0.29208	-0.25493	0.634801	0.420655	0.02894	0.057942	0.119501	-0.25051	0.155569	-0.14702	0.785537	0.046561	0.846244	0.164783
RPS18P9	0.025597	0.171005	-0.01869	0.127353	0.850092	0.207622	0.890271	0.345149	0.117739	0.187556	-0.10247	0.177094	0.782094	0.894015	0.251489	0.88048
LOC64597E	-0.08742	0.074411	0.028628	-0.19736	0.517857	0.585729	0.83258	0.141147	-0.00898	-0.14296	0.135798	-0.19986	0.476396	0.171624	0.813121	0.091475
MOSPD3	-0.15929	-0.01354	0.135907	-0.29276	0.236595	0.921094	0.313441	0.027105	-0.13835	-0.27327	0.025497	-0.2368	0.182379	0.034662	0.565247	0.058658
GIGYF1	0.045605	-0.19961	0.173227	-0.0769	0.736224	0.140235	0.197528	0.569673	0.031739	-0.14877	0.136478	-0.19934	0.58293	0.16188	0.814326	0.092066
BNC1	-0.05926	0.384653	-0.16682	-0.02258	0.66441	0.003736	0.21914	0.868795	-0.15471	0.64736	-0.28353	0.458875	0.152307	0.999999	0.029554	0.999331
PLA2G2F	-0.04416	-0.22518	0.221213	-0.21662	0.744274	0.095194	0.098193	0.105557	0.007402	-0.35328	0.195971	-0.36218	0.519469	0.008013	0.901505	0.00669
VPS16	-0.01699	-0.04139	0.053732	0.030619	0.901106	0.764133	0.694091	0.822743	-0.10956	0.215341	-0.14184	0.111329	0.234275	0.924676	0.176331	0.769312
FLJ34651	0.086771	-0.07532	0.273833	-0.19876	0.524846	0.584685	0.041134	0.141967	0.314062	-0.34928	0.183657	-0.26663	0.98323	0.008675	0.886407	0.036629
LOC64604E	0.001612	-0.17897	0.063171	-0.05682	0.990504	0.186905	0.640621	0.674634	0.062516	-0.2199	0.150347	-0.13682	0.660101	0.070995	0.837882	0.18229
LOC646057	-0.00858	-0.15436	0.118636	0.322269	0.949472	0.25599	0.379431	0.014494	-0.03247	0.046737	-0.04172	0.06682	0.415177	0.621123	0.39276	0.670472
RPS8P7	-0.03615	-0.29214	0.072039	-0.16703	0.7895	0.028906	0.594363	0.214302	0.079532	-0.37686	0.140567	-0.38999	0.700348	0.004918	0.821475	0.003689
SHB	0.023188	-0.16118	0.24725	0.079723	0.864057	0.235326	0.063704	0.555523	0.070439	-0.30364	0.095777	-0.22077	0.679095	0.020114	0.734293	0.070185
RPS8P4	-0.029	0.085049	-0.03032	-0.29372	0.830428	0.533135	0.822834	0.026583	-0.28418	-0.08496	-0.04495	-0.10268	0.027807	0.287262	0.384696	0.248565
LOC646187	-0.11126	0.02867	0.001705	-0.15062	0.409986	0.833863	0.989956	0.263425	-0.1013	-0.11687	-0.17219	-0.25518	0.25146	0.219608	0.129009	0.043487
SHBG	-0.00158	-0.10316	0.157047	-0.19303	0.990709	0.449318	0.243344	0.150247	0.10663	-0.33691	0.180606	-0.33457	0.759693	0.011024	0.882434	0.011524
LOC646214	0.150315	0.109156	0.205359	0.203887	0.268822	0.4276	0.128928	0.131754	0.1452	0.24763	0.17818	0.247806	0.832179	0.951467	0.879207	0.951589
LOC64631E	-0.35097	0.222933	-0.17989	-0.13352	0.007434	0.098636	0.180579	0.322094	0.229582	-0.20989	0.132853	-0.07901	0.937587	0.08075	0.807848	0.300864
LOC64635E	0.206258	-0.08615	0.198293	-0.30192	0.123727	0.527838	0.139237	0.022462	0.247417	-0.31769	0.172412	-0.34313	0.949353	0.016726	0.868459	0.010512
SHC1	0.072695	0.026292	0.068709	0.307201	0.591001	0.847469	0.611558	0.020101	0.175316	0.283858	-0.20633	0.316079	0.878067	0.972047	0.086944	0.983821
EBF2	-0.04264	-0.17532	0.142876	0.088246	0.755015	0.200439	0.2935	0.517798	0.114889	-0.35362	0.322852	-0.13346	0.77646	0.007958	0.984734	0.188291
RPL27P2	0.008782	0.152001	0.121311	-0.17667	0.948304	0.263426	0.368698	0.188637	0.152993	-0.262	0.211534	-0.27206	0.844966	0.039296	0.918481	0.033696
HIAT1	-0.03373	0.24776	-0.20427	0.281412	0.803276	0.065611	0.127477	0.033955	-0.06303	0.434316	-0.15939	0.368707	0.338645	0.998719	0.147814	0.994156
C3orf71	-0.06612	-0.14607	0.169414	-0.15101	0.625072	0.282728	0.207728	0.262176	0.141423	-0.30136	0.150175	-0.20293	0.825751	0.020911	0.837603	0.088095
C19orf67	-0.06099	-0.01218	0.145465	-0.19096	0.652204	0.928998	0.280292	0.154772	0.158989	-0.35083	0.224253	-0.20459	0.854372	0.008413	0.930688	0.086305
LOC646471	0.023108	-0.0992	0.227847	-0.23233	0.864524	0.466994	0.08827	0.082018	0.088098	-0.36107	0.218101	-0.31032	0.719784	0.006845	0.924965	0.017912
SPANXD	-0.05419	-0.24456	0.141814	-0.16293	0.688901	0.069288	0.29267	0.225906	-0.03734	-0.25841	-0.14474	-0.27552	0.402696	0.041463	0.171405	0.031922
FABP12	0.206242	-0.18002	0.227925	-0.2897	0.123757	0.184302	0.088158	0.028825	0.089974	-0.39057	0.203869	-0.1953	0.723961	0.003642	0.910407	0.096686
LOC64650E	0.219022	-0.21342	0.266953	-0.24068	0.101654	0.114268	0.044708	0.071323	0.054735	-0.39519	0.06482	-0.24521	0.641056	0.003282	0.663866	0.050244
AXUD1	0.244727	-0.22888	0.12611	0.071922	0.066547	0.089738	0.349914	0.594965	0.346678	-0.07907	0.110409	-0.18231	0.99087	0.300706	0.764858	0.112635
UNQ1945	-0.08267	-0.07204	0.204458	-0.18909	0.540939	0.597771	0.127112	0.158926	0.271685	-0.32036	0.206575	-0.3923	0.966111	0.014984	0.913321	0.003503
C3orf65	0.012911	-0.18943	0.124052	-0.16895	0.924756	0.166002	0.362343	0.213233	0.277156	-0.32135	0.106542	-0.39752	0.96735	0.01568	0.75438	0.003425
PRHOXNB	-0.09282	-0.0792	0.080113	-0.16075	0.496249	0.561767	0.557247	0.236612	0.010003	-0.29849	0.13121	-0.18174	0.526304	0.021956	0.804868	0.113366
SBK2	-0.13213	-0.07444	0.167791	-0.1171	0.327193	0.5856	0.212179	0.385693	0.01886	-0.23417	0.062832	-0.20148	0.549503	0.058633	0.659109	0.089683
TMEM90A	0.033588	-0.25982	0.240368	-0.11544	0.804107	0.053136	0.071697	0.392511	0.025028	-0.24145	0.094225	-0.2137	0.565569	0.052988	0.730941	0.07693

RPS26P2	0.033652	0.188496	-0.05175	-0.2303	0.80374	0.164144	0.702236	0.08481	0.01782	0.11965	0.142666	0.124946	0.546785	0.785827	0.825079	0.795982
RPS10P13	-0.0119	-0.02002	-0.10104	0.031862	0.930003	0.883578	0.454557	0.813991	-0.0574	0.224526	-0.21005	0.155752	0.352384	0.933209	0.083042	0.849341
LOC646799	0.036027	-0.28551	0.173239	-0.10864	0.792086	0.034605	0.201658	0.425461	0.142183	-0.3661	0.258478	-0.10126	0.824254	0.006694	0.954878	0.254025
FBXW4	0.034279	0.057842	-0.02509	0.263387	0.800159	0.67197	0.853046	0.047751	0.24058	0.287439	-0.04006	0.164536	0.94636	0.973624	0.396942	0.862736
LOC646813	0.00793	0.136058	-0.24774	0.021513	0.953312	0.317377	0.063166	0.873793	-0.03014	0.347219	-0.16806	0.355514	0.421207	0.990966	0.134898	0.992338
ANAPC1	-0.0855	0.215211	-0.24151	-0.07446	0.527125	0.111184	0.07032	0.581994	-0.11139	0.200526	-0.20478	0.181858	0.233168	0.906712	0.091196	0.884076
LOC646851	-0.12357	-0.14947	0.06272	-0.21569	0.359783	0.271566	0.643011	0.107094	-0.13403	-0.32966	0.081751	-0.2621	0.187262	0.012634	0.703282	0.039236
LOC646853	-0.04144	-0.14291	0.162049	-0.30577	0.759528	0.293369	0.228466	0.020721	0.175987	-0.42732	0.160739	-0.38928	0.878982	0.001528	0.854243	0.003748
RP11-251J8	0.035205	-0.13609	0.099172	-0.31918	0.794876	0.31726	0.462977	0.01552	-0.0127	-0.38933	0.262997	-0.27422	0.466628	0.003744	0.959548	0.032576
RPL12P2	0.085879	0.162917	-0.07455	0.031104	0.525308	0.230257	0.581532	0.81834	0.156413	0.181383	-0.07732	0.232437	0.850377	0.886164	0.306846	0.939962
FLJ45825	-0.12766	0.00223	0.05346	0.105626	0.343993	0.986987	0.692877	0.434225	-0.08176	-0.24257	0.017195	-0.11501	0.296699	0.054189	0.544105	0.225934
GORASP1	-0.11079	-0.14593	0.104969	-0.0481	0.41628	0.287743	0.441342	0.724789	-0.16797	0.048538	-0.1317	-0.03769	0.132252	0.62564	0.194232	0.401803
LOC646891	0.074981	0.135649	0.149662	-0.13009	0.579353	0.318849	0.266497	0.334805	0.146893	-0.20971	-0.05312	-0.176	0.835011	0.080942	0.364458	0.120995
SH2D7	-0.09878	-0.26166	0.187224	-0.31103	0.464753	0.051412	0.163149	0.018526	-0.00254	-0.23015	0.003591	-0.2959	0.493326	0.061932	0.509339	0.022931
SHH	-0.07146	-0.07832	0.170337	-0.04567	0.597346	0.566152	0.205226	0.73584	-0.07259	-0.24522	0.072566	-0.17366	0.315824	0.050233	0.682149	0.124212
CTAGE1	-0.1167	-0.11154	0.043266	-0.12573	0.391715	0.413108	0.751535	0.355854	0.053775	-0.36452	0.124002	-0.31938	0.638682	0.006376	0.791479	0.01525
HRCT1	0.042878	-0.25089	0.285063	-0.04881	0.751475	0.062163	0.03161	0.718421	0.173041	-0.43875	0.235601	-0.30342	0.874933	0.001144	0.940385	0.020189
LOC646976	-0.20781	-0.12412	0.138956	-0.22002	0.120859	0.362095	0.302605	0.100065	-0.07318	-0.44754	0.039462	-0.2302	0.314436	0.000909	0.601554	0.061892
TMPRSS3	-0.14824	-0.36377	0.061257	-0.24669	0.271107	0.005853	0.650795	0.064321	-0.2192	-0.35558	0.01379	-0.29831	0.071648	0.007651	0.53582	0.022024
LOC646993	-0.23884	-0.11492	-0.09927	-0.12145	0.073575	0.399016	0.462526	0.368155	0.124685	-0.24485	0.014437	-0.17128	0.795487	0.050497	0.537494	0.127533
RAB42P	0.053219	-0.19959	0.304516	-0.09061	0.696869	0.144027	0.022496	0.50659	0.177828	-0.40936	0.289823	-0.35229	0.878734	0.002617	0.971824	0.008813
SHMT1	0.119386	0.067871	-0.14585	0.067175	0.376403	0.619173	0.279012	0.61955	0.071178	0.483667	-0.1659	0.230409	0.680845	0.99967	0.138047	0.938283
LOC647013	-0.10362	-0.02856	-0.10104	-0.21024	0.447255	0.836029	0.458704	0.119884	0.23068	-0.31166	0.052171	-0.33975	0.938508	0.017498	0.633205	0.010443
C6orf132	-0.09066	0.074892	-0.09995	-0.28785	0.50242	0.583301	0.459433	0.029909	-0.33244	0.291206	-0.3169	-0.03678	0.011994	0.975205	0.016959	0.40412
BRD7P2	-0.02768	-0.02698	-0.10902	-0.09242	0.838058	0.84351	0.419513	0.494122	-0.19846	0.218715	-0.20737	0.014553	0.09306	0.927899	0.085839	0.538236
COPS7B	-0.03725	0.138711	0.180743	-0.23662	0.783236	0.307943	0.178477	0.076374	-0.28764	0.221278	-0.14009	-0.00078	0.026287	0.930279	0.179349	0.49796
LOC647086	0.01801	-0.15386	0.019186	-0.13625	0.894215	0.257552	0.887355	0.312203	-0.13347	-0.08605	-0.04707	-0.03911	0.188271	0.284816	0.379401	0.398171
NUCKS1	0.169912	0.094817	-0.16429	-0.06155	0.206375	0.486988	0.222014	0.649235	-0.0011	0.318954	-0.00391	0.296474	0.4971	0.984633	0.489836	0.977286
HS3ST6	-0.07538	-0.23223	0.185373	-0.38421	0.577324	0.085024	0.167423	0.003171	-0.00882	-0.48496	-0.04937	-0.49541	0.477076	0.000367	0.375154	0.00027
FLJ36848	-0.0785	-0.20128	0.190516	-0.10723	0.561601	0.136877	0.155742	0.427222	-0.05135	-0.28732	0.134393	-0.15393	0.367344	0.026426	0.810617	0.153545
SRGAP2P2	-0.10405	-0.11924	-0.09687	-0.34294	0.441158	0.381385	0.473479	0.009014	0.033732	-0.2757	0.067413	-0.36038	0.587055	0.033392	0.668142	0.007512
PDIA2	0.014785	-0.10564	0.218201	-0.19883	0.913076	0.438406	0.102975	0.138147	0.179065	-0.40341	0.198694	-0.44315	0.883115	0.002718	0.904641	0.00102
UNKL	0.01358	-0.1409	0.282898	-0.0597	0.920137	0.300305	0.032983	0.659103	0.023736	-0.3098	0.060684	-0.36349	0.562211	0.018076	0.653943	0.006513
SHMT2	-0.02269	0.129167	-0.14157	0.216768	0.866957	0.342733	0.293503	0.105313	-0.16694	0.538215	-0.2814	0.442078	0.133744	0.999943	0.030563	0.998951
ASCL5	0.080638	-0.22432	0.20209	-0.08833	0.550985	0.096501	0.131672	0.513523	-0.01526	-0.40464	0.217404	-0.31469	0.459922	0.002641	0.924295	0.016583
RPL4P4	-0.02646	0.352301	-0.31513	-0.09889	0.845081	0.007747	0.016955	0.464261	0.1383	0.416441	-0.25156	0.235815	0.817533	0.997783	0.049756	0.940557
LOC647302	-0.06479	0.186478	-0.32013	-0.30151	0.632063	0.168789	0.015197	0.022652	-0.08842	0.113364	-0.18349	-0.00627	0.279491	0.773414	0.113808	0.483514
SHOX2	-0.0584	-0.14332	0.232268	-0.15271	0.666091	0.291985	0.082105	0.25678	0.090921	-0.37409	0.07496	-0.40264	0.723739	0.005678	0.685664	0.003052
WDR13	-0.07955	-0.14698	-0.01219	-0.10877	0.556408	0.279716	0.928293	0.420573	-0.15993	0.070066	0.034269	-0.13047	0.146997	0.67629	0.587389	0.196475
SMAP2	-0.27449	-0.38065	-0.0125	-0.02486	0.038799	0.003803	0.926476	0.854345	-0.29835	-0.35413	0.01173	-0.26935	0.022009	0.007877	0.530478	0.035136
METT11D1	-0.08546	0.368903	0.020991	0.188554	0.527358	0.005146	0.876835	0.160125	-0.01801	0.36837	-0.13642	0.161539	0.453261	0.993609	0.188624	0.855456
ACBD3	0.058173	0.375666	-0.1833	0.171651	0.667319	0.004329	0.172306	0.201698	-0.01331	0.458578	-0.10644	0.325705	0.465021	0.999325	0.243241	0.986408
MFSD1	-0.0094	0.248814	-0.24412	0.210094	0.944693	0.064435	0.067242	0.116741	-0.13836	0.416291	-0.20399	0.306161	0.179572	0.997996	0.089464	0.980742
LPPR2	0.160748	-0.17035	0.302284	-0.05726	0.232274	0.209387	0.02229	0.672264	0.23924	-0.37664	0.244517	-0.38115	0.945345	0.00494	0.947254	0.004482
SMURF2	-0.04117	0.170255	-0.25556	0.109624	0.761072	0.209655	0.055029	0.416929	0.02192	0.436826	-0.02616	0.337982	0.557485	0.998798	0.43228	0.989199
CCDC136	0.17468	-0.26999	0.19909	0.117804	0.193736	0.044175	0.137622	0.382806	0.163963	-0.42126	0.069004	-0.44406	0.861887	0.001776	0.67379	0.000996
SMYD3	-0.02472	0.11713	-0.13718	-0.01877	0.855168	0.389947	0.308882	0.889806	-0.19263	0.288874	-0.10331	0.162336	0.09982	0.974236	0.249742	0.859458
C16orf58	0.116121	-0.09833	0.267534	0.097542	0.389688	0.470921	0.044228	0.470397	0.1458	0.026757	0.040161	0.116476	0.833185	0.570054	0.603313	0.779608
ATPAF1	0.008715	0.114645	-0.018	-0.019	0.9487	0.400149	0.894261	0.888441	0.065985	0.027612	0.181051	-0.04498	0.668471	0.572268	0.88302	0.383312
MOSC1	0.220879	0.08088	0.135224	-0.34031	0.098714	0.553467	0.315901	0.009592	0.041115	-0.15791	-0.09954	-0.17019	0.606919	0.147296	0.257673	0.12907

TNS3	0.479144	-0.24126	0.423408	0.139184	0.000187	0.075993	0.001148	0.306282	0.344398	-0.16496	0.282042	0.01351	0.990454	0.136631	0.969745	0.535503
LOC647597	0.143856	-0.20515	0.215304	-0.25708	0.285705	0.129327	0.107742	0.05355	0.029321	-0.27594	0.161208	-0.23772	0.576691	0.03171	0.854955	0.055822
SI	0.014873	-0.20389	0.026651	-0.36907	0.91256	0.131742	0.843992	0.004726	-0.0193	-0.37547	0.092568	-0.32524	0.449346	0.005065	0.727341	0.013708
FAM160B2	-0.00122	-0.11695	0.139213	-0.06755	0.99281	0.390666	0.301703	0.617599	-0.0422	0.064431	-0.00552	0.051881	0.390326	0.664732	0.485637	0.633983
PARP12	-0.15936	-0.25273	0.098313	0.417999	0.240727	0.062666	0.470995	0.001348	-0.22404	0.429998	-0.18779	0.465295	0.067222	0.998571	0.108356	0.99944
FAM59A	-0.03682	0.352277	-0.16914	-0.30787	0.7857	0.007752	0.20847	0.019816	0.154406	0.268535	-0.06292	0.019248	0.847218	0.964422	0.340688	0.550516
ZNF574	-0.06603	0.156945	-0.28663	-0.01651	0.625566	0.248028	0.030644	0.902999	-0.20024	0.578264	-0.13925	0.240416	0.091058	0.999987	0.180813	0.946236
CREB3L2	0.350785	-0.2493	0.326752	0.086995	0.007466	0.063895	0.01311	0.519922	0.476965	-0.15587	0.293679	-0.10263	0.999538	0.153286	0.973497	0.251147
S100PBP	-0.0616	0.180834	-0.13669	0.280832	0.648991	0.182289	0.310634	0.034341	0.155568	0.24988	0.046312	0.133734	0.849052	0.953014	0.618709	0.812206
IPPK	-0.15898	0.312047	-0.15843	-0.08192	0.241857	0.020379	0.243538	0.548384	-0.25344	0.556293	-0.37564	0.27045	0.044614	0.99997	0.005497	0.965456
C1orf149	-0.0645	0.154793	-0.18948	-0.0686	0.633586	0.254654	0.158038	0.612142	-0.12992	0.026076	-0.07742	-0.02901	0.194738	0.568287	0.306609	0.424113
SIAH1	0.035611	0.102928	-0.13582	0.110043	0.792564	0.45032	0.313765	0.415141	0.031641	0.249859	0.08479	0.172381	0.582676	0.953	0.710137	0.874014
CCDC14	0.041488	0.09159	-0.10961	0.178261	0.759286	0.501997	0.416972	0.184615	0.256457	0.153512	0.000961	0.15661	0.957321	0.845797	0.5025	0.850686
C6orf106	-0.06383	0.190728	-0.12985	0.163484	0.640254	0.163067	0.340152	0.228616	-0.12256	0.558794	-0.24312	0.334147	0.20856	0.999973	0.053778	0.988384
ENGASE	-0.0084	-0.26688	0.17342	0.081189	0.950538	0.046777	0.197022	0.548255	0.030917	-0.03775	-0.00254	-0.03211	0.58081	0.401654	0.493389	0.416125
FAM113A	-0.00671	-0.18239	0.163102	0.112853	0.960515	0.178485	0.225418	0.403256	-0.12884	-0.05365	-0.05358	0.083158	0.196724	0.361625	0.363334	0.708646
C11orf1	-0.08986	0.096009	-0.36584	-0.08309	0.50619	0.4815	0.005133	0.538892	-0.37614	0.145751	-0.25171	-0.04267	0.004994	0.833103	0.047659	0.389144
RMND5B	0.011841	-0.00555	0.013717	0.200153	0.930976	0.967949	0.920074	0.139131	-0.10527	0.533767	-0.11362	0.34668	0.243135	0.999933	0.228697	0.99087
FNDC3B	0.234497	-0.15956	0.199534	0.412407	0.07913	0.240143	0.136729	0.001434	0.395801	-0.0563	0.123248	0.056963	0.996763	0.355086	0.790048	0.646547
MTHFSD	-0.09918	-0.10676	0.091588	-0.32552	0.462932	0.433561	0.498035	0.013477	-0.18132	0.153234	-0.08093	-0.14065	0.113919	0.845352	0.298592	0.175592
SIAH2	0.018423	0.222022	0.197098	-0.19507	0.892793	0.103282	0.145391	0.149664	0.031745	-0.11307	0.092852	-0.30034	0.582	0.229788	0.725573	0.022502
MICAL1	-0.07013	-0.43561	0.279525	0.042803	0.604213	0.000792	0.035223	0.751893	-0.13249	-0.47095	0.088229	-0.22974	0.190045	0.000478	0.717803	0.062277
CERK	0.14463	0.040423	-0.06566	0.612119	0.283093	0.767384	0.62751	4.20E-07	0.266722	0.373068	0.038534	0.357572	0.96342	0.994669	0.599213	0.99265
AEN	0.079568	-0.13977	0.164484	-0.10748	0.556296	0.304238	0.221457	0.426139	0.098588	-0.09314	0.118557	-0.13576	0.74275	0.269055	0.781027	0.184167
RBM15	-0.0415	0.257232	-0.20262	0.252445	0.759191	0.055636	0.130636	0.058158	-0.05333	0.378384	-0.3906	0.172838	0.362424	0.995241	0.003991	0.874651
CRTC3	0.200214	-0.15451	0.155527	0.345284	0.135368	0.255546	0.247994	0.008525	0.453909	-0.23208	0.1825	-0.01118	0.999234	0.060332	0.884912	0.470615
GINS3	-0.00564	0.269732	-0.06263	0.132701	0.967069	0.046423	0.646571	0.329579	-0.28713	0.461671	-0.22966	0.414661	0.026509	0.99938	0.064558	0.997916
TBC1D15	0.036594	0.163188	-0.19817	0.160619	0.78697	0.229471	0.139479	0.232654	0.115941	0.234704	0.020739	0.214447	0.778549	0.941798	0.553783	0.923804
EPS8L2	-0.06953	0.103545	-0.04281	-0.22378	0.607323	0.447595	0.75184	0.09426	-0.2131	0.238342	-0.0603	0.041	0.077527	0.944656	0.346984	0.606626
LMF1	0.016971	-0.15214	0.129979	0.028061	0.900288	0.262994	0.335209	0.835851	-0.00839	0.054136	0.103873	-0.10709	0.478182	0.638028	0.748889	0.241903
DEM1	0.003064	0.176533	-0.24352	-0.16959	0.981954	0.193086	0.067939	0.20726	-0.10548	0.273167	-0.1114	0.156585	0.242699	0.966883	0.233134	0.850647
RABL5	-0.16519	-0.09278	-0.06111	-0.21283	0.219452	0.496452	0.651593	0.111949	-0.23824	-0.168	0.028986	-0.10139	0.055422	0.132202	0.574958	0.25129
CCDC21	-0.03997	0.299216	-0.27929	-0.2378	0.767832	0.025076	0.035381	0.074874	-0.25991	0.410617	-0.29535	0.244931	0.040543	0.997705	0.024438	0.949558
DDX31	0.199793	0.042899	0.076203	0.054393	0.136211	0.753574	0.573165	0.687791	0.286882	0.089966	0.049107	-0.13177	0.971978	0.721641	0.624209	0.194121
RMND5A	-0.05798	0.18237	-0.28838	-0.0602	0.668339	0.17854	0.029598	0.656447	-0.08067	0.147374	-0.10108	0.063057	0.297039	0.83581	0.254416	0.661411
DEPDC6	0.209555	-0.21983	0.147142	0.046326	0.117705	0.103532	0.274727	0.732208	0.299112	-0.1568	0.06574	-0.22177	0.978274	0.149024	0.666058	0.069269
IQCH	-0.10424	-0.12809	-0.01718	-0.33078	0.440292	0.346813	0.899065	0.011965	-0.19472	-0.32555	0.074109	-0.20152	0.097355	0.01363	0.685742	0.089635
BMI1	0.092577	0.016548	-0.04756	0.157602	0.493388	0.90365	0.725367	0.241663	0.081495	0.095962	0.026828	0.154376	0.704853	0.737091	0.569433	0.84717
ST6GAL1	-0.07249	0.237376	0.048588	0.138581	0.595454	0.078142	0.722132	0.308401	-0.07685	0.430127	-0.012	0.397071	0.305851	0.998575	0.468812	0.996855
EFCAB6	-0.17425	-0.12978	-0.00517	-0.22595	0.194849	0.340413	0.969567	0.091024	-0.16483	-0.34014	0.05127	-0.2336	0.136836	0.010364	0.630987	0.05909
hCG_2015	0.111372	0.154479	0.039983	-0.16503	0.409493	0.255628	0.767768	0.219897	0.405364	0.005717	-0.04534	-0.08189	0.997403	0.515039	0.383725	0.294241
ARV1	-0.09784	0.397398	-0.26567	0.055324	0.469042	0.002423	0.045781	0.682727	-0.08056	0.498479	-0.12142	0.3723	0.29729	0.999789	0.213439	0.994581
NMNAT1	-0.05143	0.03502	-0.24146	-0.25678	0.703969	0.797769	0.070374	0.053836	-0.24844	0.341652	-0.02777	0.275591	0.047974	0.989933	0.428155	0.968115
P2RY12	0.042861	-0.44667	0.016128	-0.13684	0.751571	0.000559	0.905216	0.310096	0.062479	-0.60541	0.068304	-0.41982	0.658262	5.27E-06	0.67023	0.002046
IL25	-0.05383	-0.08738	0.191505	-0.29152	0.690836	0.521942	0.153568	0.027793	0.096421	-0.21756	0.166316	-0.30233	0.738085	0.073193	0.862564	0.02057
CYP3A43	0.001406	-0.09013	0.335402	-0.16149	0.991793	0.512835	0.011505	0.234411	-0.05925	-0.37441	0.114004	-0.31946	0.347836	0.005181	0.77207	0.015229
ST3GAL1	0.006706	-0.03163	0.038676	0.410133	0.960878	0.818704	0.777174	0.001694	0.431004	-0.17467	-0.0138	-0.01888	0.99844	0.125572	0.464566	0.451022
RPL37P23	-0.1613	-0.04301	0.027473	0.003115	0.234974	0.752941	0.840709	0.981821	0.049832	-0.35463	0.066369	-0.31738	0.628876	0.007798	0.667552	0.015807
ST3GAL2	0.137394	-0.25622	0.270592	0.225529	0.308125	0.056641	0.041769	0.091643	0.089051	-0.31292	0.262022	-0.11748	0.721909	0.017112	0.958962	0.218408
ELOVL1	-0.09849	0.241891	-0.2444	0.269028	0.474362	0.078034	0.072132	0.04702	-0.09899	0.570142	-0.33967	0.414477	0.2564	0.999982	0.011221	0.997907

KLC2	-0.14374	-0.05383	0.014062	-0.2184	0.290555	0.696314	0.918071	0.105866	0.047444	-0.07494	0.014036	-0.316	0.621522	0.312325	0.536027	0.017229
FNDC4	0.106084	-0.22791	0.280909	-0.12682	0.432221	0.091154	0.034289	0.347203	-0.04418	-0.40212	0.141676	-0.27964	0.386613	0.003088	0.820522	0.031414
FBXL17	-0.00499	0.186283	-0.26807	0.162935	0.970603	0.169243	0.043791	0.225898	-0.11718	0.545034	-0.07207	0.422412	0.219011	0.999955	0.319005	0.998274
ST3GAL4	-0.03531	-0.12548	-0.05547	0.141687	0.794274	0.356818	0.681952	0.293107	-0.00331	-0.0958	-0.05438	-0.00461	0.491292	0.263266	0.361365	0.487863
PORCN	-0.06769	0.107167	-0.05172	-0.05406	0.616862	0.431782	0.702389	0.689598	-0.1889	0.34608	-0.20622	0.120069	0.104327	0.990762	0.087061	0.78664
GNPNAT1	0.045468	0.41625	-0.15186	0.10671	0.73699	0.001419	0.259473	0.429496	0.12908	0.517439	-0.12275	0.330559	0.803712	0.999885	0.21089	0.987576
ISL2	0.002669	-0.04517	0.264682	-0.17391	0.984281	0.740965	0.046627	0.195748	0.088616	-0.3566	0.137671	-0.29936	0.72094	0.007496	0.81643	0.021636
MARCH7	0.042776	0.220525	-0.19893	0.208459	0.752048	0.102424	0.137951	0.119681	0.088742	0.423901	-0.15809	0.333841	0.72122	0.998336	0.149818	0.988317
SPATA20	-0.06969	0.064927	-0.06916	0.040485	0.606488	0.634491	0.609204	0.764933	0.053498	0.317407	0.127668	0.128716	0.636466	0.98319	0.795558	0.800294
YTHDC2	0.08219	0.237355	-0.17575	0.278133	0.543317	0.07817	0.190969	0.036183	0.198045	0.332055	-0.04287	0.304675	0.906474	0.987918	0.389894	0.980242
SLC13A3	-0.01036	-0.2014	0.161316	-0.2196	0.939047	0.136638	0.230608	0.100732	-0.29483	-0.27119	-0.03009	-0.29397	0.023347	0.034152	0.422213	0.023684
AGXT2L1	0.077511	-0.22058	0.164947	-0.22564	0.56658	0.102331	0.220142	0.091475	-0.06638	-0.30466	0.067546	-0.20429	0.330575	0.019762	0.670345	0.086626
TUT1	-0.16625	-0.12587	0.088709	-0.11179	0.220722	0.359837	0.515597	0.412047	-0.1722	0.001916	-0.03722	-0.02444	0.126238	0.505042	0.404111	0.435965
USP46	-0.19585	0.408412	-0.43729	-0.15496	0.144266	0.001779	0.000671	0.249756	-0.18496	0.481694	-0.2622	0.177033	0.109242	0.99965	0.040933	0.880397
FAM129B	-0.01157	0.07908	0.04058	-0.00361	0.932574	0.566032	0.76651	0.978925	-0.09955	0.522276	-0.26361	0.228603	0.255191	0.999902	0.040085	0.936757
VWA1	0.16172	-0.17349	0.312115	0.065986	0.229426	0.201008	0.018099	0.625777	0.26223	-0.14573	0.202486	-0.09354	0.960842	0.166926	0.908891	0.268192
PLEKHG2	0.075124	-0.20989	0.086436	0.185891	0.578624	0.120524	0.522615	0.16622	0.248804	-0.15509	0.164606	-0.05526	0.952279	0.151693	0.860047	0.357657
DCLRE1B	-0.37168	0.024335	-0.41408	0.072487	0.004418	0.858704	0.001365	0.592067	-0.33859	0.36525	-0.40477	0.229597	0.010676	0.993719	0.002908	0.9376
OBFC2A	-0.09986	0.244907	-0.22443	0.418557	0.459862	0.068882	0.093279	0.001195	0.067959	0.434462	-0.02448	0.305175	0.673196	0.998723	0.436601	0.980411
ARMCX5	0.114926	0.155311	-0.12736	-0.1767	0.394616	0.253048	0.345127	0.188548	0.065427	0.198228	-0.02812	-0.01533	0.667129	0.906682	0.427268	0.459733
METTL4	-0.09012	0.171815	-0.20053	0.269929	0.504981	0.205447	0.13474	0.042292	-0.12805	0.372422	-0.2429	0.349749	0.200945	0.994121	0.056062	0.990741
RFX7	0.100664	0.268622	-0.16555	0.14898	0.456237	0.045306	0.218447	0.268709	0.06212	0.453645	-0.04258	0.458151	0.65914	0.999228	0.390622	0.999317
CDCP1	-0.22679	0.292	-0.28074	-0.09512	0.092793	0.030527	0.036099	0.48557	-0.38206	0.573917	-0.38842	0.314998	0.004395	0.999985	0.004186	0.983506
ST3GAL3	0.08727	0.100831	0.058415	0.075523	0.518598	0.459651	0.666017	0.576603	0.100556	-0.10222	0.128756	-0.01061	0.74695	0.249519	0.800367	0.472104
PCDH20	0.14317	-0.01335	-0.05277	0.220206	0.288032	0.922236	0.696648	0.099772	-0.11079	0.343924	-0.08753	0.193638	0.231783	0.990366	0.283749	0.901373
LOC648822	-0.10179	0.020024	-0.12795	-0.32344	0.451205	0.883541	0.342887	0.014122	0.142493	-0.05467	-0.07897	-0.11248	0.827586	0.359101	0.303061	0.228355
ST8SIA1	0.128532	-0.26063	0.045075	0.089527	0.340662	0.052374	0.739178	0.507798	-0.00015	-0.1388	0.04982	0.114424	0.499618	0.178797	0.627411	0.775535
LOC648921	0.013903	-0.00438	0.026634	-0.34724	0.918245	0.974461	0.844094	0.008135	-0.0042	-0.11136	-0.02192	-0.16674	0.488949	0.230621	0.443183	0.134034
PAPOLG	0.056547	0.320916	-0.21325	0.226293	0.676094	0.015886	0.11122	0.090521	0.036884	0.417352	-0.21593	0.224416	0.596136	0.998047	0.077131	0.933112
C12orf43	-0.08299	0.072994	-0.02722	-0.04735	0.539385	0.592907	0.840696	0.726533	0.000223	0.020611	0.302711	0.002949	0.500587	0.554072	0.97837	0.507758
LOC648987	-0.06309	-0.03664	-0.12005	-0.19415	0.64411	0.790566	0.37816	0.151622	-0.36408	0.11169	-0.17429	0.028325	0.006434	0.770043	0.126092	0.574114
BMP1	0.169357	0.123207	-0.02845	0.098028	0.207882	0.36565	0.833596	0.468175	0.084693	0.459494	-0.11599	0.381051	0.712128	0.999342	0.223992	0.995508
SILV	0.073526	-0.09496	0.227161	-0.1512	0.586755	0.486311	0.089257	0.261568	0.091758	-0.44097	0.173867	-0.35209	0.727905	0.00108	0.873322	0.008205
LPIN3	-0.02433	0.014742	0.084579	-0.03733	0.857431	0.914128	0.531624	0.782783	0.071604	0.192904	-0.05849	0.06069	0.681852	0.900506	0.351366	0.655664
RANBP17	0.063394	0.169609	-0.05046	0.005385	0.63944	0.211413	0.709341	0.96829	0.264545	0.046244	-0.05348	-0.15847	0.960466	0.61854	0.365126	0.149239
AGXT2	-0.01562	-0.27484	0.036503	-0.3056	0.908219	0.040363	0.787488	0.020791	-0.004	-0.47144	0.113299	-0.28688	0.489482	0.000471	0.770665	0.026619
STIL	-0.2545	0.20142	-0.24931	-0.13202	0.056076	0.136594	0.061451	0.3276	-0.3325	0.470923	-0.19176	0.295771	0.011982	0.999522	0.103484	0.977017
BCL11B	0.022982	-0.09428	0.21155	0.211341	0.865257	0.489447	0.114171	0.114537	0.138086	-0.01723	0.113826	-0.05234	0.819948	0.454748	0.771716	0.364882
SIM1	-0.03675	-0.11332	0.084334	-0.30066	0.786077	0.405645	0.532816	0.023057	0.032882	-0.35505	0.143399	-0.3721	0.585872	0.007733	0.826327	0.005442
LOC649203	-0.05435	-0.1705	-0.09867	-0.19189	0.68801	0.208977	0.465239	0.152736	0.267266	-0.34985	0.160397	-0.17874	0.963722	0.008577	0.853723	0.117313
CASD1	0.047188	0.037523	-0.1174	0.058534	0.727417	0.783654	0.384466	0.665376	0.000544	0.049443	-0.02471	0.054033	0.501432	0.627906	0.436002	0.639321
LRRC19	-0.07854	-0.01351	0.039427	-0.19119	0.561421	0.921254	0.770908	0.154261	-0.15068	-0.25877	0.084923	-0.20574	0.158765	0.041239	0.710435	0.085078
SLC30A5	-0.00986	0.353697	-0.25608	0.219074	0.941988	0.007491	0.054517	0.101572	-0.03081	0.574165	-0.23005	0.386181	0.419468	0.999985	0.06422	0.995985
CCDC71	-0.06055	0.055519	-0.04954	0.02903	0.654567	0.68444	0.714374	0.830264	-0.15806	0.269544	-0.16985	0.080738	0.147062	0.96497	0.132334	0.703121
RASAL3	-0.13942	-0.24436	0.100011	0.48581	0.300986	0.069521	0.45918	0.000128	-0.10034	-0.02839	-0.01899	0.095591	0.253514	0.425718	0.450726	0.736285
TTC23	0.099419	0.198423	-0.02365	-0.30557	0.461854	0.14265	0.861404	0.020808	-0.06319	0.227736	-0.20924	0.02257	0.338262	0.936015	0.083883	0.559178
MRPL14	-0.13318	0.055772	-0.17785	0.097556	0.327835	0.685896	0.189731	0.474432	-0.25567	0.389157	-0.2402	0.349983	0.043178	0.996242	0.055995	0.991445
SIM2	0.132516	-0.17259	0.382635	-0.11938	0.330258	0.207664	0.003609	0.380846	0.14162	-0.2815	0.188268	-0.36905	0.820426	0.032076	0.886673	0.006846
SIPA1	-0.02528	-0.23005	0.193699	0.182389	0.851938	0.088068	0.148821	0.174489	0.180963	-0.24419	0.1585	-0.13698	0.885616	0.050974	0.850812	0.18201
STAG3L4	-0.23838	-0.05304	-0.10413	0.091205	0.074143	0.697835	0.440785	0.499842	0.069802	-0.11211	-0.34877	-0.34008	0.675672	0.231712	0.010163	0.011135

NT5DC2	0.109632	0.026815	-0.17259	0.064214	0.416897	0.844476	0.199205	0.635105	-0.05029	0.386548	-0.22767	0.386501	0.36998	0.996018	0.066279	0.996014
LOC649445	0.130988	-0.09817	0.222382	-0.20312	0.335914	0.475818	0.099493	0.133241	-0.07339	-0.41718	0.207184	-0.30735	0.313929	0.001961	0.913966	0.018867
FLJ35776	-0.04244	0.088234	-0.08417	-0.06709	0.753935	0.517855	0.533612	0.620004	-0.05861	0.21383	0.059782	0.078224	0.351064	0.920793	0.650059	0.69524
CENPH	0.082792	-0.08308	0.068364	-0.11499	0.5441	0.546505	0.616625	0.398715	-0.12253	0.100184	0.111083	0.080112	0.214073	0.741199	0.763577	0.6974
MRPS26	-0.14073	-0.05943	0.072513	-0.06736	0.296401	0.66351	0.591929	0.618608	0.045329	-0.05795	-0.08907	-0.1333	0.61758	0.351034	0.280335	0.188584
SIX1	-0.13877	-0.12673	0.024054	-0.07369	0.303252	0.351978	0.859032	0.585937	-0.38508	0.147507	-0.31243	0.197454	0.004113	0.83603	0.018331	0.905801
MRPS24	0.020873	0.042574	0.013497	-0.16644	0.877752	0.755384	0.920624	0.215932	-0.18543	0.174104	-0.36803	-0.00589	0.108638	0.876405	0.006436	0.48451
SIX3	-0.07462	-0.13493	0.250776	-0.03932	0.581172	0.321429	0.059895	0.77153	0.12606	-0.23854	0.116554	-0.11242	0.798081	0.055189	0.77711	0.228477
MRPS15	0.092514	0.074574	-0.05159	0.141853	0.497675	0.588434	0.705741	0.297007	-0.07726	0.435396	-0.28992	0.292843	0.304899	0.998753	0.026689	0.975868
MRPS11	-0.1073	0.122967	-0.17566	0.071202	0.426935	0.36659	0.191213	0.598666	-0.17622	0.360911	-0.30833	0.202328	0.120703	0.993133	0.019669	0.911249
MRPS9	-0.09391	0.203812	-0.37544	-0.03479	0.491176	0.135566	0.004355	0.799049	-0.40019	0.350634	-0.33727	0.245062	0.002928	0.991554	0.011737	0.949652
MRPS6	0.241755	0.064209	0.035252	0.225507	0.070024	0.638253	0.794607	0.091675	0.061358	0.139571	-0.13863	0.21403	0.655568	0.81975	0.184735	0.920992
MRPS5	-0.13112	0.459543	-0.1567	0.083953	0.330954	0.000367	0.244409	0.534676	-0.14025	0.478649	-0.25618	0.217372	0.176271	0.999617	0.044692	0.926629
SKI	0.226766	-0.17969	0.268729	0.145001	0.08983	0.185125	0.043253	0.281847	0.339655	-0.06128	0.215532	-0.01968	0.989539	0.34289	0.922475	0.448364
MRPL41	-0.06366	-0.18511	0.092076	-0.03168	0.638048	0.171986	0.495742	0.815028	0.086471	-0.35632	0.006795	-0.24824	0.716138	0.007538	0.517667	0.048108
MRPL40	-0.21827	0.036152	-0.21673	0.001361	0.106074	0.793295	0.108625	0.992058	-0.49701	-0.02923	-0.153	-0.10292	0.000221	0.423534	0.157831	0.248058
MRPL38	-0.0282	-0.13754	0.063285	-0.071	0.835065	0.312096	0.640014	0.599702	-0.17529	0.075286	-0.23488	-0.05347	0.121963	0.6905	0.0602	0.362075
MRPL36	-0.1722	-0.1594	0.128349	-0.0224	0.200237	0.240612	0.341357	0.868638	0.084002	-0.33202	-0.00482	-0.18696	0.710564	0.01209	0.487477	0.106724
SKIL	0.091418	-0.0172	-0.1068	0.140329	0.498838	0.899886	0.429111	0.297806	0.134038	0.077591	0.062178	0.128833	0.812754	0.695864	0.657539	0.803254
MRPL34	0.117211	-0.20911	0.204972	-0.09862	0.389617	0.125487	0.129667	0.469622	0.036149	-0.22247	-0.01634	-0.18309	0.594255	0.068638	0.457574	0.111628
MRPL32	-0.0174	0.158626	-0.26453	0.331521	0.897761	0.242933	0.046757	0.011764	-0.12589	0.300039	-0.46094	0.182714	0.202245	0.978613	0.00072	0.88789
SKIV2L	-0.16573	-0.09125	-0.00481	0.046443	0.217926	0.503596	0.971654	0.731556	-0.21454	0.351527	-0.16833	0.159582	0.076107	0.991703	0.134508	0.855282
RPL23AP64	0.098556	-0.1251	0.168061	-0.061	0.469893	0.358253	0.215672	0.655186	0.136229	-0.22073	0.272136	-0.00454	0.816669	0.070223	0.964734	0.488066
BMP2	0.222235	-0.03501	0.036552	0.052715	0.096611	0.797842	0.787208	0.696947	0.261607	0.103891	0.164003	0.080625	0.960473	0.753989	0.859151	0.702859
SKP1	-0.07168	0.256655	-0.21702	0.209842	0.596212	0.056206	0.104905	0.117192	-0.14501	0.343288	-0.2126	0.24031	0.168136	0.990246	0.080439	0.946157
MRPL11	-0.00457	-0.1594	0.084822	-0.20321	0.97331	0.245047	0.534236	0.133064	-0.09107	-0.27982	-0.03906	-0.17597	0.273623	0.029824	0.399459	0.121037
MRPL9	0.091034	0.329603	-0.26083	0.000833	0.500653	0.013115	0.050032	0.995095	-0.13803	0.523457	-0.30813	0.386617	0.180142	0.999905	0.019736	0.996024
MRPL1	-0.11187	0.176949	-0.33007	0.109149	0.40738	0.192021	0.012159	0.418963	-0.18264	0.403646	-0.17659	0.308195	0.112206	0.997297	0.122936	0.98141
NDRG4	0.058326	-0.11051	0.192191	-0.06965	0.666496	0.417473	0.152071	0.606667	0.009361	-0.33413	0.166544	-0.19961	0.524616	0.011619	0.862897	0.091763
SLC26A6	0.105525	0.087341	0.20509	0.123523	0.434668	0.522119	0.125914	0.359968	0.109917	0.093789	0.041432	0.10108	0.766444	0.732362	0.606507	0.748064
SLC26A10	0.329652	-0.28461	0.277917	0.060669	0.012276	0.033504	0.036334	0.653934	0.359335	-0.50319	0.322398	-0.35874	0.992908	0.000182	0.984609	0.007178
LOC650157	-0.04295	0.089033	0.07972	-0.37807	0.751063	0.514057	0.555541	0.003736	-0.15219	-0.37288	0.054599	-0.31295	0.156324	0.005353	0.639161	0.017103
PINK1	0.122442	-0.26781	0.131433	-0.10944	0.364219	0.045987	0.329783	0.417728	0.143394	-0.38611	0.044974	-0.4271	0.829123	0.004021	0.615374	0.001537
SKP2	-0.17086	0.387544	-0.35586	-0.06237	0.203818	0.003168	0.006594	0.644883	-0.19806	0.593171	-0.25672	0.403672	0.093505	0.999993	0.04435	0.997298
SLA	-0.18168	-0.38302	0.078797	0.426726	0.176209	0.003572	0.560142	0.000932	-0.23343	-0.33248	0.016921	-0.16971	0.059226	0.011986	0.543923	0.129754
SLAMF1	-0.05023	-0.15689	0.058383	0.57838	0.710589	0.248192	0.666191	2.45E-06	-0.15973	0.145002	-0.11537	0.363022	0.144491	0.831845	0.225221	0.993424
SLC1A1	0.085961	0.431221	-0.00912	-0.10031	0.528739	0.001013	0.946825	0.462	-0.00043	0.489581	-0.21627	0.269822	0.498877	0.999723	0.076806	0.965119
REEP1	0.220523	-0.18941	0.174099	-0.15503	0.099272	0.162064	0.195246	0.249525	-0.09155	-0.29062	0.076029	-0.03901	0.272561	0.025035	0.690188	0.398441
GPBP1	0.006017	0.091925	-0.18688	0.038801	0.964571	0.500427	0.163947	0.774452	0.009855	0.150981	-0.07495	0.199798	0.525914	0.841726	0.312317	0.90845
ACD	0.059889	-0.15241	0.103647	-0.05902	0.661059	0.266632	0.447145	0.665705	0.047079	0.119517	0.140756	0.016664	0.621982	0.785568	0.821802	0.543764
RAPH1	-0.04664	0.279138	-0.09157	-0.00314	0.732849	0.039035	0.50209	0.981682	0.269061	0.208646	-0.1106	0.07314	0.964708	0.917968	0.23475	0.685471
SLC1A2	0.318713	-0.33577	0.304534	-0.32878	0.015679	0.01141	0.021265	0.012522	0.122251	-0.57061	0.07386	-0.47134	0.790849	1.73E-05	0.685162	0.000473
PFTK2	0.128898	-0.02618	0.126164	-0.04786	0.339276	0.848131	0.349707	0.723682	-0.01586	-0.15531	-0.03284	-0.07916	0.458811	0.154162	0.416195	0.302614
ALS2CR4	0.125104	0.106556	-0.26061	-0.01367	0.353803	0.434427	0.050238	0.919583	0.090123	0.255005	-0.1247	0.238275	0.72429	0.956398	0.207203	0.944604
NBEAL1	-0.08836	0.216529	-0.22221	-0.04282	0.51338	0.10896	0.096646	0.751785	-0.02173	0.203311	-0.11386	0.098468	0.443009	0.912319	0.228213	0.742493
PP8961	-0.04784	-0.18793	0.214677	-0.1182	0.72379	0.165431	0.108796	0.381193	0.11892	-0.38442	0.150635	-0.26507	0.784405	0.004173	0.838352	0.037513
FLJ41484	0.106982	-0.41036	0.163466	-0.1777	0.428316	0.001683	0.224368	0.186019	-0.0449	-0.33742	0.053019	-0.25701	0.383508	0.010918	0.63529	0.042328
SLC1A3	0.13501	0.109583	-0.26887	0.220071	0.316676	0.421411	0.043137	0.099986	0.227793	0.462494	0.004108	0.339632	0.933831	0.99931	0.510556	0.988771
IMPA1P	-0.09732	0.075785	-0.00913	-0.12186	0.47143	0.578806	0.946264	0.366539	-0.27146	0.126779	-0.34769	-0.02128	0.034007	0.79943	0.009635	0.444172
RTN4R	0.069816	0.018203	0.287416	-0.08845	0.605816	0.894067	0.030171	0.512934	0.144304	-0.2372	0.212514	-0.25908	0.830667	0.056233	0.919473	0.041047

SLC4A3	0.105576	-0.09006	0.211724	-0.21044	0.434444	0.509202	0.113866	0.11613	-0.04645	-0.05379	-0.04085	-0.09363	0.380954	0.362816	0.396161	0.270343
MRPL44	-0.13962	0.172923	-0.25916	0.273613	0.30477	0.206765	0.053764	0.041303	-0.20859	0.591304	-0.31705	0.419609	0.082091	0.999992	0.016917	0.998151
VPS33A	-0.13632	0.082115	-0.30126	0.118987	0.316426	0.551176	0.024052	0.38242	-0.36918	0.429603	-0.13104	0.242058	0.005787	0.998556	0.195445	0.947463
NOL6	-0.03216	0.118963	-0.08523	0.116862	0.812281	0.382519	0.528461	0.386648	-0.105	0.557272	-0.26231	0.385303	0.243684	0.999971	0.040865	0.995907
TMEM135	-0.02543	0.052951	-0.15683	0.243908	0.851043	0.698325	0.244004	0.067491	0.059246	0.243451	-0.09699	0.248893	0.652142	0.948487	0.26311	0.95234
SLC1A4	0.063327	0.239696	0.102807	0.161117	0.639795	0.07519	0.446657	0.23119	-0.11776	0.430085	-0.11886	0.350467	0.217863	0.998574	0.21838	0.991526
JMJD4	0.038905	-0.20456	0.269625	-0.03302	0.773864	0.130454	0.042534	0.807356	0.102114	-0.17668	0.141333	-0.20756	0.750251	0.120079	0.822795	0.083157
KRI1	-0.02239	-0.05738	0.067853	-0.00546	0.868693	0.674467	0.616014	0.967872	-0.02154	0.044417	0.104349	0.079871	0.443502	0.615278	0.752431	0.701127
BMP3	0.209465	0.156737	-0.00968	-0.06208	0.121289	0.248661	0.943557	0.649467	-0.32865	0.581427	0.026083	0.432223	0.012874	0.999989	0.567524	0.998649
SLC1A5	0.169736	0.172588	-0.0019	0.182715	0.206851	0.203384	0.988781	0.173706	0.112273	0.415101	-0.23035	0.184777	0.77122	0.997938	0.063967	0.89053
MARCKSL1	0.121441	-0.16108	0.25046	0.085214	0.368182	0.235626	0.06023	0.528536	0.345776	-0.32118	0.370941	-0.18342	0.990707	0.014762	0.993938	0.111205
UPF3B	-0.15097	0.242211	-0.20071	0.050703	0.262309	0.072091	0.134383	0.707987	-0.03306	0.309379	0.028621	0.013695	0.414646	0.980681	0.573159	0.535574
SLC1A6	-0.02832	-0.11231	0.188593	-0.17163	0.834345	0.409867	0.160037	0.201748	-0.0239	-0.29981	0.209239	-0.26342	0.437356	0.021471	0.916121	0.038461
UPF3A	-0.11036	-0.05377	0.163342	-0.04762	0.413795	0.693892	0.224725	0.725023	-0.01402	-0.07529	0.062534	-0.21695	0.463171	0.309485	0.658394	0.073774
RSRC2	-0.05036	0.095251	-0.29264	0.055998	0.709895	0.484987	0.02717	0.679071	0.020086	0.169299	-0.08377	0.089452	0.552704	0.86966	0.292156	0.722802
SLC1A7	-0.03064	-0.17108	0.192466	-0.11095	0.821016	0.207412	0.151475	0.411298	0.055804	-0.35211	0.117782	-0.21209	0.643694	0.008202	0.779516	0.078532
PRAMEF2	0.039317	-0.11118	0.216942	-0.2696	0.771531	0.412021	0.105026	0.042555	-0.07562	-0.17311	0.011675	-0.16721	0.308731	0.124973	0.530336	0.13335
INTS3	-0.18349	-0.16499	0.05014	-0.23487	0.175843	0.228682	0.713631	0.081435	-0.0809	-0.25998	0.076772	-0.20085	0.296505	0.0405	0.691902	0.090375
ANKRD57	-0.08022	0.285176	-0.26088	-0.03176	0.553062	0.03314	0.049988	0.814574	0.040527	0.413991	-0.20455	0.19202	0.605424	0.997882	0.08885	0.899452
WNK1	-0.02011	0.107146	-0.14502	-0.09362	0.88195	0.431874	0.281799	0.488507	-0.02691	-0.12143	0.029593	-0.10005	0.430346	0.213421	0.575615	0.256582
SLC2A1	-0.15683	0.378532	-0.34542	-0.03332	0.243992	0.004019	0.008497	0.805619	-0.22313	0.57292	-0.26347	0.384014	0.068038	0.999984	0.040172	0.995789
SLC2A2	0.08111	-0.23923	0.228321	-0.30043	0.552338	0.078568	0.090552	0.024466	0.086443	-0.29206	0.175077	-0.31598	0.713833	0.025782	0.872169	0.017236
FLJ38576	0.068521	-0.23276	0.278668	-0.26059	0.612534	0.08429	0.035811	0.050256	0.027777	-0.39083	0.17312	-0.32429	0.572696	0.003621	0.872285	0.01395
POM121L3	-0.03766	-0.22223	0.025078	-0.21883	0.780933	0.099736	0.853095	0.101969	-0.11465	-0.26194	0.107454	-0.24595	0.224021	0.039329	0.75884	0.049714
SLC2A3	0.140023	-0.24127	0.072033	0.420792	0.298871	0.073241	0.594392	0.001117	0.162383	-0.42249	0.167948	-0.22199	0.859528	0.001723	0.864939	0.069067
LOC651503	0.140372	-0.10576	0.279087	-0.07045	0.30213	0.442189	0.037253	0.605913	-0.06504	-0.19831	-0.02522	-0.20682	0.333801	0.093224	0.434689	0.083939
SLC2A4	0.111241	-0.2251	0.247161	0.013008	0.410051	0.095317	0.063802	0.923493	0.175041	-0.38447	0.300203	-0.0766	0.877691	0.004168	0.977445	0.306428
ANKRD33B	-0.01771	-0.16871	0.243867	-0.19109	0.895971	0.213867	0.067538	0.15447	0.090024	-0.43979	0.300657	-0.31657	0.724072	0.001113	0.977615	0.016038
SLC2A5	0.028477	-0.07825	0.256496	0.035394	0.833454	0.56646	0.05411	0.793801	0.070303	-0.33658	0.132192	-0.27074	0.678772	0.011092	0.806651	0.034388
SLC3A1	0.083398	-0.20273	0.169676	-0.23747	0.537386	0.134016	0.207016	0.075295	0.098054	-0.40746	0.169265	-0.2368	0.741603	0.002473	0.866836	0.056541
LOC651963	-0.03294	-0.00484	0.141348	0.049228	0.807799	0.971765	0.294274	0.716118	0.070728	-0.19515	0.134406	-0.17351	0.67978	0.096852	0.81064	0.124413
BMP4	0.043976	0.02991	0.000524	0.195487	0.747587	0.828385	0.996939	0.148777	-0.11775	0.39939	-0.1383	0.395922	0.220549	0.996715	0.185317	0.996451
SLC3A2	-0.04232	0.383861	-0.21456	0.242477	0.754601	0.003494	0.108997	0.069166	0.056751	0.5112	-0.25191	0.337835	0.646027	0.999859	0.047523	0.989168
SLC4A1	-0.14714	-0.37145	0.147058	-0.09307	0.274737	0.004823	0.275003	0.491086	-0.2507	-0.37472	-0.13618	-0.26875	0.050359	0.006103	0.19195	0.038867
PCDH15	-0.00472	-0.16037	0.043894	-0.18211	0.972228	0.237711	0.745782	0.175156	-0.02102	-0.2435	0.105268	-0.21343	0.445507	0.053499	0.751767	0.079607
SLC4A2	-0.03644	-0.1113	0.029069	-0.00367	0.787823	0.414121	0.830043	0.978374	-0.05073	0.111293	-0.06638	0.070791	0.368877	0.769239	0.332411	0.67993
NADK	-0.11498	0.098743	-0.02718	-0.14551	0.394401	0.469047	0.840949	0.280155	-0.06871	0.07123	-0.03578	-0.01736	0.32501	0.680969	0.407756	0.454411
PRO0461	-0.16518	0.233429	-0.01719	0.009012	0.219477	0.083375	0.899032	0.946956	0.054734	0.165689	-0.09713	-0.03867	0.641055	0.864435	0.262795	0.399301
SLC5A1	0.134282	-0.25333	0.245883	0.192903	0.319316	0.059586	0.065232	0.15053	0.104982	-0.21512	0.070535	-0.2254	0.756268	0.075541	0.677393	0.066018
SLC5A2	0.052494	0.011798	0.244219	-0.26127	0.698156	0.931225	0.067131	0.049632	0.214884	-0.31631	0.253667	-0.35857	0.924231	0.016113	0.953657	0.007203
ZNF643	-0.06177	-0.15715	0.010431	-0.27579	0.648085	0.247388	0.938614	0.037849	-0.20394	-0.09989	-0.21395	-0.14496	0.086999	0.254459	0.079084	0.168232
SPATS2	0.167635	0.207394	-0.06359	0.324628	0.21261	0.125098	0.638399	0.01375	0.185653	0.335927	-0.21693	0.23187	0.891637	0.988768	0.076161	0.939496
ZSWIM4	-0.05018	-0.02127	0.029721	-0.09816	0.710842	0.876322	0.826288	0.467574	-0.00384	0.126227	-0.04281	-0.0477	0.489906	0.798395	0.390028	0.376464
SMTN	0.461548	-0.27085	0.356123	0.037168	0.000302	0.043484	0.006551	0.78371	0.482855	-0.41369	0.402978	-0.24916	0.999661	0.002133	0.996971	0.047478
C5orf42	-0.08497	0.025262	-0.07738	-0.23332	0.529716	0.853376	0.567234	0.080691	-0.14034	-0.07013	0.012454	-0.06527	0.176115	0.321632	0.532358	0.333257
ZNF649	0.116595	0.174715	-0.13443	-0.00101	0.392128	0.202027	0.323247	0.9941	0.110744	0.099592	-0.15384	0.064085	0.765534	0.742446	0.159382	0.662109
MPPE1	0.089797	0.047087	-0.0159	-0.00817	0.506512	0.730387	0.906552	0.951914	-0.05106	0.24923	0.057746	0.028621	0.368059	0.952571	0.646833	0.57488
SLC5A3	0.157309	0.155497	-0.08467	0.191189	0.24255	0.252471	0.531198	0.154259	0.30627	0.128386	-0.04667	0.102783	0.980778	0.802427	0.380395	0.751662
C1orf163	-0.06028	0.383952	-0.21917	0.096142	0.659003	0.003805	0.104613	0.480891	-0.05346	0.617254	-0.25172	0.410965	0.362093	0.999998	0.047655	0.997724
PYCRL	-0.16384	-0.21042	0.059178	-0.19688	0.223308	0.119558	0.661915	0.142125	-0.04051	-0.22378	0.108611	-0.16275	0.39463	0.067454	0.761206	0.139922

UBE2Z	-0.21742	0.081005	-0.36266	0.146025	0.107477	0.556587	0.006016	0.282878	-0.19769	0.56661	-0.20484	0.424646	0.093924	0.99998	0.088537	0.998367
C8orf33	0.076582	0.26413	-0.17196	-0.08715	0.571256	0.049174	0.200888	0.519151	0.139734	0.258106	-0.12799	-0.01383	0.820033	0.956537	0.203851	0.464083
WNK4	0.160506	-0.07836	0.247557	-0.09967	0.237322	0.569607	0.06584	0.464853	0.253036	-0.41954	0.136703	-0.38712	0.951263	0.002292	0.808973	0.004716
WNK3	0.147425	-0.12978	0.133277	-0.11816	0.273793	0.340418	0.322983	0.381364	0.239767	-0.4305	0.056847	-0.18506	0.945746	0.001411	0.644648	0.109113
WNK2	0.132604	-0.24572	0.267854	-0.21537	0.325455	0.067939	0.043965	0.107636	0.140999	-0.32007	0.151497	-0.33491	0.82502	0.015061	0.839748	0.011451
SLC5A4	0.074991	-0.24303	0.16828	0.378052	0.582801	0.073796	0.215066	0.004069	-0.05331	-0.13573	0.149823	0.029182	0.362464	0.184211	0.837029	0.576331
SLC5A5	-0.03332	-0.32796	0.182313	-0.19219	0.807372	0.01451	0.178678	0.155889	-0.03926	-0.22902	0.139592	-0.16187	0.397808	0.062887	0.819786	0.141245
SLC6A1	0.024529	-0.2988	0.280627	0.096623	0.856279	0.025288	0.034477	0.47461	0.189771	-0.37847	0.09068	-0.32066	0.896739	0.00475	0.723211	0.014901
LOC652904	-0.00955	0.005783	0.148229	-0.0764	0.944289	0.96626	0.275599	0.57574	0.074179	-0.28806	0.100469	-0.2437	0.68791	0.02611	0.744302	0.051334
SNORA48	0.140405	-0.18626	0.267482	0.108881	0.302015	0.173331	0.046263	0.42441	0.041295	-0.21212	0.052022	-0.17839	0.607374	0.078503	0.63284	0.117783
LOC652968	-0.04821	0.023395	-0.03991	-0.0778	0.721748	0.864108	0.768186	0.565116	0.02198	-0.0405	-0.06104	-0.0297	0.557642	0.394636	0.345197	0.422332
C9orf29	0.10047	-0.08665	0.151268	-0.48636	0.457112	0.525429	0.261344	0.000125	0.213988	-0.34965	0.24578	-0.40384	0.923354	0.008613	0.948176	0.002691
FUSSEL18	0.114831	-0.09125	0.209477	-0.15832	0.395011	0.503608	0.117844	0.239483	0.106582	-0.36317	0.256707	-0.29238	0.759593	0.006556	0.955645	0.024319
BMP5	0.239596	-0.25371	0.172193	0.127393	0.075315	0.061619	0.204435	0.349457	0.228063	-0.03962	0.046915	0.096106	0.934066	0.398051	0.61883	0.735003
SLC6A2	0.125571	-0.15212	0.180709	-0.23734	0.35645	0.267543	0.182595	0.078189	0.226525	-0.37079	0.301675	-0.21278	0.934967	0.005594	0.977992	0.077837
DOC2BL	-0.00407	-0.04009	0.184169	0.026066	0.97603	0.769232	0.17025	0.847379	0.081004	0.106944	0.138772	-0.05557	0.703729	0.760341	0.818357	0.356872
LOC653052	-0.24123	-0.09586	0.147439	0.147292	0.070649	0.482193	0.273748	0.274233	-0.11286	-0.15546	0.079538	-0.14456	0.227591	0.15111	0.698247	0.168905
SLC6A3	-0.06103	-0.017	0.243613	-0.30427	0.652005	0.901052	0.067834	0.021385	0.059441	-0.51223	0.185885	-0.45267	0.652618	0.000137	0.889251	0.000792
LOC653113	-0.16193	-0.01148	0.021908	-0.37256	0.228819	0.93305	0.871497	0.004318	0.008815	-0.24925	0.066321	-0.36015	0.523183	0.047418	0.667439	0.006975
ZBTB8	0.256584	0.184324	-0.1884	0.024988	0.056277	0.177928	0.164371	0.854953	0.291669	0.204931	-0.04147	0.212915	0.975394	0.914063	0.393395	0.922294
C2orf84	-0.14934	-0.13068	0.16462	-0.16452	0.267556	0.337065	0.22107	0.221368	-0.12245	-0.18234	0.14034	-0.26946	0.208774	0.112596	0.821083	0.035075
hCG_19957	0.148381	-0.02158	0.071205	0.047953	0.27066	0.874559	0.598649	0.723172	-0.24861	0.11489	-0.12195	0.207484	0.049806	0.773827	0.215173	0.914284
LOC653198	0.044107	-0.05925	0.065679	0.038998	0.744589	0.664474	0.627391	0.773335	0.060913	-0.12204	0.092465	-0.19547	0.654496	0.212252	0.724734	0.099085
SLC6A4	-0.16953	-0.10432	0.109693	-0.29521	0.207402	0.444175	0.416635	0.025791	-0.13717	-0.22385	0.020742	-0.19186	0.181671	0.067389	0.55379	0.100739
hCG_17810	-0.00635	0.01732	-0.27624	0.060618	0.962927	0.900123	0.039315	0.657187	-0.19523	0.348073	-0.24856	0.312496	0.096759	0.991116	0.049841	0.982759
LOC653240	-0.07255	0.113349	0.100167	-0.04534	0.591757	0.405533	0.458476	0.737689	0.065655	-0.07951	-0.05315	-0.12445	0.665855	0.301825	0.365936	0.207669
SLC6A6	-0.00023	0.290344	-0.11576	0.297293	0.998622	0.029952	0.391175	0.024715	-0.15726	0.456676	-0.08631	0.374312	0.148301	0.999289	0.286473	0.994808
RPL19P9	-0.11655	-0.00543	0.078193	-0.22176	0.387924	0.968304	0.56316	0.09735	-0.19404	-0.08559	-0.13463	-0.16576	0.098153	0.285851	0.188966	0.135468
KIAA0895L	0.011932	-0.04197	0.111027	-0.23734	0.929802	0.758745	0.410958	0.075453	-0.11025	0.126352	-0.01947	-0.00342	0.232882	0.79863	0.449501	0.49099
LOC100133	-0.01844	-0.06511	0.107417	-0.23309	0.891702	0.633522	0.426428	0.080994	-0.0774	-0.13834	0.13362	-0.18395	0.304574	0.1796	0.80923	0.110522
SLC6A7	0.052127	-0.23515	0.281462	-0.05329	0.700166	0.081066	0.033922	0.693825	0.102085	-0.33277	0.087405	-0.20211	0.750189	0.011921	0.715975	0.088988
AQP12B	-0.10864	-0.16391	0.016031	0.035532	0.421164	0.227383	0.905786	0.79301	-0.0369	-0.08803	0.061788	-0.00357	0.403818	0.280366	0.656604	0.490598
C6orf124	-0.09758	-0.10208	0.157157	-0.33746	0.470205	0.454095	0.243011	0.010254	0.060928	-0.30404	0.201143	-0.34107	0.654533	0.021153	0.904775	0.010929
PSG10	-0.07269	-0.20071	0.002484	-0.00603	0.591005	0.138001	0.985367	0.964476	0.025677	-0.14721	-0.01288	-0.08322	0.567254	0.164465	0.466549	0.291204
SLC6A8	-0.07834	-0.05436	0.077204	-0.19726	0.562435	0.690669	0.568125	0.141352	0.153503	-0.34936	0.089826	-0.35286	0.845782	0.008662	0.721333	0.008079
PHLDB3	-0.07785	-0.02345	0.050639	-0.25511	0.564866	0.86382	0.70834	0.055467	-0.07069	-0.17596	0.002533	-0.23692	0.320321	0.121051	0.506588	0.056448
SLC6A9	-0.22777	-0.05356	0.001175	-0.29675	0.088376	0.694998	0.993078	0.024994	-0.50833	0.125206	-0.20144	0.078309	0.000155	0.796472	0.092263	0.697524
LYPLA2P1	-0.10189	0.188962	-0.09925	-0.00979	0.45074	0.163084	0.462616	0.942388	-0.14964	0.370247	-0.27021	0.246911	0.160449	0.994341	0.036311	0.950964
TMEM183E	-0.1129	-0.12351	0.071084	-0.11897	0.403042	0.364452	0.59927	0.378064	0.100411	-0.2263	0.085118	-0.27133	0.746642	0.06523	0.710871	0.034075
RPL21P93	0.19004	0.060828	-0.09605	0.08592	0.156797	0.656075	0.477267	0.525109	0.354774	-0.13108	0.023404	-0.00901	0.992224	0.192605	0.560643	0.476316
SEC1	-0.06364	-0.09387	0.196403	-0.2505	0.638141	0.491371	0.143121	0.060187	0.109047	-0.39564	0.153883	-0.31824	0.764667	0.003249	0.843575	0.015566
FAM128A	0.006408	-0.09553	0.189112	-0.06901	0.96227	0.483715	0.158871	0.609972	0.043669	-0.18325	0.014092	-0.13437	0.61339	0.11142	0.536603	0.186651
SLC6A11	0.002811	-0.2306	0.225697	-0.21988	0.98344	0.08729	0.091396	0.100288	0.12297	-0.39481	0.169114	-0.31504	0.792225	0.00331	0.866619	0.016482
LOC653808	-0.0872	-0.20637	0.179317	-0.26335	0.518955	0.127024	0.181984	0.047784	0.007483	-0.46308	0.102576	-0.37411	0.519682	0.000596	0.748733	0.005215
ARP11	-0.0787	0.178369	0.00499	0.039435	0.560648	0.188421	0.970611	0.770864	-0.10267	0.175839	-0.02595	0.158218	0.248577	0.87878	0.432806	0.853184
SLC6A12	0.027981	-0.22019	0.218434	-0.18219	0.83631	0.102962	0.102598	0.17496	0.156884	-0.30966	0.106277	-0.30069	0.848303	0.019227	0.753838	0.022372
LOC653924	-0.13067	-0.20818	0.115757	0.060364	0.332622	0.123649	0.391184	0.65556	0.063739	-0.27497	0.208529	-0.26033	0.663062	0.032195	0.915381	0.040289
BMP6	0.353916	-0.08071	0.015139	0.297441	0.006917	0.554321	0.911003	0.02464	0.326329	0.125572	0.111644	0.019529	0.985656	0.794438	0.764701	0.550662
SLC6A13	-0.0152	-0.25884	0.100195	-0.09466	0.910622	0.054072	0.458351	0.483667	-0.03935	-0.37848	0.114427	-0.35097	0.397579	0.004749	0.77291	0.00839
SLC7A1	0.092962	0.248775	-0.16571	0.114199	0.491584	0.064479	0.21799	0.397636	-0.02761	0.624069	-0.33376	0.396571	0.427739	0.999998	0.012527	0.996819

SLC7A2	0.045817	-0.07299	0.083804	-0.13842	0.735041	0.592928	0.535401	0.304482	0.047728	-0.30576	0.099249	-0.27567	0.62361	0.019393	0.741718	0.031846
OCM	-0.07999	-0.24521	0.038337	-0.07084	0.554205	0.068525	0.777075	0.600514	0.139026	-0.34928	0.129358	-0.29386	0.821594	0.008676	0.801476	0.023726
hCG_17718	0.149576	0.21458	0.042158	-0.1706	0.266776	0.112261	0.755515	0.204528	0.017284	0.027651	-0.03603	0.020706	0.545386	0.572369	0.407122	0.554319
SLC8A2	-0.08735	-0.0536	0.238564	-0.17894	0.518226	0.694833	0.073918	0.182914	0.083899	-0.27101	0.14334	-0.24372	0.710331	0.034248	0.826226	0.051316
SNORA5A	0.046734	-0.11015	-0.06107	0.15365	0.729939	0.419002	0.651798	0.253818	0.170721	0.161699	-0.12499	0.013821	0.87168	0.858499	0.206651	0.536319
SNORA8	0.036907	0.071281	0.051556	0.141269	0.787124	0.605053	0.705904	0.299021	-0.00043	0.00463	-0.09436	-0.04496	0.49886	0.512181	0.26877	0.383355
SNORA75	-0.03296	-0.09767	0.231344	0.240675	0.807685	0.47392	0.083365	0.071324	-0.0214	-0.19374	-0.02845	-0.12328	0.443874	0.098509	0.426412	0.207182
SNORA13	0.125344	-0.27916	0.160333	-0.0076	0.357326	0.039017	0.237836	0.955667	0.062997	-0.50568	-0.00173	-0.41922	0.661267	0.000169	0.495496	0.001866
LOC65434C	0.016697	-0.00296	-0.0815	-0.08309	0.901887	0.982719	0.546729	0.538907	0.11807	-0.18004	0.082809	-0.22966	0.782743	0.115591	0.705676	0.062346
LOC654342	-0.11837	-0.10502	0.088694	-0.0098	0.380494	0.441129	0.511769	0.942332	0.034865	-0.17261	-0.06856	-0.07216	0.590965	0.125661	0.327265	0.316845
LGALS9C	-0.18654	0.272225	-0.13198	-0.07983	0.168647	0.044363	0.332241	0.558632	-0.22151	0.314846	-0.12145	0.114876	0.069509	0.983462	0.213375	0.776434
LRTM2	-0.00034	-0.18103	0.365229	-0.04877	0.998007	0.185935	0.005644	0.721157	0.009902	-0.37659	0.167113	-0.2258	0.526038	0.004945	0.863727	0.065667
LOC654433	-0.02864	-0.12526	-0.23369	-0.20457	0.832528	0.357658	0.080201	0.126905	0.255219	0.265467	-0.1784	0.019978	0.956535	0.962713	0.120495	0.552422
FER1L6	-0.20879	0.386431	-0.23409	-0.16441	0.119084	0.003263	0.079664	0.221657	-0.28719	0.416977	-0.1759	0.159247	0.026483	0.998029	0.123876	0.854768
SLC7A4	-0.0805	0.016315	0.027316	-0.1957	0.551648	0.905005	0.840151	0.144597	-0.15215	0.234162	-0.04026	0.107446	0.15639	0.941364	0.396446	0.761378
IQCJ	0.1382	-0.30528	0.138895	-0.21442	0.309747	0.023425	0.307296	0.112543	0.040117	-0.40508	0.055038	-0.25509	0.604381	0.002615	0.640236	0.043547
SLC8A1	0.316511	-0.20653	0.163734	0.176154	0.016454	0.126713	0.2236	0.189943	0.247853	-0.40074	0.277051	-0.06687	0.951622	0.002891	0.967297	0.329397
SLC8A3	-0.01229	-0.16888	0.156652	-0.11606	0.927681	0.213422	0.244548	0.389941	0.042077	-0.43773	0.114121	-0.24434	0.609359	0.001174	0.772301	0.050864
LOC65478C	-0.03607	0.143245	-0.11153	-0.30616	0.789973	0.292242	0.408823	0.020551	-0.06451	0.04883	-0.04548	0.023386	0.336866	0.624959	0.384698	0.560599
LOC100133	0.033408	-0.01669	0.087322	0.092028	0.805137	0.902807	0.518348	0.495966	0.161589	0.256812	-0.06059	0.14069	0.858332	0.957544	0.346279	0.824485
PCP4L1	0.092459	0.32767	0.075965	0.277535	0.493944	0.013692	0.57437	0.036602	0.097234	0.46552	-0.08026	0.387192	0.739839	0.999443	0.300099	0.996074
SLC9A1	0.090579	0.16385	-0.02086	0.000598	0.502802	0.227562	0.877592	0.996475	0.00543	0.539368	-0.29684	0.293004	0.514285	0.999945	0.023847	0.975932
SLC9A2	-0.06675	0.321258	-0.09933	-0.40131	0.624968	0.016777	0.466395	0.002174	-0.04599	0.310513	-0.13702	-0.04947	0.380765	0.982148	0.184719	0.372031
BMP7	-0.04816	0.451266	-0.12967	-0.01659	0.724468	0.000544	0.340852	0.90342	-0.12922	0.75395	-0.20196	0.429167	0.196038	1	0.091688	0.998541
SLC9A3	-0.11232	0.188568	-0.21604	0.107008	0.409834	0.167974	0.109774	0.432471	-0.16974	0.183577	0.012309	0.093137	0.129705	0.889	0.53198	0.730936
SLC9A5	-0.06644	-0.13555	0.173942	-0.30766	0.623397	0.319196	0.195655	0.019908	0.205685	-0.37714	0.327614	-0.449	0.914866	0.004888	0.985986	0.000874
SLC10A1	0.044565	-0.29462	0.218726	-0.10423	0.744323	0.029	0.105328	0.444595	0.00425	-0.3479	0.109666	-0.27547	0.511052	0.009595	0.760727	0.033513
SLC10A2	-0.01739	-0.02333	0.230822	-0.2812	0.897829	0.864467	0.084082	0.034096	0.058788	-0.31491	0.150109	-0.25174	0.651023	0.016521	0.837496	0.045738
SLC11A1	-0.12844	-0.3486	0.077671	-0.10458	0.345497	0.009099	0.569363	0.443062	-0.09713	-0.46616	0.060983	-0.40449	0.262794	0.000624	0.652927	0.002927
SLC12A1	-0.20336	-0.1453	0.057901	-0.06805	0.129204	0.285293	0.668782	0.614973	-0.05672	-0.2171	0.21738	-0.14375	0.354041	0.073633	0.924273	0.17027
SLC12A2	0.279969	-0.14068	0.129792	0.101741	0.034921	0.301051	0.33591	0.451409	0.257393	-0.05196	0.110548	-0.07176	0.957908	0.365816	0.765138	0.317787
SLC12A3	-0.09726	-0.19489	0.136525	-0.18607	0.471679	0.150046	0.311225	0.165815	-0.07849	-0.36858	0.224911	-0.26022	0.302048	0.00586	0.93128	0.040358
BMP8B	-0.01532	-0.17263	0.283724	-0.22329	0.909931	0.203284	0.032454	0.094995	-0.00691	-0.37081	0.089243	-0.28014	0.481818	0.005592	0.720046	0.02967
SLC12A4	0.193359	-0.22371	0.189186	0.321218	0.14955	0.097434	0.158703	0.014836	0.240084	0.021273	0.065043	0.089789	0.945986	0.555799	0.664396	0.723549
SLC13A1	0.067986	-0.14999	0.148503	-0.31914	0.615322	0.269882	0.270262	0.015533	0.089722	-0.41294	0.127501	-0.38451	0.721103	0.002408	0.795249	0.004555
SLC14A1	0.384644	-0.327	0.144985	-0.07861	0.003422	0.014818	0.286359	0.564689	0.426291	-0.52293	0.344064	-0.4164	0.998249	0.000114	0.988899	0.002219
SLC15A1	-0.22234	-0.08489	-0.01254	-0.24513	0.096451	0.533925	0.926212	0.066082	-0.02678	-0.16541	0.253256	-0.17428	0.429883	0.135972	0.953382	0.123349
SLC15A2	0.001441	0.388451	-0.19102	0.035674	0.991589	0.003092	0.158474	0.794075	-0.04857	0.395856	-0.00869	0.303045	0.375679	0.996445	0.47767	0.978491
SLC16A1	0.055267	0.255622	-0.37279	0.19122	0.683033	0.057239	0.004292	0.154192	0.224494	0.296592	-0.17389	0.290274	0.933181	0.977331	0.126647	0.974821
SLC16A2	0.239119	-0.05251	0.250909	0.099774	0.075917	0.703415	0.062147	0.464394	0.276088	0.030751	0.163243	0.191039	0.968363	0.580381	0.858018	0.898274
SLC17A1	0.289147	-0.2893	0.355368	-0.24167	0.032267	0.033859	0.007757	0.075473	0.027857	-0.22205	0.077408	-0.18265	0.572071	0.071324	0.691264	0.114893
SLC34A1	0.109501	-0.18862	0.286131	-0.17139	0.417458	0.163864	0.03095	0.202389	0.023064	-0.38123	0.093162	-0.27095	0.560463	0.004475	0.728635	0.034279
SLC18A1	0.02409	-0.06434	0.253918	-0.08069	0.86011	0.640703	0.058976	0.554406	-0.00674	-0.27104	0.229769	-0.13135	0.482262	0.034232	0.935538	0.192117
SLC18A2	0.2123	-0.16681	0.058089	0.319737	0.112864	0.219169	0.667772	0.01533	-0.16732	0.211339	0.032718	0.429408	0.133182	0.920717	0.584476	0.998549
SLC18A3	0.026015	-0.11721	0.260707	-0.21336	0.84767	0.389611	0.050147	0.111031	0.2525	-0.39736	0.123496	-0.31098	0.952875	0.003438	0.787756	0.018796
SLC19A1	0.026906	-0.17441	0.277913	-0.04812	0.842521	0.198567	0.036336	0.722258	0.025368	-0.37344	0.241803	-0.2468	0.56569	0.005756	0.943099	0.051091
SLC20A1	-0.08119	0.298742	-0.12142	0.2247	0.548243	0.025319	0.368249	0.092875	-0.06328	0.211086	-0.12133	0.259103	0.338048	0.920461	0.213614	0.958964
SLC20A2	0.014114	0.226975	-0.19785	-0.22506	0.91701	0.092521	0.140147	0.092338	-0.20286	0.220442	-0.13041	0.016125	0.088174	0.929509	0.19659	0.542352
SLC25A1	0.017937	-0.04778	0.06398	-0.03139	0.894643	0.726555	0.636342	0.816708	-0.01362	0.159634	-0.00371	0.036058	0.464203	0.855362	0.490354	0.594023
SLCO2A1	0.188732	-0.09623	0.183066	0.476416	0.159725	0.480508	0.172866	0.00018	0.255651	-0.00633	0.098085	0.179529	0.956811	0.483348	0.739242	0.883731

SLCO1A2	0.139451	-0.3534	0.262926	-0.03069	0.309907	0.008758	0.052453	0.824001	0.290762	-0.4245	0.22982	-0.35507	0.975023	0.001639	0.935582	0.00773
BMPR1B	-0.06095	0.381357	-0.09544	-0.23344	0.652451	0.003733	0.480071	0.080524	-0.23151	0.400691	-0.1377	0.234674	0.060804	0.997105	0.183514	0.941774
SLC22A1	0.040576	-0.13701	0.358742	-0.10037	0.764422	0.313987	0.006138	0.457574	0.178556	-0.37685	0.392786	-0.43084	0.882439	0.004918	0.996196	0.001399
SLC22A3	0.263399	-0.2034	0.109179	0.210407	0.047741	0.132705	0.418835	0.116186	0.433196	-0.22524	0.361689	-0.05099	0.998682	0.066158	0.992682	0.368245
SLC22A2	-0.05936	-0.04542	0.016746	-0.21352	0.660954	0.739615	0.9016	0.110769	0.326051	-0.32429	0.107755	-0.3104	0.986494	0.013949	0.759458	0.017886
SLC22A4	-0.09463	-0.20009	0.048957	-0.13423	0.483823	0.139248	0.717616	0.319509	-0.18904	-0.26448	0.000647	-0.2254	0.104154	0.03785	0.501683	0.06602
SLC22A5	0.048251	0.0196	-0.04056	-0.31049	0.721524	0.885994	0.764518	0.018742	-0.2256	0.209514	-0.13643	0.184362	0.06584	0.918861	0.185765	0.890002
SLIT1	-0.1686	-0.22932	0.143279	-0.40522	0.209939	0.089108	0.287663	0.001767	-0.05644	-0.36877	0.038727	-0.37183	0.354747	0.005837	0.599701	0.005473
SLIT3	0.359671	-0.30579	0.243801	0.402319	0.005998	0.02191	0.067616	0.00192	0.270397	0.019968	0.190056	0.212384	0.965427	0.552395	0.89444	0.921764
SLN	-0.0114	-0.19036	0.11948	-0.228	0.932943	0.159944	0.376024	0.088048	0.139593	-0.28158	0.146834	-0.07372	0.822582	0.028995	0.832102	0.313168
BMPR2	0.14311	0.194778	-0.17404	0.317213	0.288235	0.150285	0.19541	0.016203	0.247597	0.399951	0.015764	0.49732	0.951443	0.997056	0.54093	0.999781
SLPI	0.192013	-0.3357	0.138321	0.192721	0.156273	0.012224	0.309318	0.154723	0.140562	-0.08554	0.035036	0.032541	0.824264	0.285959	0.590364	0.584994
SNAI2	0.307626	0.062638	-0.02431	0.228275	0.02109	0.649601	0.858832	0.090618	0.534299	0.198664	0.144079	0.222518	0.999935	0.907175	0.82748	0.931408
SMARCA1	0.287364	-0.10379	0.004185	0.128514	0.030203	0.446521	0.975355	0.340732	0.37048	-0.21814	0.167194	-0.08856	0.994369	0.07264	0.863846	0.279181
SMARCA2	0.134613	0.017758	0.017936	-0.07162	0.318114	0.896644	0.894648	0.596512	-0.09991	0.0396	0.182084	0.094198	0.254433	0.603066	0.884371	0.733255
HLTF	0.142752	0.001519	-0.19156	-0.0177	0.289458	0.991138	0.153454	0.89603	-0.07341	0.110341	0.040439	0.274797	0.313888	0.767308	0.604014	0.967716
SMARCA4	-0.16391	0.046541	-0.1122	-0.31143	0.223109	0.733398	0.40601	0.018366	-0.41237	0.389706	-0.19886	0.102709	0.002201	0.996287	0.095171	0.751506
STK33	-0.08298	-0.08667	0.036227	-0.19327	0.539456	0.525335	0.789058	0.149734	-0.1103	-0.3115	0.126165	-0.19173	0.232783	0.017546	0.79555	0.10089
PLEKHA3	0.10401	0.130174	-0.19294	0.086376	0.441328	0.338951	0.150459	0.522907	0.249362	-0.02154	0.006207	-0.05865	0.952662	0.443497	0.51614	0.349315
PHACTR4	0.010285	0.380703	-0.19106	-0.14604	0.939475	0.003797	0.154553	0.278371	-0.11114	0.525096	-0.08374	0.422996	0.233667	0.999894	0.294443	0.998104
SMARCB1	0.034805	0.180134	-0.11246	0.057459	0.797154	0.184016	0.404919	0.671168	-0.29301	0.574216	-0.26089	0.352428	0.024065	0.999985	0.041727	0.99185
BRD9	-0.20497	0.141789	-0.18178	-0.13823	0.126151	0.297227	0.175968	0.305147	-0.11362	0.23284	-0.20512	0.07743	0.226074	0.940292	0.088234	0.695491
CAPRIN2	0.12659	0.097829	-0.06507	0.093196	0.34807	0.473192	0.630608	0.49049	0.131612	-0.05009	-0.03772	-0.05896	0.808361	0.370489	0.402841	0.348563
ZSCAN18	-0.0011	-0.16186	0.115857	-0.29004	0.993541	0.233326	0.390774	0.028632	-0.06941	-0.22647	0.002376	-0.29218	0.323346	0.065085	0.506181	0.0244
GRAMD3	-0.20111	0.22419	-0.17439	0.040547	0.133599	0.096701	0.194489	0.764588	-0.12682	0.297269	-0.17323	0.174471	0.200491	0.977588	0.127562	0.876909
AACS	0.023551	0.13068	-0.02264	0.028169	0.861949	0.33706	0.867244	0.83523	0.022631	0.316151	-0.30576	0.143886	0.559336	0.983842	0.020545	0.829958
ZBTB10	0.162572	-0.31677	0.212601	-0.13027	0.231259	0.018459	0.11569	0.33861	0.260217	-0.31151	0.349271	-0.1508	0.957857	0.018626	0.990655	0.161375
KCTD14	0.051558	-0.12314	0.186874	0.249386	0.70329	0.365892	0.163952	0.061375	0.117474	0.101384	0.001084	0.303183	0.781574	0.748708	0.50282	0.979729
ZNF747	-0.01704	-0.17781	0.221585	-0.15096	0.899895	0.189838	0.097615	0.26232	0.065957	-0.32569	0.050919	-0.29886	0.668403	0.013595	0.630124	0.021817
DLK2	0.016807	-0.00053	0.125523	0.08153	0.901246	0.996932	0.352179	0.546573	-0.06173	0.160075	-0.1291	0.246781	0.341809	0.856036	0.198992	0.950872
SMARCC1	-0.0333	0.492674	-0.22407	0.029559	0.805781	0.000115	0.093824	0.827221	-0.04412	0.596251	-0.13981	0.413272	0.385471	0.999994	0.179827	0.997846
FAM173A	-0.03314	-0.16466	0.153127	-0.00942	0.806675	0.225231	0.255457	0.944561	0.189893	-0.30169	0.140145	-0.15398	0.896887	0.020795	0.820745	0.153454
FUNDC2	0.064333	0.076786	-0.07826	0.01951	0.634475	0.573786	0.562827	0.885461	0.115972	-0.06365	0.03477	-0.08945	0.778611	0.337158	0.58969	0.277213
DDRGK1	0.021181	0.144617	0.044417	0.041288	0.875729	0.287597	0.742857	0.760409	-0.18168	0.302138	-0.11092	0.081261	0.113447	0.979363	0.234103	0.704318
MRPS34	-0.10377	0.014606	0.037975	-0.03354	0.44239	0.914916	0.779128	0.804407	-0.11151	0.215558	-0.25214	0.065368	0.230318	0.924886	0.047369	0.666987
RASL11B	0.271599	-0.16448	0.350211	-0.07161	0.040984	0.225759	0.007571	0.596548	0.19962	-0.5778	0.342476	-0.46701	0.908251	1.31E-05	0.989357	0.000534
LOC65998	-0.06913	-0.2304	0.192916	-0.05627	0.609355	0.087577	0.150502	0.677591	0.09593	-0.23403	0.102568	-0.19638	0.73702	0.058743	0.748716	0.095434
LRRC61	-0.24755	-0.11105	-0.01432	-0.17698	0.065845	0.419592	0.91657	0.191947	-0.29311	-0.22052	0.230163	-0.2072	0.025345	0.072743	0.933585	0.086021
BMX	0.164654	-0.19414	0.178555	0.011466	0.220974	0.151642	0.18388	0.93254	0.243371	-0.33452	0.175958	-0.33126	0.948429	0.011535	0.876199	0.012263
TMEM108	0.135636	-0.32213	0.205287	0.010653	0.314415	0.01547	0.125543	0.937313	0.174516	-0.41538	0.251232	-0.23247	0.876971	0.002048	0.952015	0.06001
CYP4F12	-0.20651	0.433815	-0.19191	-0.12301	0.123258	0.000837	0.152692	0.361986	-0.17062	0.625645	-0.24639	0.309643	0.128463	0.999998	0.051386	0.981873
LYNX1	0.055756	-0.16194	0.086101	-0.10011	0.680382	0.233099	0.524237	0.458754	0.196138	-0.1147	0.055759	-0.12128	0.90429	0.223909	0.641996	0.211016
CHID1	0.012398	-0.07408	0.01308	0.04089	0.927071	0.587394	0.923067	0.76265	-0.00355	0.3456	-0.19619	0.13799	0.49077	0.989971	0.100917	0.816989
TRAK2	0.061823	0.184062	-0.16977	0.046917	0.647781	0.174475	0.20676	0.728924	0.163383	0.003897	0.065374	-0.0122	0.861025	0.510254	0.665186	0.467926
SMARCC2	0.047022	-0.00134	0.004725	-0.02067	0.730746	0.992278	0.972431	0.879819	0.063902	0.101644	0.134554	-0.03971	0.661673	0.746778	0.80807	0.397821
SMARCD1	-0.03718	0.206007	-0.07276	0.237852	0.783651	0.1277	0.590653	0.07481	-0.02946	0.500684	-0.23945	0.398258	0.422948	0.999803	0.056574	0.996939
SMARCD2	-0.03892	-0.13292	-0.01623	-0.0073	0.773778	0.328782	0.904614	0.956996	-0.18898	0.104545	-0.15441	0.020672	0.106884	0.752838	0.158474	0.553609
SLC2A11	-0.10757	-0.17708	0.211412	-0.1962	0.425762	0.191693	0.114413	0.143534	0.134545	-0.26486	0.190542	-0.27697	0.813664	0.037631	0.895034	0.031198
MTMR9	-0.02621	0.316615	-0.31951	0.079768	0.846572	0.017435	0.015405	0.5553	0.035364	0.397652	-0.17689	0.161001	0.592244	0.996897	0.122535	0.857443
BOLL	-0.07698	-0.09056	0.132962	-0.11186	0.569247	0.50684	0.324139	0.407432	-0.06916	-0.30269	0.212273	-0.2629	0.323933	0.020442	0.91923	0.038765

SMARCD3	0.105078	-0.07216	0.261919	-0.04192	0.436624	0.597136	0.049051	0.756838	0.057094	-0.36465	0.085033	-0.11659	0.64687	0.006359	0.710681	0.220169
SMARCE1	-0.07759	0.217125	-0.31629	0.068749	0.569783	0.111313	0.017557	0.614639	-0.01364	0.390321	0.110761	0.286994	0.464166	0.996338	0.765569	0.973432
SMO	0.09432	-0.2306	0.221112	-0.09227	0.485253	0.087292	0.09835	0.494828	-0.02635	-0.06483	0.080345	-0.01199	0.431793	0.336107	0.697927	0.468855
SMPD1	0.079999	-0.11388	0.108677	0.139247	0.554151	0.403325	0.42099	0.301585	0.152282	0.06609	0.019263	0.051878	0.843826	0.668722	0.549974	0.633976
POLR3D	0.160642	-0.06619	0.13505	0.119413	0.232586	0.627895	0.316532	0.376292	0.257121	0.025629	-0.05443	-0.03971	0.957738	0.56713	0.361248	0.396653
SMPD2	-0.26742	-0.10959	-0.10485	-0.18504	0.044323	0.421375	0.437627	0.168193	-0.36547	0.047039	-0.16818	-0.07336	0.006252	0.621883	0.13473	0.314016
SMS	-0.12667	-0.09199	-0.06819	-0.03557	0.352204	0.504137	0.617543	0.794656	-0.18496	0.114879	-0.01171	-0.10262	0.109232	0.77644	0.469581	0.248673
SUMO3	0.136912	0.017592	-0.0632	0.271466	0.309843	0.897606	0.640442	0.041087	-0.0475	0.390367	-0.27613	0.41514	0.376969	0.996342	0.03317	0.99794
SIGLEC1	-0.03156	-0.11177	0.241635	-0.0154	0.815734	0.412155	0.070168	0.909474	0.070459	-0.23801	0.16194	-0.06461	0.677215	0.057693	0.85319	0.336642
SNAI1	0.141727	-0.18197	0.272047	0.132912	0.297442	0.183622	0.042527	0.328802	0.250316	-0.14462	0.319257	-0.11651	0.951386	0.171609	0.982673	0.222972
SNAP25	0.017708	-0.10954	0.263306	0.140442	0.896932	0.425968	0.049913	0.301887	0.099966	-0.26392	0.256181	-0.09324	0.745695	0.03817	0.955306	0.268831
SNAPC1	0.034401	0.003812	-0.16547	-0.08146	0.799461	0.977756	0.218668	0.546902	-0.0285	0.036729	0.008254	0.110466	0.425444	0.595739	0.521458	0.767562
SNAPC2	0.075473	-0.02375	0.182728	-0.01963	0.576858	0.862075	0.173674	0.884741	0.139496	-0.12405	0.176531	-0.06334	0.822413	0.205708	0.87698	0.337915
SNAPC3	-0.054	0.200638	-0.05496	0.082033	0.689925	0.138156	0.684714	0.544093	0.061867	0.261905	-0.08922	0.258875	0.658526	0.96065	0.280001	0.958825
BNIP1	-0.17558	0.210755	-0.21525	-0.11466	0.191411	0.118962	0.107836	0.395729	-0.29894	0.122991	-0.1805	0.109268	0.023033	0.789561	0.120505	0.762544
SNCB	-0.09286	-0.17446	0.194421	-0.199	0.492052	0.19845	0.147282	0.137798	-0.00655	-0.47822	0.196298	-0.3406	0.482767	0.000388	0.901885	0.010273
SNAPC4	-0.12795	-0.10847	0.155604	-0.34115	0.342877	0.426158	0.247758	0.009404	-0.19498	-0.23791	0.113489	-0.25922	0.097055	0.055679	0.771043	0.040966
SNCA	0.005301	0.296552	-0.35702	0.073639	0.968782	0.026465	0.006407	0.586174	0.010441	0.059552	-0.10693	-0.00491	0.527136	0.65121	0.244825	0.487223
SNCG	0.181781	-0.29253	0.299336	-0.0519	0.175954	0.028684	0.023697	0.701429	0.206565	-0.32056	0.129235	-0.22828	0.915797	0.014929	0.801249	0.063517
FSCN1	0.071372	0.175717	-0.10523	0.048173	0.59779	0.195184	0.435953	0.721956	-0.08158	0.392339	-0.10781	0.359898	0.294943	0.9965	0.240424	0.992989
SNRNP70	0.183771	-0.07379	0.384307	0.142943	0.17517	0.592358	0.003453	0.293273	0.140872	0.042756	0.10646	-0.04563	0.822002	0.609828	0.754211	0.382978
SNRPA	-0.09509	0.177675	0.087966	0.206868	0.48575	0.194369	0.519136	0.126081	-0.13908	0.482032	-0.29778	0.428009	0.178306	0.999653	0.023479	0.998498
SNRPB	0.030496	0.333196	-0.22034	0.261532	0.823443	0.012927	0.102713	0.051533	-0.17648	0.689916	-0.29911	0.501683	0.120344	1	0.022968	0.999809
SNRPB2	-0.0675	0.143285	-0.31919	0.11007	0.617847	0.292108	0.015515	0.415027	-0.1009	0.043852	-0.1174	0.320678	0.254796	0.612572	0.223946	0.984132
BNIP2	0.177024	0.137493	-0.1261	0.214015	0.187729	0.312253	0.349965	0.109918	0.233879	0.214284	0.071231	0.183932	0.941135	0.923644	0.679026	0.889454
SNRPC	0.052774	0.122991	-0.07543	0.016457	0.696624	0.366498	0.577072	0.90329	-0.49041	0.325426	-0.30064	0.27745	0.00027	0.986338	0.02239	0.969036
SNRPD1	-0.14774	0.342203	-0.42103	0.208047	0.272769	0.009837	0.001109	0.12043	-0.12837	0.525462	-0.27182	0.495456	0.1976	0.999912	0.035435	0.999768
SNRPD2	-0.08118	0.020819	-0.07257	-0.11841	0.548277	0.878952	0.591662	0.380347	-0.208	0.217932	-0.13519	0.113784	0.082702	0.92716	0.187962	0.774255
SNRPD3	0.071544	0.275154	-0.20981	0.025862	0.596907	0.040129	0.11725	0.848556	-0.08216	0.459748	-0.11125	0.398854	0.293616	0.999346	0.233442	0.996981
SNRPE	0.153695	0.082653	-0.07386	0.114207	0.253676	0.544776	0.585071	0.397602	0.032251	0.232385	-0.07704	0.301771	0.584247	0.939919	0.307474	0.979234
SNRPF	0.059048	0.121509	-0.07376	0.138702	0.665536	0.376848	0.588996	0.307975	-0.156	0.552979	-0.30297	0.364687	0.150267	0.999966	0.021534	0.993646
SNRPG	0.284614	0.091149	-0.05449	-0.20383	0.031891	0.504066	0.687277	0.128301	0.083228	0.191831	0.071016	0.177939	0.708806	0.899226	0.678523	0.881615
SNRPN	0.510218	-0.16314	0.26834	-0.15715	5.89E-05	0.234025	0.045542	0.247389	0.071663	-0.32868	0.029001	-0.24525	0.681991	0.012867	0.574997	0.05021
BNIP3	0.075984	0.075214	-0.00921	0.038397	0.57427	0.581678	0.945797	0.77674	0.281959	-0.31265	0.190957	-0.18469	0.97118	0.017194	0.895538	0.109582
SNTA1	-0.07527	-0.11131	0.138688	-0.02354	0.581384	0.414093	0.308026	0.863279	0.233304	-0.29555	0.139271	-0.3103	0.940669	0.023069	0.819228	0.017918
SNTB1	-0.0812	-0.1757	0.079899	-0.50609	0.5482	0.19523	0.554652	5.91E-05	-0.13625	-0.47069	0.095103	-0.4133	0.183291	0.000481	0.732841	0.002153
SNX1	0.106285	0.103357	-0.23407	0.173407	0.431346	0.448427	0.079692	0.197056	0.133234	0.341327	-0.05459	0.269981	0.808534	0.989123	0.362427	0.963561
SNX2	-0.04002	0.099005	-0.24857	0.1699	0.767544	0.467863	0.062253	0.206407	-0.19298	0.3472	-0.08564	0.361379	0.099401	0.990963	0.287953	0.993198
SNTB2	0.077797	0.117522	-0.0858	0.471922	0.568739	0.39282	0.529507	0.000241	-0.06688	0.384749	-0.09676	0.581135	0.331233	0.995468	0.266042	0.999986
SOAT1	-0.04722	-0.01129	-0.10458	0.082953	0.727262	0.934185	0.43883	0.539567	-0.12399	0.03078	-0.05539	-0.00367	0.205825	0.580458	0.358912	0.490342
HSP90AB4f	-0.26573	0.118904	-0.1733	-0.19687	0.047764	0.387241	0.201502	0.145861	-0.02665	-0.06794	-0.12715	-0.12356	0.430236	0.32684	0.202615	0.20665
SOD1	-0.02704	0.247795	-0.16385	-0.07944	0.841735	0.065573	0.22326	0.556933	-0.17859	0.169199	-0.04945	0.198114	0.117519	0.869516	0.373513	0.906552
ZNF826	0.084449	-0.03549	0.133327	-0.15852	0.532252	0.795109	0.3228	0.238886	0.006945	-0.22431	0.041661	-0.12143	0.518268	0.066983	0.607083	0.210729
SOD2	-0.08823	-0.18787	-0.04828	0.501178	0.513998	0.165567	0.721374	7.16E-05	-0.18181	0.0933	-0.1205	0.036964	0.115993	0.728935	0.217945	0.595249
SOD3	0.39287	-0.34687	0.367991	0.090738	0.002503	0.008817	0.004858	0.502051	0.371688	-0.41937	0.374583	-0.20893	0.994031	0.002068	0.99388	0.084202
BNIP3L	-0.02991	-0.04847	-0.18495	0.171904	0.826774	0.72528	0.172381	0.205208	-0.091	-0.03877	-0.05506	-0.08468	0.278446	0.401354	0.362923	0.29235
SOLH	0.011986	-0.03213	0.230456	-0.06386	0.929488	0.814156	0.084589	0.636984	0.102716	-0.12123	0.074423	-0.23152	0.751521	0.211117	0.68647	0.06079
SON	0.165851	0.098719	-0.08083	0.17724	0.217589	0.469156	0.550049	0.187183	0.209383	0.182927	-0.03585	0.118853	0.918727	0.888166	0.40757	0.784275
SORD	0.191724	0.181183	0.316933	0.067765	0.153089	0.181433	0.016303	0.616473	0.091641	0.086398	0.080451	0.09748	0.727647	0.715974	0.700329	0.74037
SORL1	-0.12235	0.421454	-0.15479	-0.02766	0.364588	0.001217	0.250267	0.838194	-0.25165	0.200305	-0.09749	0.028055	0.045794	0.909016	0.262034	0.573416

SOS1	0.00527	0.272455	-0.10307	0.200282	0.968965	0.042205	0.445475	0.135234	0.145064	0.317416	0.005172	0.312734	0.831949	0.984203	0.513448	0.982832
SOS2	0.055363	0.236913	-0.20267	0.103908	0.682514	0.078742	0.130548	0.441778	0.185589	0.165806	-0.0461	0.074219	0.891556	0.864605	0.381813	0.688005
SOX1	0.085808	-0.20644	0.297368	-0.2363	0.525655	0.12688	0.024677	0.07678	0.04759	-0.37822	0.043903	-0.36966	0.623264	0.004776	0.612698	0.005729
SOX2	-0.12253	0.397433	-0.23625	-0.03956	0.363875	0.002421	0.076844	0.770185	-0.16413	0.481426	-0.01906	0.436452	0.140661	0.999593	0.451142	0.998638
SOX3	-0.00889	-0.0867	0.219688	-0.14606	0.947688	0.52517	0.100591	0.278307	0.137898	-0.54713	0.085027	-0.45472	0.816828	5.03E-05	0.708417	0.00085
SOX4	-0.0859	0.088987	0.024603	-0.04576	0.525193	0.514277	0.855849	0.735371	-0.13018	0.342898	-0.08009	0.124842	0.194268	0.990172	0.300502	0.795784
BOK	0.017817	0.105141	0.0446	-0.21479	0.895342	0.440587	0.741831	0.108607	0.102869	0.065442	-0.01568	-0.02242	0.751843	0.667164	0.459283	0.441217
SOX5	0.151312	-0.25428	0.241306	-0.35072	0.265621	0.061018	0.073194	0.008047	0.32575	-0.48847	0.432654	-0.48978	0.985506	0.000332	0.998323	0.000319
SOX9	0.178218	-0.32293	0.241324	-0.08115	0.184723	0.015202	0.070541	0.54844	0.241662	-0.21844	0.114894	-0.27193	0.945123	0.074712	0.771151	0.035378
SOX10	0.244455	-0.24227	0.35091	-0.04956	0.066859	0.072019	0.007444	0.714311	0.419987	-0.56251	0.42299	-0.40491	0.998168	2.36E-05	0.998104	0.002625
SOX11	0.032909	-0.12418	0.369797	-0.21481	0.80799	0.361837	0.004638	0.108574	0.088023	-0.35973	0.269691	-0.20581	0.717346	0.00761	0.961669	0.087501
SOX15	0.003753	0.169664	0.054608	-0.14241	0.977895	0.211262	0.68662	0.290622	-0.06483	0.282678	-0.13115	0.066275	0.334318	0.971511	0.195233	0.669166
SOX12	-0.03105	-0.16229	0.201442	-0.14182	0.818674	0.23207	0.132939	0.292653	0.136274	-0.34915	0.112838	-0.30653	0.813965	0.009368	0.767082	0.020279
SP1	-0.05996	0.333453	-0.26128	0.32505	0.660675	0.012853	0.051768	0.014511	0.014811	0.639405	-0.21299	0.45703	0.538913	0.999999	0.080047	0.999296
SP2	-0.02042	0.135467	0.064206	-0.2047	0.880174	0.319505	0.635145	0.126647	0.002905	0.305627	-0.10676	-0.02169	0.507642	0.980563	0.242582	0.443111
DST	0.324072	-0.01135	0.149956	0.201812	0.014826	0.93447	0.26998	0.135816	0.462741	-0.01862	0.112654	0.086069	0.999398	0.45112	0.769376	0.715235
SP3	0.193013	0.151799	-0.04666	0.24503	0.154088	0.26407	0.73274	0.068738	0.083591	0.306574	-0.174	0.375541	0.70963	0.980879	0.126491	0.994942
SP4	0.230061	-0.17591	0.006725	0.18737	0.085139	0.194683	0.960405	0.162814	0.348029	-0.12828	0.103019	-0.09923	0.991109	0.197762	0.749659	0.255882
SP100	-0.00982	-0.08431	0.082867	0.428631	0.942227	0.536703	0.53999	0.000879	0.065522	-0.01545	0.232444	0.193062	0.665537	0.459879	0.935538	0.898073
SPAG1	-0.15712	-0.07253	-0.0755	-0.1814	0.243136	0.595266	0.576713	0.176884	-0.28718	-0.09967	0.032204	-0.06788	0.026486	0.254931	0.583168	0.326995
UAP1	0.066127	0.08784	-0.15837	0.099743	0.625036	0.519735	0.239348	0.460392	-0.09292	0.358325	-0.13255	0.280988	0.271899	0.992174	0.195522	0.96924
SPAG4	-0.01092	-0.22869	0.097578	-0.01486	0.935765	0.090024	0.470233	0.912647	-0.02611	-0.16288	0.04407	-0.30202	0.431624	0.139721	0.613118	0.02068
SPAM1	0.028963	-0.17449	0.060553	-0.19986	0.830651	0.198371	0.654552	0.136075	0.000647	-0.10926	-0.02681	-0.06834	0.501684	0.237468	0.431435	0.327787
SPARC	0.374168	-0.11117	0.181634	0.40847	0.004499	0.419083	0.18033	0.001776	0.537452	-0.2613	0.374966	0.020075	0.999941	0.039709	0.994424	0.552675
FOXL2	-0.05343	-0.06757	0.19695	-0.1771	0.693016	0.620711	0.14199	0.18753	0.033185	-0.32244	0.110465	-0.28728	0.586652	0.014427	0.764971	0.026443
SPAST	-0.05831	0.425342	-0.36559	0.148464	0.66656	0.001084	0.005165	0.270388	-0.21183	0.601635	-0.26271	0.476342	0.078793	0.999995	0.040623	0.999591
SPG7	-0.14225	0.070031	0.009716	0.108748	0.295641	0.611413	0.943344	0.424981	-0.09281	0.247613	-0.031	0.0769	0.269787	0.951455	0.419897	0.69426
SPI1	-0.1138	-0.34398	0.193517	0.079291	0.399299	0.009438	0.149211	0.557677	-0.09967	-0.42131	0.033733	-0.24566	0.257389	0.001975	0.586043	0.051912
SPIB	0.021029	-0.34972	0.253744	0.049632	0.876612	0.008242	0.056835	0.713888	0.062273	-0.36324	0.173614	-0.28914	0.659511	0.006546	0.872971	0.025653
BPGM	-0.09562	-0.03608	-0.16788	-0.0559	0.479232	0.791801	0.211945	0.679622	-0.0547	-0.19966	0.092378	-0.20081	0.362183	0.096904	0.722128	0.095601
SPINK1	0.101707	-0.27215	0.182623	-0.25326	0.45156	0.042448	0.173927	0.057322	0.01259	-0.44672	0.145721	-0.42054	0.533092	0.000929	0.830244	0.001807
SPINK2	0.050286	-0.09354	0.1777	-0.10998	0.710285	0.492904	0.186022	0.41539	0.130341	-0.28122	0.086254	-0.22605	0.806035	0.029161	0.713412	0.065446
SPINT1	-0.07105	0.077155	0.001155	-0.04553	0.599436	0.57194	0.993196	0.736669	-0.11532	0.417803	-0.18774	0.193173	0.222691	0.998068	0.10842	0.900824
SPN	-0.00629	-0.44732	0.244349	0.284804	0.96298	0.000547	0.066981	0.031772	-0.14005	-0.3988	0.133368	-0.12039	0.176622	0.003023	0.808777	0.212735
SPP2	0.071191	-0.09656	0.20134	-0.24828	0.598718	0.478976	0.133141	0.062569	0.135802	-0.11914	0.219149	-0.23495	0.813129	0.217844	0.923536	0.060144
SPOCK1	0.008301	0.056655	-0.06088	-0.33713	0.951135	0.678332	0.652795	0.010334	0.138655	-0.25501	0.037799	-0.30787	0.820944	0.0436	0.597359	0.018694
SPP1	0.033044	0.006826	0.202256	0.070637	0.80722	0.960178	0.131347	0.601576	0.03086	-0.26618	0.080866	-0.21896	0.580664	0.036886	0.701273	0.071873
SPR	0.070337	-0.14034	0.027937	-0.12559	0.603126	0.30223	0.836564	0.351916	-0.32999	0.100008	-0.31583	0.003721	0.012556	0.745783	0.017281	0.50979
SPRR1A	-0.07298	0.384946	-0.1525	-0.22655	0.592976	0.003708	0.261843	0.09315	-0.07353	0.57027	-0.1942	0.237715	0.313609	0.999982	0.100578	0.944171
SPRR1B	-0.04259	0.356128	-0.11581	-0.1807	0.755307	0.007618	0.395341	0.182621	-0.09483	0.629273	-0.18609	0.326832	0.265373	0.999999	0.110491	0.986687
BPHL	-0.15749	0.060935	-0.18719	-0.29568	0.242012	0.655506	0.163232	0.025544	-0.31566	-0.06638	-0.08901	-0.10177	0.016302	0.330584	0.280458	0.250477
SPRR2A	0.000912	0.247247	-0.20642	0.077152	0.99468	0.068776	0.126922	0.571953	-0.06303	0.547678	-0.145	0.347734	0.338656	0.999959	0.170968	0.991057
SPRR2B	-0.11787	-0.04211	-0.01243	-0.41203	0.382519	0.757989	0.92688	0.00145	-0.29392	-0.1407	0.151012	-0.10437	0.023706	0.175501	0.838963	0.245001
SPRR2C	0.107466	-0.11421	0.197488	-0.10954	0.426217	0.401966	0.140883	0.417273	0.384427	-0.14738	0.240575	-0.33798	0.995827	0.164181	0.944296	0.010801
SPRR2D	-0.0755	0.252364	-0.25943	-0.36508	0.576725	0.060597	0.051326	0.005234	0.043571	0.125064	0.020683	-0.13863	0.613143	0.796204	0.553637	0.179099
SPRR2E	0.02237	0.014118	-0.05582	-0.32856	0.868811	0.917746	0.68001	0.012584	0.080458	-0.01046	0.052469	-0.0303	0.702477	0.472485	0.633939	0.420792
SPRR2F	-0.00611	-0.10275	0.250561	0.02695	0.964034	0.451101	0.060122	0.842264	0.005997	-0.19229	0.000308	-0.11962	0.515593	0.102856	0.500792	0.21691
SPRR2G	0.064473	-0.07055	0.050821	-0.09334	0.633738	0.605382	0.707339	0.489832	0.110486	-0.36109	-0.01826	-0.24885	0.767601	0.006842	0.452608	0.047691
SPRR3	-0.02969	0.412484	-0.19745	-0.1911	0.828016	0.001752	0.144657	0.158285	-0.05017	0.579577	-0.20635	0.230962	0.370275	0.999988	0.086924	0.938744
SPTA1	0.13409	-0.03864	0.284804	-0.22697	0.320014	0.777404	0.031772	0.08954	0.150321	-0.50759	0.10596	-0.3922	0.840653	0.000159	0.755769	0.003511

SPTAN1	0.223562	-0.12093	-0.06049	0.081089	0.097664	0.37913	0.65784	0.552438	0.040919	0.119377	0.11369	0.148541	0.606421	0.785295	0.771443	0.837739
BPI	-0.12378	-0.23941	0.146738	-0.27024	0.358948	0.075544	0.276061	0.042048	-0.06486	-0.50688	0.188247	-0.45297	0.334242	0.000162	0.892211	0.000786
SPTB	-0.0022	-0.19865	0.314959	-0.27737	0.987031	0.142184	0.017019	0.036721	0.084379	-0.57354	0.152888	-0.39206	0.709214	1.91E-05	0.839106	0.003865
SPTBN1	0.259011	-0.10519	0.010069	0.172697	0.051714	0.440385	0.940741	0.198924	0.125466	0.107012	0.079497	0.217849	0.796963	0.760481	0.698153	0.927081
SPTBN2	-0.08416	0.076465	-0.02577	-0.24922	0.537435	0.578986	0.850452	0.06399	-0.21457	0.376266	-0.29394	0.069411	0.076078	0.99502	0.025008	0.676656
SQLE	-0.17574	0.009144	-0.13157	-0.15445	0.190996	0.946676	0.329276	0.251313	-0.30201	-0.17534	-0.00962	-0.0533	0.020681	0.121904	0.474989	0.362503
SRC	-0.0701	0.219199	-0.05132	0.099485	0.604339	0.104559	0.704599	0.461559	0.044787	0.462973	-0.06791	0.228555	0.616213	0.999402	0.328804	0.936716
SRD5A1	0.049888	0.312988	-0.104	-0.11205	0.712475	0.018838	0.441357	0.406628	0.099389	0.182609	-0.11727	-0.04744	0.744463	0.887755	0.221485	0.377116
SRD5A2	-0.20931	-0.05173	-0.05869	-0.08956	0.121576	0.707616	0.667468	0.51155	-0.24026	-0.25018	0.119247	-0.12388	0.053877	0.046779	0.782366	0.206031
SRI	-0.081	0.090637	-0.166	-0.08935	0.549207	0.506475	0.217182	0.508661	-0.16262	0.040675	0.016541	0.015478	0.14011	0.605801	0.542941	0.54066
AKR1D1	0.077767	-0.22107	0.205711	-0.20756	0.568885	0.104815	0.128261	0.124792	-0.03283	-0.52765	0.148093	-0.41058	0.41426	8.22E-05	0.834189	0.002297
BRCA1	-0.13114	0.207507	-0.3137	-0.28275	0.330869	0.124889	0.017489	0.033082	-0.35847	0.439657	-0.27058	0.292631	0.007217	0.998883	0.036112	0.975783
SREBF1	-0.00223	-0.03465	0.091877	0.065967	0.986887	0.799861	0.496678	0.625875	-0.01256	0.287958	-0.14462	0.101631	0.466977	0.973847	0.17161	0.74923
SREBF2	-0.22617	0.21106	-0.15684	-0.03407	0.093709	0.121914	0.24835	0.803145	-0.21366	0.345102	-0.17692	0.055652	0.076972	0.990584	0.122487	0.643321
SRF	0.294156	-0.27886	0.246871	-0.03697	0.02635	0.037415	0.064125	0.784813	0.253235	-0.09285	0.20249	-0.03176	0.953369	0.272052	0.906282	0.41795
SRM	0.181336	0.0472	0.178135	0.296204	0.177032	0.729766	0.184931	0.025273	0.269698	0.289443	0.007762	0.29756	0.965053	0.974475	0.52018	0.977697
SRMS	-0.10513	-0.14208	0.170683	-0.20062	0.436385	0.296232	0.204293	0.134568	0.071708	-0.28241	0.140173	-0.232	0.682099	0.02861	0.820793	0.060398
SRP14	0.05695	0.105808	-0.21897	0.121325	0.673917	0.437681	0.101741	0.368644	-0.30449	0.238985	-0.3801	0.225082	0.020993	0.943067	0.005463	0.931434
SRP19	0.084165	-0.03801	0.181282	0.015676	0.533642	0.780926	0.177164	0.90786	0.141685	-0.22265	0.069481	-0.16375	0.826202	0.068468	0.674915	0.138436
SRP54	0.104956	0.110094	-0.12341	0.158099	0.43716	0.419237	0.360415	0.240163	-0.05314	0.289294	-0.13859	0.258347	0.362882	0.974413	0.181955	0.9585
BRAF	0.129739	0.103085	-0.05659	0.031305	0.336108	0.449626	0.675852	0.817187	0.255043	-0.14976	0.092546	-0.06702	0.956422	0.160264	0.727292	0.329043
SRP68	0.027023	0.202611	-0.29496	0.198468	0.841844	0.134241	0.025922	0.138882	-0.22441	0.538151	-0.28041	0.405805	0.066898	0.999943	0.03104	0.99743
SRP72	0.009988	0.234668	-0.18112	0.278474	0.941216	0.081703	0.177556	0.035945	0.036322	0.438983	-0.13272	0.344415	0.594699	0.998863	0.192395	0.990458
SRPK1	-0.11417	0.383242	-0.30144	0.245866	0.397737	0.003552	0.022684	0.065251	-0.08127	0.646115	-0.20518	0.380072	0.295667	0.999999	0.088168	0.995412
SRPK2	-0.02072	0.10774	-0.13284	-0.08152	0.878414	0.429308	0.324605	0.546619	-0.03268	0.10366	-0.00495	-0.01552	0.414647	0.753504	0.487115	0.45922
SRPR	0.22896	0.009528	0.198626	0.193381	0.086684	0.944438	0.138561	0.149503	0.219777	0.164124	-0.04163	0.166965	0.928892	0.862126	0.392989	0.866296
SRY	-0.10357	-0.07214	0.228751	-0.09191	0.443276	0.59726	0.08698	0.496506	0.000495	-0.25399	0.160362	-0.12727	0.501301	0.04426	0.853669	0.199656
TRIM21	-0.12006	0.013686	-0.02145	0.475535	0.373693	0.920254	0.874153	0.000185	-0.19481	0.289566	-0.12638	0.21558	0.099855	0.973157	0.206833	0.922523
TROVE2	0.057295	0.191147	-0.24335	0.217168	0.672052	0.158186	0.068143	0.104655	0.207058	0.287109	-0.03297	0.246938	0.916315	0.973482	0.41489	0.950983
SSB	0.025432	0.035624	-0.17951	-0.08542	0.851044	0.794355	0.181519	0.527526	-0.10369	0.104461	-0.03859	0.129256	0.248929	0.752664	0.401806	0.80129
SSBP1	-0.12076	0.369501	-0.28911	0.126445	0.370883	0.005068	0.029172	0.348625	-0.24039	0.393169	-0.33113	0.367692	0.05378	0.996564	0.013147	0.99403
SSFA2	0.098976	0.440744	-0.09559	0.148024	0.463865	0.000675	0.479388	0.271828	0.167353	0.560058	-0.16846	0.338634	0.86686	0.999974	0.134329	0.989332
SSR1	0.072608	0.314764	-0.17246	0.256066	0.591443	0.01814	0.199552	0.054528	0.071605	0.399796	-0.10039	0.384346	0.681855	0.997045	0.255858	0.99582
SSR2	0.132558	0.274313	-0.01095	0.348572	0.325624	0.040767	0.935568	0.007878	0.08588	0.556852	-0.18672	0.415277	0.714809	0.999971	0.109693	0.997947
SSR3	0.154175	0.184029	-0.03986	0.332884	0.25218	0.174553	0.768455	0.011401	0.334364	0.12768	-0.06625	0.221619	0.988431	0.801113	0.33273	0.93059
SSR4	0.016373	-0.08562	0.011356	0.334579	0.903782	0.530368	0.933182	0.010965	-0.11594	0.356895	-0.27415	0.298811	0.22145	0.992549	0.034199	0.978163
SSRP1	-0.0562	0.038311	-0.17324	-0.05272	0.677961	0.779225	0.197492	0.696928	-0.33257	0.505324	-0.33522	0.325273	0.011967	0.999829	0.012192	0.9863
BRCA2	-0.08211	0.223345	-0.05548	0.355012	0.547439	0.101191	0.684627	0.007257	-0.1978	0.609153	-0.2005	0.466607	0.093801	0.999996	0.093312	0.99946
SST	0.033222	-0.19254	0.293732	-0.10547	0.807953	0.159038	0.028004	0.439143	0.104942	-0.29639	0.203263	-0.31814	0.756185	0.022746	0.909746	0.015592
SSTR1	-0.08283	-0.02205	0.212578	-0.14533	0.540193	0.871827	0.112381	0.280746	-0.00111	-0.23442	0.041373	-0.22821	0.497073	0.058432	0.606359	0.063583
SSTR2	-0.02618	-0.21554	0.256888	-0.08006	0.846721	0.110621	0.053731	0.553872	0.207777	-0.44859	0.108523	-0.23158	0.917066	0.000884	0.761027	0.060746
SSTR3	-0.11589	-0.14906	0.207607	-0.09552	0.390651	0.272898	0.121236	0.479685	-0.08727	-0.2326	-0.03801	-0.30182	0.282078	0.059906	0.402098	0.02075
SSTR4	-0.01766	-0.2636	0.230629	-0.18387	0.896258	0.049651	0.084349	0.170968	-0.00103	-0.24387	0.088781	-0.2831	0.497292	0.051211	0.719026	0.028296
SSTR5	0.083883	-0.00451	0.093649	-0.0774	0.535019	0.973696	0.488373	0.567163	0.245062	-0.15346	0.133056	-0.19042	0.949652	0.154292	0.808214	0.102475
SSX1	-0.03884	0.081458	0.086461	-0.00174	0.776265	0.550628	0.526335	0.989817	0.055496	-0.34744	0.066523	-0.29954	0.642936	0.008996	0.667918	0.021568
SSX5	-0.0452	-0.26703	0.06394	-0.24096	0.738473	0.046648	0.636553	0.070981	0.035102	-0.33552	0.136318	-0.3127	0.591573	0.011319	0.814042	0.017179
BRDT	0.159526	-0.03651	0.256932	-0.25069	0.240235	0.791282	0.055932	0.062385	0.136804	-0.1667	-0.03895	-0.19137	0.814902	0.136869	0.400898	0.103956
SS18	-0.17952	0.220956	-0.182	0.133588	0.181473	0.101738	0.17543	0.321846	-0.16355	0.140133	-0.12298	0.12108	0.138729	0.823522	0.210456	0.788596
ST5	-0.26553	0.274478	-0.1639	-0.2601	0.045905	0.04064	0.223122	0.050702	-0.29851	0.404726	-0.10751	0.161292	0.02195	0.997364	0.24104	0.857884
ST13	0.039159	0.190698	-0.26572	-0.02187	0.772424	0.159184	0.04574	0.871722	0.113768	0.127502	0.013762	0.047853	0.774223	0.800782	0.535746	0.623924

ST14	-0.15672	0.269088	-0.15556	-0.05669	0.244352	0.044919	0.247891	0.675332	-0.29641	0.633403	-0.34401	0.343553	0.022739	0.999999	0.010337	0.990296
STAC	0.333609	0.006385	0.300485	0.021272	0.011983	0.963098	0.024437	0.876336	0.328146	-0.24397	0.08601	-0.19238	0.98612	0.053149	0.710597	0.102745
ZFP36L1	0.180208	0.214192	-0.10935	0.049486	0.179786	0.112928	0.418082	0.714695	-0.03598	0.463875	-0.01648	0.316344	0.40617	0.999417	0.457221	0.983897
STAR	0.011847	-0.09125	0.231672	-0.22221	0.930303	0.503615	0.082915	0.096646	-0.02609	-0.31092	0.053102	-0.27168	0.431666	0.017725	0.635495	0.033894
STAT1	-0.11228	-0.04074	0.132395	0.675574	0.405679	0.765589	0.326224	8.16E-09	-0.15963	0.112811	0.046598	0.370274	0.147447	0.76969	0.61805	0.993854
STAT2	-0.0554	-0.10057	0.096185	0.505085	0.685099	0.465059	0.480694	7.19E-05	0.088292	0.202526	-0.04581	0.290745	0.720217	0.911465	0.382552	0.975016
STAT3	-0.10723	0.101807	-0.20656	0.341601	0.431494	0.459541	0.126651	0.009976	-0.15491	0.412386	-0.11581	0.343883	0.151982	0.9978	0.22436	0.990358
STAT4	-0.00993	-0.11477	0.036647	0.578755	0.942105	0.404087	0.788589	2.98E-06	0.005562	-0.18761	0.032398	0.176846	0.514633	0.105912	0.583662	0.880145
STAT5A	-0.08704	-0.26686	-0.03487	0.38806	0.523569	0.048892	0.798633	0.003124	-0.02811	-0.05297	0.070492	-0.1131	0.426444	0.36332	0.677294	0.227121
STAT5B	0.186953	-0.28307	0.009242	0.277856	0.163769	0.034519	0.945599	0.036377	0.282242	-0.18717	0.355716	0.022624	0.96984	0.109126	0.991099	0.558636
SCARNA7	0.149243	-0.21701	0.127953	0.299827	0.267855	0.108154	0.342862	0.023457	0.164609	-0.01823	-0.1558	0.029139	0.862843	0.452135	0.153386	0.576219
SCARNA17	0.373339	-0.34571	0.397825	0.07156	0.004231	0.009062	0.00218	0.59682	0.474296	-0.56059	0.287352	-0.2937	0.999502	3.10E-05	0.970709	0.025105
SCARNA22	0.02647	-0.05557	0.152721	-0.046	0.845042	0.684147	0.256734	0.733996	-0.04056	-0.17231	0.079595	-0.12912	0.394489	0.12609	0.698378	0.196207
SCARNA4	-0.10172	-0.29514	0.182086	-0.062	0.451501	0.027224	0.175219	0.646816	-0.03349	-0.40692	-0.01384	-0.41235	0.412567	0.002504	0.464051	0.002202
SCARNA6	0.076232	-0.41169	0.298636	0.100001	0.573019	0.00162	0.024042	0.459227	0.109831	-0.43969	0.126829	-0.33977	0.766269	0.001116	0.796791	0.010439
SCARNA23	-0.01851	-0.19789	0.012822	-0.19346	0.891271	0.143758	0.924585	0.149335	-0.02234	-0.15639	0.083328	-0.18954	0.441411	0.149664	0.706848	0.103547
SCARNA1	0.077937	0.035297	-0.07716	0.008566	0.564443	0.796206	0.568368	0.949573	0.268803	-0.247	0.038301	-0.05921	0.964568	0.048971	0.598626	0.347956
SCARNA5	0.112474	-0.21042	0.339565	0.298334	0.404849	0.11957	0.009762	0.024192	0.214714	-0.24821	-0.00338	-0.2044	0.924065	0.048133	0.491201	0.086501
SCARNA8	0.014777	-0.31299	0.178278	0.089797	0.913123	0.018838	0.184573	0.506512	-0.01571	-0.35778	0.096566	-0.32812	0.458725	0.007319	0.735991	0.013001
SCARNA12	0.082468	-0.05227	0.171332	0.248374	0.541951	0.702046	0.202551	0.062469	0.182377	0.182511	-0.08301	0.153503	0.887455	0.887628	0.293864	0.845782
SCARNA15	0.077324	0.16845	-0.00137	-0.07671	0.567521	0.214596	0.991903	0.570616	0.00953	0.118981	-0.05395	0.006623	0.525062	0.784524	0.362435	0.517421
SCARNA11	0.013249	-0.28516	0.168757	-0.16298	0.922076	0.033152	0.209521	0.225782	0.057517	-0.50267	0.234892	-0.36326	0.647907	0.000185	0.93981	0.006544
SCARNA16	0.231252	-0.34015	0.359464	0.183163	0.083491	0.010317	0.006029	0.172637	0.080443	-0.22196	0.093495	-0.08538	0.702443	0.069099	0.729359	0.286311
SNORA1	0.020628	0.012009	0.085652	0.153379	0.878948	0.930001	0.526408	0.254666	0.067665	0.03516	-0.03511	0.009352	0.670626	0.59068	0.410503	0.524308
SNORA2A	0.081762	0.088537	0.072178	0.094103	0.545428	0.516413	0.593649	0.486262	-0.14411	0.124814	-0.0209	0.00483	0.16966	0.795731	0.445805	0.512706
SNORA2B	0.113164	0.174475	-0.04984	0.224137	0.401955	0.198409	0.712759	0.093717	-0.00662	0.170653	-0.0897	0.167532	0.482796	0.868815	0.28127	0.864336
SNORA5B	0.089375	-0.10305	0.264407	-0.23663	0.508519	0.449762	0.046863	0.076358	0.13453	-0.26129	0.278728	-0.15502	0.813637	0.039713	0.968136	0.151816
SNORA5C	0.01602	-0.21395	0.182194	0.01823	0.905849	0.113352	0.174957	0.892929	0.037289	-0.21711	-0.05429	-0.19443	0.597171	0.073618	0.3616	0.097693
SNORA7B	-0.2314	-0.12834	0.052266	-0.21182	0.083294	0.345862	0.699409	0.113705	-0.17373	-0.4349	0.044126	-0.28127	0.124113	0.001262	0.613257	0.029139
SNORA9	-0.0171	-0.16757	0.065884	0.08691	0.89956	0.217042	0.626316	0.520331	0.043296	-0.2124	-0.11877	-0.18534	0.612447	0.078224	0.218567	0.10876
STAT6	-0.10888	0.054982	-0.07607	0.02781	0.420098	0.687334	0.573824	0.837299	-0.10107	0.342576	-0.14596	0.093003	0.251959	0.990111	0.16936	0.730641
SNORA14A	-0.00192	-0.07405	-0.07401	0.000573	0.988699	0.587533	0.58428	0.996626	-0.26454	0.045623	-0.18596	-0.13884	0.037816	0.618319	0.110656	0.178737
SNORA14B	0.039696	-0.12284	0.103304	0.211144	0.771454	0.371587	0.44866	0.118266	-0.0926	-0.12824	0.038941	-0.13121	0.270243	0.197837	0.60024	0.192371
SNORA20	0.058936	-0.48218	0.18331	0.109502	0.663218	0.000168	0.172286	0.41745	0.0112	-0.55659	0.199182	-0.35515	0.529444	2.95E-05	0.905196	0.007717
SNORA22	-0.01105	-0.10449	0.153383	0.23294	0.93499	0.443441	0.254653	0.081198	-0.13375	0.010758	0.031563	-0.05274	0.18777	0.528284	0.581535	0.363884
SNORA23	0.066509	-0.28116	0.052474	0.131053	0.623036	0.035808	0.698268	0.331196	0.141247	-0.39033	-0.01001	-0.27992	0.825447	0.003661	0.473981	0.029774
SNORA24	0.009093	-0.19725	0.130586	0.061377	0.946971	0.148891	0.337412	0.653167	0.102973	0.079732	-0.00603	0.000487	0.752062	0.700809	0.484333	0.50128
SNORA28	0.025515	0.120265	-0.18474	0.237841	0.850567	0.377293	0.168901	0.074825	-0.09474	0.248221	-0.15552	0.177632	0.265556	0.951877	0.153838	0.881203
SNORA29	-0.04646	0.195615	-0.15939	0.134959	0.731463	0.148506	0.236297	0.31686	0.098408	0.146828	-0.05944	0.092484	0.739929	0.832092	0.350754	0.727157
SNORA30	0.0689	0.123963	0.055558	0.119148	0.610565	0.362689	0.681453	0.377359	-0.05424	0.201159	-0.17662	0.077363	0.361727	0.907421	0.125717	0.693264
SNORA31	0.09287	-0.096	0.114378	0.01852	0.492013	0.481543	0.396892	0.89124	-0.05512	-0.28846	0.126319	-0.3136	0.359563	0.027324	0.793054	0.017965
SNORA35	0.009108	-0.09217	0.33955	-0.21918	0.946388	0.499258	0.009766	0.101403	0.1607	-0.3951	0.266457	-0.28673	0.856987	0.003289	0.961578	0.026682
SNORA36A	-0.02593	-0.21425	0.155865	-0.06008	0.848155	0.112832	0.246954	0.657078	0.007354	-0.30626	-0.03398	-0.35622	0.519343	0.019224	0.41232	0.007553
SNORA37	0.009382	-0.19833	0.08083	0.15844	0.944779	0.142843	0.550031	0.239137	0.015224	-0.21508	-0.09193	-0.2346	0.539995	0.075579	0.274043	0.058283
SNORA38	-0.20714	0.149435	-0.07426	-0.25523	0.125573	0.276193	0.586477	0.057635	-0.08133	-0.28948	0.044799	-0.20427	0.295527	0.025509	0.614936	0.086649
SNORA40	0.146776	0.218373	0.064334	0.381803	0.275935	0.105905	0.63447	0.003383	0.258367	0.288017	-0.00377	0.116027	0.958512	0.973872	0.490196	0.778719
SNORA42	-0.12641	-0.10535	0.263696	-0.003	0.348774	0.439666	0.047481	0.98232	0.032833	-0.41948	-0.02196	-0.29939	0.584769	0.002063	0.443748	0.02286
SNORA43	0.070799	-0.28435	0.088461	0.136827	0.60074	0.033672	0.512884	0.310144	0.126297	-0.23205	0.091973	-0.08275	0.798528	0.060354	0.726043	0.292283
SNORA44	-0.16856	-0.01498	0.064624	0.266812	0.210051	0.912738	0.632942	0.044825	-0.02893	0.18781	0.08372	0.146685	0.42431	0.894331	0.70773	0.834664
SNORA45	0.181417	-0.09578	0.433942	0.247426	0.176835	0.482571	0.000745	0.063509	0.158024	-0.1531	0.148832	-0.12359	0.852884	0.154862	0.835406	0.206584

SNORA46	0.101455	-0.14826	0.106996	0.194812	0.45269	0.275487	0.428254	0.146455	0.092403	-0.16837	0.155734	-0.19023	0.726982	0.134457	0.843622	0.105349
SNORA49	0.03274	-0.31012	0.308446	-0.07974	0.810684	0.021209	0.020731	0.559073	0.000884	-0.43646	0.010191	-0.33397	0.502325	0.001213	0.526487	0.011654
SNORA50	0.13182	-0.13551	0.060499	0.10211	0.328348	0.319349	0.654843	0.449759	0.114146	-0.19805	0.069476	-0.135	0.774979	0.093524	0.674904	0.185522
SNORA51	-0.03354	-0.14482	0.082587	-0.09185	0.804395	0.286905	0.541366	0.496789	0.053448	-0.31488	0.21112	-0.08072	0.637873	0.016529	0.918059	0.296932
SNORA54	0.054503	-0.45739	0.079805	0.004244	0.687187	0.000394	0.555119	0.975004	0.019939	-0.61478	0.005133	-0.45278	0.55232	2.74E-06	0.513347	0.00079
SNORA55	0.039375	-0.23654	0.263423	0.125103	0.773253	0.082089	0.049807	0.35826	0.00548	-0.25976	-0.0505	-0.13805	0.514416	0.040634	0.3709	0.180108
SNORA56	-0.12223	0.154719	-0.17332	0.081839	0.365046	0.254883	0.197288	0.545047	0.186879	0.028473	0.036416	-0.14531	0.893174	0.574497	0.593861	0.167636
SNORA58	0.203225	-0.1068	0.33673	0.026064	0.12947	0.433352	0.010431	0.847386	0.089932	0.039458	0.000931	-0.09098	0.723868	0.602705	0.502421	0.273815
SNORA60	-0.03065	-0.32965	0.263784	-0.0999	0.820938	0.0131	0.047404	0.459672	0.056953	-0.70918	0.089077	-0.56185	0.644905	2.48E-08	0.717355	2.96E-05
SNORA61	-0.06999	-0.0787	0.075431	0.175183	0.604927	0.564226	0.57707	0.192436	0.059926	-0.32907	0.010402	-0.11117	0.653802	0.012774	0.527034	0.231014
SNORA71C	-0.05128	0.035909	0.069274	-0.03397	0.704803	0.792751	0.608626	0.801908	0.010466	-0.01415	0.00596	0.02602	0.527518	0.462814	0.515496	0.568143
SNORA71D	-0.17351	-0.0553	0.137512	-0.04735	0.196797	0.6856	0.307705	0.726496	0.001778	-0.37355	0.031161	-0.18107	0.504678	0.005277	0.580511	0.114249
SNORA80	0.049894	-0.25281	0.167926	-0.18129	0.712443	0.060123	0.211805	0.177146	0.073427	-0.48329	0.019463	-0.39681	0.686146	0.000334	0.550491	0.003164
STATH	0.042308	-0.13231	0.070154	0.08718	0.754674	0.331014	0.604069	0.51903	0.218988	-0.08353	0.008531	-0.18708	0.928155	0.290499	0.522176	0.10657
ZFP36L2	0.233721	-0.16884	0.067154	0.249683	0.080155	0.21351	0.619663	0.061056	0.256012	0.057356	0.288291	0.095665	0.953267	0.644238	0.969588	0.73162
STAU1	-0.05875	0.048828	-0.07896	-0.12242	0.664218	0.720818	0.559352	0.364286	-0.24221	0.056816	-0.02091	0.030491	0.052422	0.646187	0.44579	0.579713
STC1	0.154043	-0.21293	0.150473	0.010335	0.252591	0.115114	0.263887	0.939178	0.243786	-0.24201	0.271398	-0.21243	0.948731	0.052571	0.964336	0.078187
HSPA13	0.092465	0.088134	-0.12843	0.439627	0.493915	0.518332	0.341052	0.000623	0.066574	0.37085	-0.06359	0.348066	0.669883	0.994413	0.339084	0.991115
SULT1E1	0.246006	-0.1193	0.084919	0.019506	0.065094	0.381144	0.529965	0.885485	0.160359	-0.15269	0.20119	-0.13192	0.856467	0.155521	0.907454	0.191075
ELOVL4	0.320493	0.093866	0.005386	-0.03503	0.016033	0.495463	0.968573	0.797696	0.315803	0.031354	0.05546	-0.03639	0.982711	0.581002	0.641267	0.406213
STIM1	-0.00564	0.213895	-0.04921	-0.09031	0.96707	0.116868	0.718717	0.508026	-0.16314	0.430529	-0.2349	0.161751	0.139334	0.99859	0.060186	0.858578
NEK4	-0.14721	-0.05009	-0.12396	-0.24631	0.274514	0.713881	0.358261	0.064753	-0.21255	-0.12762	-0.02028	-0.09454	0.078073	0.198993	0.44739	0.265999
STK3	-0.05216	0.191527	-0.20069	0.317144	0.699965	0.157345	0.134423	0.016228	-0.00215	0.306591	-0.19857	0.204373	0.49435	0.980885	0.095495	0.913465
STK4	-0.10764	-0.01876	-0.18274	0.45976	0.425466	0.890871	0.173651	0.000321	-0.07155	0.05604	0.019866	0.188335	0.318275	0.644277	0.551531	0.894979
AURKA	-0.08382	0.151764	-0.12379	-0.02177	0.539078	0.26869	0.363349	0.873477	-0.11597	0.482635	-0.16021	0.285979	0.221394	0.999659	0.14656	0.97299
CDKL5	-0.0385	-0.12128	-0.06656	-0.16111	0.778139	0.37775	0.625989	0.235533	-0.04622	-0.07947	0.041932	-0.173	0.380165	0.299791	0.607763	0.12513
STK10	-0.2199	-0.32617	-0.08309	0.427464	0.100261	0.014155	0.538901	0.000912	-0.0842	-0.2499	-0.00477	-0.12534	0.288986	0.04697	0.487595	0.203271
STK11	-0.08794	0.069372	0.046128	-0.1267	0.519272	0.614777	0.735675	0.352112	-0.10142	0.090129	-0.15772	-0.12447	0.251213	0.724304	0.150393	0.204921
AURKC	-0.17885	-0.02928	0.1571	-0.31994	0.183135	0.830352	0.243184	0.01526	-0.02823	-0.42127	0.197806	-0.38985	0.426126	0.001775	0.903626	0.003701
SULT1A2	0.068094	0.02633	0.220796	-0.28691	0.614757	0.847255	0.098845	0.030478	0.131805	-0.23605	0.45001	-0.18022	0.808712	0.057128	0.999038	0.115356
BRS3	-0.11065	0.063839	0.049325	-0.17644	0.416864	0.643334	0.718092	0.193328	0.094819	-0.15742	-0.03653	-0.31328	0.734609	0.148047	0.405838	0.017003
STRN	-0.01725	0.430455	-0.2411	0.092564	0.898668	0.000928	0.07081	0.49345	0.145174	0.430287	-0.10414	0.180598	0.832134	0.998581	0.247999	0.885139
STX1A	-0.19036	0.143995	0.11262	-0.21932	0.156084	0.289698	0.404234	0.101185	-0.16953	-0.07317	0.008644	-0.07229	0.130015	0.314446	0.522471	0.31652
STX3	-0.28714	0.307627	-0.27287	0.052465	0.030336	0.021089	0.040012	0.698316	-0.14734	0.072795	-0.25681	-0.17703	0.164247	0.684661	0.044291	0.119607
STX4	-0.12534	0.005624	-5.88E-05	0.203242	0.352877	0.967189	0.999653	0.129437	0.000511	0.083655	-0.04905	0.092865	0.501346	0.709776	0.374489	0.730339
STX5	0.1674	-0.15454	0.036958	0.177816	0.213263	0.255426	0.7849	0.185731	0.102723	0.137825	0.071838	0.018442	0.749041	0.8167	0.678461	0.547854
STXBP1	0.289945	-0.36837	0.309828	-0.17026	0.030188	0.005654	0.020139	0.209647	0.034524	-0.4016	0.151138	-0.19551	0.589066	0.003125	0.836287	0.099031
STXBP2	-0.07983	-0.00224	0.004579	-0.03982	0.554999	0.986952	0.973031	0.768709	-0.30758	0.374526	-0.22982	0.089266	0.018792	0.994831	0.064422	0.722387
STXBP3	-0.00218	0.208643	-0.24913	0.195077	0.987184	0.122792	0.061647	0.145897	0.006149	0.447253	-0.07833	0.295997	0.516176	0.999084	0.30451	0.977104
STYX	0.028956	0.259133	-0.22005	0.165124	0.83069	0.053791	0.100026	0.219639	0.105026	0.356747	-0.02698	0.246121	0.756361	0.992526	0.430171	0.950407
SULT1A1	-0.1327	-0.20914	0.113189	-0.27547	0.325087	0.121876	0.401848	0.038077	-0.08731	-0.21185	0.020687	-0.13985	0.284227	0.081202	0.553017	0.179767
SULT1C2	0.124542	-0.31812	0.255273	-0.18831	0.360435	0.017939	0.057592	0.164574	-0.09599	-0.30522	0.021811	-0.11187	0.265238	0.020735	0.55588	0.232191
BSG	-0.155	0.073511	-0.22104	0.111588	0.249621	0.590282	0.098465	0.408583	-0.14453	0.479866	-0.22807	0.307006	0.168958	0.99963	0.065927	0.981022
SULT2B1	-0.03359	0.205382	0.010059	-0.20248	0.805844	0.132516	0.941344	0.134497	-0.01396	0.244207	0.020503	-0.05598	0.463308	0.949036	0.553173	0.355881
SUOX	0.078808	0.207414	0.024039	-0.0361	0.567374	0.132343	0.861702	0.793587	-0.15488	0.4873	-0.33536	0.365899	0.152026	0.999703	0.012161	0.993803
SULT2A1	0.023669	0.0103	0.180391	-0.29437	0.862534	0.940504	0.183379	0.027647	-0.0773	-0.34841	0.131102	-0.36348	0.304808	0.008825	0.80467	0.006515
SUPT4H1	-0.08651	0.12921	-0.29297	0.145238	0.522266	0.34257	0.026992	0.281053	-0.17542	0.23058	-0.10575	0.224656	0.121786	0.938425	0.244656	0.933324
SUPT5H	-0.10092	-0.00797	0.017639	-0.12462	0.455091	0.953518	0.896382	0.355683	-0.16875	0.016511	-0.05476	-0.00992	0.131126	0.543362	0.360445	0.473922
BST1	0.17783	-0.43497	0.19004	-0.25648	0.185697	0.000808	0.156797	0.05413	-0.16507	-0.45995	0.358588	-0.25871	0.139269	0.000739	0.991581	0.043081
SUPT6H	0.037296	0.298411	-0.15661	0.237055	0.782982	0.025489	0.244671	0.075819	0.130135	0.310196	-0.1095	0.146585	0.802904	0.980949	0.239601	0.831687

SUPV3L1	-0.13052	0.347842	-0.4188	0.245517	0.333201	0.008617	0.001186	0.065646	-0.0906	0.499493	-0.29897	0.382757	0.27466	0.999795	0.02302	0.995672
ABCC8	0.012225	-0.1927	0.157427	-0.3109	0.928084	0.154779	0.242191	0.018579	0.131856	-0.34716	0.227142	-0.43404	0.808805	0.009044	0.933262	0.00129
SURF1	-0.0153	-0.00694	0.083677	-0.15703	0.910089	0.959531	0.536022	0.243403	0.025227	-0.0742	-0.03627	-0.10157	0.566085	0.312044	0.406509	0.250891
SURF2	-0.21424	0.069193	0.022169	-0.20706	0.109532	0.612352	0.869981	0.122244	-0.1732	-0.08952	-0.04904	-0.18648	0.127609	0.279342	0.375955	0.110005
SURF4	0.127996	0.211365	0.061404	0.388171	0.342698	0.117873	0.650008	0.002848	0.103911	0.535505	-0.19122	0.422227	0.754029	0.999937	0.104139	0.998266
MED22	-0.15742	-0.15903	-0.02318	0.200987	0.24657	0.241728	0.865353	0.137457	-0.01687	0.038893	0.02512	0.189726	0.455688	0.601266	0.565054	0.896684
SURF6	0.001673	-0.02093	0.094534	0.145296	0.990144	0.878337	0.484255	0.280858	-0.1203	0.071434	-0.227	0.190509	0.215591	0.679501	0.069195	0.894993
SUV39H1	-0.49498	0.111959	-0.12774	0.01924	0.000105	0.415757	0.348122	0.888072	-0.3044	0.317234	-0.2252	-0.01072	0.021024	0.983139	0.068458	0.472146
BST2	-0.07783	-0.05645	0.019933	0.606932	0.568574	0.682253	0.884066	7.09E-07	-0.03683	0.274381	-0.08486	0.445836	0.403995	0.967505	0.289712	0.999049
SVIL	0.320621	-0.10604	0.197793	0.198341	0.015033	0.436679	0.140256	0.139139	0.470451	-0.26974	0.263714	-0.18958	0.999515	0.034924	0.959975	0.103496
VAMP1	0.113953	-0.188	0.16076	0.081658	0.398657	0.16527	0.232239	0.545941	0.202139	-0.23793	0.325771	0.058488	0.911042	0.055664	0.985512	0.650289
VAMP2	0.318297	-0.22832	0.261323	0.063052	0.015823	0.090557	0.049588	0.641253	0.285404	-0.24285	0.290519	-0.263	0.972737	0.051953	0.973567	0.038709
XCL2	-0.08452	-0.19736	0.040132	-0.08043	0.531922	0.144846	0.766927	0.551998	-0.13364	-0.05004	0.017441	0.081633	0.190735	0.372046	0.544734	0.703016
SYCP1	0.094642	-0.13526	0.122967	-0.29787	0.483756	0.320266	0.36215	0.024422	0.081096	-0.37538	0.011551	-0.36041	0.70394	0.005075	0.530016	0.006938
BTC	0.14645	-0.04232	0.184489	-0.16135	0.281467	0.759013	0.17346	0.234831	-0.15657	-0.03773	-0.05354	-0.14341	0.14937	0.401697	0.363426	0.170854
SYK	-0.28367	0.193911	-0.32543	0.313844	0.034122	0.156029	0.014388	0.018499	-0.32401	0.531525	-0.2484	0.349243	0.014022	0.999928	0.049952	0.991319
SYN1	0.013978	-0.10736	0.284268	-0.15964	0.917808	0.430969	0.032109	0.235545	0.17514	-0.40812	0.255833	-0.39048	0.875079	0.002693	0.953148	0.004002
SYN2	-0.01407	-0.02493	0.16217	-0.24941	0.917267	0.855313	0.228114	0.061344	0.287821	-0.51104	0.136122	-0.48665	0.973788	0.000142	0.813696	0.000302
SYP	0.088063	-0.32002	0.318507	-0.06319	0.514788	0.016198	0.01575	0.640517	0.072786	-0.31641	0.07351	-0.16102	0.68464	0.016084	0.684349	0.142535
SYPL1	0.110113	0.332626	-0.30059	0.044509	0.414841	0.012253	0.023089	0.742341	-0.0104	0.554752	-0.23417	0.350922	0.472656	0.999968	0.060779	0.991602
SYT1	-0.02951	-0.05199	-0.08513	-0.38669	0.827529	0.703523	0.528961	0.002966	-0.00551	-0.17432	0.266269	-0.05763	0.485511	0.1233	0.961469	0.351806
BTD	-0.07795	-0.10106	-0.14604	-0.23323	0.564359	0.45865	0.278382	0.080815	-0.18144	0.168743	-0.1175	0.155174	0.113767	0.868863	0.221038	0.848432
SYT4	-0.05884	-0.0995	0.085179	-0.32248	0.66375	0.465622	0.528703	0.014425	-0.01385	-0.24555	0.142199	-0.2801	0.463612	0.049999	0.824281	0.02969
SYT5	-0.22232	-0.04793	0.115039	0.032399	0.096481	0.725762	0.39415	0.810911	-0.10569	-0.23138	0.104191	-0.05467	0.242252	0.060909	0.752103	0.359103
T	-0.10009	-0.21664	0.191474	-0.15558	0.458828	0.108772	0.153636	0.247817	0.093564	-0.28223	0.094467	-0.35544	0.731869	0.028693	0.731466	0.007674
TAC1	0.089801	-0.19312	0.165621	-0.2611	0.510418	0.157747	0.222507	0.051929	0.178327	-0.39146	0.075245	-0.44652	0.882134	0.00357	0.688375	0.000933
TACR2	0.407121	-0.1557	0.419592	0.011978	0.001672	0.251855	0.001158	0.929533	0.269196	-0.359	0.225765	-0.09883	0.964781	0.00714	0.932044	0.256741
TAC3	0.071729	-0.09321	0.199095	-0.21498	0.599346	0.498504	0.141274	0.111571	-0.04108	-0.25835	0.186755	-0.27549	0.394383	0.043311	0.887596	0.033499
TACC1	0.296804	0.106188	0.209697	0.34906	0.027776	0.444734	0.124397	0.009003	0.504006	-0.02785	0.264065	0.111868	0.999822	0.427107	0.960183	0.770402
ADAM17	-0.11363	0.386195	-0.36261	0.250582	0.4	0.003284	0.005571	0.060101	-0.01749	0.58955	-0.17966	0.344146	0.45408	0.999992	0.118823	0.990407
TACR1	0.222899	-0.19452	0.205441	0.286139	0.095592	0.150835	0.125254	0.030945	0.266198	-0.09374	0.152255	0.161476	0.963126	0.267739	0.840971	0.858162
KLF9	0.14942	-0.39469	0.242891	0.095971	0.267282	0.00261	0.068679	0.47761	0.484657	-0.57584	0.381675	-0.44842	0.999679	1.41E-05	0.99516	0.000888
TACR3	0.221258	-0.27621	0.232713	-0.28254	0.101259	0.041222	0.084352	0.03487	-0.06715	-0.36134	0.131015	-0.33057	0.328738	0.006807	0.804512	0.012421
TADA2L	-0.07837	0.330802	-0.24689	0.082773	0.562286	0.012767	0.064101	0.54045	-0.06881	0.435089	-0.30308	0.333088	0.324778	0.998744	0.021495	0.98815
TAF1	-0.04093	0.091408	-0.04332	-0.10742	0.762446	0.502848	0.749013	0.426432	0.100138	0.018732	0.225672	-0.06374	0.746062	0.549169	0.931961	0.336926
TAF2	0.01731	0.271385	-0.22741	0.137366	0.898304	0.043052	0.088897	0.308224	0.164654	0.396652	-0.06086	0.259333	0.86291	0.996825	0.345633	0.959105
TAF4	0.001579	-0.19731	0.149095	-0.1765	0.990699	0.144953	0.268334	0.189065	0.035688	-0.15118	0.106059	-0.25576	0.593075	0.157946	0.755972	0.04312
TAF4B	0.080338	0.194538	-0.07034	0.61939	0.552471	0.150796	0.603127	2.80E-07	0.217887	0.31786	-0.23965	0.347192	0.927117	0.984328	0.056415	0.990961
TAGLN	0.372738	-0.23494	0.393415	0.083347	0.004667	0.084243	0.002703	0.541394	0.34479	-0.43586	0.328846	-0.23761	0.990527	0.001232	0.986295	0.055914
TAF5	0.087786	0.186471	-0.002	0.063021	0.516118	0.168805	0.988206	0.641417	-0.05582	0.397249	-0.19838	0.188339	0.356265	0.996868	0.095719	0.894984
TAF6	-0.13333	-0.21395	0.005291	-0.13893	0.322773	0.113344	0.968843	0.302692	-0.28456	-0.03787	-0.03972	-0.01725	0.02764	0.401333	0.397786	0.454699
TAF7	-0.03341	0.195335	-0.31884	0.068524	0.805103	0.149098	0.015635	0.612519	0.063854	0.3024	-0.17929	0.233794	0.663339	0.979455	0.119303	0.941067
KLF5	0.033089	0.574316	-0.08219	-0.08661	0.810467	4.54E-06	0.550794	0.529517	-0.08245	0.74864	-0.25025	0.369944	0.292971	1	0.048659	0.994305
TAF9	0.088501	0.275564	-0.28813	0.116006	0.512692	0.039821	0.029744	0.390157	0.196825	0.357094	-0.09266	0.134029	0.905081	0.992579	0.27246	0.812736
TAF10	-0.04393	0.055298	0.204092	0.007989	0.745605	0.685631	0.127808	0.952968	-0.05645	0.109595	-0.14408	0.032322	0.354717	0.765787	0.172512	0.584429
TAF11	-0.01093	0.225399	-0.2438	0.21373	0.935708	0.094868	0.067611	0.110403	0.118098	0.380012	-0.06211	0.240243	0.782797	0.995406	0.342621	0.946107
TAF12	0.207825	0.095476	-0.06539	0.176245	0.124299	0.488066	0.63208	0.193824	0.001809	0.376688	-0.14969	0.317187	0.504759	0.995065	0.163181	0.984138
TAF13	0.022252	0.292009	-0.3637	0.265494	0.869497	0.028981	0.00542	0.045933	-0.00097	0.499596	-0.24646	0.380159	0.497435	0.999796	0.051336	0.99542
MAP3K7	-0.02054	0.270925	-0.21212	0.192276	0.879483	0.043422	0.113182	0.151887	0.120366	0.403203	-0.13037	0.230687	0.787216	0.997269	0.196671	0.938515
TAL1	0.147706	-0.33367	0.224655	-0.05207	0.272869	0.011966	0.092942	0.700486	0.275435	-0.49387	0.378172	-0.31834	0.968037	0.000243	0.994787	0.015537

TAL2	0.050541	-0.1023	0.189287	-0.19416	0.708879	0.453105	0.158478	0.147833	0.290036	-0.3008	0.165987	-0.24515	0.974723	0.021111	0.862083	0.050287
TALDO1	-0.06326	0.351326	-0.30298	-0.15188	0.640161	0.007931	0.021969	0.259386	-0.31295	0.432708	-0.29904	0.211112	0.017103	0.998665	0.022995	0.920487
BTF3	0.116613	0.328307	-0.2491	0.133094	0.387665	0.0135	0.061678	0.323654	0.061768	0.555749	-0.04517	0.437869	0.658287	0.99997	0.384143	0.99883
TAP1	-0.04312	-0.08294	0.141783	0.635948	0.750116	0.543374	0.292776	1.06E-07	-0.08796	0.242744	0.004147	0.334185	0.282796	0.945938	0.510658	0.987572
TAP2	-0.10457	-0.06004	0.067585	0.685427	0.443079	0.663265	0.620659	5.61E-09	-0.15706	0.302248	-0.04415	0.38131	0.154298	0.976928	0.389304	0.994672
TAPBP	-0.05765	-0.08501	0.129896	0.421704	0.670162	0.533304	0.33552	0.001087	-0.02785	0.326346	-0.03953	0.361175	0.42712	0.986567	0.398273	0.99317
TARBP1	-0.05706	0.177898	-0.1601	0.013997	0.673311	0.189611	0.234199	0.917693	-0.02313	0.300112	-0.08638	0.177829	0.439368	0.978639	0.286312	0.881468
TARBP2	-0.16949	-0.09943	0.102696	-0.13682	0.211728	0.465934	0.451348	0.314643	-0.02777	-0.23179	-0.04648	-0.17353	0.427325	0.060572	0.380881	0.124385
TARS	0.072137	0.287239	-0.2707	0.247271	0.593858	0.031835	0.041684	0.063681	-0.03902	0.537995	-0.26391	0.460807	0.3984	0.999942	0.039909	0.999365
TAT	0.060773	-0.08196	0.22917	-0.37273	0.653379	0.548172	0.086388	0.004299	-0.04926	-0.25372	0.0853	-0.397	0.372557	0.044435	0.711279	0.00315
TBX1	-0.04876	-0.08837	0.2333	-0.26129	0.718693	0.517189	0.080716	0.049622	-0.01702	-0.38088	0.033806	-0.28259	0.455293	0.004508	0.587243	0.028529
CNTN2	0.050121	-0.17266	0.2456	-0.22304	0.711195	0.203197	0.065552	0.095373	0.22915	-0.39533	0.236204	-0.39647	0.937222	0.003272	0.940869	0.003188
TAZ	-0.05319	-0.06288	0.110935	0.027868	0.694372	0.645233	0.411347	0.836963	0.036688	-0.01491	0.076253	-0.06417	0.595635	0.460816	0.690706	0.335906
TBCA	0.122653	-0.0418	0.099373	-0.21978	0.363386	0.75967	0.462065	0.100444	-0.13113	-0.15239	0.201061	-0.14204	0.192519	0.155997	0.90731	0.173186
TBCC	-0.07795	-0.11392	-0.11638	0.259313	0.564381	0.403142	0.388627	0.051432	-0.10221	0.146353	-0.18602	0.123444	0.249539	0.834111	0.110575	0.79313
TBCD	0.070035	-0.07241	0.088471	0.153792	0.604684	0.595877	0.512834	0.253375	0.079619	0.183104	-0.16909	0.102712	0.700549	0.888393	0.133411	0.751512
TBCE	-0.00328	0.412436	-0.14588	0.168217	0.980655	0.001585	0.278924	0.211004	-0.0195	0.446365	-0.09449	0.305404	0.448835	0.999063	0.26849	0.980488
SERPINA7	-0.09271	0.026624	0.042058	-0.32554	0.492748	0.845567	0.756081	0.013474	-0.09917	-0.07451	-0.00102	-0.1403	0.25601	0.311307	0.497345	0.17619
TBL1X	-0.16158	0.135959	-0.28	-0.20541	0.229846	0.317733	0.034899	0.125315	-0.09909	-0.09777	0.031731	-0.20045	0.256172	0.258999	0.581963	0.090826
TBP	0.05105	0.235023	-0.19615	0.109047	0.706079	0.08123	0.143639	0.419402	0.018998	0.410547	-0.06823	0.118571	0.549864	0.997701	0.328043	0.783724
TBX2	0.355347	-0.19729	0.355148	0.125468	0.006677	0.144982	0.00671	0.352391	0.411867	-0.40112	0.331381	-0.13892	0.997772	0.002866	0.986915	0.178586
TBX5	0.347182	-0.08964	0.21703	0.205016	0.008146	0.511174	0.104882	0.126055	0.359779	-0.34757	0.319694	-0.0672	0.992972	0.008971	0.983853	0.328619
TBX6	-0.08799	0.086317	0.018793	-0.30756	0.515159	0.527029	0.889647	0.019948	0.047799	-0.11792	0.058414	-0.26774	0.623788	0.217553	0.648456	0.036014
TBX15	0.057059	-0.18435	0.312061	-0.1827	0.673325	0.173782	0.01812	0.173733	0.104612	-0.20307	0.116742	-0.23478	0.755497	0.08794	0.777479	0.058137
TBXA2R	0.063261	-0.11789	0.254325	-0.03079	0.640144	0.386841	0.056251	0.820144	0.105296	-0.35189	0.216097	-0.20713	0.756922	0.008238	0.923028	0.083613
TBXAS1	0.011283	-0.3737	0.15302	0.533217	0.933615	0.004553	0.255794	1.95E-05	-0.23717	-0.21756	-0.02771	0.005314	0.058358	0.075556	0.429148	0.513818
TCEA2	0.006587	-0.18791	0.067921	-0.09064	0.961213	0.165485	0.615662	0.502508	-0.03355	-0.12468	0.19599	-0.11392	0.412404	0.204523	0.901527	0.225469
TCEA3	-0.0204	0.168419	0.103605	-0.24729	0.880269	0.214683	0.443117	0.063657	0.011532	0.081947	-0.01021	-0.08239	0.530315	0.705887	0.473468	0.293107
SNORD5	-0.02737	0.25126	-0.12669	0.252845	0.839833	0.061771	0.34767	0.057748	0.238538	0.233786	-0.13491	0.181403	0.942718	0.938907	0.191297	0.883481
SNORA16A	0.09913	-0.13899	0.10497	0.235447	0.467298	0.311534	0.441337	0.080666	-0.02204	-0.0457	-0.17968	-0.04076	0.442214	0.381479	0.118785	0.393986
SNORD6	-0.02499	0.076624	-0.13594	0.202741	0.85361	0.574596	0.313326	0.130405	0.095002	0.182325	0.06575	0.000142	0.735006	0.887388	0.666082	0.500375
SNORD7	0.107543	0.145316	-0.16101	0.196621	0.425884	0.285248	0.231506	0.14267	-0.00687	0.239329	-0.01025	-0.03353	0.481937	0.945413	0.473371	0.412472
SNORD45C	-0.07815	0.321519	-0.18386	0.250984	0.563378	0.015679	0.170988	0.059676	0.214551	0.388579	-0.09312	0.256656	0.923905	0.996193	0.271453	0.957447
SNORD49B	0.004535	0.216335	-0.02434	0.241895	0.973538	0.112652	0.85869	0.072474	-0.24494	0.370083	-0.27884	0.17269	0.050434	0.994322	0.031811	0.874444
SNORD50B	0.064549	0.133824	-0.1468	0.249115	0.633339	0.325465	0.275845	0.061667	0.140675	0.27648	-0.21016	0.27344	0.821661	0.967007	0.085461	0.965429
SNORD59B	-0.07948	0.309604	-0.21133	0.266657	0.55674	0.020234	0.114558	0.044955	0.118976	0.378614	-0.04357	0.172565	0.784513	0.995265	0.388141	0.874271
SNORD32B	-0.17177	-0.39241	-0.00213	-0.11944	0.205563	0.002778	0.987575	0.380581	-0.12536	-0.08564	0.240761	-0.0672	0.203235	0.285733	0.944438	0.328611
FAM86D	-0.10059	-0.20438	0.082445	-0.26425	0.464937	0.138231	0.549571	0.051237	-0.1648	0.088354	-0.02332	-0.11697	0.136872	0.720356	0.439572	0.219413
TCEB1	-0.02737	0.11292	-0.3029	0.198752	0.839836	0.407325	0.022004	0.138306	-0.07851	0.396562	-0.08276	0.352261	0.302011	0.996818	0.294427	0.991823
SNORD75	-0.03009	0.168392	-0.12535	0.200014	0.82417	0.214758	0.352868	0.135768	-0.00267	0.490582	-0.18753	0.293918	0.493065	0.999688	0.111424	0.974985
SNORD76	0.051037	0.177756	0.087367	0.416428	0.706154	0.18997	0.51813	0.001273	0.145321	0.456942	-0.13424	0.352951	0.832382	0.999294	0.189664	0.991935
SNORD77	-0.01227	0.025215	-0.20332	0.219347	0.928495	0.855006	0.132861	0.104318	-0.09118	0.440457	-0.08169	0.237803	0.273378	0.998906	0.296858	0.94424
SNORD78	0.0328	0.199676	-0.1251	0.304604	0.808613	0.140095	0.353802	0.021234	0.15321	0.345969	-0.07406	0.274359	0.845314	0.990742	0.314378	0.967494
SNORD117	0.112114	-0.00082	-0.08599	0.282358	0.406362	0.995211	0.524755	0.033334	0.155581	0.265751	0.044992	0.190835	0.849072	0.962874	0.61542	0.898029
TCEB2	-0.08794	-0.05277	-0.06574	0.006582	0.515376	0.699308	0.627055	0.961243	-0.25085	0.237774	-0.3313	0.197938	0.046328	0.944217	0.013104	0.906353
TCEB3	-0.02925	0.500224	-0.17458	0.016081	0.82899	8.65E-05	0.193991	0.90549	0.108371	0.560673	-0.12867	0.2422	0.763282	0.999975	0.199801	0.947568
TCF4	0.199065	0.217067	-0.06615	0.169134	0.137673	0.108061	0.624924	0.208489	0.229528	0.411331	0.177992	0.455618	0.937542	0.997744	0.878955	0.999268
TBX3	0.376046	-0.23329	0.221956	0.121834	0.004287	0.086501	0.100159	0.371058	0.323618	-0.34279	0.346416	-0.117	0.985878	0.009848	0.990127	0.21935
HNF1A	-0.0258	-0.14847	0.199605	-0.21416	0.848889	0.274806	0.136586	0.109668	-0.0459	-0.38284	-0.01062	-0.38306	0.380988	0.004321	0.472413	0.004299
HNF1B	-0.26925	-0.09737	0.053537	-0.40798	0.042834	0.475284	0.692454	0.001632	-0.22226	-0.41242	-0.07941	-0.23436	0.068825	0.002199	0.302042	0.058478

TCF3	0.002707	-0.14535	0.093701	0.065674	0.984057	0.285127	0.488132	0.627418	0.032835	-0.13035	0.094298	-0.14346	0.58575	0.193947	0.731101	0.170759
TCF7	-0.08527	-0.25644	0.10561	0.082972	0.528262	0.056423	0.434294	0.539477	-0.01718	-0.3135	0.112695	-0.13195	0.454897	0.016939	0.769458	0.191018
TCF7L2	0.008785	0.102646	0.140966	-0.05696	0.94829	0.451571	0.295595	0.673866	0.306231	0.133136	-0.01493	0.062791	0.979616	0.808358	0.461686	0.659012
ZEB1	0.257137	-0.19629	0.08188	0.294822	0.053491	0.14709	0.544846	0.025995	0.403374	-0.32437	0.392602	-0.00995	0.99728	0.013929	0.99618	0.473828
C2orf3	-0.0584	0.18276	-0.10428	0.025921	0.666092	0.177598	0.440151	0.848218	-0.21795	0.120285	-0.04848	0.151378	0.072827	0.787059	0.375908	0.842369
TCF12	0.083757	0.076307	-0.12825	0.328544	0.535634	0.576184	0.341713	0.012589	0.09916	0.362898	0.005937	0.443841	0.743973	0.993407	0.515437	0.998998
TCF15	-0.06055	-0.18091	0.286761	-0.23054	0.654593	0.182111	0.030566	0.084474	0.180234	-0.50254	0.236508	-0.34775	0.88466	0.000186	0.941113	0.00894
BTG1	0.130196	0.127879	-0.19542	0.437877	0.33887	0.34761	0.148907	0.000738	0.139209	0.36649	-0.06172	0.371351	0.821913	0.993879	0.343564	0.994471
ZNF354A	-0.22376	0.126233	-0.36108	0.044841	0.09736	0.358437	0.006256	0.742791	0.00281	0.012016	-0.02712	0.013713	0.507394	0.531585	0.42982	0.536034
TCF19	0.106633	0.018091	0.053213	0.12524	0.434093	0.895697	0.696903	0.357731	-0.06332	0.583474	0.037496	0.445929	0.339728	0.999987	0.595472	0.99893
TCF20	-0.24555	0.028322	-0.05637	-0.01308	0.065606	0.835852	0.677071	0.923076	-0.24426	0.15831	-0.2215	0.122631	0.050925	0.853326	0.071832	0.791577
TCF21	0.238892	-0.24131	0.119209	0.361717	0.073511	0.073185	0.377114	0.005698	0.211824	-0.1574	0.156436	0.097174	0.921204	0.148078	0.847604	0.73971
VPS72	-0.03375	0.159668	-0.17607	0.185653	0.803158	0.239811	0.19017	0.166773	-0.0428	0.571532	-0.0478	0.386266	0.388815	0.999983	0.377581	0.995993
MLX	-0.19552	0.112191	-0.07316	0.054765	0.144973	0.410379	0.588626	0.685764	-0.11754	0.192275	0.044428	0.14676	0.218292	0.899757	0.614011	0.834789
TCN1	0.144107	-0.06404	0.035615	0.051087	0.289318	0.642281	0.794411	0.708464	0.215643	0.073133	0.077294	-0.03923	0.924968	0.685456	0.693104	0.397884
TCN2	-0.00759	0.023589	-0.05732	-0.0061	0.955307	0.862994	0.671941	0.964096	-0.10645	0.190237	0.061907	0.211053	0.240681	0.897305	0.656888	0.920428
TCOF1	-0.09899	-0.12493	0.024119	-0.18983	0.463823	0.358927	0.858655	0.157267	0.036855	-0.27079	0.162036	-0.30314	0.596062	0.034365	0.856206	0.020285
BTK	-0.03202	-0.29691	0.042229	0.478066	0.814783	0.027714	0.757306	0.000194	-0.24103	-0.13368	-0.03655	-0.01016	0.055358	0.190671	0.406896	0.473581
TCP1	0.002432	0.231807	-0.29569	0.148203	0.985676	0.085604	0.025542	0.271243	-0.16175	0.490328	-0.20155	0.400072	0.141429	0.999729	0.092143	0.997064
TCP11	-0.23516	-0.13998	0.0142	-0.38937	0.078259	0.303493	0.916507	0.002756	-0.17382	-0.5151	0.109593	-0.39545	0.123985	0.000125	0.763204	0.003263
BTN1A1	0.042048	-0.30356	0.172847	-0.21852	0.756135	0.022946	0.198527	0.102455	0.130137	-0.35139	0.103806	-0.39577	0.805661	0.00832	0.751302	0.003239
TRGC2	0.045166	-0.0683	0.10695	0.217965	0.74334	0.623594	0.437053	0.109904	-0.04464	-0.27496	0.068627	-0.23623	0.38547	0.033776	0.670985	0.05911
TRGV2	0.122148	-0.12358	0.151418	0.282095	0.365381	0.364171	0.260864	0.033506	0.120179	-0.08071	-0.0353	0.064391	0.786854	0.296955	0.40896	0.664635
TECTB	0.123633	-0.17985	0.253108	-0.22107	0.363978	0.188871	0.059817	0.101561	0.101701	-0.31032	0.160628	-0.1739	0.749377	0.017914	0.854074	0.123875
TRGV3	-0.22347	0.015607	-0.01211	0.188241	0.094717	0.909107	0.928764	0.160834	-0.06578	-0.03739	0.024059	-0.2458	0.332026	0.40258	0.562328	0.049821
TRGV5	0.200895	-0.17826	0.319867	-0.11922	0.134017	0.188692	0.015286	0.377082	-0.00766	-0.18366	0.171122	-0.11945	0.479852	0.110895	0.86948	0.214566
TRGV8	0.040508	0.050598	-0.02649	0.447988	0.764803	0.71113	0.844919	0.000475	0.253086	-0.2821	0.254537	-0.20566	0.955154	0.028753	0.954232	0.085165
TRGV9	0.088943	0.021287	-0.05176	0.117635	0.51058	0.876253	0.70217	0.383494	-0.06446	0.10596	-0.20328	-0.07699	0.336998	0.755768	0.092837	0.307603
TCTA	-0.20804	0.044801	0.001269	-0.1144	0.120444	0.743016	0.992528	0.396778	-0.10413	0.016318	-0.03891	0.08989	0.245516	0.542858	0.399826	0.723774
BUB1	-0.06378	0.132806	-0.1005	-0.09345	0.640508	0.333752	0.461155	0.493299	-0.18597	0.617146	-0.22405	0.392902	0.107959	0.999998	0.069498	0.996544
DYNLT3	-0.03573	0.361733	-0.34687	0.038171	0.791912	0.006156	0.008207	0.778019	0.150769	0.437445	-0.096	0.21419	0.841382	0.998817	0.265231	0.923552
TCTE3	-0.03238	-0.22482	0.209603	-0.20078	0.811013	0.095744	0.117619	0.134253	0.038163	-0.33639	0.003125	-0.29055	0.599402	0.011134	0.508127	0.025064
PPP1R11	-0.2166	0.09326	-0.03493	-0.15002	0.105594	0.494199	0.796438	0.26533	-0.17206	0.050316	-0.1316	0.014784	0.12644	0.630085	0.194418	0.538841
DYNLT1	-0.26606	0.044674	-0.20412	-0.14575	0.045453	0.743716	0.127747	0.279327	-0.42732	0.149068	-0.18874	0.140232	0.001529	0.838605	0.107181	0.823693
TDG	-0.05129	0.314967	-0.13385	0.057384	0.70476	0.018061	0.320897	0.671572	-0.26296	0.414061	-0.15672	0.092261	0.038729	0.997886	0.151947	0.729012
TDGF1	-0.02947	0.064315	0.173979	-0.05065	0.827738	0.637694	0.195559	0.708269	0.008698	-0.1352	0.177286	-0.06886	0.522876	0.185169	0.878003	0.324657
TDGF3	-0.04074	-0.02523	0.017756	-0.09472	0.763508	0.853554	0.895699	0.483414	0.13079	-0.24764	0.167798	-0.23758	0.806858	0.048528	0.864722	0.055934
TDO2	0.106005	-0.15064	0.039848	0.145529	0.436822	0.272288	0.770606	0.284536	-0.03539	-0.19283	0.209002	0.051167	0.408739	0.102206	0.913329	0.630733
ACTC1	0.182535	-0.08185	0.17444	-0.07126	0.17814	0.552445	0.198502	0.601764	0.161857	-0.2237	0.317861	-0.17399	0.855937	0.069815	0.982251	0.126504
PRDX2	-0.01379	0.238152	-0.18567	0.074751	0.919674	0.079963	0.170675	0.584009	-0.15238	0.616391	-0.272	0.374962	0.156018	0.999997	0.035339	0.994879
TEAD1	-0.03341	0.015752	-0.0952	-0.20304	0.805127	0.908269	0.481164	0.129823	-0.10015	-0.08733	0.033585	0.034973	0.253911	0.281944	0.586681	0.591242
TEAD4	-0.01163	-0.00268	0.161763	0.013469	0.931588	0.984344	0.229301	0.92079	-0.01761	-0.05944	0.092421	0.040387	0.45376	0.34738	0.727021	0.605068
TEAD3	-0.02973	0.296305	0.003727	-0.13337	0.826228	0.026597	0.978048	0.322636	0.002636	0.254507	-0.14006	-0.04259	0.506935	0.956078	0.179394	0.389338
TEC	-0.055	0.226262	-0.16497	0.089985	0.684482	0.093577	0.220088	0.50562	-0.1842	0.175478	-0.06404	-0.00505	0.1102	0.878288	0.337986	0.486725
TECTA	0.158741	-0.11866	0.26906	-0.27134	0.238233	0.383723	0.042987	0.041186	0.271127	-0.49682	0.227812	-0.44562	0.965816	0.000222	0.933848	0.000956
TEF	0.086122	-0.10106	0.16408	-0.10006	0.524134	0.458614	0.222609	0.458956	0.029136	-0.21208	0.053109	-0.13189	0.576213	0.078544	0.635512	0.19114
TMBIM6	-0.05443	0.316094	-0.27159	-0.02968	0.687585	0.017631	0.040991	0.826506	-0.08549	0.300362	-0.16999	0.214974	0.288302	0.977505	0.13498	0.921927
BUB1B	-0.06473	0.312946	-0.03725	-0.06193	0.635546	0.020001	0.78521	0.650249	-0.12765	0.638962	-0.21574	0.349698	0.198944	0.999999	0.077324	0.991396
TEK	0.243763	-0.11448	0.111298	0.371298	0.06766	0.400842	0.409807	0.004461	0.23386	-0.13646	0.134542	0.078934	0.94112	0.182925	0.810883	0.698969
TEP1	-0.15295	0.07448	0.014128	0.204643	0.256013	0.585379	0.916928	0.12676	-0.07417	0.315178	-0.19209	0.184889	0.312101	0.983559	0.103086	0.890671

TERC	0.016376	-0.08167	0.059232	-0.07267	0.903768	0.549576	0.661628	0.591122	-0.0252	0.045017	-0.10211	0.080588	0.433986	0.616792	0.252252	0.702776
TERF1	0.145777	0.275216	-0.03608	0.01301	0.279251	0.040081	0.789883	0.923479	0.194042	0.237473	-0.1301	0.218138	0.899239	0.94188	0.199968	0.925001
TERF2	0.132967	0.175337	-0.19726	0.032176	0.324119	0.196169	0.141356	0.812191	0.368556	-0.11265	0.099656	-0.27463	0.994137	0.228027	0.742582	0.032371
TERT	-0.05543	-0.17685	0.325345	-0.13458	0.682144	0.192281	0.013531	0.318223	-0.00249	-0.21279	0.146698	-0.21347	0.493449	0.077827	0.831875	0.07716
TESK1	0.066132	-0.06129	0.21893	0.095349	0.625013	0.653619	0.101802	0.480478	0.251945	-0.05287	0.004054	-0.07206	0.954402	0.363558	0.510542	0.317067
TF	0.152151	-0.21471	0.180995	0.323979	0.262951	0.115449	0.181893	0.014857	0.278711	-0.11693	0.173359	-0.05891	0.969648	0.219498	0.872617	0.348675
TFAM	0.054232	0.119954	-0.2752	0.291961	0.688664	0.378536	0.038274	0.027547	-0.0158	0.468384	-0.22154	0.386682	0.458509	0.999486	0.071792	0.99603
TFAP2A	-0.04872	0.197079	-0.00277	0.007003	0.718909	0.145431	0.983679	0.958769	-0.03652	0.456058	-0.15905	0.268465	0.404783	0.999277	0.148335	0.964383
TFAP2B	0.096181	-0.14644	0.282043	-0.21919	0.47664	0.281495	0.033539	0.101389	0.041116	-0.3522	0.101341	-0.38216	0.606921	0.008187	0.74614	0.004385
TFAP2C	-0.12449	0.419134	-0.1757	-0.01507	0.356186	0.001303	0.191118	0.911422	-0.03242	0.646886	-0.26914	0.277992	0.415314	0.999999	0.036908	0.9693
TFAP4	0.053692	0.062308	0.040104	0.095156	0.691611	0.64825	0.767084	0.481372	-0.10945	0.194102	0.063478	0.021814	0.234514	0.901919	0.660658	0.557209
TFCP2	-0.00608	0.175912	-0.14534	-0.03178	0.964188	0.19468	0.280712	0.81445	-0.15606	0.302227	-0.20874	0.191503	0.150167	0.979395	0.084398	0.898833
NR2F1	0.133864	-0.27071	0.160752	0.077765	0.325319	0.045606	0.236595	0.568896	0.184722	-0.06815	0.293679	0.124217	0.89046	0.326349	0.974887	0.7946
NR2F2	0.131489	-0.17224	0.316806	0.07798	0.329574	0.204316	0.016348	0.56423	0.149095	-0.14811	0.291403	0.079843	0.83865	0.16298	0.973941	0.701064
TFDP1	-0.21014	0.247606	-0.23507	-0.18509	0.120075	0.068362	0.08116	0.172032	-0.2927	0.559872	-0.23037	0.322938	0.024191	0.999974	0.063949	0.985702
TFDP2	0.058771	0.14639	-0.24593	-0.03978	0.6641	0.281664	0.065183	0.768915	0.04612	0.302842	0.076304	0.222647	0.61957	0.97961	0.690823	0.931525
TFE3	0.146944	-0.06751	0.029626	0.196608	0.275378	0.621065	0.826836	0.142698	0.09813	0.045444	-0.01214	0.106838	0.741767	0.617869	0.468445	0.760122
TFF1	0.042782	-0.08734	0.128259	0.00359	0.752016	0.522142	0.341696	0.978854	0.053722	-0.04734	-0.08363	-0.01545	0.638552	0.377354	0.292475	0.459422
TFF2	-0.19159	-0.0209	0.133491	-0.17144	0.157206	0.878512	0.32668	0.206458	0.087759	-0.24361	0.226605	-0.31426	0.719027	0.051393	0.932788	0.016711
TFF3	-0.07663	-0.07113	0.085714	-0.09589	0.571022	0.602426	0.526107	0.477965	-0.13078	-0.07026	-0.06688	-0.11092	0.193154	0.321336	0.331228	0.231522
TFPI	0.199513	-0.09286	-0.06907	0.299264	0.136772	0.49607	0.609663	0.023732	0.296861	0.116491	0.182989	0.355753	0.977433	0.779637	0.885546	0.992375
TFR2	-0.03288	-0.06123	0.181334	-0.21137	0.808174	0.653937	0.177038	0.114487	0.179616	-0.28684	0.139562	-0.22248	0.883845	0.026633	0.819733	0.068622
TFRC	0.258121	0.256544	-0.188	0.271704	0.054766	0.056316	0.165276	0.042799	0.057704	0.570634	-0.23646	0.387271	0.648366	0.999983	0.058924	0.996081
TG	-0.04561	-0.18937	0.053578	-0.03441	0.736209	0.162171	0.692231	0.799415	0.064696	-0.1269	0.072124	-0.16144	0.66537	0.200338	0.681117	0.141896
TGFA	-0.1512	0.378676	-0.23232	-0.19097	0.265995	0.004361	0.084895	0.158588	-0.07152	0.457996	-0.25428	0.131992	0.318354	0.999314	0.045939	0.809053
TGFB1	0.105559	-0.12076	-0.0276	0.461632	0.434517	0.375327	0.838512	0.000301	0.015323	0.10725	0.004903	0.141798	0.540254	0.760973	0.51275	0.826395
TGFB111	0.348904	-0.32684	0.271457	-0.03423	0.008403	0.014869	0.042995	0.802229	0.33963	-0.47259	0.329988	-0.26371	0.989534	0.000456	0.986577	0.038293
TGFB2	0.192443	0.10569	-0.06473	-0.02494	0.151524	0.438193	0.632388	0.853894	0.270632	0.117651	0.250835	0.003853	0.965553	0.78192	0.951743	0.510137
TGFB3	0.379753	-0.28791	0.160538	0.320451	0.003573	0.031417	0.232893	0.01509	-0.08906	0.1758	0.162833	0.448413	0.280359	0.875984	0.854536	0.998997
LEFTY2	0.127697	-0.11314	0.225741	-0.28253	0.343837	0.4064	0.091331	0.033225	0.170366	-0.42907	0.260828	-0.34064	0.871178	0.001463	0.958234	0.010264
TGFBI	0.146082	0.153646	-0.17582	0.320688	0.278235	0.258233	0.190802	0.015011	-0.20124	0.602547	-0.14006	0.53099	0.089947	0.999995	0.179399	0.999927
TGFBR1	0.12607	0.152018	-0.13213	0.306702	0.350069	0.263372	0.327198	0.020315	0.276333	0.239083	-0.02677	0.08373	0.968485	0.945225	0.430708	0.709947
TGM4	0.112469	-0.20871	0.213187	-0.23872	0.409212	0.126219	0.114667	0.076418	0.170246	-0.38743	0.155258	-0.31418	0.871008	0.003906	0.845752	0.016736
TGFBR2	0.290752	-0.17652	0.017097	0.402601	0.028225	0.193122	0.89955	0.001904	0.553576	-0.05381	0.231982	0.060358	0.999967	0.361225	0.937411	0.654856
TGFBR3	0.407792	-0.25949	0.103028	0.179904	0.00164	0.053452	0.445674	0.180535	0.559422	-0.38763	0.324995	-0.23945	0.999973	0.003888	0.985308	0.054492
BYSL	-0.1072	0.338636	-0.26158	0.122955	0.43166	0.011442	0.051487	0.366635	-0.0134	0.517887	-0.31662	0.305722	0.464791	0.999886	0.017045	0.980595
TGIF1	-0.03926	0.08611	0.027561	-0.19713	0.773898	0.531903	0.840203	0.145326	0.097515	0.090304	0.215196	0.09973	0.740444	0.724692	0.922145	0.745191
TGM1	-0.06246	0.264042	-0.17384	0.120063	0.644371	0.049253	0.195922	0.373683	-0.11724	0.534847	-0.16253	0.395386	0.218878	0.999936	0.143046	0.996732
TGM2	-0.04265	-0.16668	0.193135	0.428425	0.752756	0.219537	0.15003	0.000885	0.02844	0.099133	0.020909	0.147922	0.573561	0.741472	0.553581	0.833906
TGM3	-0.16658	0.023241	-0.13842	-0.44042	0.224172	0.867518	0.313522	0.000765	-0.20987	0.064056	-0.33218	-0.13798	0.085762	0.66023	0.013799	0.185881
TH	-0.09	-0.10605	0.182523	-0.16617	0.50557	0.436639	0.174168	0.216695	0.149004	-0.28647	0.155797	-0.25498	0.838501	0.026795	0.846601	0.043616
THBD	0.240049	0.189877	-0.04302	0.19764	0.072086	0.16102	0.750693	0.140571	0.161329	0.231321	0.080898	0.287845	0.85794	0.939042	0.701347	0.973798
THBS1	0.323514	-0.07928	0.246859	0.336847	0.01501	0.565041	0.066631	0.011132	0.569135	-0.10804	0.232495	-0.11039	0.999982	0.237399	0.937839	0.232589
THBS2	0.23948	-0.17898	0.041156	0.279906	0.075461	0.191065	0.763291	0.036677	0.400513	-0.12837	0.233547	0.094082	0.997094	0.19761	0.93871	0.733002
THBS3	-0.00372	-0.28539	-0.03634	0.009959	0.978299	0.034685	0.790324	0.941927	0.049231	0.069214	0.015038	0.054505	0.627374	0.676187	0.539051	0.640489
TSPO	-0.06157	0.140259	-0.0898	0.112604	0.64915	0.302522	0.506476	0.4043	-0.04587	0.465101	-0.199	0.180751	0.381067	0.999437	0.095007	0.885339
THBS4	0.127591	-0.17416	0.163519	-0.0989	0.348702	0.203497	0.228515	0.468317	0.229343	-0.41921	0.067532	-0.28609	0.935173	0.002076	0.668421	0.028379
TCHH	-0.04896	-0.10157	0.100141	-0.25969	0.717593	0.456358	0.458596	0.05108	0.000932	-0.30729	0.19648	-0.19234	0.502452	0.018885	0.902096	0.10017
THOP1	-0.11681	-0.0243	0.099056	-0.25799	0.386846	0.85888	0.463503	0.052675	-0.21732	0.106661	-0.16466	-0.04824	0.073422	0.759756	0.139873	0.375099
THPO	0.010659	-0.11569	0.196212	-0.17902	0.937278	0.395857	0.143519	0.182723	0.272523	-0.28099	0.225297	-0.30171	0.966549	0.02927	0.931626	0.020788

THRA	0.013331	-0.38332	0.148571	-0.1841	0.921597	0.003545	0.27004	0.170423	0.112015	-0.55079	0.215863	-0.30923	0.7707	3.65E-05	0.9228	0.018259
THRB	-0.09347	0.45063	-0.28042	-0.39319	0.489197	0.000492	0.034619	0.002481	0.154186	0.165407	-0.01411	-0.06009	0.846868	0.86402	0.463359	0.345806
THRSP	0.042366	-0.25645	0.15644	-0.31684	0.754347	0.056411	0.245196	0.016337	0.115469	-0.40921	0.239654	-0.42313	0.777614	0.002372	0.943586	0.001696
THY1	0.244634	-0.09475	0.291811	0.445979	0.066654	0.487293	0.02763	0.000507	0.051356	0.104571	0.159845	0.24628	0.631199	0.752892	0.850003	0.948538
KLF10	0.191495	-0.04076	-0.14336	0.177779	0.157415	0.767619	0.291856	0.189911	0.078784	0.03252	0.099025	0.042958	0.698622	0.584939	0.741243	0.611591
TIA1	0.00267	0.166288	-0.09269	0.258346	0.984275	0.220626	0.49287	0.052339	0.201842	0.307067	-0.0285	0.225294	0.910716	0.981042	0.426283	0.933889
TIAL1	0.112612	0.221892	-0.09843	0.167657	0.404267	0.10026	0.46633	0.212549	0.241053	0.237071	0.008788	0.174158	0.946715	0.943671	0.522844	0.876479
TIAM1	-0.06689	0.457298	-0.25292	0.036766	0.624257	0.000448	0.060014	0.787916	0.058892	0.510019	-0.18595	0.289059	0.651278	0.999853	0.110667	0.974314
TIE1	0.244225	-0.28337	0.293654	0.273754	0.067124	0.034316	0.02662	0.039346	0.244257	-0.08662	0.13349	0.169104	0.949072	0.283526	0.808995	0.869381
TIMP1	0.085823	0.04498	0.106073	0.259906	0.52558	0.742025	0.43227	0.050882	0.075022	0.268962	-0.04682	0.303005	0.689884	0.964654	0.380031	0.979667
TIMP2	0.346684	-0.21676	0.171813	0.331347	0.008856	0.111928	0.205451	0.012611	0.446738	-0.23626	0.39555	0.040173	0.999072	0.056962	0.996421	0.604523
TIMP3	0.417947	-0.20922	0.201119	0.138867	0.001498	0.128933	0.14092	0.311959	0.487622	-0.35203	0.37113	-0.12788	0.999706	0.008215	0.993962	0.19852
TIMP4	-0.0983	-0.19395	-0.01331	-0.18553	0.466943	0.152061	0.921746	0.167048	0.076339	-0.45759	0.193117	-0.31348	0.692955	0.000693	0.898139	0.016943
C1QBP	-0.02153	0.216951	-0.2081	0.167082	0.874826	0.111607	0.123792	0.218397	-0.16778	0.61967	-0.31268	0.385844	0.132524	0.999998	0.018252	0.995955
NKX2-1	0.123018	-0.20121	0.153803	-0.13192	0.361947	0.137018	0.253339	0.327968	0.070116	-0.02284	-0.121	-0.19709	0.67833	0.440124	0.214256	0.094616
TJP1	0.173011	0.372698	-0.06875	0.079364	0.20226	0.005075	0.614651	0.56095	0.11992	0.508267	-0.11614	0.318945	0.786352	0.999845	0.223699	0.98463
TK1	-0.00232	0.058659	-0.10302	-0.10273	0.986327	0.66761	0.445714	0.446994	-0.10145	0.386853	-0.10178	0.187244	0.251152	0.996044	0.252946	0.893628
TK2	0.077326	-0.23241	0.159387	0.125093	0.56751	0.084768	0.236306	0.353845	0.073583	0.025732	-0.04996	0.060297	0.686513	0.567396	0.372239	0.654709
TKT	-0.06535	0.416702	-0.26832	-0.18262	0.629107	0.0014	0.043585	0.173936	-0.27437	0.511313	-0.25926	0.29167	0.0325	0.999859	0.042739	0.975394
ICAM5	-0.00317	-0.21024	0.223521	-0.15196	0.981307	0.119889	0.094647	0.259131	0.053536	-0.28426	0.178898	-0.19072	0.63809	0.027774	0.880168	0.102105
TLE1	0.04726	0.10123	-0.00176	0.11296	0.727015	0.457869	0.989662	0.402806	0.535693	-0.00965	0.162711	-0.10831	0.999938	0.474619	0.857222	0.236845
TLE2	0.079283	-0.06967	0.157093	-0.17453	0.561351	0.613234	0.247575	0.198272	0.185503	-0.0412	-0.00442	-0.1111	0.891448	0.392871	0.488507	0.231147
TLE3	0.285688	-0.15936	0.187632	0.280746	0.031222	0.24072	0.162217	0.034398	0.14734	0.052214	0.033908	-0.07905	0.835753	0.63481	0.587503	0.300754
TLE4	-0.1153	0.254908	-0.32173	0.062886	0.39306	0.057962	0.014668	0.64213	0.007533	0.185485	0.012444	0.076183	0.519815	0.891425	0.532332	0.692591
TLL1	0.250141	-0.20888	0.13	0.24083	0.060568	0.122365	0.335131	0.071137	0.281644	-0.19438	0.046119	0.001969	0.971034	0.097757	0.618227	0.505181
TLL2	0.088715	-0.25636	0.262687	-0.30926	0.511669	0.056503	0.048367	0.019239	0.160795	-0.43384	0.170697	-0.37284	0.857131	0.001297	0.868877	0.005357
TLN1	0.288697	-0.26527	0.140664	0.305681	0.029411	0.04817	0.29664	0.020758	0.361344	-0.21836	0.249423	-0.12867	0.993193	0.072434	0.950766	0.19705
SEC62	0.102823	0.060696	-0.06085	0.112586	0.446586	0.656774	0.652944	0.404378	0.184515	-0.00474	0.039018	0.079841	0.890196	0.487527	0.600434	0.701059
TLR1	-0.14627	-0.06753	-0.14428	-0.04843	0.277602	0.620943	0.284263	0.720512	-0.20456	-0.11176	0.117091	-0.01219	0.086335	0.229815	0.778164	0.467962
TLR2	-0.17029	-0.03136	-0.0701	0.285815	0.209561	0.820176	0.607706	0.032731	-0.10129	0.058056	-0.02448	-0.02094	0.253967	0.647586	0.437333	0.445713
TLR3	-0.01824	0.128014	-0.07088	0.358639	0.892853	0.347095	0.600325	0.006154	-0.09366	0.450718	0.152089	0.5524	0.270293	0.999055	0.837822	0.999958
TLR4	-0.01237	-0.39776	-0.01582	0.36244	0.927218	0.002399	0.907036	0.005595	0.008309	-0.52384	0.233177	-0.24294	0.521854	9.34E-05	0.938405	0.051883
ACTG1	0.001459	0.356498	-0.21044	0.133403	0.991488	0.007551	0.119519	0.327001	0.013912	0.66727	-0.1918	0.415041	0.536556	1	0.103447	0.997935
SERPING1	0.303508	-0.27823	0.306598	0.425156	0.022969	0.039705	0.021546	0.00109	0.506693	-0.31349	0.417992	0.000571	0.999837	0.016939	0.997863	0.501502
TLR5	0.086891	-0.01913	-0.02936	0.076889	0.520422	0.888695	0.828374	0.569708	-0.06384	0.30757	0.062846	0.253716	0.338465	0.980075	0.657362	0.953689
NR2E1	-0.00384	-0.14436	0.295531	-0.16411	0.977372	0.288472	0.025622	0.222529	-0.00125	-0.35856	0.171464	-0.17412	0.496761	0.00779	0.867122	0.126333
TSPAN7	0.32663	-0.04082	-0.01288	0.359994	0.013146	0.765148	0.92423	0.005949	0.15937	0.227257	0.059176	0.426416	0.85215	0.933362	0.648608	0.998255
TSPAN8	0.032281	0.248734	-0.05904	-0.11531	0.81159	0.064524	0.662644	0.393045	-0.02513	0.01364	-0.01924	-0.00552	0.434929	0.53543	0.450661	0.485659
TM4SF4	0.018428	-0.12453	0.11762	-0.31686	0.891774	0.360477	0.383555	0.016329	0.071833	-0.46657	0.070375	-0.39007	0.682393	0.000541	0.677018	0.003682
TSPAN6	-0.04139	0.079677	-0.26386	-0.05564	0.75982	0.559404	0.047333	0.681004	-0.28522	0.199594	-0.19476	0.147876	0.027344	0.908222	0.099916	0.836642
TSPAN4	0.160842	-0.16228	0.141546	0.336775	0.231996	0.232117	0.293593	0.01042	0.288808	0.021021	0.075447	0.161214	0.974208	0.555141	0.688844	0.857766
GPR137B	0.070718	0.394242	-0.28839	0.093851	0.601157	0.002643	0.029591	0.487434	-0.03324	0.592544	-0.14365	0.431256	0.413208	0.999993	0.173247	0.998615
TM7SF2	-0.10259	0.023586	-0.05879	-0.21753	0.447612	0.863009	0.663993	0.104066	-0.39623	0.129788	-0.15012	0.07193	0.003206	0.805019	0.162489	0.682622
TRAPPC10	-0.1522	0.259124	-0.21862	0.147094	0.258389	0.053799	0.102301	0.274885	-0.17241	0.334265	-0.23387	0.057714	0.125946	0.98841	0.061022	0.648392
C3orf51	0.110691	-0.23986	0.153181	-0.13756	0.416702	0.077755	0.259693	0.312006	0.149667	-0.41596	0.078988	-0.30762	0.839587	0.00202	0.69699	0.018778
TMF1	-0.07603	0.058917	-0.1512	-0.03693	0.574052	0.666232	0.261549	0.785067	-0.10501	0.037649	0.017397	0.038232	0.243665	0.59809	0.545155	0.599579
TMOD1	0.21034	-0.36618	0.240742	0.13661	0.116305	0.005511	0.071243	0.31092	0.50386	-0.69011	0.391379	-0.49099	0.999821	5.61E-08	0.996076	0.000266
TMPO	0.058694	0.320727	-0.3349	0.239704	0.664517	0.015952	0.010882	0.072508	-0.09057	0.66166	-0.26851	0.46774	0.274723	1	0.037256	0.999477
TMPRSS2	-0.33498	0.159969	-0.27021	-0.16246	0.012423	0.247893	0.046025	0.236	-0.17364	0.02223	-0.13413	-0.18866	0.126991	0.557622	0.192693	0.10728
TMSL3	0.110395	-0.05531	-0.02242	0.227684	0.413642	0.685588	0.868493	0.088504	0.086172	-0.02849	0.203083	0.242922	0.713229	0.426323	0.90694	0.946072

C1QA	-0.107	-0.26736	0.140971	0.435511	0.428238	0.04637	0.295579	0.000709	-0.09963	-0.05616	0.098508	0.161492	0.255013	0.355428	0.740142	0.858186
CLDN5	0.135918	-0.19894	0.191009	0.158539	0.313399	0.141592	0.154654	0.23884	0.253388	-0.1898	0.117832	-0.05504	0.955351	0.103226	0.779615	0.358186
CLEC3B	0.118152	-0.34286	0.263714	0.12651	0.381391	0.009687	0.047465	0.348376	0.074508	-0.19515	0.130733	-0.01725	0.688681	0.096851	0.803998	0.454715
TNF	0.03757	-0.24485	0.22036	-0.0707	0.781427	0.068944	0.099529	0.601246	0.125822	-0.45977	0.307658	-0.3168	0.797634	0.000653	0.980105	0.015972
TNNC2	-0.08294	-0.13817	0.118409	-0.21206	0.539608	0.309838	0.380347	0.113284	0.086772	-0.22731	0.161222	-0.27096	0.716814	0.064348	0.854976	0.03427
TNFAIP1	-0.13734	0.122397	-0.11009	0.243712	0.308315	0.368831	0.414923	0.067719	-0.00235	0.419064	-0.14234	0.426439	0.493805	0.998127	0.175483	0.998438
TNFAIP2	-0.13222	-0.17924	0.081056	0.420743	0.326875	0.186242	0.548915	0.001119	-0.18831	0.19921	-0.05977	0.213489	0.105049	0.907791	0.348262	0.922861
TNFAIP3	-0.10669	-0.21338	-0.00848	0.084708	0.429569	0.114338	0.950076	0.530992	-0.30195	0.087126	0.019148	0.010992	0.020702	0.717608	0.549676	0.528899
C1QB	-0.07991	-0.2369	0.16668	0.553628	0.554601	0.078756	0.215265	7.93E-06	-0.1659	-0.05137	0.09647	0.277947	0.138045	0.36877	0.733339	0.967747
TNFAIP6	-0.10689	-0.26771	0.093078	0.163485	0.428709	0.046067	0.491042	0.224315	-0.10129	-0.0685	0.171029	0.022822	0.251486	0.325507	0.869348	0.559834
TNFRSF1A	-0.02145	0.088354	-0.00754	0.152306	0.874143	0.517287	0.955584	0.258045	0.086859	0.217533	-0.06232	0.095946	0.71701	0.926781	0.342121	0.737057
TNFRSF1B	-0.02308	-0.35892	0.205597	0.487916	0.864687	0.006598	0.124962	0.000118	-0.00244	-0.26389	0.111014	-0.08801	0.493571	0.038188	0.76608	0.280412
TNNC1	0.007358	-0.1489	-0.025	-0.16803	0.956676	0.273401	0.853534	0.211508	0.241151	-0.26068	0.319849	-0.26312	0.946789	0.040083	0.983897	0.038635
TNNI1	-0.03595	-0.16465	0.151361	-0.19946	0.790649	0.225265	0.261046	0.136869	0.144061	-0.50802	0.200142	-0.48071	0.830256	0.000157	0.906281	0.000361
TNNI2	-0.10445	-0.18416	0.024461	-0.0832	0.443616	0.178327	0.857981	0.542101	0.097979	-0.18055	0.241401	-0.20548	0.741443	0.114919	0.944926	0.085349
TNNI3	-0.28109	-0.04614	0.049459	-0.44411	0.034171	0.735627	0.714842	0.000539	-0.24781	-0.33109	0.077214	-0.301	0.04841	0.012302	0.692921	0.021039
TNNT1	-0.04025	-0.13396	0.216021	-0.19549	0.76834	0.329543	0.109812	0.148771	0.040981	-0.36236	0.160505	-0.28464	0.606579	0.006666	0.853887	0.027603
TNNT2	0.078436	-0.11043	0.045962	-0.07539	0.561946	0.417831	0.734237	0.577265	0.262236	-0.16094	0.112039	0.020391	0.960845	0.142653	0.768142	0.553498
C1QC	-0.01623	-0.25116	0.226367	0.441602	0.904617	0.061876	0.090412	0.000584	-0.14484	0.080801	0.105195	0.376332	0.16842	0.703265	0.754187	0.995027
TNNT3	-0.07972	0.014995	0.0478	-0.38313	0.555542	0.912659	0.724025	0.003265	-0.41052	-0.21342	0.100631	-0.0921	0.0023	0.077209	0.744644	0.271334
TNP1	0.126718	-0.14633	0.33512	-0.16133	0.347578	0.281878	0.010828	0.230557	0.313484	-0.54965	0.369343	-0.55565	0.982	4.60E-05	0.993194	3.71E-05
TNP2	0.139885	-0.23506	0.351436	-0.13922	0.299351	0.081179	0.007349	0.301682	0.210652	-0.32981	0.245068	-0.35624	0.920022	0.012598	0.947658	0.007551
TNR	-0.01405	-0.06079	0.099912	-0.36363	0.917372	0.656286	0.459627	0.005429	0.166248	-0.35133	0.143899	-0.30905	0.865252	0.008329	0.827176	0.018317
TNS1	0.314975	-0.1819	0.37234	0.167737	0.018058	0.1838	0.004715	0.216573	0.409537	-0.36746	0.294548	-0.17849	0.997646	0.005999	0.975241	0.117655
TNXB	0.197337	-0.25079	0.133347	0.305449	0.144893	0.064774	0.327207	0.022066	0.124937	0.136607	0.116967	0.342958	0.795964	0.81734	0.777922	0.990184
C1R	0.195386	-0.0718	0.259168	0.613576	0.148989	0.60241	0.053757	4.95E-07	0.230126	0.229486	0.136392	0.499125	0.938045	0.937506	0.814174	0.999793
TOP1	-0.0389	0.433521	-0.28123	0.203498	0.773914	0.000845	0.034072	0.128945	0.055409	0.449307	-0.10975	0.404456	0.642721	0.999133	0.236476	0.997347
TOP2A	-0.12802	0.321126	-0.19722	-0.02264	0.34708	0.016824	0.145146	0.86846	-0.18563	0.663019	-0.22876	0.45955	0.108391	1	0.065327	0.999343
TOP2B	0.065648	0.192161	-0.21266	0.065379	0.627552	0.155948	0.112235	0.628968	-0.04018	0.327878	-0.09389	0.303231	0.395457	0.986941	0.269793	0.979746
TOP3A	0.19369	0.077215	-0.06834	0.212216	0.152619	0.575256	0.61676	0.116367	-0.04183	0.502409	-0.03773	0.260863	0.391279	0.999813	0.40282	0.960029
TP53	0.012679	0.389559	-0.04621	0.336908	0.926106	0.003284	0.735214	0.011116	0.034393	0.692151	-0.17652	0.48908	0.589755	1	0.123039	0.999719
TP53BP1	-0.06264	-0.15729	0.001664	-0.33104	0.643426	0.246978	0.9902	0.011893	-0.19205	-0.2816	-0.0145	-0.13619	0.100517	0.028985	0.462338	0.183398
TP53BP2	-0.1251	0.315225	-0.31484	0.01996	0.353813	0.017962	0.017063	0.882842	-0.18823	0.328093	-0.2356	0.177859	0.105152	0.986993	0.059614	0.881508
C1S	0.263053	-0.12189	0.212728	0.569271	0.050141	0.375327	0.115468	4.69E-06	0.269229	0.080263	0.189071	0.419307	0.964799	0.70203	0.89323	0.998138
TP73	-0.14031	-0.14966	0.044465	-0.28367	0.297888	0.270927	0.742585	0.032488	-0.21256	-0.18513	0.06353	-0.21951	0.080482	0.111703	0.658984	0.073692
TPBG	-0.22106	0.167835	0.010669	0.19032	0.098435	0.216301	0.937217	0.156176	0.057579	0.388313	-0.09973	0.229467	0.648061	0.99617	0.257265	0.93749
TPD52	0.024546	0.402094	-0.17832	0.144271	0.856178	0.002127	0.184466	0.284302	0.054749	0.561633	-0.14235	0.355175	0.641092	0.999976	0.175457	0.992286
TPD52L1	0.14075	0.135499	-0.11988	0.056798	0.296344	0.31939	0.374405	0.674737	0.308189	0.138895	-0.07429	-0.02725	0.981408	0.821364	0.313847	0.428655
TPD52L2	0.045843	0.044032	-0.15242	-0.19096	0.737248	0.749571	0.26209	0.158602	0.099606	0.088121	0.111665	-0.10186	0.744926	0.719835	0.767392	0.250295
TPH1	-0.09778	0.346786	-0.06372	-0.12142	0.469304	0.008835	0.637711	0.368249	-0.15736	0.11986	-0.02661	0.033098	0.150961	0.783555	0.43194	0.585443
TPI1	-0.03659	0.273193	-0.24288	0.228862	0.787016	0.041629	0.068687	0.086823	-0.20169	0.694618	-0.3705	0.46917	0.089451	1	0.006117	0.999497
TPM1	0.410917	-0.21606	0.337431	0.077473	0.001498	0.10975	0.010262	0.566772	0.436187	-0.40923	0.367497	-0.26997	0.998778	0.002372	0.993494	0.034803
TPM2	0.380052	-0.25064	0.41625	-0.06135	0.003863	0.064936	0.001419	0.653288	0.435691	-0.54384	0.358256	-0.35042	0.998763	4.69E-05	0.992163	0.008481
C2	-0.00282	-0.2947	0.268596	0.381544	0.983545	0.028955	0.045328	0.003714	-0.24475	-0.10764	0.099098	0.176888	0.052576	0.240787	0.741398	0.877465
TPM3	-0.11381	0.041242	-0.18269	0.170564	0.399267	0.762806	0.173765	0.204611	-0.1098	0.124689	-0.10311	0.088218	0.236383	0.792777	0.252695	0.717778
TPM4	0.07746	-0.04222	0.147871	0.138548	0.566838	0.757362	0.272329	0.304041	0.366184	-0.01854	-0.0108	-0.00524	0.99384	0.451339	0.471943	0.486206
TPMT	-0.02808	0.342316	-0.1189	0.089127	0.835725	0.009811	0.378376	0.509703	-0.18906	0.289259	-0.10629	0.13316	0.10413	0.974398	0.243554	0.81117
TPO	0.128312	-0.28464	0.285927	0.095792	0.341498	0.033489	0.031075	0.478435	0.042892	-0.17152	0.036443	-0.02848	0.611424	0.12719	0.593931	0.425481
TPP2	-0.06999	0.152792	-0.21001	0.112396	0.604904	0.260922	0.116885	0.405175	-0.07697	0.176811	-0.06062	0.200179	0.305569	0.880097	0.3462	0.908875
TPR	-0.05689	0.19224	-0.28723	0.167273	0.674215	0.155776	0.030283	0.213613	-0.09554	0.377817	-0.09795	0.34624	0.263824	0.995183	0.261051	0.990791

TPT1	0.052776	0.242674	-0.31516	0.269047	0.696615	0.071531	0.016947	0.042997	0.046582	0.546212	-0.34562	0.350858	0.620733	0.999957	0.010025	0.991592
TPTE	0.190501	-0.12876	0.217893	-0.32062	0.159622	0.348826	0.106693	0.01599	0.14036	-0.45778	0.145725	-0.43106	0.821118	0.000784	0.827378	0.001557
C3	0.022052	-0.39918	0.199358	0.474781	0.870661	0.002307	0.137082	0.00019	-0.06106	-0.0774	0.133662	0.233861	0.343434	0.304582	0.809306	0.941121
CRISP2	0.043722	-0.36377	-0.0047	-0.20481	0.746742	0.005853	0.972348	0.126442	-0.02808	-0.36868	-0.02163	-0.44657	0.426508	0.005847	0.44392	0.000932
NR2C1	0.035078	0.253218	-0.19833	0.059838	0.795599	0.059702	0.139153	0.658375	0.073184	0.222929	0.014979	0.109698	0.685576	0.93178	0.538898	0.765997
NR2C2	-0.02857	0.076093	-0.17654	0.088098	0.832907	0.577257	0.188971	0.514622	0.097862	0.301208	-0.09517	0.229702	0.74119	0.979033	0.26702	0.937688
HSP90B1	0.013944	0.116604	-0.10855	0.390849	0.918006	0.392094	0.421535	0.002647	-0.16215	0.485426	-0.19871	0.490182	0.140822	0.999686	0.09534	0.999728
TRAF1	-0.12183	-0.28065	0.137169	0.535818	0.366624	0.03616	0.308926	1.74E-05	0.176336	-0.11326	0.025288	-0.08111	0.879456	0.226789	0.565486	0.296034
TRAF2	-0.17256	-0.10261	0.082505	0.046819	0.199294	0.451747	0.541767	0.729466	-0.26106	0.200219	-0.16098	0.147812	0.03985	0.90892	0.145387	0.836536
TRAF3	-0.28916	0.084278	-0.14558	0.249682	0.030661	0.540701	0.284355	0.063479	-0.37481	0.265081	-0.05694	0.244589	0.005137	0.962494	0.355125	0.949312
TRAF5	0.252684	-0.31196	0.204869	0.315346	0.057913	0.019253	0.126333	0.016877	0.319059	-0.35671	0.287464	-0.09466	0.984662	0.00748	0.972237	0.265748
TRAF6	0.092137	0.284788	-0.11979	0.20246	0.495456	0.03339	0.374766	0.130951	0.056165	0.414063	-0.01288	0.288271	0.644584	0.997886	0.466546	0.97398
C3AR1	-0.10685	-0.29312	0.029697	0.417962	0.433155	0.029869	0.828	0.001349	-0.10111	-0.14817	0.180812	0.111589	0.251881	0.162879	0.882706	0.769838
ACTG2	0.415407	-0.15993	0.305496	0.060048	0.001454	0.243465	0.022045	0.660214	0.366823	-0.2742	0.331297	-0.06477	0.993404	0.034172	0.985981	0.336247
TRH	0.061014	-0.07813	0.18506	-0.43134	0.652092	0.567089	0.168156	0.000808	0.022039	-0.39556	0.23811	-0.51032	0.557796	0.003255	0.942382	0.000145
TRHR	0.126204	-0.08471	0.186801	-0.34046	0.349554	0.53479	0.164118	0.009559	0.160327	-0.57144	0.180263	-0.40146	0.856419	1.68E-05	0.881981	0.002844
CCT3	-0.1308	0.139676	-0.25474	0.10921	0.336624	0.30912	0.058136	0.423003	-0.33087	0.579646	-0.35451	0.376695	0.012352	0.999988	0.008439	0.995065
TRIO	0.090085	0.013863	0.079671	0.402654	0.505147	0.919231	0.555787	0.001901	0.171567	0.027341	0.021212	0.055434	0.872873	0.571568	0.555001	0.642782
TRIP6	-0.0238	-0.06396	-0.06396	0.071208	0.860496	0.639571	0.636442	0.598636	0.107087	0.149762	-0.08913	0.131596	0.760636	0.839742	0.280196	0.808331
TRO	0.148903	-0.08894	0.13125	-0.04762	0.26896	0.5145	0.330465	0.725036	-0.13088	0.07055	-0.11983	-0.02518	0.195728	0.677428	0.219233	0.434805
C4BPA	-0.01005	-0.48758	0.27455	-0.10726	0.941424	0.00016	0.040585	0.431383	-0.14901	-0.15216	-0.01094	-0.17957	0.161487	0.156373	0.47156	0.116214
TRPC1	0.30405	-0.24299	0.14362	0.02718	0.021482	0.071148	0.286503	0.840936	0.326059	-0.43013	0.270806	-0.22033	0.986496	0.001425	0.964014	0.070593
TRPC2	0.022706	-0.12271	0.069563	-0.23956	0.86686	0.367611	0.607127	0.072683	0.101255	-0.30085	0.152952	-0.27415	0.748433	0.021094	0.842089	0.032612
TRPC3	-0.02433	-0.18253	0.101615	-0.09291	0.857455	0.178146	0.451975	0.491842	0.161512	-0.46321	0.072625	-0.37577	0.858216	0.000594	0.682285	0.005033
TRPC4	-0.09927	-0.18423	0.168414	-0.02495	0.462542	0.174075	0.210463	0.853852	0.151375	-0.17366	0.213295	-0.12546	0.839551	0.126958	0.917761	0.205775
TRPC5	-0.08294	-0.01	0.206941	-0.03239	0.539621	0.941696	0.122461	0.810991	0.231232	-0.2057	0.174892	-0.26214	0.938969	0.085113	0.874739	0.039213
TRPC6	0.166243	-0.05849	-0.07393	0.113939	0.216486	0.668491	0.584708	0.398718	-0.08535	0.338902	-0.11112	0.092363	0.288603	0.988616	0.236351	0.726894
TRPM2	-0.04607	-0.08086	0.26635	0.165586	0.733641	0.553556	0.045211	0.218334	-0.01735	-0.23247	0.127575	-0.198	0.454449	0.060008	0.79818	0.09358
TRPS1	0.065811	0.096775	-0.28666	0.136852	0.629878	0.482139	0.032197	0.314536	0.11694	0.367921	-0.10405	0.268048	0.777868	0.99355	0.250744	0.962483
INS-IGF2	0.118676	0.038069	0.289155	-0.04784	0.383675	0.782592	0.030662	0.726239	0.07241	-0.04093	0.196603	-0.14902	0.683753	0.393544	0.902239	0.16148
TSN	0.088114	0.239498	-0.3015	0.264415	0.514544	0.075439	0.022659	0.046856	0.026356	0.442013	-0.28095	0.372938	0.569015	0.998949	0.030778	0.994654
TSC1	-0.00662	0.089304	-0.03199	-0.08062	0.961037	0.512773	0.813233	0.551093	0.109984	0.216542	0.013161	-0.04223	0.76658	0.925835	0.534189	0.390257
TSC2	-0.08041	-0.00859	0.053641	-0.00439	0.555781	0.950355	0.694586	0.974394	-0.11891	0.125215	-0.08809	-0.004	0.215612	0.796491	0.282509	0.489476
C4BPB	-0.15458	0.018322	0.094326	-0.14549	0.25091	0.893382	0.485224	0.28022	0.051833	-0.35435	0.138405	-0.29971	0.633863	0.007842	0.817716	0.021507
TSG101	-0.02014	0.186583	-0.29523	0.001667	0.881782	0.168546	0.025781	0.990183	-0.13954	0.335305	-0.10763	0.190108	0.177511	0.988635	0.240799	0.897148
TSHB	0.023105	-0.10821	0.119365	-0.16151	0.864542	0.427291	0.376485	0.230049	-0.08886	-0.35076	0.053285	-0.31434	0.278509	0.008425	0.635943	0.016687
TSHR	0.060593	-0.09487	0.184324	-0.18235	0.65434	0.486751	0.169883	0.174575	-0.03992	-0.34585	0.011513	-0.3054	0.396121	0.009279	0.529916	0.019513
TSNAX	0.032079	0.166684	-0.24611	0.148555	0.812746	0.219511	0.064981	0.270091	-0.12857	0.324683	-0.09521	0.274191	0.197228	0.986151	0.266925	0.967408
TSPYL1	0.211049	0.229849	-0.15357	0.106471	0.11505	0.088355	0.254076	0.430538	0.09561	0.305492	-0.06462	0.214453	0.736327	0.980518	0.336618	0.92381
CAPN5	-0.26219	0.185732	-0.14064	-0.19469	0.04881	0.17053	0.296716	0.14672	-0.43532	0.329865	-0.20065	0.200027	0.001249	0.987414	0.093147	0.908706
TSSC1	-0.35344	0.041965	-0.31264	0.033158	0.006997	0.758776	0.017896	0.806566	-0.61338	0.46298	-0.29575	0.285075	2.92E-06	0.999402	0.024277	0.972591
PHLDA2	-0.04407	0.05961	0.180155	-0.09262	0.744787	0.66254	0.179917	0.493205	0.108228	-0.10297	0.127117	-0.10499	0.762988	0.247946	0.797328	0.243709
TST	-0.04741	0.133149	-0.06843	-0.03185	0.731035	0.337141	0.619601	0.817435	-0.15469	0.529611	-0.35856	0.353762	0.155142	0.999908	0.007789	0.991437
TSTA3	-0.03322	0.168655	-0.04156	0.004921	0.806183	0.214031	0.758901	0.971019	-0.10742	0.474951	-0.26995	0.340196	0.238667	0.999574	0.036455	0.989647
TTC1	0.182502	0.102131	-0.06463	-0.03706	0.174217	0.453854	0.632899	0.784334	-0.12319	0.192961	-0.04096	0.084991	0.207362	0.900573	0.394683	0.712802
DNAJC7	-0.04367	0.393398	-0.23108	-0.03546	0.747043	0.002704	0.083729	0.793401	0.049941	0.445413	-0.06177	0.349412	0.629148	0.999039	0.34343	0.991348
TTC3	0.068994	0.184711	-0.01778	0.00334	0.610077	0.172934	0.895548	0.980329	0.227194	0.147884	0.044329	0.115968	0.935547	0.836655	0.613764	0.778602
TTC4	0.027077	0.110782	-0.25881	0.181786	0.841535	0.416318	0.051903	0.175942	0.045327	0.18607	0.164675	0.188325	0.617574	0.892161	0.860149	0.894967
C5	0.147123	0.010072	-0.07455	-0.10944	0.274789	0.941273	0.581523	0.417698	0.218957	-0.19104	0.166096	-0.20914	0.925782	0.104358	0.859381	0.083979
TTF1	-0.14104	0.212689	-0.19183	-0.10884	0.295353	0.115537	0.152855	0.420281	-0.00396	0.153259	-0.17194	-0.02128	0.489587	0.845392	0.129368	0.444175

TTK	-0.04574	0.113391	-0.22863	-0.22008	0.737831	0.409781	0.090102	0.103137	-0.12523	0.518779	-0.07184	0.318171	0.208987	0.999846	0.321537	0.982345
TTN	0.231834	-0.19231	0.120675	0.16184	0.082695	0.155617	0.371233	0.229076	0.142454	-0.40413	0.235945	-0.15307	0.82752	0.002673	0.940661	0.154917
TTPA	-0.00881	0.287143	0.02315	-0.35288	0.948159	0.031894	0.864279	0.007095	-0.07863	0.024277	0.05053	-0.10119	0.301741	0.563617	0.629164	0.251705
TUB	-0.00979	-0.35012	0.184312	-0.35916	0.9424	0.008163	0.169912	0.006075	-0.14284	-0.5175	0.119893	-0.33206	0.171817	0.000115	0.783619	0.012081
TTR	0.12817	-0.25742	0.135374	-0.08793	0.346504	0.055455	0.31984	0.519298	0.268508	-0.30753	0.21181	-0.18799	0.964407	0.018807	0.918761	0.105445
TUBA4A	0.197606	0.101889	0.059594	0.133057	0.144335	0.459176	0.662628	0.328269	-0.03259	0.367622	-0.10696	0.225131	0.414889	0.994022	0.242164	0.933745
LOC727721	-0.04286	-0.07893	0.271053	-0.18364	0.75159	0.563117	0.041408	0.171491	0.011859	-0.33077	0.136568	-0.31743	0.531173	0.012376	0.814485	0.015795
LOC727726	-0.1776	0.16129	-0.30317	0.030702	0.186264	0.235008	0.021882	0.820644	-0.19109	0.432376	-0.257	0.199143	0.101666	0.998654	0.04417	0.907715
LOC727768	-0.21669	-0.05796	-0.01574	-0.26269	0.10544	0.671366	0.90747	0.048362	-0.24202	-0.02992	-0.243	-0.21506	0.052568	0.421756	0.053873	0.0756
TUBA3C	-0.13982	-0.10122	0.2404	-0.03816	0.304069	0.462168	0.074312	0.78009	0.070286	-0.31308	0.082317	-0.39108	0.678734	0.017065	0.704564	0.0036
RNF208	-0.12727	-0.0806	0.051258	-0.19334	0.345462	0.554843	0.704936	0.149582	0.004799	-0.27509	0.146663	-0.28247	0.512626	0.032137	0.831817	0.028585
RPS11P5	0.151105	0.241351	-0.13789	0.276038	0.261861	0.073139	0.30637	0.037669	0.148461	0.471051	-0.25137	0.28996	0.834795	0.999454	0.049888	0.973327
BHLHA9	-0.02604	-0.09838	0.185579	-0.13118	0.847499	0.470688	0.166944	0.330711	0.160167	-0.39567	0.116476	-0.36657	0.853371	0.003569	0.774257	0.00663
MUC5B	0.099975	-0.3236	0.20438	0.168332	0.459343	0.014981	0.127259	0.210688	-0.00233	-0.12873	0.096812	-0.15694	0.49393	0.199684	0.736518	0.151607
TLCD2	-0.23046	-0.18778	0.046562	-0.14617	0.087488	0.165792	0.733283	0.282394	-0.11825	-0.08234	0.064637	-0.22033	0.216906	0.293209	0.663429	0.070598
LOC727913	-0.1006	0.028107	0.144537	-0.19959	0.45651	0.837079	0.283405	0.136621	0.053065	-0.11587	-0.01345	-0.29211	0.636922	0.221584	0.465058	0.024427
GLT8D4	0.240283	-0.39043	0.230659	0.036765	0.0718	0.002931	0.084308	0.785998	0.163046	-0.51498	0.311566	-0.21979	0.860522	0.000125	0.981393	0.0711
LOC100133	0.132709	-0.11857	0.029014	-0.13334	0.329546	0.388598	0.8319	0.327221	-0.18285	-0.00435	-0.09259	0.003386	0.111936	0.488551	0.272604	0.508909
HEATR7A	-0.14181	-0.01245	0.068028	-0.19162	0.292673	0.927414	0.615102	0.153324	-0.29449	0.124415	-0.04197	0.042326	0.023481	0.794976	0.392131	0.609991
RPS12P9	-0.04659	-0.12387	-0.01234	-0.22864	0.730756	0.363054	0.927425	0.087141	0.235589	-0.18574	0.107659	-0.26044	0.942504	0.108253	0.75926	0.040226
C5AR1	-0.22804	-0.31605	0.035176	-0.26799	0.088	0.017648	0.795043	0.043853	-0.2607	-0.44714	-0.02069	-0.34326	0.040066	0.000919	0.446332	0.009759
TUBB2A	0.045734	0.158004	0.110882	-0.00556	0.735505	0.244809	0.411573	0.967262	0.10545	0.052488	0.053547	-0.22038	0.757243	0.635491	0.636585	0.070552
hCG_16401	-0.09305	-0.10939	-0.147	-0.19258	0.491182	0.42223	0.275197	0.151235	-0.43057	0.20669	-0.29503	0.113991	0.001577	0.913443	0.025935	0.772044
C21orf122	-0.00191	-0.38068	0.195442	-0.14367	0.988742	0.003799	0.145128	0.286346	0.023866	-0.46239	0.254355	-0.26443	0.56255	0.000608	0.954112	0.037881
LOC728056	-0.18284	-0.08212	0.145823	-0.20189	0.173403	0.547377	0.279099	0.132052	0.06708	-0.01282	0.12642	-0.06834	0.671095	0.466304	0.796027	0.325898
LOC728060	0.084171	-0.35379	0.084443	-0.35977	0.533611	0.007475	0.532282	0.005982	0.01664	-0.25963	-0.04891	-0.14862	0.543699	0.040713	0.374837	0.162138
hCG_16598	0.166322	-0.23152	0.287321	-0.2237	0.22053	0.088986	0.031784	0.097451	0.133733	-0.29303	0.200925	-0.19938	0.809433	0.025379	0.904529	0.09458
LOC728115	-0.08252	0.34415	-0.36254	0.089093	0.54168	0.0094	0.00558	0.509866	-0.21361	0.428123	-0.1965	0.322673	0.07702	0.998502	0.097884	0.985633
RP1-2705..	0.048255	-0.1044	0.279888	-0.19546	0.721503	0.44384	0.034976	0.145084	0.228699	-0.47642	0.167756	-0.474	0.936838	0.000408	0.864661	0.000438
LOC728175	-0.19133	-0.03805	0.09729	-0.33333	0.153952	0.780688	0.47155	0.011284	-0.13616	-0.08561	-0.01534	-0.21823	0.183461	0.2858	0.460166	0.072553
LOC728196	-0.12729	-0.11416	-0.00472	-0.21313	0.345383	0.402165	0.972186	0.111435	-0.27435	-0.22743	-0.02425	-0.15367	0.032513	0.064245	0.437193	0.153956
LOC728276	0.001274	-0.06067	0.099962	-0.27011	0.992498	0.656891	0.459399	0.042149	0.127244	-0.23571	0.052672	-0.30936	0.800299	0.057404	0.634438	0.018215
FLJ33544	0.012011	-0.16103	0.239031	-0.19337	0.929342	0.23577	0.073338	0.149527	0.124739	-0.35489	0.115	-0.38748	0.79559	0.007758	0.774045	0.003901
LOC728285	-0.07087	-0.13691	0.178852	-0.21744	0.60374	0.318878	0.187208	0.107438	-0.10956	-0.29469	0.143878	-0.25107	0.236861	0.024703	0.82427	0.048099
D2HGDH	-0.01788	-0.13889	0.106075	-0.14703	0.894971	0.307309	0.432262	0.275098	0.148474	-0.14994	0.053731	-0.152	0.837628	0.15997	0.637038	0.156635
KRTAP19-8	0.29843	-0.11601	0.250701	-0.29907	0.02548	0.398963	0.062371	0.025149	0.322664	-0.23958	0.168979	-0.40365	0.984682	0.056473	0.863574	0.002983
TUBG1	-0.23445	0.044731	-0.17489	0.078902	0.08199	0.745729	0.197317	0.563241	-0.31375	0.607348	-0.23758	0.427456	0.016862	0.999996	0.058038	0.998477
LOC728318	0.129677	-0.18779	0.228822	-0.28125	0.336342	0.165765	0.086879	0.034061	0.006079	-0.09687	0.120615	-0.16151	0.515993	0.260952	0.78501	0.141786
LOC728326	-0.25208	-0.19994	-0.02717	0.027377	0.058536	0.139551	0.840973	0.839797	-0.07016	-0.02902	-0.17022	-0.07252	0.321562	0.424089	0.131801	0.315988
LOC728361	0.012826	-0.1454	0.277142	-0.08944	0.924557	0.284955	0.03668	0.508209	0.108857	-0.32821	0.162146	-0.34319	0.764278	0.012979	0.856372	0.009772
RPL7P26	-0.13289	0.170977	-0.09698	-0.16782	0.324402	0.207698	0.472967	0.212095	0.094183	-0.21417	0.089439	-0.13047	0.730852	0.078871	0.71815	0.196487
TUFM	-0.05117	0.040099	-0.17021	-0.04563	0.705441	0.7692	0.205572	0.736071	-0.34387	0.408076	-0.3178	0.246057	0.009644	0.997563	0.016695	0.950361
LOC728411	0.060945	0.10661	-0.03292	0.14999	0.652459	0.434196	0.807901	0.265441	0.178778	0.261726	-0.13066	0.101592	0.882734	0.960544	0.196134	0.749147
LOC728450	0.228706	-0.24865	0.267565	-0.26432	0.089994	0.06717	0.046193	0.049005	0.267295	-0.29564	0.21319	-0.20538	0.962056	0.024322	0.917654	0.087959
RPS28P6	-0.05427	-0.03408	0.226081	-0.01318	0.688465	0.80307	0.09083	0.922508	0.199324	-0.1696	0.043378	-0.18861	0.907919	0.129908	0.611386	0.104687
C6orf186	0.185018	-0.14386	0.126608	0.166942	0.168255	0.290143	0.347999	0.214534	0.126173	-0.20128	0.14288	-0.08402	0.798293	0.089902	0.825445	0.289391
LOC728477	-0.17209	-0.06005	0.213901	-0.10676	0.20053	0.660188	0.110112	0.429284	0.015813	-0.34491	0.051057	-0.36129	0.541537	0.009451	0.630464	0.006815
DNLZ	0.0143	-0.1883	0.241717	-0.15741	0.91592	0.164602	0.07007	0.242233	-0.10012	-0.16157	0.143915	-0.2242	0.256427	0.144499	0.824333	0.069362
LOC728545	0.0367	-0.05133	0.090057	-0.0271	0.788287	0.709784	0.509212	0.842866	0.08469	-0.4443	0.214208	-0.24239	0.712122	0.00099	0.921169	0.052289
LOC728554	0.004269	0.047429	0.006518	-0.20456	0.974858	0.728506	0.961619	0.126916	0.103879	-0.20592	0.072793	-0.23006	0.753963	0.084881	0.682678	0.062008

C13orf38	0.031649	-0.06151	0.155768	-0.19136	0.815213	0.65248	0.247254	0.153891	-0.0572	-0.36611	-0.02126	-0.25955	0.352872	0.006169	0.44488	0.040765
TUFT1	0.14176	0.193004	-0.01642	-0.37392	0.297328	0.158011	0.9044	0.004528	-0.08683	0.467088	-0.11743	0.138077	0.285306	0.999391	0.22389	0.817142
LOC728606	-0.09257	-0.07602	0.156369	-0.21895	0.493431	0.577607	0.24541	0.101763	-0.03052	-0.28622	0.128872	-0.33428	0.420203	0.026906	0.800581	0.011587
LOC728607	-0.11715	0.144955	-0.20366	-0.14109	0.385462	0.286461	0.128635	0.295171	-0.19094	0.353936	-0.084	0.170858	0.101845	0.992092	0.291637	0.871874
LOC728613	-0.06097	-0.13205	0.186053	-0.19997	0.652316	0.331988	0.165843	0.135858	0.147636	-0.37779	0.102877	-0.29094	0.836245	0.004819	0.749364	0.024903
RP4-692D3	-0.11489	-0.13449	0.020709	-0.27296	0.394748	0.323032	0.878475	0.039946	-0.13619	-0.34895	0.134851	-0.25881	0.183402	0.008732	0.811434	0.041214
LOC728637	0.166213	0.086918	-0.00877	-0.23753	0.21657	0.524143	0.948362	0.075219	-0.07669	-0.14472	0.058769	-0.11549	0.306218	0.168623	0.649316	0.222349
RPL13AP5	-0.11055	0.351764	-0.20928	0.149707	0.412997	0.007848	0.118198	0.266352	-0.04364	0.469271	-0.371	0.32463	0.387956	0.999427	0.006583	0.985211
RP11-345P	-0.18096	0.106109	-0.02072	-0.01523	0.181988	0.440689	0.879542	0.911319	0.049633	0.181964	-0.12571	-0.0628	0.628381	0.88692	0.205295	0.339221
LOC728675	-0.06277	-0.07336	0.159455	-0.17695	0.642768	0.591069	0.236103	0.187906	0.272388	-0.38462	0.306564	-0.37691	0.966478	0.004155	0.979732	0.004912
hCG_16472	-0.13277	-0.21609	0.196136	-0.37228	0.324831	0.109701	0.143676	0.004349	0.142967	-0.53419	0.18031	-0.41739	0.828396	6.57E-05	0.882043	0.001951
TULP1	-0.00869	-0.15305	0.22271	-0.18498	0.948833	0.260097	0.095881	0.168352	0.071644	-0.46799	0.205133	-0.43564	0.681947	0.00052	0.911777	0.001239
LOC728715	0.179138	-0.04532	-0.29115	0.104787	0.182429	0.740143	0.027998	0.437903	0.081172	0.282629	0.033966	0.197369	0.704114	0.971489	0.587649	0.905704
LOC728748	-0.09013	0.023604	-0.17885	0.196441	0.504932	0.862907	0.183145	0.143042	0.032388	-0.20042	0.004776	0.030498	0.5846	0.090858	0.51242	0.57973
PABPCP2	0.188919	0.30482	0.05096	-0.1369	0.159304	0.022355	0.706572	0.309869	0.266369	0.158701	-0.09665	-0.00026	0.961527	0.851122	0.266268	0.499334
RPS15AP25	0.089049	-0.14206	0.029551	-0.27249	0.513983	0.300869	0.82883	0.04218	0.082804	-0.32325	0.120584	-0.45286	0.707841	0.014217	0.784952	0.000788
ANKDD1B	-0.19187	-0.00488	-0.08676	-0.37293	0.152763	0.971549	0.521033	0.004276	-0.37283	-0.02126	-0.1445	-0.19009	0.005358	0.44423	0.17181	0.102878
TULP2	0.081266	-0.17923	0.300903	-0.29656	0.547874	0.18627	0.02294	0.025087	0.01263	-0.36797	0.158637	-0.28599	0.533197	0.005935	0.851024	0.027005
hCG_16452	-0.14032	-0.13799	-0.05419	-0.24222	0.302298	0.315046	0.691587	0.072085	-0.18841	-0.3213	0.025965	-0.29254	0.104927	0.01473	0.567223	0.024253
RPL29P15	0.096857	0.241313	0.138134	-0.47429	0.473532	0.073185	0.3055	0.000194	0.100499	-0.09445	0.109522	-0.15469	0.746829	0.266196	0.763061	0.152334
LOC728844	-0.18282	0.343743	-0.14373	0.330831	0.173457	0.00949	0.286137	0.01195	0.105062	0.27231	-0.04718	0.086935	0.756436	0.966438	0.37914	0.717179
LOC728847	0.058766	-0.07666	0.301288	-0.28341	0.664127	0.57442	0.022757	0.032652	-0.03125	-0.47023	0.315719	-0.40107	0.418322	0.000488	0.982686	0.002869
TULP3	-0.0464	-0.01656	-0.08779	-0.34139	0.731778	0.903579	0.516119	0.009353	-0.1348	-0.13157	0.0847	-0.10307	0.185879	0.191725	0.709934	0.247744
LOC728997	-0.08743	-0.17914	0.057564	0.125629	0.517847	0.186486	0.670601	0.351772	-0.04425	-0.20707	0.069344	-0.08388	0.385154	0.083667	0.674593	0.289703
C6	-0.05422	-0.26283	-0.06048	-0.35902	0.68871	0.050345	0.654942	0.006096	-0.2004	-0.27021	-0.14878	-0.28535	0.090883	0.034674	0.164673	0.027286
HIRA	-0.2091	0.11929	-0.28206	0.034374	0.118517	0.381202	0.033527	0.799615	-0.267	0.43164	-0.33533	0.214057	0.036424	0.998629	0.012167	0.923421
hCG_20244	-0.28525	0.118896	-0.10496	0.025172	0.031495	0.382786	0.437159	0.852553	-0.00825	0.022962	0.073739	0.127437	0.478312	0.560198	0.68488	0.80066
SLC15A5	0.121666	-0.06748	0.166917	-0.27201	0.367289	0.621182	0.214604	0.040667	0.172621	-0.28645	0.317494	-0.2165	0.871588	0.028215	0.982138	0.076579
LOC729040	-0.03272	-0.1016	0.279948	-0.2146	0.80907	0.45622	0.034935	0.108934	-0.02376	-0.31014	0.190785	-0.29461	0.43772	0.017969	0.895329	0.023432
FAM92A2	0.064283	0.026967	-0.03341	-0.301	0.634738	0.843601	0.805148	0.022892	0.127979	-0.38046	-0.06754	-0.34756	0.801669	0.00455	0.329658	0.008974
LOC729080	0.152	-0.0558	0.286603	-0.08213	0.259013	0.682949	0.030662	0.543618	0.156914	-0.35111	0.307711	-0.32102	0.85116	0.008367	0.980123	0.014804
LOC729085	0.103419	-0.13624	0.246878	0.097173	0.443941	0.316742	0.064118	0.472085	0.16654	-0.38978	0.193383	-0.26095	0.865678	0.003707	0.898456	0.039919
TWIST1	-0.02428	-0.04826	0.240969	0.083805	0.857741	0.723925	0.070968	0.535397	-0.08145	0.00919	-0.01354	0.098089	0.295241	0.524167	0.464838	0.741679
LOC729135	-0.05804	-0.26805	0.221693	-0.18898	0.668049	0.045781	0.097446	0.159157	0.181362	-0.65515	0.225503	-0.46743	0.886137	3.90E-07	0.93181	0.000528
hCG_17324	0.002618	-0.1422	0.062932	-0.14081	0.984582	0.295798	0.641885	0.296145	0.008105	-0.3741	0.187633	-0.45053	0.521318	0.005215	0.891447	0.000839
ANKRD20B	0.091368	0.121268	0.02395	-0.05904	0.499075	0.373298	0.859637	0.662673	-0.13529	0.265244	-0.16875	0.16787	0.184996	0.962587	0.133911	0.867607
LOC729173	0.003197	-0.10348	0.216984	-0.00542	0.981172	0.447873	0.104958	0.968091	0.002659	-0.1978	0.120008	-0.15496	0.506995	0.093808	0.783839	0.151899
TNFSF4	0.018055	-0.19366	0.094336	0.037011	0.894924	0.156579	0.489209	0.786535	0.06875	-0.55638	0.263687	-0.30517	0.675083	2.97E-05	0.959959	0.019592
FLJ78302	0.129248	-0.22087	0.062481	0.419173	0.337955	0.101878	0.644283	0.001173	-0.12469	-0.09718	0.012827	0.070902	0.20451	0.260284	0.533323	0.680193
RPS13P2	0.143016	-0.0603	0.017202	0.07842	0.288556	0.658883	0.898939	0.562024	0.237954	-0.10129	0.162734	0.036841	0.944357	0.251483	0.857256	0.596027
LOC729245	0.08194	-0.1995	0.187453	0.085712	0.544551	0.140453	0.162624	0.526119	0.187674	-0.27186	0.145147	-0.16379	0.894162	0.0338	0.829281	0.138369
TNFRSF4	0.020107	-0.21349	0.287532	-0.0522	0.881982	0.114144	0.030102	0.699776	0.171339	-0.29103	0.239679	-0.20937	0.872552	0.024865	0.943606	0.081287
OC90	0.037287	-0.15602	0.215073	-0.33379	0.784984	0.255324	0.111418	0.011934	0.11848	-0.38746	0.155332	-0.24568	0.783546	0.003903	0.845869	0.049905
RPL27P8	0.049126	-0.03611	0.202425	-0.46082	0.716684	0.791593	0.131019	0.000309	0.114829	-0.29921	0.16913	-0.57554	0.773707	0.02293	0.863791	1.77E-05
KIAA1881	-0.0626	-0.30907	0.201015	-0.10575	0.643653	0.020461	0.133781	0.433683	0.055668	-0.48148	0.191732	-0.31748	0.64336	0.000352	0.896477	0.01578
TXK	-0.15376	-0.08441	0.005301	0.001232	0.257874	0.540075	0.969072	0.992809	-0.11886	-0.39806	-0.00698	-0.3463	0.218382	0.003384	0.482079	0.009896
FLJ35379	0.091262	0.187643	0.043919	-0.15394	0.499575	0.166097	0.745643	0.2529	0.211167	-0.0921	0.361323	-0.10668	0.918106	0.273682	0.992019	0.242754
CCDC61	-0.06489	-0.16322	0.252689	-0.21103	0.631522	0.229393	0.057907	0.115087	-0.15136	-0.25685	0.040535	-0.11264	0.157652	0.042432	0.604254	0.228038
FAM108A5	-0.06677	-0.24455	0.118852	-0.08486	0.621658	0.0693	0.378556	0.530242	0.006223	-0.31671	0.071221	-0.18321	0.51637	0.015999	0.679002	0.111472
TXN	-0.06612	0.483206	-0.32444	-0.06721	0.625096	0.000162	0.01381	0.619381	-0.24075	0.610721	-0.34086	0.371565	0.053509	0.999997	0.010973	0.994496

C6orf35	0.061355	0.30531	-0.06773	0.067788	0.650271	0.02213	0.616673	0.616355	0.003167	0.444132	0.005348	0.276781	0.508334	0.999006	0.513906	0.968707
CNOT6LP1	-0.00336	0.167007	0.158716	-0.19813	0.980234	0.218608	0.238309	0.139573	0.133999	-0.26126	0.218415	-0.16624	0.812684	0.039733	0.925265	0.134763
LOC729566	0.094925	-0.05902	0.026636	-0.15432	0.482444	0.665706	0.844081	0.251739	-0.05885	-0.10893	0.019365	-0.11223	0.348833	0.235576	0.550236	0.228871
C6orf100	-0.09423	-0.19204	0.124074	-0.20838	0.485663	0.156206	0.357811	0.119818	-0.00678	-0.32072	0.142226	-0.30222	0.482168	0.014885	0.824328	0.020608
LOC729595	-0.19812	-0.21359	-0.08323	-0.2842	0.139583	0.113961	0.538215	0.032149	-0.11086	-0.37818	0.164413	-0.16593	0.231631	0.004779	0.85976	0.135213
TXNRD1	-0.10135	0.307426	-0.20372	-0.08324	0.453174	0.021178	0.128527	0.538178	-0.07662	0.10545	-0.0743	0.16477	0.308451	0.754715	0.315862	0.860289
LOC729602	0.08793	0.198262	0.166047	0.163918	0.515427	0.142981	0.217037	0.223073	-0.10868	-0.04844	0.160271	0.020839	0.236091	0.374614	0.853529	0.554668
LOC729603	-0.20971	0.128889	-0.10643	0.064026	0.117427	0.343781	0.430716	0.636099	0.145013	0.109134	0.074984	-0.12444	0.829056	0.762271	0.685718	0.207702
BXDC1P	0.227539	0.093496	0.068704	-0.0325	0.088712	0.4931	0.611586	0.810342	-0.19139	0.199449	-0.10548	0.205834	0.101304	0.908059	0.245227	0.915025
RPL29P30	-0.01607	0.042091	0.1422	-0.16291	0.905555	0.758075	0.291344	0.225984	-0.11365	-0.24819	0.157013	-0.10591	0.226003	0.048146	0.848505	0.241797
RPL36AP46	-0.00696	0.019998	0.214371	-0.14491	0.959025	0.883692	0.109314	0.282141	0.035768	-0.11374	0.035248	-0.17104	0.593279	0.225834	0.590903	0.127871
LOC729627	0.133464	-0.20798	0.150147	-0.1875	0.322298	0.124009	0.264935	0.162523	-0.01783	-0.12691	0.085703	-0.1006	0.453176	0.200322	0.712181	0.252952
LOC100133	0.022087	-0.18562	0.07435	-0.22538	0.870459	0.170799	0.582554	0.09187	-0.08456	-0.30667	0.138458	-0.30852	0.288182	0.019088	0.817809	0.018486
RPL31P4	0.018204	-0.21318	0.1484	-0.16144	0.893085	0.114677	0.270598	0.230255	0.127641	-0.06662	0.129372	-0.14219	0.801041	0.330011	0.801503	0.172928
C14orf38	-0.07594	-0.15684	0.215466	-0.19088	0.578045	0.252817	0.11075	0.158779	-0.01514	-0.4699	0.129159	-0.32803	0.460215	0.000492	0.80111	0.013023
LOC729668	-0.15395	-0.23062	0.14724	-0.07783	0.252868	0.087257	0.274403	0.564992	0.008123	-0.32999	0.195648	-0.18944	0.521363	0.012557	0.901128	0.103663
LOC729687	-0.04829	0.124404	0.087499	-0.17638	0.72131	0.360972	0.517495	0.189379	-0.11107	0.057284	0.119608	-0.02628	0.231212	0.647335	0.783067	0.431182
TYK2	-0.08247	-0.14991	0.092917	0.022131	0.541926	0.270134	0.491794	0.8702	-0.16222	0.071315	-0.12053	0.023303	0.140715	0.681168	0.215161	0.561085
RCTP11	-0.13655	0.131564	-0.14456	0.143402	0.311131	0.333774	0.283322	0.287245	-0.00379	0.351901	-0.07731	0.266814	0.490156	0.99112	0.308966	0.961782
LOC729756	-0.23604	-0.32079	0.115517	-0.07012	0.079883	0.015929	0.396551	0.607604	-0.13162	-0.37624	0.185647	-0.15397	0.194388	0.005429	0.88619	0.156283
TYMS	-0.18145	0.362495	-0.24188	0.05735	0.180766	0.006533	0.072493	0.674604	-0.19819	0.705715	-0.35961	0.492533	0.093361	1	0.007629	0.999747
LOC72980C	-0.09735	-0.2098	0.053715	-0.15286	0.475349	0.124216	0.694184	0.260703	-0.01598	-0.26388	0.154272	-0.17082	0.458521	0.039924	0.841313	0.130945
LOC72980E	-0.0408	-0.28845	0.164288	0.008501	0.763135	0.031086	0.222017	0.949955	0.043217	-0.22717	0.136914	-0.20866	0.612247	0.064478	0.815097	0.082021
DNM1P34	0.063018	-0.02764	0.281299	-0.29117	0.64143	0.839752	0.03403	0.027991	0.119587	-0.49422	0.205245	-0.22208	0.785705	0.000241	0.911897	0.068985
FAM160A1	-0.0197	0.419729	-0.2142	-0.2776	0.884354	0.001281	0.109598	0.036555	0.036559	0.108231	-0.08393	-0.14323	0.595304	0.762994	0.291793	0.171151
LOC729862	0.055947	-0.10833	0.122688	-0.0856	0.679346	0.426769	0.363248	0.526673	0.166301	-0.24512	0.067803	-0.22106	0.865329	0.050305	0.670953	0.069926
hCG_19948	-0.04246	-0.1623	0.174275	-0.17766	0.753794	0.232047	0.194788	0.186117	0.028855	-0.45249	0.182612	-0.40637	0.575486	0.000796	0.885057	0.002536
LOC72989E	-0.0233	-0.05785	0.043211	-0.24586	0.863389	0.671947	0.749609	0.065261	0.182502	-0.22332	0.005872	-0.49747	0.887616	0.067864	0.51527	0.000218
TYR	0.02207	-0.24428	0.060639	-0.24753	0.870554	0.06962	0.654093	0.063399	-0.03327	-0.3622	0.08019	-0.38043	0.413138	0.006689	0.699735	0.004553
RPS16P10	0.142187	0.088836	-0.05613	0.272768	0.291389	0.514994	0.678369	0.040089	0.18325	0.362793	-0.23149	0.368731	0.885883	0.992843	0.065275	0.993656
hCG_20391	0.087065	-0.07186	0.276056	-0.16567	0.519584	0.598691	0.037656	0.218105	0.11437	-0.40269	0.208193	-0.35809	0.775426	0.002764	0.915029	0.007274
LOC729966	-0.24939	0.271043	-0.14842	-0.31874	0.061376	0.043326	0.270528	0.015671	-0.22796	0.428887	-0.07859	0.076837	0.063797	0.99853	0.303925	0.694114
MORN2	-0.10912	-0.11951	0.002928	-0.19067	0.419068	0.380305	0.982752	0.1554	-0.24067	-0.20674	0.004101	-0.08372	0.053571	0.084023	0.510665	0.29007
LOC729974	-0.05132	-0.04589	0.097655	-0.01596	0.704575	0.737016	0.469881	0.906227	-0.01379	-0.20915	0.017204	-0.15718	0.46419	0.083974	0.544129	0.151241
FLJ30403	-0.06569	-0.25907	0.098523	-0.44857	0.627336	0.053853	0.465921	0.000466	-0.11495	-0.23516	0.240095	-0.31135	0.223419	0.057841	0.943927	0.017593
LOC729992	-0.10884	0.037429	-0.22652	-0.22102	0.420304	0.784183	0.09019	0.098498	0.034304	-0.16981	-0.04857	-0.31335	0.589525	0.129606	0.375675	0.016983
C7	0.143899	-0.24582	0.235645	0.432234	0.285558	0.067821	0.077629	0.000786	0.356338	-0.32897	0.308403	-0.12293	0.992465	0.012797	0.980356	0.207844
RP11-556K	-0.03062	0.034378	-0.1865	0.080097	0.822726	0.80323	0.168728	0.557328	-0.1007	0.322544	-0.33119	0.070276	0.252735	0.985599	0.01313	0.678708
LOC730041	0.104837	0.154985	0.058727	0.020652	0.437686	0.254056	0.664337	0.87881	0.332031	-0.16842	0.233779	-0.15448	0.987069	0.134382	0.93666	0.155474
ZNF726	-0.12922	-0.15821	-0.11436	-0.1578	0.338081	0.244189	0.396949	0.241064	-0.32002	0.029082	-0.14271	-0.09268	0.015076	0.576073	0.17484	0.270067
C16orf52	-0.04903	0.164517	-0.14564	0.206798	0.717225	0.225649	0.2797	0.122724	-0.095	0.253322	-0.01183	0.236972	0.264996	0.955309	0.469251	0.943593
LOC73009E	-0.11282	-0.26959	0.212773	-0.22021	0.403391	0.044508	0.112046	0.099759	0.129989	-0.49949	0.125014	-0.35763	0.805389	0.000205	0.793389	0.007341
TYRO3	0.105167	0.24415	0.151509	-0.10776	0.440476	0.072436	0.264994	0.429205	0.078336	0.399537	-0.14764	0.183174	0.697589	0.997028	0.166562	0.888482
tcag7.977	-0.03877	-0.33568	0.116653	-0.13162	0.776622	0.012229	0.391891	0.333579	-0.12497	-0.44092	0.148326	-0.42677	0.203972	0.001081	0.834573	0.00155
LOC730144	0.030749	0.246557	-0.11699	-0.00034	0.82038	0.066975	0.386122	0.998013	0.177724	0.181222	-0.02353	-0.07881	0.881326	0.885955	0.439045	0.301326
LOC730167	0.332083	-0.01943	0.252828	-0.26037	0.011613	0.886963	0.057765	0.050458	0.455785	-0.15938	0.133607	-0.18752	0.999272	0.145029	0.809206	0.106032
LOC730173	-0.06246	0.214715	0.141581	0.029472	0.644418	0.11203	0.293474	0.827718	0.110164	0.18134	-0.07422	0.117738	0.764361	0.883398	0.316039	0.779431
LOC730241	0.197312	-0.23569	0.366728	0.052073	0.141242	0.080338	0.005018	0.700467	0.42012	-0.55681	0.284113	-0.31537	0.998174	2.92E-05	0.970717	0.016384
IRG1	-0.16307	-0.16352	-0.03132	-0.32752	0.225523	0.22851	0.817083	0.012883	0.046088	-0.44585	0.169726	-0.41331	0.619491	0.00095	0.867495	0.002152
TYROBP	-0.13324	-0.31735	0.054386	0.332265	0.323132	0.017161	0.687826	0.011564	-0.12084	-0.3544	-0.05367	-0.14841	0.211867	0.007835	0.363106	0.162471

LOC100133	0.277458	-0.10705	0.314145	-0.25223	0.036656	0.432295	0.017323	0.058385	0.181866	-0.35695	0.142267	-0.37873	0.886793	0.007443	0.824397	0.004723
TYRP1	0.130721	-0.14073	0.183852	-0.14533	0.332433	0.300876	0.170999	0.280746	0.171677	-0.48492	0.353702	-0.42612	0.873028	0.000318	0.991427	0.001575
tcag7.1217	-0.10363	0.033131	0.046534	-0.46894	0.443007	0.808468	0.731051	0.000234	-0.13751	-0.07559	-0.00523	0.014586	0.18107	0.308788	0.486399	0.538323
U2AF1	-0.01457	0.30474	-0.34955	0.196317	0.914326	0.022392	0.007693	0.143301	-0.07899	0.435014	-0.25101	0.300037	0.300908	0.998741	0.048139	0.978612
LOC100133	-0.08921	-0.08402	0.065369	-0.2609	0.513234	0.538132	0.632182	0.052124	0.21237	-0.43861	0.261847	-0.42762	0.921751	0.001148	0.958855	0.001517
C8A	0.03891	-0.13092	0.155216	-0.30429	0.773835	0.33617	0.248954	0.021376	0.27787	-0.3945	0.201449	-0.25883	0.969241	0.003334	0.907743	0.041203
UBA52	0.034608	0.242181	-0.41511	0.196756	0.798283	0.072127	0.001324	0.14239	-0.01334	0.28234	-0.28284	0.225454	0.464932	0.971356	0.029876	0.93403
LOC731157	0.058391	-0.08863	0.144811	-0.12838	0.666144	0.515969	0.282486	0.341254	0.151998	-0.1553	0.218518	-0.14012	0.843369	0.151372	0.925364	0.176506
UBB	-0.15448	-0.09486	-0.18239	0.101802	0.251247	0.486766	0.174495	0.451136	-0.20064	0.095589	-0.08466	0.057258	0.093162	0.733889	0.292407	0.645649
UBC	-0.038	0.170737	-0.17994	0.239167	0.779004	0.208348	0.180453	0.07317	-0.1814	0.343127	-0.15978	0.301448	0.113807	0.990216	0.147223	0.979119
UBA1	-0.1358	0.253774	-0.18311	-0.00254	0.318304	0.061547	0.176745	0.985195	-0.28796	0.585182	-0.32732	0.350428	0.026152	0.99999	0.014089	0.99152
LOC731797	0.03024	-0.11565	0.228457	-0.1078	0.823302	0.395996	0.087399	0.424778	0.101075	-0.35386	0.224004	-0.19382	0.748052	0.007919	0.930464	0.098408
UBA7	-0.04813	-0.10772	0.116087	0.242812	0.72219	0.429387	0.389824	0.068771	-0.04574	0.246217	-0.02234	0.329539	0.381381	0.950474	0.442086	0.987338
UBE2A	-0.06149	0.316248	-0.30545	0.115936	0.649526	0.017573	0.020858	0.390448	-0.14662	0.505221	-0.23294	0.32599	0.165443	0.999829	0.061796	0.986479
C8B	-0.08237	-0.1307	0.067179	-0.24794	0.542436	0.336987	0.61953	0.062939	0.061358	-0.38483	0.055265	-0.33652	0.655568	0.004524	0.639195	0.011901
UBE2B	0.110433	-0.0315	-0.20602	0.205617	0.413478	0.817746	0.124164	0.124923	0.105589	0.051927	-0.01487	0.00047	0.757533	0.634096	0.46138	0.501237
UBE2D1	-0.03439	0.169107	-0.23371	0.145462	0.799548	0.212788	0.080173	0.280303	-0.05189	0.247756	-0.09239	0.136797	0.366002	0.951554	0.273044	0.817675
UBE2D2	0.126429	0.243799	-0.20263	0.214629	0.348686	0.070187	0.13063	0.108877	0.164862	0.325742	-0.07301	0.272408	0.863217	0.986417	0.316822	0.966489
TDRG1	0.079574	-0.0087	0.169111	0.014232	0.559914	0.949723	0.212778	0.917088	0.033454	0.02213	-0.02048	-0.15808	0.587342	0.558032	0.446891	0.147022
LOC732275	-0.09142	-0.08139	0.002634	-0.13917	0.498844	0.550983	0.984486	0.301866	-0.18913	-0.1276	-0.02384	-0.11671	0.104046	0.199043	0.438225	0.219936
UBE2D3	0.09643	0.058317	-0.02124	-0.11029	0.475493	0.669433	0.875407	0.414073	0.229533	-0.1074	0.055199	-0.10076	0.937546	0.238727	0.640629	0.252615
LOC732391	-0.18964	-0.14006	0.010782	-0.31725	0.157697	0.303226	0.936556	0.01619	-0.19191	-0.3833	-0.04358	-0.30077	0.103307	0.004674	0.389403	0.022343
UBE2E1	-0.21453	0.223042	-0.48294	-0.0179	0.109049	0.098467	0.000142	0.894858	-0.23972	0.262045	-0.185	0.304451	0.056363	0.958975	0.114639	0.978994
UBE2E2	0.005975	0.108622	-0.17483	0.054201	0.964815	0.42552	0.193341	0.688834	0.053866	-0.19738	0.035638	-0.05524	0.638908	0.094285	0.59189	0.357693
UBE2G1	-0.02007	0.322075	-0.23388	0.161876	0.882217	0.01549	0.079947	0.228972	-0.15258	0.53602	-0.17552	0.393572	0.155696	0.999938	0.124397	0.996595
UBE2G2	-0.06053	-0.04166	0.172338	0.06303	0.65763	0.762637	0.204048	0.644444	0.014472	-0.12861	-0.17396	-0.13392	0.538024	0.197155	0.126549	0.187465
UBE2H	-0.10276	0.11298	-0.19879	-0.15295	0.446882	0.407073	0.138235	0.25601	0.011082	0.077432	0.093575	-0.12418	0.529135	0.695494	0.729532	0.205466
UBE2I	0.100363	0.320327	-0.14499	0.176837	0.457594	0.016091	0.281883	0.188205	-0.01316	0.450496	-0.12895	0.293406	0.465419	0.99916	0.199275	0.976092
C8G	-0.00268	-0.12574	0.201304	-0.21941	0.984185	0.355791	0.133211	0.101028	0.173083	-0.36132	0.264168	-0.35858	0.874991	0.006811	0.960244	0.007201
UBE2L3	0.045083	0.376342	-0.12272	0.124998	0.739138	0.004254	0.363133	0.354215	-0.04086	0.63864	-0.1446	0.460071	0.39372	0.999999	0.171643	0.999352
UBE2N	-0.06651	0.184898	-0.16803	0.092237	0.62305	0.172492	0.211511	0.494983	-0.09636	0.217816	-0.12312	0.201635	0.262044	0.92705	0.210186	0.910489
UBE2V1	-0.16332	0.063866	-0.09712	-0.21292	0.229099	0.643193	0.476411	0.115136	-0.21467	-0.10748	-0.15126	-0.11984	0.07598	0.238547	0.160638	0.213813
UBE2V2	-0.06705	0.307048	-0.33298	0.055905	0.620189	0.021345	0.011377	0.679571	-0.12286	0.329914	-0.26775	0.303781	0.207993	0.987426	0.037688	0.979936
UBE3A	0.112737	0.243753	-0.19131	0.073846	0.403744	0.070241	0.153991	0.585119	0.082918	0.449708	-0.11341	0.276644	0.708101	0.999142	0.229116	0.968639
OSGIN2	0.058515	-0.0157	-0.09238	0.17049	0.665477	0.90856	0.494299	0.204813	0.061754	-0.00748	0.156246	0.150457	0.658252	0.480318	0.847306	0.840876
SUMO1	0.010476	0.323899	-0.11964	-0.1164	0.93835	0.014883	0.375393	0.38852	-0.0088	0.141573	0.044758	0.00066	0.476856	0.826009	0.614836	0.501737
UBP1	0.145877	0.091157	-0.04075	0.332594	0.278918	0.504029	0.763454	0.011477	0.172057	0.203448	-0.1319	0.241702	0.87356	0.912468	0.193883	0.9472
UBTF	-0.03145	0.14935	-0.21627	-0.10481	0.816369	0.271943	0.106142	0.437805	-0.05158	0.350609	0.063895	0.225056	0.366754	0.99155	0.661655	0.933679
UCHL1	0.209097	0.256163	0.15541	-0.38563	0.118527	0.056696	0.248354	0.003052	-0.07657	-0.25482	-0.02707	-0.07696	0.306518	0.04372	0.429934	0.305603
UCHL3	-0.10612	0.436585	-0.28785	0.128133	0.432071	0.000768	0.02991	0.342176	-0.17622	0.596646	-0.27964	0.40779	0.120705	0.999994	0.031417	0.997546
UPK1B	-0.107	0.456511	-0.32337	-0.23286	0.428257	0.000406	0.014143	0.081309	-0.06704	0.551353	-0.09294	0.284884	0.328993	0.999964	0.271851	0.972506
UCN	-0.13923	-0.22612	0.148306	-0.07809	0.301642	0.093793	0.270904	0.563695	0.066738	-0.39616	0.042226	-0.23256	0.670275	0.003211	0.6085	0.059937
C9	0.025465	-0.19175	0.122583	-0.27595	0.852211	0.160776	0.3681	0.039532	0.152602	-0.37281	0.058659	-0.25061	0.841527	0.005832	0.647367	0.048415
UCP1	0.037334	-0.11509	0.241827	-0.23112	0.784717	0.40276	0.072557	0.086557	-0.05879	-0.31508	0.145881	-0.30695	0.350642	0.017507	0.827639	0.020136
UCP2	-0.17976	-0.04105	0.005315	-0.18222	0.180902	0.763875	0.968699	0.174884	-0.34511	0.017895	-0.00633	0.064321	0.009414	0.546983	0.483545	0.664465
UCP3	-0.1181	-0.1798	0.127847	-0.28604	0.381596	0.184853	0.343263	0.031004	0.026821	-0.21829	0.15011	-0.21982	0.57022	0.072505	0.837498	0.071072
UFD1L	-0.12721	0.242168	-0.37494	0.194917	0.345686	0.072143	0.004058	0.146233	-0.23655	0.52696	-0.29857	0.376716	0.056742	0.999916	0.023175	0.995068
SLC35A2	-0.08222	-0.04386	0.014585	-0.21575	0.543178	0.748207	0.914252	0.106994	-0.3729	0.150973	-0.21762	-0.00315	0.00535	0.841713	0.0755	0.491717
SCGB1A1	-0.0408	-0.12652	-0.12509	0.143984	0.765264	0.357329	0.358309	0.289735	-0.02707	-0.0679	-0.08616	-0.17925	0.42994	0.328818	0.289081	0.119365
UGCG	-0.23835	0.387966	-0.32882	0.09867	0.076886	0.003425	0.013345	0.469376	-0.18475	0.499082	-0.17431	0.32496	0.109506	0.999793	0.126063	0.986221

UGDH	-0.08016	0.265839	-0.27656	-0.03794	0.553334	0.047673	0.037296	0.779319	-0.19896	0.317871	-0.19439	0.259371	0.092491	0.984331	0.100348	0.959128
UGP2	0.007813	0.157965	-0.26309	0.19055	0.954005	0.244927	0.048011	0.155668	-0.07303	0.403031	-0.09284	0.356431	0.314785	0.997258	0.272075	0.992479
UGT2B4	-0.00288	-0.07304	-0.01258	-0.34049	0.98306	0.592652	0.926018	0.009552	-0.03429	-0.14022	-0.09499	-0.18873	0.411532	0.179116	0.269829	0.107185
UGT2B7	0.149202	-0.10345	0.101143	-0.17211	0.272423	0.452288	0.458259	0.204659	0.262564	-0.38375	0.207657	-0.23072	0.961038	0.004235	0.914466	0.061459
UGT2B10	0.104624	-0.17912	0.067738	-0.2094	0.438622	0.186541	0.616611	0.11798	0.148834	-0.40021	0.03084	-0.36626	0.835408	0.003224	0.578762	0.006672
UGT2B17	0.049088	-0.25075	0.130537	-0.1289	0.716893	0.062324	0.33312	0.339281	-0.12501	-0.42214	-0.04798	-0.2816	0.203903	0.001738	0.377137	0.028984
UGT8	0.103824	0.118651	-0.07834	-0.01993	0.442149	0.383775	0.562433	0.88303	-0.12622	0.097842	-0.03916	0.156403	0.201614	0.741149	0.399202	0.850363
UMOD	-0.06537	-0.09882	0.170506	-0.1112	0.629025	0.468707	0.204768	0.410229	0.042211	-0.49617	0.024068	-0.49499	0.608463	0.000264	0.561618	0.000273
UCK2	-0.12002	0.431333	-0.29757	0.277599	0.373845	0.000904	0.024573	0.036557	0.028708	0.596715	-0.2351	0.370715	0.575104	0.999994	0.060021	0.994397
UMPS	0.010737	0.366488	-0.40172	0.331795	0.936819	0.005468	0.001952	0.01169	-0.15471	0.705008	-0.44402	0.439585	0.152303	1	0.001124	0.998881
COL14A1	0.395065	-0.13996	0.241502	0.295731	0.002584	0.308122	0.072954	0.026905	0.121849	0.04065	0.117699	0.394106	0.790077	0.605736	0.779354	0.996636
UNG	0.084714	0.152701	-0.21186	0.14853	0.530964	0.261208	0.113625	0.270174	-0.05188	0.598988	-0.29972	0.473157	0.366019	0.999995	0.022735	0.999551
USP4	-0.03508	0.220827	-0.13804	0.153876	0.795586	0.101943	0.30584	0.253113	-0.27641	0.417355	-0.11585	0.436147	0.033029	0.99783	0.226977	0.998628
NR1H2	0.060686	-0.0734	0.030404	0.030375	0.653842	0.590825	0.82236	0.822525	-0.11773	0.348581	-0.21657	0.167168	0.217923	0.991205	0.076514	0.866592
UPP1	0.131033	0.066972	0.098063	-0.00905	0.335745	0.627098	0.472127	0.947237	0.092731	0.033583	-0.0528	-0.0759	0.730045	0.587673	0.365239	0.308073
UPK2	0.068602	-0.00393	0.207519	-0.10857	0.612114	0.97704	0.121397	0.421451	0.214692	-0.32296	0.00084	-0.35323	0.921648	0.015237	0.502159	0.008653
C11orf2	0.106276	-0.14679	0.051192	0.081012	0.431384	0.280335	0.705298	0.549133	0.016377	0.249203	-0.07385	0.093383	0.542518	0.950613	0.316889	0.729116
UPK3A	0.082657	0.043851	0.277342	-0.18958	0.541022	0.748281	0.036738	0.157829	0.13335	-0.33564	0.204385	-0.31292	0.811513	0.011292	0.910968	0.017113
UQCRB	-0.00548	0.158083	-0.29639	0.135403	0.968047	0.24903	0.02655	0.319734	-0.03445	0.163582	-0.28214	0.205575	0.410104	0.861321	0.030207	0.91475
UQCRC1	-0.03795	0.093119	-0.14359	0.112454	0.781249	0.498917	0.291067	0.409275	-0.25	0.685986	-0.34622	0.388997	0.046906	1	0.00991	0.996228
UQCRC2	0.037835	0.346243	-0.37769	0.15626	0.77992	0.008949	0.003774	0.245744	-0.11498	0.660439	-0.29089	0.418955	0.223363	1	0.026275	0.998122
UQCDFS1	0.03943	0.118641	0.122025	-0.06302	0.770891	0.383817	0.365866	0.64143	-0.11057	-0.09367	-0.00422	-0.12294	0.232226	0.2679	0.489028	0.20784
UROD	-0.00604	0.038635	-0.23094	0.175171	0.964463	0.777405	0.083923	0.192467	-0.2176	0.324396	-0.22592	0.278618	0.073154	0.986078	0.067818	0.969603
UROS	-0.21363	0.400155	-0.08792	0.350645	0.113898	0.00247	0.519343	0.008061	-0.14221	0.475161	-0.25146	0.475065	0.172901	0.999576	0.04783	0.999575
USF1	-0.19729	-0.09722	-0.10293	0.267482	0.141299	0.475949	0.446123	0.044271	-0.30765	0.225877	-0.20978	0.154014	0.018767	0.934401	0.083315	0.846596
USF2	0.05311	-0.1705	0.257982	-0.05451	0.694789	0.208986	0.052684	0.687162	0.132531	-0.21534	0.213148	-0.20764	0.810033	0.075326	0.920111	0.083072
USP1	0.072482	0.182815	-0.28403	0.154935	0.592091	0.177465	0.032258	0.24982	0.006644	0.405196	-0.12766	0.32663	0.517477	0.997393	0.201666	0.986637
USH2A	0.007425	-0.10843	0.071165	-0.366	0.956284	0.426342	0.598856	0.005112	0.139695	-0.37681	0.156834	-0.31313	0.819964	0.005365	0.845346	0.018112
MRPL49	-0.1509	0.031787	-0.15887	0.147342	0.262513	0.816098	0.237834	0.274067	-0.24996	0.454228	-0.29637	0.293061	0.046928	0.99924	0.024031	0.975955
CLRN1	0.094833	-0.08579	0.249957	-0.25063	0.486913	0.533419	0.063179	0.062454	0.132788	-0.45607	0.137137	-0.44703	0.807731	0.00082	0.812644	0.00104
UTRN	0.112008	-0.04908	-0.02304	0.133078	0.40681	0.719421	0.86492	0.323713	0.119386	-0.07154	0.147088	0.035254	0.785312	0.318301	0.832525	0.591963
UTX	-0.04492	0.207455	-0.19546	0.089296	0.74005	0.124984	0.145095	0.508897	0.077985	0.400828	-0.09528	0.203276	0.696777	0.997115	0.266781	0.912282
UTY	-0.05384	0.084442	-0.19185	0.030751	0.690789	0.536074	0.15282	0.820365	0.180474	0.184728	0.001699	0.107104	0.884976	0.890467	0.504418	0.760671
UVRAG	0.151931	-0.07209	-0.0491	0.190798	0.259234	0.597493	0.71682	0.155119	0.458851	-0.27923	0.222051	-0.18427	0.99933	0.030104	0.928678	0.110121
VARS	-0.0609	0.055989	-0.08132	0.158645	0.652675	0.681913	0.547632	0.238522	-0.22688	0.538319	-0.21937	0.474916	0.064723	0.999943	0.073823	0.999573
VASP	-0.05856	-0.15991	0.18454	-0.07984	0.665219	0.239095	0.169375	0.55492	0.039076	-0.23772	0.098868	-0.21659	0.601732	0.055825	0.74091	0.074115
VAV1	-0.12977	-0.21158	-0.10434	0.163219	0.336011	0.117483	0.439886	0.225079	-0.36272	-0.05011	-0.08017	0.069243	0.006618	0.370423	0.30031	0.676255
ZNHIT2	-0.17461	-0.17006	0.078336	-0.26091	0.193919	0.210173	0.562448	0.049959	-0.21812	-0.30526	0.010789	-0.36728	0.07266	0.019561	0.528039	0.006021
VAV2	-0.06211	-0.03606	-0.10488	0.091449	0.646235	0.791881	0.4375	0.49869	-0.00294	0.286055	0.053403	0.290514	0.492348	0.971606	0.634684	0.973564
VBP1	0.024942	0.242976	-0.28573	0.198386	0.853886	0.071169	0.031197	0.139048	-0.07378	0.452116	-0.18415	0.391609	0.313031	0.999196	0.112955	0.996442
VCAM1	0.094089	-0.13236	0.028084	0.504956	0.486327	0.330825	0.835718	6.18E-05	-0.06771	-0.1639	0.190584	0.317376	0.329271	0.140998	0.892363	0.983181
VCL	0.329205	-0.01865	0.037747	0.161811	0.013232	0.89248	0.782396	0.23348	0.327979	0.013088	0.148254	-0.00798	0.986966	0.534398	0.834454	0.479
VCP	-0.06023	0.22883	-0.25999	0.199759	0.656273	0.089816	0.050807	0.136277	-0.26947	0.567791	-0.34151	0.4172	0.035072	0.999981	0.010839	0.99804
VDAC2	-0.03776	0.145183	-0.29366	0.03015	0.780323	0.285693	0.026616	0.823821	0.227028	0.205366	-0.11417	0.112958	0.935403	0.914527	0.227603	0.772599
VDAC3	-0.0541	0.191201	-0.2936	0.042581	0.689407	0.158065	0.026649	0.753144	-0.08178	0.221167	-0.13019	0.201929	0.296658	0.92786	0.199797	0.908276
VDR	-0.15951	0.226739	-0.19339	-0.14105	0.235936	0.092869	0.149483	0.295319	-0.12188	0.329888	-0.13379	0.214366	0.209865	0.987419	0.190462	0.923725
VEGFA	0.061596	0.295362	-0.05243	0.047678	0.648988	0.027105	0.698531	0.724698	0.202738	0.429296	-0.17769	0.211072	0.911696	0.998545	0.121449	0.920447
VEGFB	0.229054	0.009654	0.28658	0.066123	0.086552	0.943703	0.030676	0.625057	0.290176	-0.19612	0.268413	-0.14401	0.97478	0.095731	0.962689	0.169839
VEGFC	0.243425	0.203338	0.076343	0.131196	0.068053	0.13282	0.572459	0.330665	0.201942	0.103888	0.222443	0.196099	0.910825	0.753982	0.929039	0.904246
VGF	-0.07772	-0.16222	0.13469	-0.25098	0.565526	0.232281	0.317833	0.059677	0.088495	-0.43039	0.135836	-0.32765	0.720671	0.001415	0.813189	0.013115

VHL	-0.23042	0.272166	-0.35827	0.460635	0.08464	0.042433	0.006211	0.000311	-0.22097	0.556347	-0.31973	0.480079	0.070002	0.99997	0.016137	0.999633
VIL1	0.02359	-0.19265	0.201646	-0.35237	0.861726	0.154883	0.132539	0.007184	0.082259	-0.44411	0.226527	-0.32557	0.7066	0.000995	0.93272	0.013625
EZR	-0.14294	0.125785	-0.27687	-0.16273	0.288817	0.355626	0.03707	0.226479	-0.22484	0.195791	-0.08108	0.015505	0.06651	0.903889	0.29825	0.540731
VIM	0.320462	-0.29646	0.20067	0.404305	0.016044	0.027964	0.138091	0.001999	0.457245	-0.31787	0.310163	-0.00738	0.9993	0.015669	0.980939	0.480586
VIP	0.018755	-0.08737	0.161374	0.11989	0.890878	0.521997	0.234761	0.378792	0.192147	-0.30231	0.230319	-0.18987	0.896977	0.021776	0.933721	0.10579
VIPR1	0.048437	0.092905	0.270545	-0.19064	0.720491	0.495853	0.041805	0.155472	0.109823	0.015025	0.099506	-0.08637	0.766252	0.539474	0.742264	0.284089
VIPR2	0.173079	-0.20228	0.345442	-0.12595	0.197917	0.134886	0.008493	0.35054	0.228667	-0.47818	0.265022	-0.36455	0.936812	0.000388	0.960746	0.006373
VLDLR	0.113908	0.109603	-0.14057	0.034812	0.398845	0.421325	0.29697	0.797118	-0.13727	0.288915	-0.10419	0.241014	0.181485	0.974253	0.247905	0.946686
BEST1	-0.12938	-0.32866	0.15471	-0.09963	0.337465	0.013394	0.250517	0.460881	0.02592	-0.52942	0.117458	-0.53313	0.567106	9.22E-05	0.776173	8.14E-05
MPPED2	0.424911	-0.09054	0.147498	-0.29903	0.000986	0.506913	0.273554	0.023846	0.478697	-0.22266	0.234552	-0.20281	0.999618	0.068466	0.939534	0.088224
VPREB1	-0.20521	-0.19978	0.07673	-0.09708	0.129217	0.143637	0.574063	0.476605	0.027603	-0.31376	0.104693	-0.17748	0.572246	0.01686	0.753145	0.118999
TRPV1	-0.30366	0.149548	-0.15523	-0.08267	0.021658	0.2713	0.248911	0.540948	-0.16466	0.116883	-0.17432	-0.08339	0.137076	0.78041	0.126048	0.290826
VRK1	-0.0252	0.112861	-0.33398	0.029213	0.852382	0.407571	0.011118	0.829213	-0.20348	0.238137	-0.17705	0.189523	0.087499	0.944498	0.122317	0.896437
VRK2	-0.02073	0.334672	-0.3407	0.190678	0.878371	0.011698	0.009506	0.155385	0.053311	0.533018	-0.05721	0.372142	0.637532	0.999932	0.35446	0.994563
VSNL1	0.050361	0.341631	-0.23396	0.165234	0.712426	0.010688	0.082662	0.223605	-0.10063	0.753006	-0.2169	0.569956	0.252882	1	0.076189	0.999982
VTN	0.093844	-0.16237	0.25332	-0.17133	0.487468	0.231834	0.057264	0.202548	0.104945	-0.32244	0.228118	-0.3117	0.756191	0.014429	0.934114	0.017485
C11orf9	-0.05603	0.221265	-0.10252	-0.15191	0.678903	0.101248	0.447931	0.259313	-0.13965	0.444285	-0.09559	0.188886	0.177323	0.99901	0.266101	0.895657
VWF	0.319661	-0.16392	0.191269	0.279259	0.017359	0.23626	0.161855	0.038947	0.332337	-0.05571	0.252534	0.196033	0.987142	0.358125	0.950919	0.901577
WARS	-0.047	0.036428	0.219562	0.517822	0.730867	0.791749	0.103971	4.37E-05	-0.13284	0.180129	0.071823	0.3732	0.192167	0.881805	0.678427	0.994215
WAS	-0.05564	-0.41805	0.188083	0.09822	0.681019	0.001346	0.161191	0.467301	-0.01149	-0.29323	0.147927	-0.09963	0.470152	0.025297	0.831038	0.257478
ZAN	0.03271	-0.15596	0.212245	-0.25968	0.809131	0.251056	0.112959	0.051094	0.103191	-0.33376	0.242862	-0.2622	0.75252	0.011701	0.946027	0.039176
WIPF1	0.108432	-0.38056	0.153605	0.609213	0.422046	0.003812	0.253958	4.93E-07	0.173897	-0.49234	0.213506	-0.1379	0.876119	0.000255	0.92047	0.180374
EIF4H	0.075688	0.235248	-0.19149	0.263102	0.575769	0.08093	0.153601	0.048001	0.177322	0.359255	-0.08651	0.225652	0.880787	0.992897	0.286014	0.934203
C11orf10	-0.19792	0.002582	-0.17513	0.097216	0.139991	0.984935	0.192581	0.471889	-0.51773	0.34211	-0.43311	0.363639	0.000114	0.990021	0.00148	0.993507
CLIP2	0.102528	0.048252	0.079475	0.021229	0.447899	0.72398	0.55676	0.875447	0.108217	0.160097	0.096735	0.155605	0.762965	0.856069	0.736354	0.849111
LAT2	-0.06934	-0.4129	0.24489	0.071656	0.6083	0.001564	0.06636	0.596328	0.097771	-0.56396	0.267438	-0.35624	0.740996	2.24E-05	0.962138	0.00755
CORO2A	-0.18168	0.240514	-0.26356	-0.13581	0.180214	0.076928	0.049685	0.318268	-0.35581	0.595007	-0.27812	0.276213	0.007616	0.999994	0.032168	0.968425
WEE1	-0.03684	0.186296	-0.18649	-0.30822	0.785549	0.169213	0.164825	0.019671	-0.07052	0.186678	0.020748	-0.08215	0.320716	0.892922	0.553804	0.293647
WFS1	0.075726	-0.27581	0.264008	-0.23414	0.575578	0.039634	0.047209	0.079594	-0.0924	-0.42849	0.095763	-0.32364	0.270689	0.001484	0.734265	0.014116
WHSC1	-0.22255	0.409078	-0.25002	0.036566	0.096124	0.001746	0.060692	0.787128	-0.17609	0.649434	-0.30561	0.373073	0.12088	0.999999	0.020599	0.994669
WHSC2	-0.02657	0.022183	0.092356	-0.10285	0.844489	0.871085	0.494424	0.446447	0.148068	0.135532	0.089092	-0.13639	0.834148	0.812649	0.717389	0.185824
DAGLA	-0.13941	0.22027	-0.09557	-0.20057	0.301015	0.102832	0.479452	0.134652	-0.16607	0.464263	-0.21082	0.192582	0.135013	0.999423	0.082244	0.900122
WNT1	-0.0207	-0.01536	0.281887	-0.18306	0.878508	0.910527	0.033642	0.17288	0.095661	-0.45458	0.218206	-0.49211	0.734044	0.000853	0.922626	0.000298
WNT2	-0.1229	-0.17273	0.176661	-0.24936	0.366859	0.20727	0.192758	0.063831	0.025817	-0.47226	0.001161	-0.33269	0.567617	0.00046	0.50302	0.01194
WNT3	0.110154	-0.12948	0.345187	-0.23472	0.414668	0.341558	0.008545	0.078832	0.058707	-0.35207	0.152587	-0.39142	0.650823	0.008207	0.841503	0.003573
WNT5A	0.100115	0.50026	-0.2505	0.152295	0.45871	8.64E-05	0.060189	0.25808	-0.17323	0.624381	-0.25942	0.437423	0.12481	0.999998	0.042637	0.998817
WNT6	-0.03168	-0.01718	0.261684	-0.13249	0.815018	0.899996	0.049263	0.325875	0.18236	-0.47261	0.25443	-0.41508	0.88473	0.000522	0.95221	0.00229
WNT7A	-0.02047	-0.09984	0.254643	-0.16501	0.879863	0.464084	0.055933	0.21995	0.25357	-0.42009	0.253659	-0.36865	0.955471	0.001827	0.953651	0.005851
WNT7B	-0.13192	0.266569	-0.14501	-0.26416	0.327961	0.047042	0.281831	0.047079	-0.28194	0.298576	-0.27817	-0.02027	0.028828	0.978076	0.032143	0.446824
WNT8A	-0.1417	-0.06511	0.091384	-0.06493	0.293073	0.633541	0.499	0.631319	0.027499	-0.2908	0.109988	-0.19894	0.571975	0.024963	0.764006	0.092515
WNT8B	-0.101	-0.10929	0.134088	-0.21367	0.454715	0.422655	0.320023	0.11051	-0.08465	-0.33604	0.15111	-0.29047	0.28797	0.011208	0.839122	0.025096
WNT10B	-0.05594	-0.06695	0.169733	-0.22621	0.679399	0.623934	0.20686	0.090635	0.120964	-0.35704	0.190812	-0.35712	0.788372	0.00743	0.895362	0.007418
WNT11	-0.08868	0.011154	0.186168	-0.1823	0.511854	0.934971	0.165578	0.1747	0.178062	-0.36985	0.096977	-0.23629	0.881779	0.005706	0.736871	0.056945
WNT2B	0.200593	0.20211	0.043584	-0.13434	0.134616	0.135228	0.747515	0.319112	0.017695	0.176363	-0.01661	-0.02918	0.546459	0.879492	0.456888	0.423673
WNT9A	-0.19977	-0.04131	-0.11599	-0.30008	0.13625	0.762415	0.390211	0.023335	-0.27362	-0.03192	-0.11874	-0.14901	0.032887	0.41661	0.218621	0.161491
WNT9B	-0.01689	-0.23807	0.14767	-0.14502	0.900749	0.077249	0.272986	0.281787	0.132044	-0.35574	0.175587	-0.35003	0.809147	0.007627	0.875693	0.008547
WRB	-0.10774	-0.09092	-0.11098	-0.0921	0.425013	0.505137	0.41115	0.495635	-0.20637	-0.21142	0.000784	-0.09223	0.084406	0.079202	0.502039	0.271049
WRN	0.138164	0.158526	-0.14342	0.170545	0.305394	0.243236	0.287195	0.204663	0.142524	0.326685	-0.01784	0.253593	0.82764	0.986651	0.453692	0.955485
WT1	0.041782	-0.05496	0.257164	-0.228	0.757628	0.687436	0.053465	0.088046	0.129933	-0.35279	0.211957	-0.27166	0.805286	0.008091	0.91891	0.033902
XBP1	0.067728	-0.00421	0.117701	0.124955	0.619916	0.975637	0.387623	0.358833	0.037854	0.139111	-0.14182	0.05912	0.598615	0.821743	0.176372	0.651835

XDH	0.131496	-0.01044	0.104972	0.133237	0.329548	0.939129	0.437091	0.32313	0.091328	0.021949	-0.20229	0.015064	0.726955	0.55756	0.091324	0.539574
XG	0.05411	0.107793	-0.03946	0.28637	0.692045	0.433428	0.77278	0.032379	-0.00828	0.25982	0.15176	0.277237	0.478223	0.959401	0.840172	0.968932
C16orf3	0.086396	-0.12448	0.198746	-0.16865	0.522811	0.360696	0.138317	0.209818	0.155227	-0.2821	0.079643	-0.22893	0.845704	0.030226	0.69634	0.065179
XK	0.15805	-0.47198	0.179552	-0.17584	0.24031	0.00024	0.181403	0.190752	0.227853	-0.5203	0.270737	-0.36578	0.933883	0.000124	0.962259	0.006738
XPA	0.100539	0.395951	-0.18255	0.133412	0.4568	0.002522	0.174091	0.322491	0.139074	0.346198	-0.04568	0.258095	0.821678	0.990784	0.382857	0.958344
XPC	0.033091	-0.10511	-0.01786	0.163418	0.810454	0.449404	0.897052	0.233207	0.236503	-0.01566	0.082223	-0.11092	0.943226	0.458868	0.704352	0.231525
XPNPEP1	-0.18383	0.322851	-0.2094	0.30499	0.17106	0.015229	0.117975	0.021062	-0.19004	0.562227	-0.13106	0.493516	0.102936	0.999976	0.195401	0.999754
XPNPEP2	-0.01842	-0.20249	0.216281	-0.12783	0.8918	0.134479	0.106116	0.343324	0.234618	-0.40108	0.164785	-0.23756	0.941729	0.002869	0.860312	0.055946
XPO1	0.008595	0.274514	-0.26228	0.049935	0.949407	0.040613	0.048731	0.71222	0.012727	0.457417	-0.16603	0.443032	0.53345	0.999303	0.137861	0.998977
XRCC1	-0.1401	-0.19103	-0.03338	-0.21611	0.298603	0.158442	0.805314	0.106398	-0.4248	-0.06068	-0.15205	-0.04464	0.001627	0.344371	0.159353	0.384148
XRCC2	0.035627	0.061913	-0.0664	-0.23145	0.794342	0.653398	0.626819	0.086096	-0.06314	0.475089	-0.13678	0.211239	0.338396	0.999576	0.185136	0.920615
XRCC3	-0.13862	0.011703	0.233612	-0.15439	0.303791	0.931779	0.0803	0.251517	0.105096	-0.04604	0.055943	-0.13482	0.756506	0.380641	0.642446	0.185839
XRCC4	-0.08439	0.190617	-0.25641	0.006106	0.532539	0.159364	0.054195	0.964047	-0.11053	0.233406	-0.10987	0.131256	0.232303	0.940753	0.236232	0.807711
SNHG3-RC	-0.14674	0.315939	-0.21176	0.239339	0.276041	0.017689	0.113802	0.072957	-0.08813	0.546401	-0.20528	0.436182	0.280136	0.999957	0.088068	0.998778
FMNL1	-0.05351	-0.3901	0.16645	0.332429	0.692623	0.002958	0.215907	0.011521	-0.05011	-0.32723	0.130966	-0.19258	0.370436	0.013216	0.804422	0.099878
XRCC5	0.028523	0.2786	-0.34036	0.171818	0.833189	0.0376	0.009582	0.201253	-0.09064	0.553678	-0.13983	0.429849	0.274558	0.999967	0.179806	0.998565
CEMP1	-0.06722	-0.2868	0.19999	-0.33302	0.6193	0.032106	0.135816	0.011366	0.094422	-0.45098	0.102018	-0.53488	0.733744	0.000829	0.747563	6.42E-05
YES1	-0.04909	0.439508	-0.31435	0.25205	0.716877	0.000701	0.017247	0.058565	-0.07534	0.574666	-0.21875	0.365688	0.309364	0.999985	0.074411	0.993776
YY1	-0.1879	-0.06009	-0.06315	-0.00373	0.161618	0.659968	0.640737	0.97801	0.25035	-0.00894	0.117009	-0.12588	0.951409	0.47675	0.775298	0.204979
YWHAB	-0.01391	0.296076	-0.36158	0.343484	0.918186	0.026719	0.005717	0.008899	-0.09504	0.674347	-0.25706	0.517094	0.264912	1	0.044126	0.999883
C18orf1	-0.0763	-0.08275	0.009967	-0.26755	0.5762	0.548094	0.941884	0.046206	-0.15597	-0.1649	-0.1476	-0.17071	0.153131	0.139523	0.169501	0.131102
YWHAE	-0.01974	0.221976	-0.2232	-0.07303	0.884114	0.100128	0.095126	0.589268	-0.25146	0.369074	-0.19426	0.245722	0.045922	0.9942	0.100502	0.950123
YWHAG	0.031956	0.168101	-0.03835	0.277937	0.813449	0.215562	0.776992	0.03632	0.080261	0.581139	-0.13079	0.462013	0.699896	0.999986	0.198715	0.999301
YWHAH	-0.128	0.142932	-0.13441	0.029784	0.347156	0.297864	0.323335	0.827503	-0.07599	0.148741	0.030905	0.2193	0.307849	0.838068	0.579859	0.928448
YWHAZ	-0.02157	0.411104	-0.14099	0.184736	0.873438	0.001647	0.295526	0.168915	-0.06401	0.429753	-0.20914	0.274803	0.336292	0.998562	0.083984	0.967718
ZAP70	-0.19113	-0.21477	0.160588	0.451593	0.154386	0.111938	0.232745	0.000422	-0.06507	-0.27465	0.042907	-0.0373	0.33372	0.032359	0.610207	0.402795
SF1	0.204955	0.038584	0.236274	0.149872	0.126169	0.777691	0.076817	0.265821	0.495842	-0.26707	0.127895	-0.24269	0.999771	0.036388	0.798773	0.052067
ZFP36	0.067477	-0.16161	-0.05861	0.053169	0.617976	0.234068	0.664962	0.694463	0.140005	-0.04182	-0.08454	-0.08555	0.823298	0.391283	0.290415	0.285937
ZFP37	0.219125	0.165936	-0.05551	0.009045	0.101489	0.221617	0.681733	0.946758	0.053912	0.118265	-0.05723	0.07934	0.637481	0.780459	0.356055	0.697795
PTTG1IP	-0.1273	0.290246	-0.21787	0.021659	0.349815	0.031587	0.106731	0.874107	0.022507	0.390136	-0.08927	0.165958	0.559014	0.996323	0.27989	0.864829
ZFP161	-0.02846	0.121539	-0.22826	0.177183	0.833556	0.372222	0.087685	0.187326	-0.12215	0.293585	-0.09926	0.327738	0.209352	0.976163	0.258251	0.986908
ZFPL1	-0.07682	0.039026	0.057801	-0.03903	0.570062	0.775213	0.669321	0.773143	-0.18572	0.341678	-0.23525	0.310332	0.108278	0.989938	0.059903	0.982091
ZFX	0.034778	0.084247	-0.09686	0.243548	0.79731	0.537022	0.473542	0.067909	0.024096	0.219698	-0.17577	0.247646	0.563146	0.928819	0.124062	0.951477
ZFY	-0.04204	0.104473	-0.18485	0.023738	0.756205	0.443513	0.168658	0.860869	0.001869	0.154053	-0.19861	0.046641	0.504917	0.846657	0.095457	0.620882
ZIC1	0.003335	-0.141	0.280858	-0.32118	0.980537	0.304496	0.036015	0.015796	0.022607	-0.381	0.139141	-0.34703	0.559274	0.004497	0.819002	0.009067
ZIC2	-0.01833	-0.13781	0.299753	-0.02377	0.892352	0.311127	0.023493	0.860683	0.056214	-0.30948	0.244693	-0.20636	0.644705	0.018177	0.947383	0.084416
ZIC3	-0.01122	-0.07335	0.233772	-0.24373	0.933975	0.591095	0.080087	0.067703	-0.00242	-0.29819	0.161595	-0.2878	0.493628	0.022066	0.855541	0.026221
ZNF2	-0.05944	0.151811	-0.01175	0.096441	0.666406	0.268542	0.932123	0.483655	0.178914	-0.19316	-0.01362	-0.20687	0.882915	0.099191	0.46462	0.08388
C21orf2	-0.13373	-0.24351	0.09665	-0.21336	0.321314	0.070535	0.474484	0.111032	-0.10639	-0.34831	0.166782	-0.42323	0.243347	0.009521	0.860387	0.001886
ZNF3	-0.27142	-0.00351	-0.12472	-0.13343	0.04112	0.979526	0.355292	0.322408	-0.25457	0.001865	-0.18388	0.005173	0.043884	0.504908	0.113302	0.51361
ZNF711	0.153248	0.221138	-0.12503	0.146446	0.255076	0.101449	0.354101	0.277026	0.195463	0.186036	0.107207	0.231902	0.90351	0.892118	0.758333	0.939522
ZNF7	-0.12629	0.380875	-0.12579	0.152731	0.349218	0.00378	0.35113	0.256704	-0.10333	0.150222	-0.20632	0.248488	0.247181	0.840492	0.086947	0.952061
ZNF8	-0.18258	-0.07258	0.085122	-0.13975	0.17804	0.598475	0.532786	0.30429	-0.2071	0.013427	-0.17419	-0.12242	0.083638	0.535285	0.126229	0.208824
CNBP	0.099165	0.145882	-0.24766	0.212034	0.463005	0.283357	0.063254	0.113325	0.081093	0.342088	-0.07476	0.276154	0.703933	0.990017	0.312759	0.968396
ZNF10	0.119968	0.15256	-0.01201	0.087772	0.374065	0.261654	0.929374	0.516184	0.316159	0.052935	0.171466	-0.02773	0.983844	0.636602	0.869965	0.427418
ZNF12	-0.12781	0.223167	-0.119	0.040346	0.347856	0.101472	0.382384	0.767814	-0.02303	0.142918	-0.05002	0.107979	0.439634	0.828312	0.372091	0.762474
ZNF14	0.13069	0.068816	-0.02514	0.114263	0.33255	0.614294	0.852724	0.397368	0.185658	-0.0853	0.092302	0.008005	0.891643	0.286492	0.72676	0.521053
ZNF708	0.026356	0.11555	0.080839	0.07062	0.845702	0.396414	0.549989	0.601666	0.148982	-0.0485	0.174209	-0.03258	0.838465	0.37446	0.873797	0.414896
ZNF16	-0.04395	0.237331	0.033508	-0.01055	0.74546	0.0782	0.804563	0.937944	-0.10561	0.241132	-0.10256	0.136061	0.244945	0.944721	0.253838	0.813588
ZNF17	0.001315	-0.01501	-0.13644	0.094476	0.992254	0.912542	0.311527	0.484526	0.109793	0.097932	-0.08534	0.064801	0.76619	0.741341	0.288629	0.665623

ZNF18	-0.01643	0.395913	-0.15444	0.005598	0.903427	0.002525	0.251346	0.967037	0.004141	0.38756	-0.14856	0.20649	0.510895	0.996106	0.165045	0.915717
ZNF19	-0.11398	-0.21019	0.078838	-0.34303	0.398555	0.119985	0.559938	0.008995	-0.22028	-0.44651	0.012145	-0.34889	0.070637	0.000934	0.531555	0.008742
ZNF20	-0.09156	-0.01526	-0.0452	-0.27654	0.498161	0.911097	0.738476	0.037309	-0.18755	-0.14378	-0.06679	-0.1568	0.105996	0.170223	0.331458	0.14902
ZNF182	-0.04476	0.123663	-0.0734	-0.15008	0.740966	0.363862	0.587421	0.265156	-0.05649	-0.07141	0.168487	0.049476	0.354618	0.318614	0.865718	0.627988
TMEM50B	-0.00358	0.108563	-0.07102	0.202158	0.978937	0.425774	0.599579	0.131538	0.128087	0.1461	0.042202	0.131596	0.801871	0.833687	0.608439	0.808331
ZNF22	0.13149	-0.0586	-0.04427	0.337505	0.329572	0.667901	0.743651	0.010244	0.237841	-0.06696	0.299942	0.122036	0.942171	0.331046	0.976042	0.787738
ZNF23	-0.11463	-0.0007	0.026744	-0.21939	0.395829	0.995893	0.843456	0.101071	-0.00429	-0.355	0.126245	-0.26912	0.488715	0.007742	0.7957	0.03526
ZNF24	0.027746	0.15008	-0.18108	0.082472	0.837666	0.269578	0.177653	0.541929	0.017026	0.288212	-0.10635	0.150498	0.544709	0.973955	0.243429	0.840942
ZNF26	-0.04881	0.244434	-0.13502	0.198849	0.718451	0.069436	0.316628	0.138108	0.039422	0.234022	-0.23977	0.119952	0.602612	0.941251	0.056324	0.786413
ZNF28	-0.07641	0.273187	-0.26322	0.062078	0.572138	0.041633	0.047896	0.646424	-0.07047	0.514438	-0.21145	0.391015	0.32082	0.999873	0.0816	0.996394
ZSCAN20	-0.14007	0.006301	-0.1811	-0.19494	0.298705	0.963237	0.177607	0.146191	-0.23401	0.173388	-0.32214	0.194084	0.05876	0.875415	0.015461	0.901899
MPPED1	-0.02551	-0.05589	0.114875	0.009482	0.85057	0.682444	0.394826	0.944191	-0.04769	0.041852	-0.09412	0.075525	0.376485	0.608789	0.26929	0.691058
ZNF32	0.07574	0.156524	-0.20557	0.290035	0.575504	0.249313	0.125009	0.028634	0.296386	0.26293	-0.01372	0.136542	0.977253	0.961253	0.464368	0.817224
ZNF33A	0.004215	0.141918	-0.0516	0.146508	0.975175	0.296784	0.703037	0.276821	0.075423	0.276109	0.012328	0.134568	0.69082	0.968374	0.532031	0.813704
ZNF33B	0.038907	0.214233	-0.03075	-0.04866	0.773852	0.112856	0.820355	0.719239	0.220278	0.102266	0.128267	-0.08729	0.929357	0.750571	0.799463	0.282025
ZNF35	-0.20213	0.157842	-0.24047	0.215334	0.131585	0.2453	0.071577	0.107692	0.024677	0.205734	-0.24286	0.069812	0.564657	0.914918	0.053977	0.677608
ZKSCAN1	-0.14255	0.114292	-0.08785	-0.1501	0.290164	0.401614	0.515804	0.265088	0.081142	0.01888	-0.00826	-0.0733	0.704046	0.549555	0.478525	0.314147
ZNF37A	0.212014	0.168671	-0.04114	0.033419	0.113361	0.213988	0.761253	0.805073	0.295057	0.116654	0.003662	-0.13149	0.976741	0.779958	0.509523	0.191862
ZSCAN21	0.119019	-0.12174	0.138158	-0.43211	0.377882	0.371438	0.305416	0.000789	0.242985	-0.57853	0.24535	-0.42304	0.948146	1.27E-05	0.947864	0.0017
CA1	-0.06873	-0.49525	0.126113	-0.20837	0.614737	0.000121	0.35436	0.123286	0.030459	-0.55442	0.037352	-0.44505	0.57872	3.88E-05	0.595112	0.001095
ZNF41	0.302786	0.120659	0.08904	-0.10236	0.022058	0.375722	0.510117	0.448668	0.174751	0.2073	-0.0611	-0.03304	0.877294	0.916568	0.345055	0.413713
MZF1	-0.07652	-0.28687	0.245503	-0.22755	0.571565	0.032064	0.065662	0.088689	-0.05324	-0.37931	0.03706	-0.38575	0.362643	0.004665	0.59549	0.004053
ZNF43	0.101513	0.143991	-0.08874	0.085706	0.452429	0.28971	0.511553	0.526149	0.158463	0.301626	0.055672	0.296522	0.853563	0.979182	0.641784	0.977305
ZNF45	0.056813	0.171367	-0.22891	-0.02905	0.674656	0.206649	0.086755	0.830165	0.066311	0.363213	0.082131	0.148442	0.669251	0.99345	0.704144	0.837577
ZBTB25	-0.07899	-0.07335	-0.14908	0.048341	0.559199	0.59109	0.26837	0.721026	-0.07503	-0.21538	0.061719	-0.22622	0.310108	0.07529	0.656436	0.065301
CA2	0.237129	-0.35402	0.175685	-0.05197	0.075725	0.007433	0.191145	0.701044	0.32409	-0.48946	0.270501	-0.39319	0.986	0.000278	0.963846	0.003434
CA3	-0.02279	-0.02308	0.282586	-0.14054	0.867614	0.86716	0.034841	0.301529	0.183883	-0.43698	0.266103	-0.30486	0.889391	0.001197	0.961373	0.019694
ZNF66	0.073028	0.102348	0.054815	0.160679	0.589295	0.452893	0.685494	0.232476	0.069374	0.047649	-0.0806	0.011615	0.676566	0.623413	0.299341	0.530534
CA4	0.075016	-0.11179	0.334275	-0.24579	0.579171	0.41206	0.011042	0.065339	0.139163	-0.38679	0.27015	-0.37284	0.821833	0.003961	0.963654	0.005358
ZNF69	-0.10626	-0.06513	0.171132	-0.2134	0.431475	0.63342	0.203086	0.11096	0.051381	-0.62251	0.23156	-0.37412	0.63274	1.93E-06	0.937057	0.005214
ZNF70	-0.02688	-0.24289	0.157031	-0.09937	0.842695	0.071271	0.243394	0.462093	0.084878	-0.28831	0.097738	-0.10144	0.712547	0.026002	0.7385	0.251175
ZNF74	-0.02947	0.060837	0.164546	-0.07312	0.827738	0.656026	0.22128	0.588804	-0.01237	-0.003	-0.13612	-0.09656	0.467489	0.492106	0.186311	0.261605
ZNF75D	0.011095	0.225383	-0.08983	0.165177	0.934714	0.094892	0.506336	0.219491	0.041786	0.343777	-0.01301	0.098779	0.608622	0.990338	0.466206	0.743158
ZNF75A	-0.07829	0.033718	-0.17277	-0.12367	0.56268	0.805141	0.198723	0.359378	0.022219	0.080178	-0.1952	-0.07881	0.558263	0.701834	0.099394	0.301317
ZNF76	-0.02472	-0.0076	0.07422	-0.02647	0.855196	0.95566	0.583214	0.845046	-0.08401	-0.00055	-0.08933	-0.02572	0.291622	0.498578	0.282101	0.433404
CA5A	0.055203	-0.15019	0.262391	-0.13991	0.683381	0.26922	0.04863	0.299274	-0.09452	-0.13504	0.182147	-0.12009	0.266047	0.185444	0.884453	0.213323
ZNF79	-0.26703	1.13E-05	-0.19471	0.145688	0.044641	0.999934	0.14667	0.279547	-0.31061	0.037612	-0.15914	0.052624	0.017823	0.597997	0.148206	0.635828
ZNF80	-0.07244	0.025575	0.104574	-0.19045	0.592288	0.851584	0.438841	0.155899	0.20505	-0.30928	0.130357	-0.16668	0.91419	0.018241	0.80331	0.134115
ZNF84	0.007147	-0.04704	-0.09188	-0.11931	0.95792	0.730641	0.496685	0.376701	0.156423	-0.10738	0.002675	-0.20013	0.850393	0.238767	0.506958	0.091181
ZNF221	0.044062	0.167743	-0.18857	0.040182	0.744842	0.216554	0.160084	0.766647	0.071457	0.40072	-0.17869	0.307668	0.681504	0.997107	0.120115	0.981239
ZNF85	0.045206	-0.20997	0.164134	-0.12652	0.738451	0.120378	0.222457	0.348331	0.148433	-0.4673	0.124429	-0.26891	0.837561	0.00053	0.792285	0.035374
ZNF90	0.175086	-0.01734	-0.02799	0.083773	0.192686	0.899092	0.836288	0.535554	0.074927	0.084845	-0.11319	0.069515	0.689661	0.712473	0.229555	0.676903
ZNF91	-0.14271	0.202676	-0.1346	-0.14771	0.289586	0.134114	0.318178	0.272855	0.07181	0.02128	-0.0182	0.044093	0.682338	0.555817	0.452764	0.61446
CA6	0.105522	0.178203	0.115057	-0.2432	0.438925	0.193026	0.398446	0.070902	0.084659	0.142734	0.13259	-0.10154	0.709843	0.825195	0.804549	0.253445
CA7	-0.05862	-0.22746	0.100239	-0.1633	0.664891	0.091801	0.458153	0.224851	0.088732	-0.36622	0.222871	-0.29714	0.721198	0.006156	0.929432	0.022461
CA8	0.215837	-0.28592	0.089684	0.011392	0.110123	0.03433	0.510974	0.933588	0.04411	-0.17917	-0.01497	-0.18463	0.613216	0.119467	0.461573	0.112341
ZNF222	-0.03335	0.109213	0.029084	0.159873	0.805461	0.422993	0.829955	0.23486	0.210035	-0.29949	0.209921	-0.24948	0.919394	0.021589	0.916828	0.047259
ZNF121	-0.0693	0.498336	-0.20855	0.201258	0.608491	9.29E-05	0.119509	0.133302	0.056864	0.474841	-0.08236	0.314353	0.646305	0.999572	0.29533	0.983316
SNORD113	0.229477	-0.26166	-0.00493	-0.00846	0.085956	0.05141	0.970965	0.95019	0.324842	-0.26334	0.237776	-0.14078	0.985268	0.04025	0.939932	0.178163
SNORD113	0.394966	-0.25546	0.142331	0.028895	0.002362	0.057399	0.290895	0.831045	0.455754	-0.17437	0.089874	-0.2168	0.999173	0.125988	0.7191	0.076285

SNORD114	0.232217	-0.19474	-0.03615	-0.11891	0.082175	0.150368	0.78947	0.378309	0.21723	-0.19472	0.112919	-0.23446	0.924128	0.099966	0.767242	0.060542
SNORD114	0.201336	-0.22747	0.083688	0.052944	0.136761	0.091798	0.539733	0.698363	0.293499	-0.15793	0.124553	-0.18516	0.974813	0.150063	0.789749	0.111674
SNORD114	-0.04533	-0.20587	-0.08068	-0.06958	0.737757	0.127962	0.550753	0.607016	0.077943	-0.36917	0.112455	-0.1962	0.694596	0.006286	0.766319	0.098225
SNORD114	0.174279	-0.24952	0.183343	-0.15062	0.198924	0.066182	0.176194	0.26784	-0.04061	-0.36927	0.15081	-0.33017	0.395561	0.006274	0.835756	0.013378
ZNF124	-0.00627	0.21852	-0.23849	0.113296	0.963431	0.108978	0.07672	0.405752	0.084291	0.208165	-0.1482	0.182533	0.711218	0.91747	0.165633	0.887657
CA9	0.000763	-0.22098	0.287021	-0.15901	0.995507	0.101702	0.030409	0.237442	0.110055	-0.44622	0.224986	-0.35593	0.766726	0.000941	0.931348	0.007597
MKRN3	0.043901	-0.15004	0.199567	-0.38121	0.745742	0.269705	0.136663	0.003438	0.051232	-0.37788	0.200337	-0.41074	0.632369	0.004811	0.9065	0.002288
RELL1	0.052445	0.0206	0.064473	0.253162	0.701072	0.88133	0.63687	0.059761	-0.0147	0.262408	0.015734	0.235946	0.461388	0.960946	0.540854	0.942787
PSAPL1	-0.14059	-0.06566	0.176689	-0.06578	0.296903	0.630678	0.18858	0.626866	0.061003	-0.26044	0.05397	-0.24083	0.656428	0.040223	0.637622	0.053452
ZNF131	0.038395	0.400704	-0.34502	0.257461	0.776752	0.002211	0.008579	0.05318	0.025408	0.537473	-0.23842	0.353961	0.565792	0.99993	0.059553	0.99147
ZNF132	-0.12101	-0.18974	-0.05375	-0.32814	0.374334	0.165296	0.694021	0.013551	-0.21726	-0.19196	-0.06867	-0.20271	0.073483	0.100617	0.327006	0.088339
ZNF133	0.071928	-0.05268	0.078077	-0.11142	0.594932	0.699791	0.563743	0.40931	0.381958	-0.26163	0.080246	-0.19703	0.995189	0.041275	0.697704	0.097265
ZNF134	0.042655	0.225861	-0.09927	0.191936	0.752724	0.094175	0.462532	0.152625	-0.00633	0.336051	-0.15979	0.358869	0.483358	0.988795	0.147208	0.992841
ZNF135	0.046496	-0.26749	0.139282	-0.32229	0.73126	0.046259	0.301461	0.014486	0.111197	-0.48264	0.088386	-0.35762	0.769046	0.000341	0.718152	0.007342
ZNF136	-0.05893	0.025393	-0.17277	0.196326	0.663263	0.852627	0.198734	0.143282	0.045667	-0.08637	0.024712	0.169279	0.618432	0.284088	0.564006	0.869631
ZNF137	0.044146	0.050544	-0.02585	0.095751	0.746648	0.714016	0.850003	0.482687	-0.11975	0.220153	-0.12322	0.23856	0.213988	0.929241	0.210008	0.944824
ZNF138	-0.11542	0.173444	-0.14417	-0.1148	0.392582	0.201117	0.284653	0.395124	0.062664	0.048589	0.06136	0.006281	0.660459	0.62577	0.655572	0.516523
ZNF140	0.028587	0.290732	-0.18634	0.182132	0.832818	0.029723	0.165192	0.175106	0.081717	0.475059	0.046462	0.395244	0.705361	0.999575	0.619082	0.996722
CA11	0.298558	-0.15362	0.266967	-0.08613	0.02408	0.258306	0.044696	0.524092	0.146924	-0.22473	0.250978	-0.14835	0.835063	0.066612	0.951841	0.162575
ZNF141	0.030756	0.176903	-0.1358	0.067339	0.820334	0.192138	0.31383	0.618695	0.170322	-0.11354	0.080856	0.062228	0.871116	0.226243	0.70125	0.659404
ZNF142	-0.05023	0.258161	-0.01317	0.026435	0.710605	0.054728	0.922548	0.845241	0.125065	0.238741	0.009282	0.054308	0.796207	0.944963	0.524128	0.640002
ZNF143	-0.03014	0.067376	-0.25709	0.118093	0.823882	0.62174	0.053533	0.381629	-0.15513	0.050351	-0.15997	0.017015	0.151633	0.630172	0.146923	0.544681
PCGF2	0.195357	-0.12898	0.242979	-0.02906	0.145307	0.343429	0.068575	0.830077	0.150358	-0.02111	0.07951	0.148606	0.840714	0.444619	0.698183	0.837846
ZBTB16	0.315324	-0.49462	0.268091	0.015097	0.016885	0.000107	0.043771	0.911249	0.463556	-0.567	0.330654	-0.48901	0.999412	1.99E-05	0.986739	0.000282
ZNF146	0.031445	0.395255	-0.23985	0.263866	0.816384	0.002571	0.072331	0.047332	0.160066	0.546172	-0.16877	0.428681	0.856021	0.999957	0.133882	0.998523
TRIM25	-0.14413	0.261882	-0.2776	0.332507	0.284766	0.051209	0.036557	0.0115	-0.14726	0.508371	-0.24822	0.427748	0.164383	0.999845	0.050079	0.998488
ZNF148	0.08205	0.170221	-0.2261	0.120817	0.544008	0.209746	0.090804	0.370666	0.023487	0.255885	0.002497	0.261871	0.561563	0.956959	0.506493	0.96063
ZBTB17	-0.10221	-0.06244	0.181209	0.032562	0.449302	0.647553	0.17734	0.809975	0.024736	-0.12714	-0.06208	-0.1213	0.564809	0.19989	0.342703	0.210973
CA12	-0.21169	0.476186	-0.35747	0.071804	0.113934	0.000208	0.006336	0.595571	0.086939	0.623842	-0.27739	0.181845	0.71719	0.999998	0.032532	0.886766
ZNF154	0.29897	-0.23337	0.334532	-0.00921	0.023876	0.083458	0.010976	0.945803	0.253001	-0.43804	0.064101	-0.27653	0.955098	0.001165	0.662149	0.031417
ZNF155	0.068453	0.140338	-0.20543	0.042851	0.61289	0.302248	0.125284	0.751626	0.106736	-0.05922	0.087174	-0.06446	0.759912	0.34793	0.715461	0.335203
ZNF157	-0.09743	-0.13707	0.072641	-0.29824	0.470922	0.313753	0.591278	0.024236	-0.22828	-0.40238	-0.03825	-0.43171	0.063517	0.002784	0.401507	0.001369
VEZF1	-0.00769	0.100057	-0.16091	-0.16199	0.954721	0.463123	0.231784	0.228634	0.10157	0.122631	-0.06852	0.036139	0.7491	0.791577	0.327362	0.59423
ZNF165	-0.06297	0.018367	0.113409	-0.13209	0.641689	0.893119	0.400929	0.327341	-0.31577	0.15298	-0.14376	0.065214	0.016269	0.844947	0.17306	0.666616
TRIM26	-0.06651	-0.00113	0.030362	0.220576	0.623037	0.993418	0.822602	0.09919	-0.12481	0.534475	-0.16211	0.178741	0.204282	0.999935	0.143681	0.882685
ZNF174	-0.27426	0.141387	-0.071	-0.10852	0.038973	0.298612	0.599707	0.421656	-0.00479	-0.2457	0.143195	-0.1616	0.487395	0.049892	0.825981	0.141648
ZNF175	-0.02774	0.190784	-0.14568	0.08767	0.837726	0.158991	0.279561	0.516672	0.150566	0.136888	0.171053	0.043403	0.841052	0.817837	0.869382	0.612717
CACNA1A	0.060274	0.029486	0.23685	-0.31093	0.656042	0.829202	0.07608	0.018567	-0.02146	-0.36261	0.201245	-0.26415	0.443707	0.006632	0.907515	0.038041
ZNF177	-0.01988	-0.22448	0.085741	-0.18359	0.883293	0.096252	0.525975	0.171624	0.157832	-0.41999	0.263799	-0.35753	0.852586	0.001832	0.960026	0.007355
RNF112	0.089052	-0.22542	0.38785	-0.09784	0.517928	0.101236	0.003436	0.477288	0.137042	-0.21984	0.19731	-0.12071	0.818109	0.07105	0.903056	0.212126
ZNF180	0.036525	0.092305	0.022882	0.297053	0.78736	0.498649	0.865837	0.024837	0.117608	0.178564	0.095001	0.257722	0.781836	0.88245	0.73262	0.958113
RNF113A	-0.04148	-0.20052	0.079275	-0.16369	0.759358	0.138392	0.557759	0.223737	-0.16959	-0.18372	-0.02072	-0.10359	0.129926	0.110819	0.446257	0.246635
ZNF184	0.071983	0.164855	-0.16867	-0.04097	0.594651	0.224685	0.209768	0.762213	0.069727	0.283309	-0.05626	0.085625	0.677406	0.971799	0.356791	0.714233
ZNF185	-0.06119	0.25148	-0.21191	-0.25304	0.654159	0.064015	0.1169	0.059884	-0.09179	0.53376	-0.2147	0.227254	0.272028	0.999933	0.078345	0.935599
CACNA1B	-0.1204	-0.13063	0.150141	-0.24644	0.372339	0.337247	0.264954	0.064601	0.011198	-0.24384	0.119729	-0.22874	0.52944	0.051231	0.7833	0.063127
ZNF187	0.045629	-0.0574	0.163919	0.085466	0.736088	0.674353	0.22307	0.527311	0.08832	-0.12627	0.143774	-0.05389	0.720279	0.201529	0.826964	0.361043
ZNF189	-0.11611	0.147731	-0.08923	0.134848	0.389714	0.277232	0.509193	0.317263	0.203961	0.233783	0.02151	0.161122	0.913023	0.941057	0.55577	0.857626
ZNF192	0.00492	0.170812	-0.07549	0.169079	0.971027	0.208144	0.576753	0.208641	0.104123	0.068098	-0.02893	0.095666	0.754474	0.673526	0.425193	0.736448
ZNF193	0.191418	0.069498	0.053877	0.086961	0.153757	0.610781	0.690601	0.520083	-0.00838	0.25159	0.048432	0.187252	0.477965	0.954166	0.623973	0.893638
ZNF195	-0.12744	0.306167	-0.11146	0.291817	0.344805	0.02174	0.409108	0.027627	-0.19397	0.518538	-0.2748	0.45192	0.098231	0.999889	0.033858	0.999192

CACNA1C	0.35963	-0.21753	0.30867	0.212162	0.006004	0.107301	0.019484	0.113104	0.264438	-0.33138	0.253412	-0.04916	0.962126	0.012236	0.953487	0.372793
ZMYM2	-0.03879	0.285621	-0.33514	0.123766	0.774504	0.032855	0.010823	0.359016	0.145944	0.281799	-0.11427	0.252061	0.833427	0.971106	0.227395	0.954478
ZNF200	0.025549	-0.1021	0.076937	0.049368	0.850371	0.454	0.569467	0.715345	0.119617	-0.01045	-0.16242	-0.03647	0.785762	0.472527	0.143208	0.404913
ZNF202	-0.06314	0.233979	-0.04599	0.192076	0.643889	0.085554	0.736444	0.156135	0.173565	0.054488	-0.22315	-0.02213	0.875659	0.640447	0.070311	0.44198
ZNF204	-0.08289	-0.08254	-0.08753	-0.26768	0.539863	0.545309	0.517363	0.044107	-0.03498	-0.24585	0.12581	-0.20602	0.408746	0.049788	0.794886	0.084779
ZNF205	0.022951	-0.14391	0.249755	-0.23999	0.865433	0.289992	0.060979	0.072152	0.057145	-0.24559	0.077339	-0.23383	0.646994	0.049968	0.693207	0.058904
ZNF207	-0.05737	0.300306	-0.25591	0.15384	0.671652	0.024526	0.054685	0.253224	0.120593	0.501061	-0.10339	0.323253	0.787655	0.999805	0.249559	0.985784
ZNF208	0.252318	-0.08092	0.115973	-0.01222	0.058289	0.553293	0.390295	0.928086	0.203563	-0.07677	0.147862	0.117178	0.912592	0.306053	0.833806	0.780991
CACNA1D	-0.11118	0.321625	-0.0745	-0.29985	0.414617	0.016645	0.585298	0.024756	-0.25293	0.248802	-0.02927	0.228296	0.044948	0.952278	0.424307	0.936494
ZNF213	0.158311	-0.20034	0.278872	-0.15613	0.239524	0.138753	0.035671	0.246145	-0.04181	-0.29001	0.217713	-0.27098	0.391317	0.025289	0.924593	0.034261
ZNF214	-0.10264	-0.12924	0.002667	-0.25895	0.447388	0.342453	0.984289	0.051773	-0.25856	-0.24545	0.041809	-0.13155	0.041367	0.050074	0.607454	0.19175
ZNF215	-0.04635	-0.00672	0.000842	0.386904	0.734452	0.961184	0.995088	0.003222	0.047177	0.393773	-0.05103	0.483791	0.620859	0.996278	0.37108	0.99962
ZFAND5	0.185716	0.082841	-0.08038	0.001673	0.166626	0.543857	0.552238	0.990147	0.498839	0.083035	0.179369	0.002042	0.999791	0.708367	0.880796	0.505372
ZNF217	-0.13282	0.185165	-0.28038	0.152292	0.324669	0.171862	0.034645	0.258088	-0.03617	0.467988	-0.04908	0.24606	0.405698	0.99948	0.374423	0.950363
ZNF223	0.01363	0.307043	-0.1261	0.089318	0.919845	0.021347	0.34995	0.508794	-0.26701	0.363879	-0.13276	0.248312	0.036418	0.993539	0.192328	0.95194
ZNF224	-0.05754	0.275336	-0.08918	0.146514	0.670718	0.039991	0.509446	0.276801	0.146312	0.168897	0.174307	0.110594	0.834042	0.869084	0.873932	0.767822
ZNF225	-0.22906	0.076342	-0.189	-0.04828	0.089483	0.5796	0.163007	0.723833	-0.04204	-0.17125	-0.05297	-0.10492	0.391964	0.130344	0.366365	0.24638
ZNF226	-0.0338	0.190653	-0.14783	0.058238	0.802907	0.159283	0.272478	0.666967	0.082254	0.138622	0.017121	0.106939	0.706588	0.820887	0.54444	0.76033
CACNA1E	0.053529	-0.11736	0.307224	0.046915	0.695191	0.393472	0.021267	0.731336	0.059222	-0.15232	0.036076	-0.21378	0.652085	0.156118	0.593001	0.076848
ZNF227	-0.03438	0.105278	-0.22831	0.142769	0.799558	0.439991	0.087607	0.2894	-0.00115	0.367495	-0.0976	0.259003	0.496966	0.994006	0.261787	0.958903
ZFP112	0.03793	0.159417	-0.21632	-0.17267	0.779387	0.24056	0.10605	0.198986	0.126613	0.189253	0.05269	0.005664	0.799119	0.896106	0.634482	0.514901
ZNF229	0.106992	0.057388	0.047284	-0.48902	0.428271	0.674402	0.726885	0.000113	0.195295	-0.33837	0.057626	-0.33216	0.903314	0.010722	0.646542	0.012058
ZNF230	0.023473	0.127835	0.035802	-0.05348	0.862402	0.347775	0.791476	0.692793	0.076454	-0.16191	-0.03405	-0.03349	0.693223	0.141179	0.412141	0.412577
ZNF232	-0.03792	0.000112	0.048796	-0.24353	0.783429	0.999358	0.723502	0.073182	-0.16808	-0.21463	0.00877	-0.33229	0.134872	0.078411	0.522528	0.012869
ZNF236	-0.03992	0.040334	-0.07656	-0.19916	0.768112	0.767885	0.57138	0.137482	-0.14043	-0.05231	0.066993	-0.11719	0.175972	0.364949	0.669034	0.218978
SLC30A1	0.041719	0.166821	-0.04943	0.252977	0.76015	0.223485	0.717538	0.059954	0.173384	0.154846	-0.12387	0.006982	0.875408	0.847914	0.20877	0.518365
CACNA1F	-0.03525	-0.14645	0.323722	-0.16315	0.794619	0.281456	0.014032	0.225284	-0.103	-0.39572	0.150394	-0.3655	0.250379	0.003566	0.835081	0.006775
SLC30A2	0.019757	-0.26964	0.209565	-0.19139	0.884023	0.044463	0.117687	0.153815	0.080335	-0.30008	0.198727	-0.28784	0.702195	0.021371	0.904679	0.026204
SLC30A3	-0.06564	-0.10858	0.270124	-0.09691	0.627568	0.425692	0.042138	0.473269	0.050395	-0.23503	0.170577	-0.20127	0.630283	0.057938	0.868706	0.089916
SLC30A4	0.217803	-0.00881	-0.00561	0.290355	0.10362	0.948609	0.966966	0.028452	0.341897	-0.06707	0.110303	-0.01917	0.98998	0.328926	0.764644	0.449693
ZP2	0.063453	-0.04802	0.211423	-0.21449	0.639126	0.725268	0.114393	0.109117	0.159805	-0.19718	0.085689	-0.18097	0.855623	0.094511	0.71215	0.11438
ZP3	-0.23829	-0.32651	-0.15266	-0.11836	0.074261	0.014048	0.256942	0.380541	-0.14832	0.205544	-0.10194	0.036019	0.162625	0.914717	0.252602	0.593923
MAP3K12	0.065776	-0.35136	0.210425	0.022112	0.630059	0.008529	0.119554	0.871496	0.075654	-0.20169	0.105359	0.010051	0.691358	0.089455	0.754526	0.526429
ZXDA	0.047009	-0.00429	0.150487	-0.08148	0.728409	0.974945	0.26384	0.546804	0.130604	-0.28902	0.218615	-0.25419	0.806517	0.025701	0.925456	0.044128
CACNA1S	-0.00011	-0.07274	0.233933	-0.29791	0.999337	0.594173	0.079874	0.024406	0.127115	-0.38676	0.109173	-0.34344	0.800058	0.003964	0.762351	0.009724
ZYX	0.249993	-0.0519	0.112186	0.326409	0.060725	0.704056	0.40606	0.013211	0.399605	0.035348	0.182036	-0.02859	0.997032	0.592203	0.884308	0.425199
LUZP1	0.20511	0.224733	-0.10224	0.232043	0.125877	0.095874	0.449193	0.08241	0.079821	0.47164	0.01919	0.457109	0.701014	0.999531	0.549785	0.999297
PRDM2	0.028596	0.157738	0.057713	-0.02746	0.832764	0.245615	0.669797	0.839315	0.009153	-0.03706	0.106164	0.044246	0.524071	0.403424	0.756188	0.614847
DDR1	-0.1149	0.055663	-0.02207	-0.11372	0.394735	0.683664	0.870573	0.399619	-0.18432	0.356109	-0.08666	0.042187	0.112739	0.991823	0.287958	0.608404
DNALI1	-0.14009	-0.20587	0.077333	-0.19816	0.298643	0.127968	0.567476	0.1395	-0.2043	-0.30537	0.111342	-0.17697	0.086614	0.019524	0.766741	0.119687
PTP4A1	0.143425	0.074112	-0.14027	0.101379	0.287167	0.587237	0.298023	0.453028	0.392506	0.071442	-0.01408	0.00198	0.996513	0.681468	0.463439	0.50521
LRP8	-0.01697	0.155062	0.066425	-0.20757	0.901208	0.258304	0.626677	0.124766	-0.17979	0.252578	-0.11101	0.198191	0.11592	0.95482	0.233926	0.90664
LAPTM5	-0.07052	-0.31418	-0.0234	0.573158	0.602169	0.018366	0.862835	3.17E-06	-0.22117	-0.12241	-0.04528	0.118936	0.069824	0.20884	0.383871	0.784435
FAM18A	0.120493	-0.10824	0.288999	0.009638	0.371959	0.427146	0.029234	0.943272	0.072821	-0.27602	0.049793	-0.14434	0.684722	0.03167	0.627343	0.169268
BSND	0.006977	-0.26558	0.181508	-0.3823	0.959299	0.050032	0.180637	0.003641	-0.07426	-0.45355	0.242124	-0.41503	0.31189	0.000774	0.945473	0.002065
CACNA2D1	0.231231	-0.03374	0.080834	0.335179	0.08352	0.805022	0.55001	0.010813	0.176492	0.098738	0.070679	0.289238	0.879667	0.74307	0.677731	0.974389
CSDE1	0.059475	0.253032	-0.23618	0.169798	0.660325	0.059897	0.076944	0.206684	0.098466	0.35327	-0.06871	0.280487	0.742489	0.991986	0.326892	0.970494
EVI5	-0.05536	0.068379	-0.14916	-0.07341	0.682543	0.616549	0.26814	0.587328	-0.07043	0.038673	-0.07644	0.023987	0.320933	0.600703	0.308871	0.562863
DAP3	-0.12032	0.233617	-0.36173	0.124997	0.377069	0.086053	0.006157	0.35867	-0.07048	0.446889	-0.21499	0.223797	0.320806	0.999075	0.078055	0.932559
CACNB1	0.167083	-0.24557	0.180968	-0.02622	0.214142	0.068106	0.177929	0.846498	0.183548	-0.01139	0.183138	-0.13097	0.886267	0.470412	0.882961	0.195565

NPHS2	0.228098	-0.24173	0.092094	-0.3554	0.093948	0.078233	0.503671	0.007752	0.046526	-0.29709	0.04193	-0.2667	0.619242	0.023747	0.606514	0.038285
CACNB2	0.393988	-0.15588	0.274469	0.120823	0.002661	0.25577	0.040647	0.375068	0.392816	-0.30635	0.28966	-0.04845	0.996537	0.019194	0.973198	0.374578
BTG2	0.299874	-0.23886	0.034559	0.073549	0.023435	0.076242	0.79856	0.586635	0.242178	0.113926	0.039791	0.056954	0.947552	0.774539	0.602383	0.646524
PXDN	0.179935	-0.14683	0.229559	0.263011	0.184507	0.284755	0.088768	0.050179	0.39619	-0.05361	0.176515	0.029273	0.996791	0.36173	0.876958	0.576567
CACNB3	-0.25032	-0.03329	-0.08119	-0.42517	0.060379	0.807572	0.54823	0.000978	-0.34545	-0.25226	-0.10992	-0.25127	0.010058	0.04729	0.238762	0.047959
ALMS1	-0.08807	-0.12133	0.048173	-0.25197	0.514755	0.37304	0.721957	0.058646	-0.14182	-0.34779	0.06695	-0.22226	0.173562	0.008933	0.668932	0.068829
GCS1	-0.01644	-0.07045	0.068323	0.142642	0.903408	0.605911	0.613566	0.289832	0.019793	0.212893	-0.08042	0.072929	0.55194	0.922271	0.299749	0.684975
RNF103	-0.02136	0.062484	-0.08582	0.007701	0.875818	0.65041	0.529395	0.955078	-0.03677	0.195817	-0.05373	0.076268	0.404156	0.90392	0.362954	0.692789
TUBA1A	-0.11138	-0.21294	0.046179	-0.09837	0.40947	0.11509	0.733027	0.466641	-0.25812	-0.18518	0.056841	-0.04341	0.041642	0.108961	0.644633	0.38727
PAX8	0.074562	-0.22554	0.192912	-0.29761	0.581476	0.094655	0.150511	0.024555	0.134115	-0.39992	0.162095	-0.41891	0.810119	0.003245	0.853424	0.002091
CACNB4	0.108291	-0.12747	0.100878	0.067429	0.431293	0.353693	0.463669	0.624742	0.245418	-0.27327	0.137249	-0.30336	0.949907	0.033067	0.815688	0.02021
IL1R2	-0.08869	0.174228	-0.27445	0.200863	0.511804	0.199057	0.038829	0.134081	-0.1808	0.583449	-0.26131	0.429169	0.114603	0.99999	0.041473	0.998541
MALL	0.195991	0.211536	0.06316	0.096241	0.147711	0.121054	0.643761	0.48044	-0.01806	0.573472	-0.22006	0.362547	0.452595	0.999984	0.073178	0.993359
CXCR4	0.123152	-0.24394	-0.00084	0.416579	0.365865	0.072691	0.995076	0.001405	-0.11371	-0.2467	-0.05686	-0.14531	0.228508	0.05116	0.356969	0.17045
FZD5	0.174919	0.255772	-0.05389	0.10963	0.193118	0.057088	0.690513	0.416906	0.174439	0.530221	-0.15563	0.32851	0.876866	0.999925	0.153669	0.987093
SCG2	-0.10512	0.22874	-0.09439	-0.32815	0.436459	0.089945	0.484943	0.012702	-0.25569	0.141847	0.072893	0.058216	0.043167	0.82648	0.68291	0.649621
CACNG1	-0.05814	-0.25033	0.266235	-0.24777	0.667514	0.062769	0.045308	0.063126	0.00665	-0.44271	0.214719	-0.22873	0.517492	0.001032	0.921675	0.063138
BRPF1	-0.14424	0.124255	-0.09593	0.137652	0.284422	0.361554	0.477782	0.307207	-0.14451	0.250419	-0.1762	0.108564	0.168983	0.95338	0.123472	0.763676
IFRD2	0.017559	0.113977	0.170836	0.112043	0.896851	0.402918	0.20388	0.406662	0.040464	0.363119	-0.19786	0.216907	0.605265	0.993437	0.096309	0.926184
MAPKAPK3	0.01598	-0.05969	-0.00475	0.042279	0.906947	0.665103	0.972279	0.757026	-0.03298	0.215559	-0.18273	-0.04052	0.413869	0.924887	0.114795	0.394604
SEMA3B	0.029063	0.052315	0.145095	-0.03282	0.830074	0.701777	0.28153	0.808515	0.375735	-0.25891	0.208989	-0.26947	0.994963	0.041156	0.915861	0.035069
SLMAP	0.120896	0.153891	-0.08223	0.044197	0.370351	0.257466	0.543109	0.744087	0.187071	-0.01024	0.066024	0.001701	0.893413	0.473067	0.666734	0.504476
ARMET	0.016885	0.182825	0.017335	0.281625	0.90079	0.177441	0.898161	0.033814	-0.0616	0.566946	-0.20701	0.475712	0.342128	0.99998	0.08622	0.999583
USP7	0.024088	0.326241	-0.26795	0.152261	0.858834	0.014134	0.043885	0.258187	-0.00211	0.523609	-0.15904	0.323351	0.494459	0.999906	0.148353	0.98581
RAB7A	-0.05021	0.235393	-0.3353	0.140533	0.710723	0.080737	0.010783	0.297096	-0.16702	0.444725	-0.21392	0.321784	0.133616	0.999021	0.079121	0.985399
SLC25A20	0.077196	0.028181	-0.21744	0.397519	0.568164	0.836658	0.104213	0.002199	-0.21011	0.296906	-0.25747	0.218907	0.082979	0.97618	0.045775	0.925735
KCNAB1	0.246373	-0.33505	0.249128	-0.26059	0.067185	0.012403	0.064089	0.052407	0.409721	-0.52939	0.231437	-0.48255	0.997656	7.75E-05	0.936954	0.000342
SLBP	-0.15671	0.310297	-0.0899	-0.18004	0.248751	0.021133	0.509934	0.184239	-0.22968	0.537579	-0.22585	0.294341	0.062332	0.999942	0.067877	0.976461
DUSP26	0.191962	-0.251	0.251619	-0.26091	0.156385	0.064539	0.061388	0.052108	0.183036	-0.28433	0.252749	-0.26546	0.888305	0.027739	0.953043	0.037292
CRELD1	-0.1555	-0.14427	0.184402	0.057542	0.252462	0.293308	0.173667	0.673576	0.121867	-0.16698	0.119483	-0.14173	0.790112	0.133682	0.782825	0.173717
MRP63	-0.15131	0.212464	-0.33341	-0.04334	0.261203	0.115931	0.011263	0.748902	0.102645	0.137094	0.007121	0.017018	0.75137	0.818201	0.518514	0.54469
COLEC11	0.020478	-0.062	0.252477	-0.16517	0.879823	0.649881	0.058126	0.219501	0.147817	-0.39395	0.280019	-0.32173	0.836544	0.003375	0.968771	0.014616
OTUB2	0.025596	0.033375	0.02146	0.026545	0.850094	0.807082	0.874105	0.844608	-0.10166	0.183382	-0.0875	0.066857	0.250701	0.88875	0.283812	0.670561
PCYOX1L	-0.23134	-0.06325	0.089828	-0.16142	0.083366	0.643297	0.506367	0.230308	-0.12906	-0.24673	0.153747	-0.30732	0.196331	0.049162	0.843358	0.018874
YIPF2	0.051651	-0.12446	0.187979	-0.07757	0.702777	0.360753	0.161427	0.566264	-0.004	-0.01352	-0.01436	-0.07256	0.489487	0.464464	0.462703	0.3159
PRR14	0.045523	-0.18376	0.210009	-0.04283	0.736681	0.175187	0.116894	0.751763	0.061822	-0.1833	0.016898	-0.07989	0.658417	0.111358	0.543864	0.298823
C17orf53	-0.02456	0.022264	0.043144	-0.22074	0.857394	0.871826	0.75221	0.102078	-0.02108	0.160791	0.015373	-0.02058	0.444708	0.857124	0.539919	0.445997
C7orf49	0.077458	0.206668	-0.04878	0.249402	0.566848	0.126455	0.718608	0.061357	0.026949	0.500244	-0.15247	0.300762	0.570553	0.9998	0.158691	0.978874
GDAP1L1	-0.00751	-0.12031	0.202324	-0.30943	0.95577	0.377096	0.131214	0.019173	0.087399	-0.36249	0.219705	-0.31248	0.718221	0.006649	0.92649	0.017244
C8orf51	-0.21409	-0.24077	0.152194	-0.27622	0.109788	0.073851	0.258399	0.037541	-0.23989	-0.42944	0.099408	-0.33605	0.054161	0.00145	0.742055	0.011206
LRFN4	0.038001	-0.05761	0.214596	-0.14068	0.778984	0.673196	0.108933	0.296573	0.076622	-0.21837	0.136814	-0.21534	0.693614	0.07243	0.81492	0.075321
CAD	0.013921	0.103131	-0.02834	0.163753	0.918137	0.449424	0.834236	0.223547	-0.03434	0.565275	-0.27694	0.302271	0.410395	0.999979	0.032758	0.97941
C1orf135	0.118607	0.248566	-0.12157	-0.12888	0.383954	0.067263	0.372116	0.343812	-0.16746	0.300229	-0.1868	0.113552	0.132987	0.978681	0.109591	0.773789
VKORC1	0.336974	-0.26934	0.140374	0.288693	0.010372	0.044714	0.29765	0.029413	0.428515	-0.09769	-0.01996	-0.01228	0.998517	0.259186	0.448232	0.467716
C19orf43	-0.05763	-0.02932	-0.08678	-0.02469	0.670254	0.830168	0.520956	0.855327	-0.00452	0.097141	-0.1579	0.090609	0.488118	0.739639	0.150112	0.725367
MIS12	-0.10617	0.248797	-0.21976	0.145098	0.431865	0.064454	0.100479	0.281522	-0.11568	0.366762	-0.09223	0.251871	0.221973	0.993913	0.273395	0.954352
CUEDC2	-0.10221	-0.10041	0.039714	0.028235	0.449333	0.461556	0.769287	0.834846	-0.01569	0.023206	-0.0975	-0.08417	0.458796	0.560832	0.262019	0.289063
SCNM1	-0.07695	0.074571	-0.16356	-0.15347	0.569409	0.584918	0.22411	0.254368	-0.06001	0.17202	0.257954	0.150446	0.345982	0.873508	0.956441	0.840858
METRNL	-0.05811	-0.12398	0.197727	-0.24713	0.667641	0.362624	0.140391	0.063839	0.039449	-0.60492	0.196449	-0.53551	0.601522	5.38E-06	0.899389	7.52E-05
DBNDD1	-0.00569	-0.05071	0.234707	-0.14914	0.96649	0.710522	0.078854	0.268198	0.245877	-0.53171	0.188387	-0.43723	0.948246	8.54E-05	0.889645	0.001335

DDX50	0.028522	0.143803	-0.20326	0.186135	0.833191	0.290346	0.129401	0.165655	0.018838	0.217782	-0.10497	0.157842	0.549446	0.927018	0.246271	0.852603
CAMKV	-0.13324	-0.09733	0.1394	-0.24564	0.323107	0.475479	0.301046	0.065505	0.059695	-0.4838	0.25139	-0.29818	0.653238	0.000329	0.952123	0.02207
DDA1	-0.22191	0.020178	0.026081	-0.07932	0.097108	0.88265	0.847291	0.557545	-0.03603	-0.09352	-0.05999	-0.09592	0.406047	0.268232	0.347741	0.263009
GGCT	-0.11006	0.508682	-0.30934	-0.00535	0.41939	7.33E-05	0.020345	0.968781	-0.15524	0.532616	-0.21653	0.370706	0.151458	0.999931	0.076547	0.994396
C17orf39	0.212586	0.055708	0.07318	0.099817	0.112368	0.683427	0.588521	0.460054	0.152101	-0.11427	0.039108	-0.02521	0.843535	0.224765	0.600661	0.433952
CENPM	-0.20738	0.05895	-0.00478	-0.19168	0.121644	0.666058	0.971833	0.15318	-0.23563	0.064052	-0.08728	0.015953	0.05746	0.663817	0.284306	0.541903
C7orf25	-0.0513	0.301881	-0.15632	0.173042	0.704726	0.02375	0.24555	0.198015	0.149518	0.242458	-0.13287	0.245547	0.839343	0.947759	0.19212	0.949999
TMEM106C	0.326782	0.113473	-0.09512	-0.12265	0.014889	0.413937	0.489715	0.372351	0.134292	0.523293	-0.14007	0.410807	0.81321	0.999905	0.179388	0.997715
NUP37	0.00241	0.228845	-0.29546	0.05328	0.985802	0.089794	0.025658	0.693859	-0.27261	0.561994	-0.19582	0.452629	0.033407	0.999976	0.098671	0.999207
C20orf195	-0.12056	-0.29531	0.260662	-0.26906	0.371684	0.027136	0.050188	0.042989	0.028333	-0.47082	0.209257	-0.3306	0.574136	0.00048	0.91614	0.012414
AHNAK	0.152341	0.133391	-0.212	0.131304	0.257935	0.327047	0.113383	0.330264	0.191238	0.352044	-0.03536	0.163149	0.898515	0.991788	0.408807	0.860675
ZNF655	-0.11171	0.495667	-0.22322	0.213113	0.408046	0.000103	0.095107	0.111459	0.099883	0.557512	-0.20189	0.348074	0.745517	0.999971	0.091769	0.991116
SPATA5L1	-0.08641	0.141909	-0.12585	0.144877	0.526581	0.301373	0.355366	0.286722	-0.1453	0.416551	-0.16731	0.141731	0.167646	0.998009	0.135991	0.826279
ST8SIA4	-0.18026	0.41413	-0.32543	0.103799	0.179664	0.001509	0.013506	0.442259	-0.2784	0.47344	-0.11989	0.432236	0.030504	0.999555	0.216396	0.998649
PDCL3	0.127963	0.011367	-0.19266	-0.06848	0.342824	0.933736	0.151046	0.61276	-0.11223	0.315129	-0.03756	0.240216	0.228857	0.983545	0.403244	0.946086
ERI3	-0.11189	-0.0339	-0.13901	-0.1533	0.411624	0.805924	0.306876	0.259311	-0.26647	0.219123	-0.17987	0.140474	0.036724	0.928282	0.118543	0.824111
C7orf26	-0.18686	-0.05466	-0.0393	0.150101	0.167895	0.691831	0.773677	0.269511	-0.21088	0.161689	-0.24242	0.090748	0.07975	0.858484	0.054302	0.725674
OBFC2B	0.176531	-0.02064	-0.05044	-0.11685	0.188981	0.879991	0.709412	0.386694	0.049138	0.342731	0.077561	0.324672	0.627142	0.990141	0.693718	0.986148
C19orf50	-0.17503	-0.10033	0.050911	-0.04987	0.192843	0.461896	0.706842	0.712559	-0.22087	0.03772	-0.03549	-0.02798	0.070099	0.598271	0.408489	0.426784
PVRIG	-0.22908	0.068881	0.095976	0.128448	0.086515	0.613956	0.477587	0.340979	-0.1293	-0.03998	0.195626	0.015924	0.195875	0.395963	0.901102	0.541826
ZFYVE21	0.118861	0.049242	-0.05349	0.04772	0.378519	0.718546	0.692703	0.724464	0.114614	0.270333	-0.13816	0.174055	0.775913	0.965393	0.182718	0.876337
DDX54	-0.00051	0.118357	0.093815	-0.05339	0.997024	0.384966	0.487602	0.693241	0.088041	0.320628	0.006075	0.063557	0.717387	0.984118	0.51561	0.660846
TMEM38A	0.072181	-0.04496	0.187732	-0.12631	0.593631	0.742154	0.161988	0.349137	0.11395	-0.26083	0.096015	-0.249	0.774586	0.039992	0.734806	0.047587
TSEN34	-0.11953	-0.21846	0.129921	-0.05245	0.37583	0.105763	0.335426	0.698384	-0.07403	-0.17658	-0.0134	-0.10569	0.312449	0.120214	0.4652	0.242264
KCTD15	0.191648	0.159598	0.14274	-0.01737	0.153255	0.240021	0.289498	0.897975	0.13169	0.154914	0.042686	0.115031	0.808504	0.848021	0.609654	0.776742
SECISBP2	-0.11492	0.237055	-0.16239	0.095567	0.394653	0.078557	0.22747	0.479474	0.173863	0.134243	-0.01958	0.008376	0.876072	0.813122	0.449207	0.522029
REEP5	0.187517	0.190442	-0.01103	0.171078	0.16248	0.159755	0.935114	0.20323	-0.10226	0.451065	-0.29048	0.413733	0.251932	0.999064	0.027884	0.997637
NOC4L	-0.07139	0.118434	-0.00161	-0.04476	0.597717	0.384654	0.990525	0.740958	-0.16133	0.298162	-0.23839	0.049282	0.142054	0.977923	0.057394	0.627503
ALG8	0.08238	0.241282	-0.20121	0.176254	0.542383	0.073224	0.133405	0.189687	-0.09639	0.481444	-0.23576	0.356176	0.261973	0.999647	0.059489	0.99244
TRPM8	0.184073	-0.26332	0.276903	-0.33688	0.174449	0.052092	0.038828	0.011124	0.110357	-0.333	0.290781	-0.22993	0.767339	0.011869	0.973678	0.062123
PRRG4	-0.02554	0.335822	-0.14245	-0.14066	0.85318	0.012191	0.29951	0.305699	-0.30478	0.624396	-0.36756	0.312526	0.019723	0.999998	0.006497	0.982768
PRRG3	0.022999	-0.23488	0.130582	-0.03778	0.865157	0.081423	0.332953	0.78025	-0.05988	-0.21214	-0.00631	-0.12972	0.346313	0.078478	0.483597	0.195115
ASPSCR1	-0.01178	-0.09381	0.262042	-0.09107	0.931308	0.495712	0.051062	0.504434	0.00208	-0.15208	0.044388	-0.11099	0.505472	0.156492	0.61391	0.231371
TMEM223	-0.14043	0.069181	0.002952	-0.05157	0.29747	0.612412	0.982612	0.703238	-0.07727	0.195609	-0.21016	-0.01862	0.304883	0.903679	0.082921	0.451137
ATG9A	0.045463	0.097863	-0.05879	0.055703	0.737018	0.473035	0.663997	0.68067	-0.00546	0.36985	-0.0945	0.138246	0.485628	0.994294	0.26847	0.820228
METT10D	-0.00801	0.133691	-0.24903	-0.0778	0.952846	0.325949	0.061756	0.565123	-0.0239	0.182872	-0.13307	-0.03494	0.43736	0.888094	0.191768	0.408837
FTO	0.138917	-0.17036	0.01886	-0.08933	0.302741	0.209361	0.889254	0.508715	-0.05503	-0.06516	-0.01799	-0.03246	0.358211	0.333518	0.453315	0.415218
KDELC1	0.298353	-0.01365	0.054272	0.338365	0.025519	0.921218	0.691173	0.01075	0.020781	0.145618	-0.06473	0.406339	0.554516	0.832879	0.33634	0.997461
ELOVL6	-0.03694	0.289081	-0.28744	-0.3719	0.788915	0.033998	0.033344	0.005177	-0.06152	0.499613	-0.02938	0.254466	0.344053	0.999762	0.424927	0.954186
FASTKD3	-0.06668	0.257233	-0.2019	0.210366	0.622163	0.055635	0.132048	0.116259	0.081602	0.414137	-0.11584	0.217593	0.705097	0.99789	0.224303	0.926839
TMEM109	0.327104	0.121282	-0.01595	0.34731	0.013866	0.377746	0.907102	0.008726	0.163709	0.423431	0.050942	0.43333	0.86151	0.998317	0.630181	0.998686
C2orf49	-0.06909	0.293376	-0.19989	-0.10688	0.6096	0.028203	0.136019	0.428762	-0.11128	0.370895	-0.12069	0.251451	0.230785	0.994418	0.214849	0.954073
DSCC1	0.010022	0.167135	-0.21769	0.112912	0.941021	0.21825	0.103809	0.403008	-0.0236	0.312487	-0.16451	0.165842	0.438135	0.982756	0.140097	0.864659
DCTPP1	-0.1649	0.393473	-0.11111	0.259777	0.220265	0.002699	0.410588	0.051001	-0.04397	0.501529	-0.18009	0.423022	0.385856	0.999808	0.118244	0.9983
C1orf50	-0.23524	0.150137	-0.11401	0.134542	0.078151	0.269396	0.398412	0.318371	-0.15962	0.241938	-0.21226	0.148022	0.144666	0.947374	0.080781	0.836882
CCDC86	-0.007	-0.08889	0.196712	0.008819	0.958782	0.514752	0.142482	0.948088	0.034653	0.081431	0.007029	-0.00422	0.590422	0.704707	0.518276	0.48891
C11orf48	-0.45159	0.030385	-0.06571	-0.24427	0.000422	0.82408	0.627204	0.067071	-0.40688	-0.08281	-0.02326	0.09217	0.002507	0.29215	0.439736	0.728812
MLPH	-0.0998	-0.01963	0.123798	-0.24853	0.460117	0.885821	0.35889	0.062295	-0.08353	-0.1495	-0.01936	-0.32151	0.290497	0.160689	0.449777	0.014674
WDR77	-0.09869	0.261407	-0.17427	0.159469	0.465141	0.051648	0.194799	0.236059	-0.12959	0.473763	-0.22623	0.270189	0.195349	0.999559	0.06754	0.965316
SLC25A23	-0.02908	0.140977	-0.07384	-0.13972	0.830002	0.300031	0.585168	0.299928	-0.11715	0.337583	-0.22782	0.002449	0.219057	0.989116	0.066146	0.506443

C19orf42	0.023051	0.123553	-0.22944	0.230888	0.866089	0.368814	0.088936	0.086886	-0.12401	0.412178	-0.31595	0.285814	0.205784	0.997789	0.017245	0.972918
ALG12	0.06946	0.030369	0.09625	0.107542	0.60766	0.824168	0.476322	0.425886	0.051189	0.351997	-0.12774	0.179398	0.632262	0.99178	0.201506	0.883557
ZNF426	0.108864	0.244711	-0.1983	0.011973	0.420187	0.069112	0.139227	0.929565	-0.15601	0.439745	-0.19095	0.290895	0.150247	0.998885	0.104464	0.975077
TMUB2	0.024983	0.312167	0.060535	-0.02651	0.854982	0.020328	0.657628	0.846228	0.186168	0.332417	0.076701	5.96E-05	0.889609	0.987161	0.689651	0.500155
TRAPPC6A	-0.1131	-0.01714	0.037852	0.000589	0.406565	0.901152	0.781804	0.996565	-0.17638	0.109349	0.064618	-0.04774	0.12323	0.762708	0.661559	0.377732
C16orf68	-0.10569	0.168683	0.017623	-0.03662	0.433944	0.213953	0.896477	0.7868	0.151172	0.049504	-0.17387	-0.19221	0.842035	0.628059	0.126677	0.100316
CARD14	0.050228	-0.10765	0.163935	-0.25212	0.710602	0.429705	0.223025	0.058495	0.01159	-0.10523	0.056995	-0.22719	0.530116	0.24574	0.643367	0.066699
CHAC1	-0.11491	-0.16325	0.269404	0.06682	0.394692	0.229299	0.04271	0.621407	-0.01588	-0.44608	0.059216	-0.3352	0.458293	0.000945	0.650398	0.011388
C9orf16	0.021565	-0.12141	0.132399	-0.14317	0.873492	0.372741	0.326209	0.288016	0.043371	-0.18744	-0.03045	-0.22071	0.612637	0.106131	0.4213	0.070244
C11orf83	-0.00856	-0.11312	0.139228	-0.17323	0.949609	0.406491	0.30165	0.197515	-0.00669	-0.23475	0.103011	-0.19343	0.482394	0.058164	0.749643	0.098869
C11orf49	-0.13953	-0.01268	-0.09783	-0.3385	0.300609	0.926102	0.469103	0.010008	-0.33258	-0.01833	-0.01789	-0.08411	0.011964	0.451893	0.453572	0.289183
TRIM48	0.06691	-0.3024	0.220432	-0.06875	0.620936	0.023498	0.099416	0.611371	-0.05321	-0.40729	0.098461	-0.30057	0.362716	0.002482	0.740041	0.021197
C1orf116	-0.06926	0.362758	-0.08394	-0.20321	0.612023	0.006491	0.538498	0.133077	-0.03954	0.587981	-0.24554	0.131006	0.397074	0.999991	0.051997	0.807254
TAF1D	-0.15272	0.373101	-0.16322	0.210812	0.256746	0.004624	0.225069	0.115469	0.150004	0.355688	-0.09553	0.273336	0.840137	0.992365	0.266236	0.966969
RNF26	-0.0579	0.177108	-0.00183	-0.10907	0.668807	0.191615	0.989224	0.419323	-0.20007	0.668065	-0.30129	0.30428	0.091244	1	0.022149	0.980107
MAPKAP1	0.009391	0.36531	-0.14082	0.110017	0.944724	0.005632	0.296084	0.415253	-0.00681	0.429288	-0.07857	0.299936	0.482099	0.998545	0.303966	0.978575
LOC79112C	0.062099	-0.1322	0.228512	-0.13837	0.646311	0.331432	0.08732	0.304655	0.205215	-0.35927	0.119361	-0.37429	0.914366	0.0071	0.782589	0.005195
DEK	0.043337	0.184627	-0.27178	0.099281	0.748902	0.173134	0.040845	0.462479	0.179878	0.330245	0.021479	0.242326	0.884191	0.987503	0.55569	0.947662
DHX58	-0.25838	-0.15623	0.021278	0.086892	0.054517	0.254704	0.876304	0.524268	-0.05266	-0.03662	-0.01076	0.04087	0.364087	0.404538	0.472036	0.606295
C20orf7	-0.04457	0.282078	-0.14912	-0.00638	0.74202	0.035183	0.268267	0.962418	-0.06815	0.386629	-0.16189	0.197743	0.328219	0.995648	0.146887	0.903554
TMEM185E	0.067009	-0.04539	-0.00078	0.427239	0.620418	0.739747	0.995423	0.000918	-0.13202	0.521557	-0.22411	0.462234	0.190896	0.999899	0.069443	0.99939
APOO	-0.17372	0.021289	-0.21806	-0.1688	0.196232	0.876238	0.103196	0.209407	-0.38069	0.065607	-0.12052	0.136101	0.004527	0.667561	0.215177	0.816442
LY6G6E	-0.02121	0.188099	0.162583	-0.23795	0.875586	0.16505	0.226917	0.074682	0.179708	-0.0301	0.024572	-0.23302	0.883967	0.421304	0.563646	0.059561
FAM134A	-0.0392	0.105989	-0.09533	0.063764	0.774232	0.441207	0.484619	0.640584	-0.10023	0.283601	-0.11779	0.019154	0.253741	0.971931	0.220473	0.550272
DERL1	0.039415	0.161287	-0.19538	0.429422	0.770978	0.235018	0.145266	0.000858	-0.05595	0.49505	-0.21767	0.446388	0.355941	0.999765	0.075445	0.999063
CCDC28B	-0.01756	-0.0218	0.237629	-0.22134	0.896831	0.873298	0.075092	0.097989	-0.02282	-0.21729	0.320246	-0.21038	0.440173	0.073445	0.98401	0.08025
PHF23	-0.12366	-0.11872	0.003827	0.027257	0.359418	0.383511	0.977461	0.840495	0.11248	-0.19034	-0.09724	-0.05484	0.771638	0.102565	0.262556	0.358686
MBOAT7	-0.08742	-0.0065	-0.02311	-0.11011	0.521737	0.962428	0.865743	0.419165	-0.14825	-0.02501	0.09094	-0.20523	0.165558	0.435223	0.721425	0.088118
C20orf149	-0.00134	0.011024	0.130931	-0.24735	0.992077	0.93573	0.331651	0.063595	-0.04551	0.046326	-0.10816	-0.23571	0.381961	0.620089	0.239721	0.057403
CHCHD7	0.014679	0.06332	0.020893	0.337304	0.913698	0.642921	0.877403	0.010292	0.153872	-0.08503	0.157732	0.043474	0.84637	0.287118	0.849624	0.612897
FKRP	-0.03292	0.006622	0.238951	-0.10767	0.807933	0.961369	0.073438	0.425315	0.089877	-0.1903	0.02225	-0.24591	0.723745	0.10262	0.557673	0.049741
MMP28	-0.00413	0.041041	0.024382	-0.19536	0.975665	0.76393	0.857127	0.145292	0.213871	0.193913	0.098388	-0.06646	0.923238	0.901698	0.739887	0.330393
ZSCAN5A	-0.16435	-0.03355	-0.03851	-0.15518	0.22613	0.807901	0.778091	0.253463	-0.31774	-0.13003	-0.04247	-0.17078	0.015706	0.194541	0.390889	0.128236
ALDH5A1	-0.02418	0.155947	-0.09582	-0.12052	0.8583	0.251086	0.478313	0.371861	-0.24464	0.023126	-0.0008	0.03844	0.050648	0.560624	0.497931	0.600111
FA2H	-0.08786	0.257077	-0.11718	-0.31726	0.515784	0.055789	0.385358	0.016187	-0.16842	0.442423	-0.21494	0.171162	0.131598	0.99896	0.078112	0.872303
GDPD3	-0.05288	-0.13798	-0.01182	-0.13477	0.698697	0.315081	0.931127	0.322009	-0.1783	0.279623	-0.15762	0.100983	0.117902	0.970085	0.150547	0.747856
DHRS11	-0.03142	0.04192	-0.05644	-0.16823	0.81653	0.759025	0.67667	0.210972	-0.22947	0.412388	-0.25177	0.122655	0.062511	0.9978	0.047616	0.791623
TNIP2	-0.09202	0.018896	-0.02746	0.09219	0.495995	0.89006	0.839343	0.495205	-0.11198	0.287626	-0.15203	0.129236	0.229369	0.973705	0.159388	0.804
PLEKHF1	-0.01834	-0.1017	0.229278	0.362635	0.892265	0.455754	0.086235	0.005567	0.203533	-0.03448	0.145818	0.115357	0.912559	0.410011	0.830406	0.777392
MFSD11	0.07189	0.133132	-0.19579	0.220379	0.595126	0.327994	0.144406	0.0995	-0.25299	0.447803	-0.21486	0.339525	0.044907	0.999098	0.078188	0.989513
GNPTAB	0.11797	0.074405	-0.16113	0.455932	0.382128	0.585759	0.231152	0.000365	-0.08769	0.427172	-0.09308	0.439287	0.281137	0.998466	0.271545	0.998872
NOL12	-0.00095	0.224841	-0.00793	-0.09277	0.994411	0.095711	0.953288	0.492491	0.079405	0.304524	-0.08531	0.098548	0.697943	0.97902	0.288692	0.740228
BAT2	0.049182	0.017491	0.054011	0.010317	0.716374	0.898192	0.689872	0.939287	0.034865	0.26756	-0.04253	0.17962	0.590965	0.963885	0.390742	0.88385
MGC4294	-0.02228	-0.11161	0.234093	-0.14983	0.869311	0.412816	0.079662	0.265963	0.235197	-0.42619	0.261254	-0.34711	0.942192	0.001572	0.958495	0.009052
C7orf23	0.040939	0.061396	-0.0018	0.276178	0.762375	0.653063	0.989392	0.037568	0.185193	0.082032	0.099733	0.257574	0.891056	0.70608	0.742744	0.958021
LENG1	-0.29205	-0.11267	0.034421	-0.20991	0.027495	0.40838	0.79935	0.117062	-0.14376	-0.30983	-0.00975	-0.22473	0.170258	0.018066	0.47466	0.066613
LILRP2	-0.0038	-0.20214	0.181366	-0.17896	0.977843	0.138882	0.180984	0.186929	-0.03737	-0.25094	-0.01726	-0.22741	0.402619	0.046271	0.455201	0.064264
LILRA6	0.069551	-0.1233	0.168489	0.000578	0.607188	0.365301	0.210256	0.996597	0.012052	-0.39016	0.05515	-0.15686	0.53168	0.003676	0.64051	0.148917
C1orf35	-0.10932	-0.09076	0.169305	-0.16696	0.418246	0.505887	0.208023	0.21448	0.077991	-0.19941	0.10102	-0.28492	0.696789	0.091987	0.745466	0.027476
BAT3	-0.12815	0.055794	-0.06487	0.099351	0.346593	0.68578	0.634808	0.466302	-0.25672	0.297308	-0.20045	0.171848	0.042513	0.977602	0.093377	0.873267

ATAD4	-0.16811	-0.12533	0.075505	-0.22264	0.211307	0.357395	0.576695	0.095995	-0.17973	-0.29613	-0.10744	-0.49003	0.116004	0.022845	0.241189	0.000273
RBM42	-0.04602	-0.12106	-0.04642	-0.07457	0.733889	0.374122	0.731682	0.58144	-0.24098	0.131356	0.119662	0.043579	0.055396	0.805133	0.780441	0.611889
CENPO	-0.31998	0.320134	-0.23638	0.078415	0.016212	0.017185	0.079438	0.565659	-0.32803	0.587609	-0.34567	0.375629	0.013021	0.999991	0.010016	0.994952
C19orf57	-0.11884	0.010427	0.046422	-0.16993	0.378605	0.939202	0.731676	0.206322	0.141447	-0.07092	-0.00017	-0.1751	0.825791	0.319763	0.499569	0.122223
CRELD2	-0.21855	-0.08519	0.102777	0.185082	0.105619	0.532433	0.45099	0.172057	-0.03664	0.05502	-0.0414	-0.01297	0.405575	0.640192	0.394799	0.466297
ZNF343	0.079863	0.146063	-0.01358	0.083845	0.554827	0.282754	0.920152	0.5352	0.067747	0.195811	-0.12988	0.203387	0.672689	0.903913	0.197572	0.912401
FBXL15	-0.11518	-0.09523	0.101093	-0.16186	0.393574	0.485089	0.454313	0.229018	0.022459	-0.12023	0.002492	-0.25744	0.558889	0.213056	0.506482	0.04206
ZNF576	0.002344	0.002641	0.072345	-0.22742	0.986194	0.984588	0.592792	0.088889	0.292828	-0.09288	0.055145	-0.29668	0.975862	0.269634	0.640498	0.022635
THTPA	-0.17209	0.036957	0.155069	0.006655	0.204715	0.788793	0.253796	0.961173	-0.14694	0.096092	-0.18136	0.049093	0.164917	0.737371	0.116578	0.627029
BAT4	0.022543	-0.12146	0.320369	-0.0132	0.869014	0.377024	0.016077	0.923101	0.123767	-0.38488	0.186537	-0.27093	0.793744	0.004131	0.890074	0.034288
EFHD2	-0.24321	0.275537	-0.21976	-0.1148	0.068301	0.03984	0.100476	0.395123	-0.26607	0.470918	-0.16842	0.215481	0.036945	0.999522	0.134375	0.924811
TTPAL	0.071588	0.284511	-0.28974	-0.17121	0.600063	0.035269	0.030313	0.207065	-0.00831	0.440895	-0.17143	0.226568	0.478151	0.998918	0.13009	0.935004
BRCC3	-0.03815	0.241989	-0.27261	-0.02233	0.778118	0.07236	0.040212	0.869056	-0.2421	0.571509	-0.24173	0.343683	0.054547	0.999979	0.056958	0.989598
FSD1	-0.08601	-0.21019	0.270266	-0.13582	0.524667	0.119975	0.042025	0.313767	0.058473	-0.48548	0.166451	-0.25384	0.650251	0.000313	0.862761	0.044353
TMEM43	0.145998	0.184846	-0.20176	0.324789	0.278517	0.172614	0.132314	0.013701	0.169003	0.517252	-0.14024	0.378021	0.869237	0.999884	0.179083	0.995204
BAT1	-0.01625	0.257371	-0.1033	0.232389	0.905402	0.057832	0.448698	0.084798	0.014711	0.485155	-0.28866	0.346154	0.53865	0.999684	0.027235	0.990776
IRX6	-0.0695	-0.06956	0.104788	-0.04805	0.607438	0.610456	0.437899	0.722623	0.048622	-0.15273	-0.09724	-0.1373	0.625851	0.155457	0.262564	0.181429
IRX3	0.060833	-0.24941	0.282832	-0.20584	0.653056	0.06378	0.033027	0.124505	0.075616	-0.18135	0.212378	-0.40494	0.691272	0.113877	0.919336	0.002623
IRX1	0.050098	-0.18619	0.262876	-0.0412	0.711318	0.169458	0.0482	0.760901	0.10912	-0.3052	0.082345	-0.283	0.762243	0.020741	0.702427	0.029803
BAT5	-0.12381	0.005613	-0.07887	0.166983	0.358829	0.967252	0.559784	0.214421	-0.24213	0.416444	-0.19464	0.302545	0.05248	0.998004	0.10006	0.979506
SLC39A7	0.029388	0.123783	0.119684	0.158791	0.829765	0.367916	0.379618	0.242439	0.033238	0.315941	-0.14599	0.1994	0.586788	0.983781	0.169312	0.908004
THOC6	-0.00622	-0.03503	-0.01213	0.130443	0.963393	0.797698	0.928633	0.33347	0.023744	0.397707	-0.15481	0.238832	0.562231	0.9969	0.154959	0.945033
HSD17B8	-0.06902	-0.07005	-0.14888	-0.07443	0.609949	0.60794	0.269031	0.582133	-0.51404	0.396768	-0.32497	0.184093	0.000152	0.996517	0.015684	0.886968
ZNF557	0.187063	0.237792	-0.04433	0.291957	0.163517	0.077607	0.743354	0.027549	0.114634	0.260922	-0.06579	0.256138	0.775952	0.960065	0.333833	0.95712
MMEL1	-0.10261	-0.14089	0.093591	-0.19896	0.447553	0.300323	0.488648	0.13789	-0.08459	-0.1577	0.113869	-0.12994	0.288097	0.147611	0.771801	0.194697
WDR32	0.149354	0.146982	-0.18521	0.14838	0.267494	0.279702	0.167795	0.270662	0.150771	0.217099	-0.12131	0.20738	0.841385	0.926368	0.213652	0.916652
OR13A1	-0.12529	-0.13544	0.077253	-0.328	0.353093	0.319592	0.567879	0.012746	-0.14754	-0.33285	0.038806	-0.36031	0.163915	0.011903	0.599899	0.006952
OR5H6	0.059618	-0.10607	0.014066	-0.12983	0.659557	0.436535	0.917287	0.33577	-0.00069	-0.43137	0.263158	-0.2398	0.498195	0.001381	0.959644	0.054226
CALB1	0.181922	-0.04854	0.3817	-0.18391	0.179628	0.724897	0.003699	0.174831	0.010469	-0.38786	0.067168	-0.35278	0.527525	0.003868	0.669449	0.008093
OR5H2	0.000913	-0.12716	-0.03528	-0.22314	0.994622	0.350337	0.79446	0.095223	0.137036	-0.34282	0.059132	-0.18221	0.815312	0.010574	0.648502	0.115467
OR7E91P	-0.30891	0.301547	-0.29809	-0.30376	0.019386	0.023913	0.024312	0.021615	0.167289	-0.27117	-0.15497	-0.20876	0.863984	0.035787	0.157575	0.084373
OR4K5	0.171917	-0.15035	0.07214	-0.28035	0.200992	0.268717	0.593846	0.034661	0.169333	-0.16328	0.133726	-0.19105	0.864084	0.144792	0.8037	0.107065
OR2H2	-0.12775	-0.17391	0.045587	-0.06012	0.343631	0.199881	0.736325	0.656857	0.007487	-0.16407	0.118958	-0.1761	0.519693	0.137953	0.781806	0.120864
OR51G1	-0.03732	0.007425	-0.12688	-0.21453	0.784816	0.957096	0.351409	0.112346	0.089088	-0.28433	0.139045	-0.31874	0.721991	0.02774	0.818835	0.015427
OR51B4	0.052642	-0.43433	0.151595	-0.27823	0.697347	0.000824	0.260301	0.036112	0.052865	-0.55056	0.193295	-0.27175	0.634912	4.46E-05	0.895652	0.035472
OR51B2	0.022537	-0.16351	0.123145	-0.30238	0.867843	0.228528	0.36145	0.022245	0.07303	-0.4339	0.185545	-0.36082	0.685212	0.001295	0.88882	0.00688
RDBP	-0.19049	-0.0608	-0.05434	-0.40175	0.159645	0.65923	0.690799	0.002147	-0.30177	-0.29704	0.113749	-0.24665	0.020768	0.022497	0.771562	0.049218
C1orf89	-0.12973	-0.20368	0.136904	-0.29275	0.336153	0.13216	0.30987	0.027113	-0.15861	-0.28839	0.3025	-0.30944	0.151889	0.028817	0.975674	0.020479
ZXDC	0.04864	0.021828	0.195189	0.086115	0.721846	0.874313	0.149409	0.527997	-0.11228	0.137312	-0.11883	0.016569	0.228759	0.818584	0.218443	0.543514
BHLHE41	0.238432	-0.37183	0.223851	-0.26519	0.076788	0.005186	0.09722	0.048238	-0.03693	-0.29971	0.153408	-0.27596	0.403744	0.021508	0.842817	0.031701
NSBP1	0.058568	-0.07774	-0.06067	-0.35116	0.665195	0.569028	0.653939	0.007398	-0.13611	-0.16687	0.22279	-0.15284	0.183544	0.133838	0.929358	0.155271
FCRL2	0.047406	-0.24813	0.122853	0.177778	0.728629	0.067757	0.367039	0.189914	0.087141	-0.2446	0.084151	-0.23429	0.715388	0.052687	0.706466	0.060684
B3GNT4	-0.17171	-0.26955	0.161269	-0.21401	0.201537	0.044538	0.230743	0.109926	0.057833	-0.41182	0.207365	-0.35071	0.648684	0.00223	0.914158	0.008433
BCL2L14	-0.07775	0.145186	0.244377	-0.02567	0.565374	0.285685	0.066949	0.849652	-0.148	0.244235	0.054035	0.106221	0.16315	0.949056	0.637781	0.758845
CALB2	-0.02675	-0.03021	0.073514	-0.34612	0.843427	0.825089	0.586813	0.008356	0.090941	-0.30391	0.050251	-0.14875	0.726101	0.020021	0.628473	0.161917
LST1	0.064585	-0.54508	0.346501	0.062278	0.633146	1.40E-05	0.00828	0.645358	-0.12957	-0.55045	0.127167	-0.32283	0.198131	4.47E-05	0.79463	0.015272
NOX5	-0.04102	-0.31322	0.209287	-0.37924	0.761905	0.018747	0.118185	0.003622	0.081676	-0.36629	0.124653	-0.45167	0.705268	0.006146	0.792708	0.000814
PLA2G7	-0.01267	0.035985	-0.12368	0.394952	0.925454	0.792319	0.35934	0.002363	-0.09161	0.172783	0.143668	0.254989	0.272416	0.874574	0.826783	0.956388
GLB1L	-0.17188	-0.17656	0.02649	-0.16389	0.201096	0.193027	0.844926	0.22316	-0.26966	-0.20586	0.01553	-0.09093	0.034969	0.084952	0.540324	0.273914
KREMEN2	-0.06444	-0.04183	0.195382	-0.18324	0.633891	0.759501	0.145254	0.172446	0.164553	-0.27415	0.11481	-0.37995	0.859968	0.034197	0.770985	0.00502

ZBED2	-0.10458	-0.06796	0.004147	-0.10381	0.438808	0.618731	0.975578	0.442199	0.017721	-0.14131	0.027806	-0.01986	0.546528	0.174442	0.571941	0.447893
LRFN3	0.010163	-0.05223	0.154111	-0.0578	0.940193	0.702213	0.25238	0.669324	0.106021	-0.14341	0.083828	-0.12088	0.75843	0.170846	0.707975	0.211786
C17orf62	0.039679	-0.18484	0.104579	0.324281	0.769483	0.172632	0.43882	0.013858	-0.10935	0.236396	-0.01082	0.200059	0.234708	0.943141	0.471881	0.908742
TFEB	0.052279	-0.3489	0.177361	-0.09787	0.699337	0.008403	0.186877	0.468895	-0.07642	-0.26473	0.135888	-0.26316	0.306853	0.037707	0.813281	0.038614
C4orf15	-0.01736	0.198856	-0.21969	0.180234	0.898035	0.141763	0.100591	0.179724	-0.01129	0.399937	-0.16091	0.299874	0.470315	0.997055	0.145495	0.978553
LRRC2	0.191766	-0.06353	0.113449	0.064529	0.152997	0.641821	0.400762	0.633444	0.137621	-0.17195	0.128126	-0.09687	0.81913	0.126589	0.799201	0.260938
FYCO1	-0.15704	0.144252	-0.11745	-0.08693	0.247732	0.293381	0.388655	0.524074	-0.086	0.001259	0.0172	0.005436	0.287163	0.503274	0.544118	0.514134
BIRC7	0.000141	-0.10493	0.1462	-0.3187	0.999171	0.441494	0.277845	0.015682	0.253027	-0.36254	0.29381	-0.30609	0.955116	0.006642	0.974941	0.019283
WDR25	-0.05742	-0.14839	0.052673	-0.01905	0.671359	0.275072	0.697179	0.888132	-0.27561	0.134149	-0.08482	0.226997	0.031877	0.812954	0.289786	0.935376
C16orf53	-0.08345	0.001831	0.001345	0.030524	0.537113	0.989317	0.992076	0.821672	0.023487	0.249954	-0.0951	0.185416	0.561564	0.953065	0.267173	0.891338
ULBP3	-0.17846	0.117931	-0.20979	-0.1527	0.188193	0.391166	0.120692	0.261205	-0.1976	0.489734	-0.32509	0.325498	0.094033	0.999724	0.014668	0.986356
DLEU2L	-0.07236	0.320213	-0.04196	-0.06955	0.592715	0.016131	0.756633	0.607204	-0.0767	0.022485	-0.09642	-0.12353	0.306212	0.558955	0.264319	0.206705
OR52N1	-0.01274	-0.08048	0.050477	-0.11014	0.925085	0.555423	0.709231	0.414735	-0.00427	-0.28851	0.167438	-0.23374	0.488754	0.025919	0.8642	0.058978
S100G	-0.10848	-0.05676	0.088804	-0.34141	0.421822	0.677765	0.511245	0.009346	0.05796	-0.25397	0.203093	-0.07963	0.648995	0.044271	0.909559	0.299428
OR4K1	0.143841	-0.27189	0.098429	-0.34462	0.29022	0.044634	0.470469	0.009296	0.3066	-0.41544	0.234357	-0.34775	0.979744	0.00227	0.937141	0.009624
FAM65A	0.202953	-0.2396	0.217761	0.200555	0.129995	0.075305	0.103689	0.13469	0.233661	-0.14731	0.075719	-0.0462	0.940959	0.164304	0.689471	0.380238
C2orf47	-0.12111	0.357778	-0.33323	0.098337	0.369505	0.006785	0.011311	0.466769	-0.27013	0.429336	-0.30022	0.220066	0.034715	0.998547	0.022547	0.92916
EPM2A	0.096518	-0.03546	0.144549	0.029018	0.475092	0.795268	0.283364	0.830336	0.361749	-0.30317	0.084803	-0.21318	0.99325	0.020275	0.710165	0.077439
NKAIN1	0.001171	-0.0682	0.219095	-0.11312	0.993104	0.617483	0.101538	0.402139	0.165567	-0.35669	0.259281	-0.29158	0.864255	0.007482	0.957276	0.024643
GCC1	-0.18125	0.062704	-0.03984	0.00811	0.177254	0.646162	0.768594	0.952258	-0.17547	0.336698	-0.27172	0.041508	0.121718	0.988931	0.03549	0.607915
ATP13A3	0.005919	0.184985	-0.14766	0.250661	0.965144	0.172287	0.273007	0.060017	-0.02079	0.45136	-0.10675	0.360273	0.445469	0.999179	0.242605	0.993043
TTC13	0.03674	0.263265	-0.09839	0.324781	0.786137	0.049949	0.466515	0.013704	0.076392	0.316507	-0.11491	0.24374	0.693079	0.983944	0.226137	0.948698
EPS8L3	-0.08748	0.010273	0.143705	-0.09578	0.517564	0.940103	0.286217	0.478509	-0.04054	0.036849	-0.0039	-0.00598	0.394548	0.596046	0.489862	0.484267
ABHD8	-0.01819	-0.11499	0.212006	-0.19016	0.893154	0.39873	0.113374	0.156528	0.021579	-0.30061	0.20165	-0.24015	0.556597	0.021182	0.907966	0.053967
NKAP	-0.15308	-0.09203	-0.29533	-0.17108	0.260026	0.503972	0.027121	0.207425	-0.32839	-0.30179	-0.2068	-0.17227	0.012936	0.02076	0.08644	0.126146
CDC73	0.096704	0.108926	-0.16883	0.126853	0.474235	0.424216	0.209327	0.347062	0.249129	0.162663	0.053197	0.145047	0.952502	0.859948	0.635726	0.831921
GPR172A	0.007492	0.116775	0.10339	0.153775	0.956295	0.395857	0.448279	0.257828	-0.04226	0.320755	-0.25677	0.119454	0.39018	0.985124	0.044315	0.785445
SPAG16	-0.05881	-0.04744	-0.02567	-0.25241	0.663897	0.728416	0.849643	0.05819	-0.17023	-0.24596	-0.00631	-0.22209	0.129019	0.049711	0.483586	0.06898
FLJ22167	-0.09697	-0.19305	0.03777	-0.16702	0.47301	0.153997	0.780293	0.214307	-0.21319	-0.19026	0.024827	-0.14765	0.077432	0.102667	0.564302	0.163728
CORO7	-0.24573	-0.23693	0.0009	-0.28131	0.06541	0.078725	0.9947	0.034023	-0.38235	-0.32428	-0.05714	-0.34773	0.004367	0.013952	0.354629	0.008944
CHPF	0.058261	-0.03241	0.232169	0.037155	0.666845	0.812544	0.082239	0.783781	0.06063	0.024931	-0.005	-0.05033	0.653813	0.564567	0.487143	0.37133
CARS2	0.015988	0.025187	-0.00172	0.066527	0.906038	0.853807	0.989867	0.622943	-0.29896	0.276078	-0.16196	0.014053	0.021781	0.968358	0.143915	0.536927
RNF128	0.107909	0.191511	-0.272	-0.08957	0.424301	0.15738	0.040671	0.507583	0.058503	0.040037	-0.10787	-0.03012	0.650324	0.604177	0.240299	0.421245
MRPL24	0.008974	0.118687	-0.0408	-0.22723	0.947176	0.383632	0.763149	0.089151	-0.18138	0.184864	0.02364	0.082106	0.113841	0.890639	0.56125	0.706251
C10orf76	0.030552	0.262036	-0.2076	0.284067	0.821506	0.051068	0.121254	0.032236	-0.00202	0.380343	-0.08894	0.336669	0.494679	0.995439	0.280614	0.988925
MUL1	-0.07976	-0.05835	-0.13326	0.102552	0.555328	0.669281	0.323052	0.44779	-0.12373	0.137702	-0.04784	-0.04087	0.209031	0.816484	0.378904	0.394905
SAP130	0.065738	0.30273	-0.14647	0.244634	0.627079	0.023339	0.276961	0.066654	0.19328	0.512914	-0.07794	0.280009	0.90095	0.999866	0.305402	0.970268
RNF219	0.052544	0.151906	-0.18598	0.116863	0.697882	0.263727	0.166018	0.386641	-0.05886	0.257334	-0.01582	0.265912	0.348797	0.957871	0.458932	0.962965
CEP97	-0.10001	0.025183	-0.16817	-0.09679	0.459202	0.853833	0.21112	0.47386	-0.2986	0.02776	-0.0823	0.089511	0.021916	0.572654	0.295469	0.722932
CALCA	0.046708	-0.02047	0.155326	-0.44405	0.730087	0.880947	0.248614	0.00054	-0.01209	-0.20896	0.130568	-0.17855	0.468208	0.081711	0.803697	0.117564
TCTN1	-0.12969	-0.16955	0.038737	-0.23533	0.336307	0.211583	0.774815	0.078035	-0.20175	-0.30025	0.02294	-0.20769	0.089384	0.02131	0.559451	0.083026
ADIPOR2	0.103805	0.293865	-0.22732	0.211808	0.44645	0.029433	0.092014	0.117088	0.029791	0.411665	-0.34315	0.079162	0.577904	0.997761	0.010507	0.699495
LASS4	-0.12355	-0.31973	0.118295	-0.23284	0.35985	0.016301	0.38081	0.081327	-0.23228	-0.33926	-0.07679	-0.23614	0.060163	0.01054	0.308046	0.057062
PGBD5	0.00958	0.198746	-0.01546	-0.27181	0.943617	0.141987	0.909129	0.040821	-0.12348	0.059421	0.012771	-0.08447	0.206795	0.652569	0.533178	0.288377
FAM118B	-0.19895	0.371846	-0.30725	0.095855	0.137912	0.004775	0.020081	0.478145	-0.09712	0.458065	-0.14518	0.265825	0.260408	0.999316	0.170657	0.962916
RIC3	0.052056	-0.02146	0.198033	-0.04851	0.70056	0.875237	0.139767	0.720086	0.107172	-0.04232	-0.23543	-0.1807	0.760813	0.390026	0.059752	0.114722
C14orf138	0.058032	0.198007	-0.21914	0.228467	0.668079	0.143506	0.101462	0.087384	0.224928	0.141599	0.00687	0.011085	0.933566	0.826053	0.517862	0.529143
ACSS3	0.195142	-0.0266	-0.02716	-0.04621	0.145759	0.84571	0.841074	0.732851	0.087073	-0.19697	0.238109	-0.00951	0.715236	0.09734	0.940199	0.475283
NARG1L	0.074962	0.250851	-0.11436	0.176502	0.579447	0.06221	0.396961	0.189056	0.140235	0.174818	-0.02307	0.080071	0.823698	0.877385	0.440224	0.701587
TMCO7	0.155388	0.275875	-0.02537	0.261947	0.252808	0.04148	0.852747	0.05115	0.189896	0.284972	-0.14976	0.298546	0.896891	0.972546	0.163079	0.978065

C5orf23	0.290385	-0.14684	0.102451	-0.08314	0.028434	0.280158	0.448242	0.538641	0.296003	-0.21655	0.178807	-0.31278	0.977106	0.074159	0.880046	0.017156
CCNJL	-0.08777	-0.10023	0.195008	-0.22896	0.516203	0.462337	0.146042	0.086688	-0.16265	-0.49597	0.038468	-0.27758	0.142867	0.000265	0.5979	0.032439
HMBX1	-0.03708	0.232717	-0.07787	0.172778	0.78422	0.084347	0.564764	0.198711	0.145746	0.122555	-0.08051	0.132912	0.833095	0.791431	0.29954	0.810722
RNASEH2B	-0.00199	0.123984	-0.16432	0.168685	0.988274	0.36261	0.221927	0.209719	-0.13583	0.410767	-0.17026	0.318579	0.184046	0.997713	0.131748	0.984529
SNRNP25	-0.25786	0.063287	-0.11138	-0.18974	0.052803	0.643093	0.409465	0.157467	-0.20344	-0.12566	-0.16338	-0.10037	0.087544	0.202679	0.141776	0.253453
GALNT14	-0.03498	0.158304	-0.05083	0.302868	0.796133	0.243903	0.707304	0.02202	-0.19271	0.315631	-0.16577	0.266715	0.102344	0.982659	0.141102	0.961725
C6orf211	0.02729	0.244341	-0.2621	0.142052	0.840302	0.069546	0.048889	0.291853	-0.09109	0.399316	-0.05798	0.283059	0.273572	0.997012	0.35259	0.971685
C4orf31	0.192672	-0.18016	0.062631	0.075404	0.151028	0.183948	0.643484	0.577206	0.214701	-0.05271	0.225639	0.09026	0.921657	0.36547	0.929584	0.722286
TNFAIP8L2	0.014875	-0.29264	0.326697	-0.04146	0.912553	0.028622	0.013126	0.759463	0.089434	-0.50411	0.186534	-0.32765	0.722761	0.000177	0.89007	0.013114
OGFRL1	0.184364	0.054776	-0.06625	0.168444	0.16979	0.688449	0.624403	0.21038	0.367323	0.062937	0.101454	-0.06714	0.993984	0.661121	0.746378	0.328768
SH3TC2	-0.0933	-0.31008	0.136861	0.035804	0.489988	0.020033	0.310023	0.791464	-0.1061	-0.29487	-0.00039	-0.24947	0.243942	0.02463	0.498999	0.049204
OCEL1	-0.11727	-0.07972	0.145833	-0.34591	0.38499	0.559196	0.279066	0.008399	-0.11542	-0.32498	0.148374	-0.35245	0.22249	0.013775	0.834651	0.008146
C1orf54	0.177872	0.083722	0.009126	0.213745	0.185591	0.539569	0.946282	0.110378	0.0626	0.222935	-0.06791	0.295696	0.660305	0.931786	0.328787	0.976988
EFTUD1	0.079913	0.191254	-0.1832	-0.04394	0.554579	0.157948	0.17255	0.745506	-0.04213	0.474207	-0.12643	0.392278	0.390496	0.999565	0.20395	0.996495
FAM184A	-0.07961	-0.04157	-0.02665	-0.30165	0.556109	0.761004	0.844011	0.022586	-0.12077	-0.29582	0.001093	-0.20937	0.212012	0.022965	0.502844	0.081289
FAT4	0.316377	-0.20393	0.08201	0.384746	0.016502	0.131662	0.544207	0.003126	0.203417	0.057245	0.146032	0.355062	0.912434	0.647239	0.830764	0.992269
SCRN3	0.085262	0.242458	-0.163	-0.01475	0.528299	0.071792	0.225704	0.913306	-0.05513	0.308572	-0.02807	0.195686	0.357958	0.981531	0.427396	0.903768
CCDC121	-0.07063	-0.08877	0.142065	-0.33033	0.601608	0.51533	0.291807	0.012087	0.113863	-0.27676	-0.01067	-0.16114	0.774414	0.031303	0.472283	0.142339
ARMC7	-0.20848	0.107016	-0.12211	-0.24574	0.123082	0.436772	0.369971	0.067909	-0.2413	0.374852	-0.30307	0.238097	0.053099	0.994867	0.021499	0.944467
TMEM53	-0.21998	0.057761	-0.0515	-0.33341	0.100128	0.672408	0.70362	0.011265	-0.52368	0.245264	-0.36812	0.15316	9.39E-05	0.949796	0.006424	0.845235
CTA-216E1	-0.13822	0.129958	-0.04266	-0.17289	0.305207	0.339761	0.752684	0.198416	-0.18069	-0.09912	0.170772	0.04049	0.114746	0.256109	0.868984	0.60533
ROGDI	-0.13954	0.061955	-0.03248	-0.21952	0.300574	0.650112	0.810426	0.100866	-0.24637	0.209645	-0.1912	0.091949	0.04942	0.918995	0.104167	0.728325
ARSJ	0.160656	0.185551	-0.11887	0.345531	0.232545	0.170956	0.378488	0.008475	0.152677	0.47405	0.078151	0.443517	0.844461	0.999563	0.695072	0.99899
CHMP6	-0.04082	-0.05319	0.024306	-0.03051	0.763051	0.697044	0.857572	0.821743	-0.07491	0.02111	-0.00297	0.062498	0.310382	0.555374	0.492266	0.660058
SRD5A3	-0.23897	0.259101	-0.15274	0.181886	0.073417	0.053822	0.25668	0.175701	-0.33982	0.504046	-0.27373	0.296443	0.010428	0.999822	0.034418	0.977275
EFCAB1	-0.09659	-0.11486	0.03028	-0.18704	0.474739	0.399252	0.823072	0.16358	-0.08626	-0.32842	0.124228	-0.23927	0.284327	0.012927	0.791906	0.054632
PANK3	0.006378	0.343033	-0.25577	0.076276	0.962446	0.009649	0.054817	0.572797	-0.01666	0.502739	-0.05547	0.283778	0.456237	0.999815	0.358701	0.972011
AKIRIN1	-0.18613	-0.00608	0.148586	-0.13807	0.165655	0.964545	0.269992	0.305729	0.189742	-0.41508	0.144784	-0.1501	0.896703	0.002063	0.82867	0.159706
MCPH1	-0.21979	0.144338	-0.12081	-0.00524	0.100434	0.288539	0.37068	0.969152	-0.1698	0.143202	-0.08031	0.084742	0.129624	0.828796	0.299988	0.712239
MAP7D3	0.304687	-0.21297	0.140302	0.040718	0.021197	0.115037	0.297899	0.763619	0.422239	-0.55209	0.339486	-0.29115	0.998267	3.48E-05	0.98874	0.024816
JTV1	-0.27219	0.197683	-0.2708	0.155409	0.042412	0.14798	0.043524	0.252744	-0.41389	0.458323	-0.28537	0.360256	0.002123	0.99932	0.028705	0.99304
C16orf57	-0.03264	0.001468	0.13854	-0.08309	0.809512	0.991434	0.304067	0.538874	-0.02444	-0.22534	0.023263	-0.19617	0.43595	0.066075	0.56028	0.09567
RHBDF2	-0.13158	0.066099	-0.0126	0.316594	0.32925	0.628375	0.925912	0.016424	-0.10919	0.343993	-0.04953	0.268427	0.23504	0.990379	0.373316	0.964363
TMEM204	0.269401	-0.22428	0.310006	0.199482	0.044661	0.099728	0.020064	0.140488	0.333705	-0.23396	0.336432	-0.11227	0.988287	0.058797	0.988079	0.228787
HECTD3	0.103978	0.063028	0.078531	0.166107	0.441469	0.644454	0.561472	0.216869	-0.04998	0.464961	-0.22785	0.250238	0.370745	0.999434	0.066123	0.953257
BEND5	-0.08434	0.169171	-0.03955	-0.14231	0.532799	0.212612	0.770242	0.290956	-0.18155	-0.19718	0.06875	-0.12604	0.113616	0.094508	0.673191	0.201964
RPAP3	-0.05031	0.184306	-0.24779	0.013666	0.710152	0.173896	0.063103	0.919633	-0.16655	0.278409	-0.07457	0.16949	0.13431	0.969502	0.3132	0.869933
ARHGAP10	0.337328	-0.13822	0.236363	0.101475	0.01101	0.31424	0.079459	0.456776	0.553246	-0.43992	0.309657	-0.39837	0.999967	0.00111	0.980772	0.003053
DYNC2H1	-0.09181	-0.06202	-0.06853	-0.19806	0.497009	0.64977	0.612514	0.139704	-0.15756	-0.25617	0.054651	-0.18071	0.147834	0.04286	0.639289	0.114714
PPP1R3B	0.09001	-0.20364	0.100296	-0.07875	0.509434	0.135898	0.462049	0.564018	0.2272	-0.66766	0.269993	-0.51404	0.935552	2.01E-07	0.963567	0.000129
NEIL1	-0.12657	-0.17259	0.169322	-0.11956	0.348142	0.203386	0.207977	0.375686	0.061682	-0.24497	0.020507	-0.31314	0.658079	0.050413	0.553184	0.017047
HSPBAP1	0.05887	-0.06821	0.029443	0.0807	0.66357	0.61743	0.827888	0.550678	0.066261	-0.34863	0.156474	-0.22335	0.669131	0.008787	0.847663	0.06784
NARG2	-0.01102	0.235932	-0.21315	0.154157	0.935145	0.080026	0.111391	0.252236	-0.00809	0.428735	-0.14052	0.387219	0.478721	0.998525	0.1786	0.996076
DHX40	-0.00114	0.019397	-0.0272	-0.26941	0.993281	0.887163	0.840797	0.042702	-0.3596	-0.03834	-0.05368	-0.03926	0.007053	0.400133	0.363098	0.39781
PLEKHF2	-0.08625	0.228628	-0.24744	0.13759	0.523515	0.090106	0.063491	0.30743	-0.04068	0.34971	-0.04544	0.347124	0.394184	0.991398	0.383458	0.990949
FLJ13197	0.008121	-0.00139	-0.09881	-0.22601	0.952194	0.991864	0.464619	0.09093	0.060414	-0.2432	0.099342	-0.13668	0.654992	0.051697	0.741916	0.182526
PARP8	-0.16041	0.080024	-0.08893	0.379574	0.233258	0.557689	0.510648	0.00359	-0.09108	0.180061	0.024988	0.329833	0.273593	0.884432	0.564716	0.987407
C3orf52	-0.19973	0.274093	-0.14083	-0.15707	0.136345	0.040935	0.296071	0.243263	-0.17433	0.277002	-0.10719	0.047744	0.123282	0.968816	0.241707	0.62365
ZCCHC6	-0.08995	0.340638	-0.28478	0.074278	0.50578	0.010201	0.031788	0.582921	0.022777	0.258111	-0.1173	0.020069	0.559716	0.958354	0.22142	0.552658
NLRX1	0.013559	-0.12101	0.083489	-0.28533	0.920263	0.374332	0.536941	0.031445	-0.16861	-0.03035	-0.14981	-0.1083	0.13132	0.420664	0.162991	0.236867

FN3KRP	0.011399	0.180466	-0.28274	0.140177	0.932932	0.183196	0.033089	0.298336	-0.27416	0.603664	-0.23639	0.465115	0.034195	0.999994	0.061187	0.999357
ZNF329	-0.09769	0.186534	-0.12874	-0.17291	0.4697	0.168658	0.339883	0.19837	-0.12185	0.398961	-0.12797	0.217789	0.209913	0.996988	0.201094	0.927024
VEPH1	-0.00456	-0.35438	0.160329	-0.24022	0.973159	0.00737	0.233509	0.071883	0.084229	-0.56966	0.077058	-0.39702	0.711078	1.80E-05	0.692562	0.003148
FASTKD1	0.002051	0.400412	-0.32504	0.126819	0.987918	0.002229	0.013623	0.347189	0.099472	0.591204	-0.14414	0.398841	0.74464	0.999992	0.172411	0.99698
OGFOD2	-0.17531	-0.10763	0.100901	-0.26901	0.192116	0.429788	0.455176	0.043027	-0.37193	-0.12757	-0.15034	-0.20214	0.005462	0.199086	0.162123	0.088962
SMC6	0.053823	0.263295	-0.25824	0.090079	0.690893	0.049923	0.052436	0.505175	-0.07223	0.534089	-0.12436	0.436037	0.316667	0.999934	0.207841	0.998774
VTCN1	-0.1285	0.329327	-0.23527	-0.19982	0.340767	0.013196	0.078121	0.136165	-0.09241	0.552536	-0.16287	0.298978	0.27301	0.999958	0.145416	0.976982
C22orf29	0.200455	-0.00595	0.173534	0.082041	0.134889	0.965288	0.196722	0.544052	-0.30138	0.484541	-0.25177	0.466619	0.020904	0.999678	0.04762	0.99946
MLF1IP	-0.01676	0.298951	-0.31506	-0.20296	0.90151	0.025212	0.016983	0.129979	-0.26547	0.572909	-0.11119	0.391165	0.038992	0.99998	0.236214	0.996058
ZDHC14	0.087649	-0.01784	0.137561	0.204091	0.516774	0.89619	0.307533	0.12781	0.24167	-0.00455	0.191166	-0.12594	0.947176	0.488021	0.895792	0.202151
C11orf61	0.048453	0.197392	-0.0285	0.163721	0.720405	0.144779	0.833324	0.223638	0.235795	0.188496	-0.09478	0.154646	0.940541	0.892519	0.27027	0.844785
SAP30L	-0.12317	0.058698	-0.13191	0.061338	0.361348	0.667398	0.328017	0.650362	-0.07368	0.161365	-0.11663	0.074026	0.313256	0.857994	0.222743	0.687553
C14orf139	0.302421	-0.36834	0.263799	0.153113	0.022227	0.005219	0.047391	0.255502	0.216059	-0.22825	0.24564	-0.12884	0.92537	0.063548	0.948074	0.196724
STEAP4	0.140968	0.120163	0.058371	0.053926	0.300063	0.382198	0.669145	0.69304	0.143522	0.060704	-0.02516	0.100693	0.829342	0.655698	0.434844	0.747242
GAL3ST4	0.203092	-0.15639	0.25129	-0.02183	0.129727	0.249731	0.059356	0.871969	0.122914	-0.18389	0.142947	-0.08803	0.792118	0.110598	0.825558	0.280364
QTRTD1	-0.12212	0.478783	-0.3147	0.189323	0.36548	0.000189	0.017117	0.158397	-0.10777	0.510552	-0.31949	0.318134	0.237956	0.999856	0.016204	0.984405
YRDC	-0.02242	0.315752	-0.03945	0.114176	0.868542	0.01776	0.7708	0.397728	0.014258	0.246673	-0.30902	0.000822	0.537031	0.94882	0.020623	0.502139
MANEA	0.069256	0.176974	-0.21344	0.376751	0.608721	0.191959	0.110896	0.003869	-0.03629	0.51783	-0.20958	0.446244	0.405394	0.999886	0.083522	0.99906
GALNT12	-0.08217	0.329811	-0.03007	-0.05501	0.543431	0.013054	0.824282	0.684421	-0.07549	0.430349	-0.17624	0.212715	0.309029	0.998583	0.123415	0.922095
FAM164C	-0.11705	-0.21052	0.012096	-0.35035	0.385869	0.119386	0.928843	0.007546	-0.20949	-0.41171	0.036372	-0.26512	0.081164	0.002236	0.59375	0.037484
C14orf169	0.251355	-0.14612	0.262367	-0.14417	0.059288	0.282558	0.048652	0.284651	0.212684	-0.17087	0.25142	-0.12147	0.922064	0.128111	0.952143	0.210661
ZMAT4	0.142054	-0.01955	0.291371	-0.26797	0.291847	0.88626	0.027876	0.043869	-0.00265	-0.41709	0.266828	-0.36352	0.493098	0.002183	0.960017	0.007052
ZYG11B	0.144838	0.233995	-0.27065	0.144308	0.282393	0.082607	0.041726	0.284178	-0.03333	0.489026	-0.08619	0.381411	0.412981	0.999718	0.286741	0.995543
CALCB	0.158868	-0.08302	0.281586	-0.22354	0.237855	0.543004	0.03384	0.094613	0.073601	-0.37418	0.131086	-0.30662	0.686555	0.005207	0.804642	0.019105
C17orf101	-0.01567	-0.16648	0.139876	-0.12453	0.90792	0.220098	0.299383	0.356028	0.047249	0.088553	0.004172	0.011	0.622408	0.720799	0.510849	0.52892
C11orf80	-0.00026	0.382827	-0.20376	-0.09417	0.998506	0.003918	0.132004	0.489963	0.071874	0.332788	-0.04356	0.079379	0.680532	0.987248	0.389452	0.697885
LRRK1	-0.16701	0.070199	-0.22637	0.065303	0.218608	0.610557	0.093414	0.63253	-0.34592	0.556935	-0.28724	0.302678	0.009266	0.999971	0.027862	0.979553
PRKRIP1	0.024595	-0.15123	0.211671	-0.00387	0.855896	0.265876	0.113959	0.97721	-0.0002	-0.1247	-0.10624	-0.15759	0.499464	0.20448	0.243655	0.147794
NOL9	-0.0169	0.328225	-0.25	0.29334	0.900714	0.013524	0.06072	0.026789	-0.0704	0.538197	-0.24674	0.444331	0.320998	0.999943	0.051132	0.999011
GLT25D1	0.026725	-0.10016	0.066081	0.091822	0.843566	0.462665	0.62528	0.496935	0.127952	0.178276	-0.04207	0.165128	0.80162	0.882066	0.391888	0.86361
MORC4	0.187183	0.249197	0.056652	0.056117	0.167156	0.066549	0.678352	0.681222	0.067438	0.590089	-0.19198	0.385203	0.671952	0.999992	0.103222	0.995898
IPO4	-0.26443	-0.02838	-0.04404	-0.06372	0.046847	0.835531	0.744975	0.63769	-0.44756	0.296982	-0.19874	0.131843	0.001026	0.97621	0.097959	0.806019
GTDC1	0.018138	0.158811	-0.12127	0.339254	0.893467	0.242377	0.368866	0.009834	0.038717	0.367303	-0.07577	0.413031	0.600816	0.993982	0.310404	0.997833
TMEM149	-0.10927	-0.06641	0.247256	0.346082	0.418462	0.626763	0.063697	0.008364	0.099441	-0.29354	0.265447	-0.0574	0.744574	0.023856	0.960993	0.35237
CCDC51	-0.09045	0.021742	-0.01397	0.050645	0.507366	0.874807	0.918586	0.710874	-0.20934	0.34353	-0.13589	0.346857	0.081317	0.990292	0.186707	0.990902
NPEPL1	-0.11178	-0.06879	0.117648	-0.09708	0.412109	0.617771	0.387837	0.476604	0.008432	-0.06279	0.167698	-0.15873	0.52192	0.340983	0.861722	0.14884
PPCS	-0.02637	0.293868	-0.19365	0.259099	0.84704	0.029432	0.152716	0.053823	-0.14161	0.669753	-0.22928	0.492693	0.173921	1	0.064881	0.999748
TBL1XR1	0.027364	0.210688	-0.25034	0.178339	0.839873	0.119083	0.060359	0.184419	0.000229	0.535212	-0.11069	0.463863	0.500603	0.999937	0.234571	0.999417
FLJ11506	-0.20879	0.217059	-0.2803	-0.11876	0.119078	0.108075	0.034696	0.378937	-0.29183	0.327186	-0.32495	0.169561	0.024542	0.986774	0.014705	0.870034
VPS37B	0.017035	0.163486	-0.09525	-0.21927	0.899911	0.228612	0.480933	0.10125	0.070762	0.496863	-0.00115	0.20009	0.679861	0.999778	0.496997	0.908777
ANKRD55	0.05263	-0.19439	0.189002	-0.24873	0.697412	0.151108	0.159117	0.062087	0.260405	-0.51465	0.24202	-0.3224	0.959755	0.000126	0.945394	0.014439
SUV39H2	-0.02129	0.338269	-0.1388	0.026992	0.875066	0.010774	0.303166	0.842025	-0.01949	0.501184	-0.05624	0.335585	0.448844	0.999806	0.356842	0.988695
ZNF768	-0.05755	-0.15417	0.201098	-0.2088	0.670673	0.256581	0.133617	0.119056	0.042208	-0.20535	0.157489	-0.06609	0.609692	0.085488	0.849247	0.331279
THAP9	0.020796	0.243077	-0.12055	-0.00973	0.87797	0.071047	0.371743	0.942721	0.103469	0.158174	-0.07676	-0.06546	0.753104	0.853116	0.308135	0.332794
WDR59	-0.08775	0.364943	-0.24188	0.210962	0.520187	0.006153	0.072493	0.118592	0.058425	0.426918	-0.06912	0.284867	0.650135	0.998456	0.325928	0.972499
LIN28	0.046992	-0.02811	0.293251	-0.1031	0.728504	0.837063	0.026838	0.445356	0.003872	-0.23034	0.007598	-0.23267	0.510188	0.061778	0.519753	0.059846
PALB2	0.023388	0.468208	-0.24074	0.166351	0.8629	0.000274	0.071243	0.216184	-0.10824	0.528511	-0.21306	0.426137	0.236979	0.99992	0.079977	0.998426
C1orf113	-0.15848	0.108227	-0.04221	-0.24062	0.239003	0.427214	0.755199	0.071389	0.025621	0.071516	0.018315	-0.16482	0.567108	0.681644	0.547526	0.136848
NSUN7	-0.15014	-0.14055	-0.07225	-0.34644	0.264959	0.301511	0.593267	0.008292	-0.22045	-0.29601	0.023991	-0.21103	0.070482	0.022893	0.562154	0.079599
NARS2	0.069369	0.136799	-0.20235	0.134728	0.608135	0.314726	0.13117	0.317696	0.000918	0.427772	-0.16036	0.289665	0.502416	0.998489	0.146335	0.974568

E2F8	-0.18778	0.271265	-0.14958	-0.40308	0.165771	0.045147	0.271193	0.002069	-0.23609	0.433482	-0.24109	0.200787	0.059223	0.998533	0.055312	0.907004
KCTD17	-0.03834	-0.17512	0.155939	-0.1213	0.777083	0.196739	0.246727	0.36875	0.08545	-0.31749	0.140746	-0.22993	0.713839	0.015778	0.821784	0.062118
TBC1D17	0.017002	-0.14579	0.17005	-0.0872	0.900105	0.283674	0.205999	0.518915	0.208563	-0.20492	0.067588	-0.26428	0.917882	0.08595	0.670445	0.037962
C17orf42	-0.00413	0.17083	-0.21495	0.285983	0.975648	0.208096	0.108345	0.031041	0.045887	0.28163	-0.08878	0.244849	0.618985	0.971028	0.280983	0.949499
BBS10	-0.02854	0.147959	-0.19113	0.050234	0.833077	0.276483	0.154382	0.710573	0.017881	0.140534	0.07854	0.097481	0.546946	0.824215	0.695964	0.740372
TTLL7	0.141816	-0.09983	0.160845	-0.08506	0.292662	0.46415	0.231989	0.529285	0.116543	-0.31416	0.136575	-0.15576	0.77974	0.01674	0.814498	0.150639
ZBBX	-0.06103	-0.1212	0.046005	-0.1567	0.651995	0.37357	0.733996	0.24441	-0.07133	-0.28728	0.15196	-0.2174	0.318807	0.026446	0.840496	0.073344
C10orf68	0.062256	-0.11731	-0.03758	-0.24096	0.645476	0.389199	0.781396	0.070975	0.134845	-0.27041	0.050891	-0.195	0.8142	0.034564	0.630055	0.097034
CXorf36	0.282521	-0.13793	0.195014	0.333779	0.033228	0.310695	0.14603	0.011169	0.205891	-0.12045	0.188301	0.137289	0.912591	0.215309	0.889538	0.815757
ZNF419	-0.03399	0.111877	-0.00881	-0.12388	0.803606	0.416103	0.948615	0.363025	-0.0265	-0.2159	0.024712	-0.25692	0.430614	0.074783	0.564006	0.04239
CLIP4	-0.03601	0.413338	-0.27258	0.034659	0.790298	0.001544	0.040229	0.797989	-0.08531	0.497412	-0.09663	0.31666	0.286482	0.999782	0.263879	0.983988
ECHDC3	0.265351	-0.21063	0.311628	-0.07648	0.046054	0.11919	0.018289	0.571792	0.446237	-0.29932	-0.04641	-0.33014	0.999059	0.021651	0.38105	0.012522
C6orf103	-0.08978	-0.11953	0.041556	-0.22146	0.506612	0.380244	0.758903	0.097806	-0.13795	-0.32321	0.084787	-0.23419	0.180285	0.014227	0.710129	0.058617
LMAN1L	-0.01753	-0.21314	0.258426	-0.16601	0.897011	0.114743	0.052263	0.217132	0.179929	-0.44511	0.217619	-0.37902	0.884258	0.000969	0.924503	0.004694
MAFK	0.094201	-0.07229	0.106252	0.1124	0.485804	0.596471	0.431491	0.405157	0.173076	0.209538	0.049962	-0.06504	0.874981	0.918885	0.62776	0.333794
ZNF385D	0.257634	-0.13735	0.157671	0.234056	0.053015	0.312778	0.241454	0.079711	0.356156	-0.30034	0.281242	-0.09811	0.992437	0.021278	0.969363	0.258273
SLC25A22	-0.00573	-0.06216	0.136	-0.05575	0.966276	0.649051	0.313107	0.680406	0.013487	-0.20524	-0.09201	-0.13742	0.535444	0.085603	0.273881	0.18123
ZFAND1	0.048755	0.237332	-0.16559	0.18897	0.718735	0.078199	0.218337	0.159189	0.172428	0.341391	-0.06812	0.273773	0.874079	0.989882	0.328305	0.967194
SNIP1	0.139651	-0.14872	0.132299	-0.11643	0.300168	0.27399	0.326577	0.388429	0.00041	-0.25298	0.179997	-0.16774	0.501078	0.044914	0.88163	0.132576
ASB13	-0.17002	0.076725	-0.24026	-0.13102	0.206083	0.57409	0.071832	0.331335	-0.01572	-0.00771	0.004635	-0.06357	0.458711	0.479716	0.512052	0.337355
ZNF750	0.046585	0.14809	-0.09658	-0.20132	0.733153	0.280588	0.478872	0.136793	-0.17288	0.634209	-0.28809	0.165832	0.125286	0.999999	0.027488	0.864644
DHRS12	-0.03917	-0.18272	0.085789	-0.0591	0.772366	0.177692	0.525745	0.662356	0.064261	-0.29294	-0.04456	-0.35384	0.664321	0.024093	0.38565	0.007924
ZNF668	-0.0392	-0.05868	0.118245	-0.16187	0.772212	0.667475	0.381012	0.228996	0.027084	-0.29813	0.184058	-0.30374	0.570902	0.022089	0.886923	0.020079
FZD3	-0.06368	0.190063	-0.08775	-0.1785	0.637929	0.160602	0.516303	0.184009	-0.17453	0.151136	-0.16223	0.077733	0.123012	0.841977	0.143499	0.696191
GEMIN7	-0.20268	0.454564	-0.18651	0.087547	0.134107	0.00049	0.16872	0.521136	-0.24396	0.670862	-0.26595	0.395022	0.05114	1	0.038713	0.996705
C1orf115	0.181199	-0.30495	0.251889	0.165794	0.177365	0.022296	0.058732	0.217747	0.424915	-0.38897	0.21625	-0.28137	0.998377	0.003774	0.923177	0.029092
ISOC2	-0.0921	-0.06653	0.114375	-0.1127	0.495625	0.626131	0.396904	0.403895	-0.18717	0.058444	-0.04999	0.062783	0.106469	0.65018	0.372181	0.660747
ELMO3	-0.12451	-0.04183	0.011249	-0.08658	0.356111	0.759524	0.933812	0.521914	-0.20673	0.238292	-0.16335	0.096173	0.084027	0.944618	0.141824	0.737548
C15orf29	-0.14279	0.179301	-0.22926	0.208903	0.293778	0.190253	0.089193	0.122314	-0.25192	0.023851	-0.08498	-0.05798	0.045613	0.562509	0.289439	0.350952
TXNDC15	0.137779	0.02525	0.047407	0.242395	0.306757	0.85345	0.7262	0.069263	0.284684	0.108558	0.103333	0.214332	0.972417	0.763664	0.750316	0.923691
MCTP1	0.135313	-0.1235	0.178073	0.367288	0.32006	0.369034	0.189168	0.00536	0.237772	-0.1528	0.069834	0.145793	0.944216	0.155341	0.675746	0.833173
GRTP1	-0.2702	0.253456	-0.27475	0.111455	0.044008	0.061885	0.040434	0.413475	-0.32367	0.701682	-0.29168	0.410885	0.014107	1	0.025943	0.99772
ZFHx4	-0.01281	-0.0145	0.020158	-0.17839	0.924623	0.915557	0.881687	0.184298	0.213263	-0.17334	0.353474	-0.13897	0.922639	0.124654	0.991388	0.178509
ACBD4	0.043469	-0.21702	0.206096	-0.0698	0.748159	0.108138	0.124029	0.605899	0.082925	-0.25563	0.243844	-0.11463	0.708117	0.043204	0.946758	0.224051
MICALL2	-0.11101	0.058621	0.08738	0.021913	0.411049	0.667812	0.518066	0.871469	0.125821	0.055655	0.153742	-0.02025	0.794906	0.641744	0.84047	0.447483
MTERF	-0.03263	0.292055	-0.16671	0.111126	0.809574	0.028955	0.215175	0.410539	0.039824	0.367851	-0.0411	0.358557	0.603636	0.99405	0.394327	0.992795
CCDC82	-0.02833	0.016369	-0.06988	0.07184	0.834272	0.904687	0.605496	0.595386	-0.08451	-0.00313	0.049355	0.166228	0.288282	0.491762	0.626261	0.865223
IQCA1	-0.1278	-0.13807	-0.00358	-0.2673	0.343425	0.310201	0.978921	0.04442	-0.29643	-0.30343	0.065002	-0.15348	0.022732	0.020185	0.664299	0.154262
LRRc31	-0.05962	0.088249	0.107107	-0.08284	0.659526	0.517783	0.427771	0.540117	-0.00346	-0.09942	-0.02632	-0.11701	0.490884	0.255463	0.431858	0.219348
C7orf10	0.245038	-0.0207	0.157298	0.081269	0.066191	0.87966	0.242583	0.547859	0.318856	-0.17783	0.121193	-0.06623	0.984606	0.118538	0.786123	0.330945
MYH14	-0.18389	0.202806	-0.12416	-0.24127	0.170903	0.133858	0.357459	0.070603	-0.30155	0.381942	-0.28102	0.048028	0.020844	0.995594	0.030745	0.624364
RERGL	0.100407	-0.2179	0.253418	-0.02284	0.457394	0.10668	0.057164	0.866089	0.191952	-0.38349	0.231513	-0.25053	0.896742	0.004656	0.934746	0.048467
KLHL36	-0.047	0.118496	-0.02113	-0.0368	0.728478	0.384403	0.876045	0.785781	-0.04208	0.082537	0.072957	0.013575	0.39063	0.707234	0.68306	0.535674
ZNF665	0.002759	-0.08791	-0.05545	-0.26741	0.983751	0.519407	0.682063	0.044333	-0.02098	-0.22326	0.125423	-0.28585	0.444974	0.06792	0.794159	0.027067
CLMN	-0.23372	-0.19094	0.0897	-0.13578	0.080157	0.158646	0.506975	0.313884	-0.19251	-0.23881	0.061555	-0.16262	0.099969	0.054982	0.656043	0.140122
SHFM1	-0.06338	0.063837	-0.11376	-0.26023	0.639518	0.640205	0.399447	0.050585	-0.37345	0.012537	-0.33742	-0.07552	0.005289	0.532952	0.011704	0.308964
FBXO31	-0.08375	-0.30236	0.120632	-0.1341	0.535667	0.02352	0.371405	0.319973	-0.06024	-0.30891	0.088585	-0.27419	0.34713	0.019474	0.716276	0.034175
GSDMD	0.02857	-0.16934	0.17516	0.060903	0.832914	0.212158	0.192496	0.652681	0.006139	-0.00647	0.091962	-0.03866	0.515963	0.483186	0.723647	0.400474
C12orf49	-0.32162	0.46178	-0.3063	-0.05231	0.014705	0.00034	0.02049	0.699172	-0.42148	0.503966	-0.31824	0.239875	0.001766	0.999822	0.016566	0.945828
ALG9	0.210161	0.214546	-0.07599	0.274891	0.116623	0.11232	0.574234	0.038503	0.32073	0.326686	0.073636	0.298476	0.985118	0.986651	0.684643	0.978039

ZNF408	-0.01088	0.034102	0.128629	-0.13625	0.93599	0.802967	0.340297	0.312193	0.068711	-0.05517	-0.05139	-0.11671	0.674989	0.357876	0.368723	0.219932
ARMC5	-0.01916	-0.07504	0.207033	-0.04211	0.887506	0.582577	0.12229	0.755774	0.039696	-0.21222	-0.05949	-0.16077	0.603312	0.078403	0.348937	0.142906
UGT2A3	-0.01369	-0.11878	0.035915	-0.30533	0.919507	0.383256	0.790831	0.02091	0.274583	-0.42966	0.197571	-0.34855	0.966029	0.001612	0.900696	0.009476
TFPI2	0.129679	-0.17977	0.048332	0.080603	0.336334	0.184912	0.721072	0.551158	-0.16743	-0.02941	0.055979	0.270877	0.133024	0.423076	0.642534	0.965683
ALS2CR8	-0.08459	0.082098	-0.09034	-0.10008	0.531574	0.547491	0.503946	0.458864	-0.16478	0.104623	0.043108	0.125154	0.13691	0.75552	0.610709	0.796375
SHCBP1	-0.11773	0.241567	-0.22733	0.034128	0.387506	0.075604	0.092002	0.802819	-0.07569	0.488952	0.010665	0.291235	0.310594	0.999673	0.527388	0.973871
HHIPL2	0.068134	-0.23219	0.400356	-0.28851	0.617817	0.088048	0.002233	0.03105	0.234493	-0.38688	0.267658	-0.40327	0.939486	0.004328	0.960502	0.003009
HPS6	0.017558	0.081152	0.08962	0.063955	0.89686	0.55213	0.507356	0.636474	-0.10591	0.053661	-0.12431	-0.00397	0.241806	0.6384	0.207932	0.48955
VASH2	0.073488	-0.06676	0.350395	-0.24733	0.586945	0.624961	0.007538	0.063616	0.01599	-0.36861	0.240898	-0.12569	0.541998	0.005857	0.944542	0.202617
GSTCD	-0.0063	0.237112	-0.34982	-0.08554	0.963263	0.081328	0.008221	0.530774	-0.07369	0.388086	-0.1467	0.200277	0.313236	0.996151	0.168121	0.908985
TTC21B	-0.06092	-0.1507	0.011174	-0.14399	0.652598	0.267579	0.934255	0.285237	-0.061	-0.31895	0.04343	-0.21012	0.343582	0.015369	0.611517	0.080523
PTCD2	0.005691	0.213733	-0.2221	0.106609	0.966487	0.11372	0.096824	0.429937	-0.05592	0.420323	-0.06069	0.289665	0.356017	0.998183	0.346034	0.974568
SLTM	-0.02252	0.208664	-0.26213	0.025516	0.867923	0.122752	0.048858	0.85056	0.032089	0.183141	-0.11981	0.06048	0.583831	0.88844	0.216536	0.655153
MMRN2	0.296143	-0.22825	0.177437	0.333983	0.025304	0.090652	0.186686	0.011116	0.323843	-0.12708	0.195603	0.090166	0.985936	0.200002	0.901074	0.724386
EHMT1	-0.17479	0.125742	-0.20582	0.188003	0.193443	0.355792	0.124548	0.161373	-0.1785	0.4691	-0.22385	0.345443	0.117636	0.999496	0.069676	0.990647
AGMAT	0.029429	-0.21996	0.240899	-0.14139	0.827968	0.103321	0.071053	0.294132	0.199334	-0.28311	0.188658	-0.21685	0.90793	0.028292	0.89272	0.073872
NPAL2	-0.06144	0.514513	-0.28181	0.216683	0.649838	4.98E-05	0.033695	0.105453	0.008913	0.64784	-0.19628	0.419537	0.523441	0.999999	0.098138	0.998148
TLE6	-0.13	0.086946	0.178766	-0.24653	0.33513	0.524008	0.183354	0.06451	-0.09929	0.000959	0.213774	-0.00673	0.255755	0.502522	0.920737	0.482296
MOBKL2B	0.064381	-0.06622	0.105256	0.226594	0.634222	0.62773	0.435847	0.090081	0.094996	0.184557	-0.12081	0.141865	0.734994	0.89025	0.214614	0.82651
ZNF552	-0.14452	0.284339	-0.16015	0.047873	0.283447	0.033682	0.234032	0.723617	0.223886	0.277389	-0.0587	0.087425	0.930357	0.967467	0.352525	0.71602
WDR78	-0.04049	-0.14421	0.038564	-0.18337	0.764916	0.288959	0.775791	0.172134	-0.10884	-0.2895	0.151665	-0.19641	0.235754	0.025503	0.840019	0.095393
ST7	0.11738	0.08993	-0.10122	0.162013	0.38453	0.50981	0.453725	0.228571	-0.09075	0.384791	-0.16163	0.339906	0.274326	0.995861	0.144414	0.989589
CATSPERB	-0.08317	0.084464	0.090271	0.090062	0.538518	0.535967	0.504261	0.505255	-0.04669	0.341776	-0.17179	0.222257	0.378987	0.989957	0.129572	0.931172
ARHGAP28	0.342497	0.064572	0.200823	0.143129	0.00977	0.639522	0.137785	0.292638	0.000775	-0.05068	0.1508	0.133668	0.502038	0.369007	0.83862	0.812087
C2orf34	-0.08273	0.250464	-0.11264	-0.02535	0.540667	0.062628	0.404167	0.851521	-0.04064	0.381356	-0.09659	0.067213	0.394291	0.995538	0.263957	0.671413
CCDC48	-0.01659	-0.18548	0.314549	0.085593	0.902543	0.171117	0.017172	0.526693	0.07071	-0.22696	0.291476	-0.03995	0.679737	0.064655	0.973972	0.396054
ASAM	0.161032	-0.22824	0.082745	0.275357	0.23577	0.093734	0.544329	0.039975	0.33059	-0.11725	0.319082	0.104057	0.987583	0.218869	0.983678	0.754335
METTL8	0.127614	0.465845	-0.10351	0.190081	0.344151	0.000297	0.443526	0.156706	0.040691	0.434926	-0.12107	0.414802	0.60584	0.998738	0.214108	0.997923
NAT11	-0.09315	0.099063	-0.16981	-0.18033	0.490683	0.467598	0.206641	0.179479	-0.38506	0.326514	-0.13237	0.238981	0.004115	0.986609	0.193034	0.945147
ZMYM1	0.108682	0.156126	-0.21882	0.060615	0.420971	0.250533	0.101983	0.654221	0.051402	0.378735	-0.03885	0.318266	0.63279	0.995277	0.399994	0.984442
JMJD5	-0.02911	-0.38416	0.246546	-0.21886	0.829783	0.003466	0.064487	0.101909	-0.22154	-0.38804	0.103037	-0.31944	0.06948	0.003853	0.749699	0.015233
QSER1	0.12911	0.278399	-0.15493	0.226008	0.338479	0.037744	0.24983	0.090938	0.243055	0.387374	-0.11509	0.284854	0.948197	0.99609	0.225767	0.972493
GEMIN6	-0.13828	0.04388	-0.23206	-0.21437	0.305	0.748121	0.082382	0.109318	-0.1974	-0.05728	-0.04368	0.071295	0.094263	0.35267	0.387854	0.681123
SGK269	0.027384	-0.19988	0.106991	-0.24809	0.839761	0.139688	0.428275	0.062785	-0.04273	-0.26407	0.187906	-0.21543	0.388992	0.038088	0.891787	0.075237
LONRF3	0.290869	-0.21956	0.246489	0.061251	0.029643	0.107264	0.067053	0.653832	0.307167	-0.54477	0.262413	-0.35045	0.981075	4.53E-05	0.959197	0.008476
PIP4K2C	-0.14224	0.351009	-0.25646	-0.1288	0.295694	0.008601	0.056397	0.344136	-0.32765	0.459519	-0.23534	0.189884	0.013113	0.999342	0.059823	0.896876
TMC5	-0.25043	-0.0814	-0.00141	-0.05943	0.060256	0.550913	0.991697	0.660548	-0.20384	-0.00525	-0.06758	-0.06046	0.087113	0.486198	0.329564	0.344897
CCDC102B	0.220275	-0.15245	0.128549	0.340539	0.099663	0.261989	0.340597	0.009541	0.0397	0.112946	0.187013	0.303731	0.603321	0.772575	0.890672	0.979919
ARHGEF5	-0.07006	0.074346	-0.13204	-0.1404	0.604554	0.586054	0.327545	0.297541	0.038817	0.27541	-0.03925	-0.11458	0.601072	0.968025	0.398986	0.224152
NHEJ1	0.149116	0.316968	-0.26444	0.396482	0.268267	0.017303	0.046839	0.002264	0.17279	0.510705	-0.21145	0.361241	0.874584	0.999856	0.081608	0.993179
AGBL2	-0.18406	-0.18176	0.018323	-0.13788	0.170512	0.180016	0.892389	0.306387	-0.15072	-0.2842	0.103152	-0.17586	0.158705	0.027801	0.749938	0.121187
ZBTB3	-0.18078	0.133767	-0.14701	0.083923	0.178377	0.325671	0.275161	0.534823	-0.36368	0.3652	-0.12693	0.092095	0.006488	0.993713	0.203015	0.728647
FAM124B	-0.01276	-0.05644	0.101839	0.075662	0.924939	0.679466	0.450972	0.575898	0.22709	-0.39074	0.187963	-0.17951	0.935457	0.003628	0.891857	0.1163
ZDHC11	-0.11619	-0.15979	0.129446	-0.14758	0.389411	0.239442	0.337211	0.273282	-0.09976	-0.18925	-0.04168	-0.26716	0.254744	0.103899	0.392875	0.036337
RNF122	0.254006	-0.01686	0.166238	0.488004	0.05657	0.901849	0.216501	0.000118	0.315993	0.076544	0.161268	0.050301	0.982768	0.691378	0.852173	0.628598
C7orf63	-0.11118	-0.05331	-0.02195	-0.16365	0.410322	0.696381	0.871258	0.223853	-0.21572	-0.07624	-0.15835	-0.10874	0.077343	0.309314	0.152296	0.238526
TMEM180	-0.03578	0.238338	-0.05335	-0.09708	0.791581	0.076907	0.693503	0.472531	0.052093	0.147425	0.02541	-0.00132	0.63451	0.835894	0.565799	0.496518
CSPP1	-0.12859	-0.10578	-0.02522	-0.19947	0.340436	0.437801	0.852281	0.136857	-0.18315	-0.26174	0.02157	-0.19703	0.11155	0.03945	0.555924	0.094682
PDZD3	-0.09346	0.014134	0.169004	-0.18981	0.489264	0.917657	0.208845	0.157313	-0.04066	-0.35012	0.079748	-0.36778	0.394241	0.008532	0.698727	0.005959
FAM57A	-0.07342	0.378519	-0.15251	0.012007	0.590744	0.004378	0.261826	0.930015	-0.14436	0.654351	-0.21588	0.370968	0.169243	1	0.07718	0.994427

ABHD9	-0.04655	0.157237	-0.07069	0.053253	0.73335	0.251604	0.604646	0.696685	-0.10694	0.472248	-0.00878	0.262753	0.242217	0.999472	0.477441	0.959402
TM4SF20	-0.04348	-0.02862	-0.01103	-0.22107	0.748085	0.834127	0.935071	0.09841	-0.10219	-0.2091	0.039564	-0.24294	0.249582	0.081563	0.601811	0.051884
SNX22	0.059078	-0.15396	0.244891	-0.03453	0.665374	0.261749	0.068901	0.800555	0.109251	-0.21508	0.089792	-0.22122	0.759888	0.080444	0.716547	0.074499
FLJ13224	-0.06326	-0.19705	0.170102	-0.31842	0.640149	0.145485	0.205859	0.015782	0.207276	-0.35741	0.158396	-0.29434	0.916543	0.007374	0.850651	0.023537
NEK11	-0.09778	-0.17339	0.01876	-0.20693	0.469292	0.201265	0.889836	0.122488	-0.17562	-0.28462	0.041133	-0.1795	0.121511	0.02761	0.605757	0.116308
TUBAL3	0.016998	-0.34783	0.176027	-0.21338	0.900127	0.00862	0.190268	0.111008	-0.02856	-0.36652	0.184898	-0.27236	0.425265	0.006118	0.887997	0.033537
ZNF669	-0.05462	0.252063	-0.3088	0.166743	0.686571	0.060915	0.019429	0.215088	0.066866	0.239494	-0.11315	0.367961	0.670583	0.945538	0.229632	0.994064
C18orf22	-0.0167	0.443067	-0.05547	-0.10597	0.901863	0.000627	0.681939	0.432736	-0.02522	0.394051	-0.0518	0.054039	0.434698	0.9963	0.369205	0.637791
C11orf63	-0.1328	-0.19111	0.04483	-0.31525	0.324725	0.158265	0.740549	0.016911	-0.24588	-0.38164	0.080189	-0.24854	0.049766	0.004434	0.699733	0.0479
TREML2	-0.04072	-0.16972	0.234613	-0.18005	0.763585	0.21112	0.078977	0.180187	-0.03644	-0.40017	0.121752	-0.36233	0.406069	0.003228	0.784446	0.007224
C13orf34	-0.17292	0.246564	-0.37714	0.075632	0.198326	0.066967	0.003829	0.576054	-0.04618	0.51578	-0.24063	0.273172	0.380278	0.999878	0.055666	0.966885
TCTN2	-0.04295	-0.14038	0.025669	-0.16854	0.751074	0.3021	0.849672	0.210113	-0.19217	-0.23471	0.060412	-0.12084	0.100374	0.058193	0.653289	0.211871
ALG13	-0.0298	0.128383	-0.11262	0.102601	0.825823	0.345696	0.40424	0.447575	-0.05752	0.053228	-0.04865	0.053721	0.352075	0.637328	0.375475	0.63855
FLJ12529	-0.05059	0.068511	0.092048	-0.00142	0.711172	0.619187	0.499853	0.991733	0.067132	0.051736	0.009607	0.218464	0.669364	0.632137	0.524677	0.925312
BAALC	-0.0102	0.179041	0.136765	-0.2396	0.94	0.186737	0.310365	0.072635	-0.05852	-0.00027	0.153139	0.148163	0.349639	0.499289	0.842388	0.837116
RPAP2	0.022511	0.319759	-0.201	0.136527	0.867989	0.016291	0.133812	0.311219	0.145284	0.369556	-0.08628	0.267225	0.83232	0.994259	0.286538	0.9637
CBLL1	-0.00298	0.238716	-0.12381	0.064637	0.982447	0.076426	0.358856	0.632873	-0.1389	0.344622	-0.13735	0.185445	0.178625	0.990496	0.184142	0.891375
NUDT18	-0.0496	-0.24275	0.376019	-0.17362	0.714088	0.07144	0.003944	0.196492	-0.07344	-0.31677	0.124669	-0.17214	0.313815	0.01598	0.79274	0.126319
RABEP2	-0.06259	-0.02802	0.044784	-0.23005	0.643727	0.837554	0.740807	0.085152	-0.19872	0.044732	-0.07516	-0.0215	0.092764	0.616073	0.311831	0.443606
THSD4	0.343247	-0.10115	0.130625	0.216858	0.008949	0.458225	0.332791	0.105164	0.171408	0.09121	0.04661	0.089219	0.872649	0.726696	0.619449	0.722284
UBA5	0.040376	0.07738	-0.0982	0.127556	0.765553	0.570818	0.467396	0.344374	0.145595	0.102524	-0.00883	0.053225	0.832842	0.751117	0.477059	0.637319
DCAKD	-0.02694	-0.02308	-0.11682	0.068829	0.842315	0.865938	0.386803	0.610937	-0.09283	0.38615	-0.14924	0.282013	0.269728	0.995983	0.163918	0.971205
CCDC134	-0.13013	-0.11006	0.030206	-0.08521	0.334658	0.419396	0.8235	0.528529	-0.20481	0.155318	-0.10802	0.116392	0.086062	0.84866	0.240009	0.779442
ZNF212	-0.04748	-0.17252	0.099323	-0.09026	0.725776	0.203566	0.46229	0.504325	0.128721	-0.15236	0.088251	-0.12933	0.803048	0.156045	0.717853	0.195824
ZC3H14	0.185451	-0.0678	0.009177	-0.02116	0.167243	0.619563	0.945984	0.875838	0.115209	-0.05044	-0.10028	-0.14454	0.777096	0.369602	0.256092	0.168931
PODNL1	0.018577	-0.09882	0.170464	-0.05075	0.890909	0.46868	0.204882	0.707717	0.037133	-0.18241	0.117565	-0.03423	0.596772	0.112506	0.779093	0.410652
MAP9	-0.11523	-0.07225	-0.08342	-0.20046	0.393347	0.596667	0.537276	0.134872	-0.2263	-0.22082	0.03011	-0.074	0.065232	0.070142	0.57783	0.312499
HDAC11	-0.01428	-0.15169	-0.06119	-0.09294	0.916063	0.264425	0.65116	0.491676	-0.17389	0.143504	-0.05665	0.030316	0.123884	0.82931	0.355839	0.57926
C9orf82	-0.03228	0.287735	-0.17757	0.139429	0.811579	0.031528	0.186346	0.300946	-0.0236	0.392547	-0.07141	0.201178	0.438152	0.996516	0.320551	0.909985
PLBD1	-0.20521	0.374117	-0.42016	-0.05766	0.125692	0.004505	0.001139	0.670086	-0.37802	0.54713	-0.24943	0.306191	0.004796	0.999958	0.049232	0.980752
LPCAT1	0.007778	-0.20957	0.156868	0.402131	0.954208	0.121107	0.243891	0.00193	0.166687	-0.06931	0.105609	0.154159	0.865892	0.323576	0.755043	0.846825
RIN3	0.035536	-0.28202	0.287776	0.171548	0.792989	0.035223	0.029956	0.201975	-0.0404	-0.37194	0.174238	-0.20329	0.396093	0.005937	0.871009	0.090226
ZNF671	0.06886	-0.27348	0.210257	0.184035	0.610773	0.041403	0.116452	0.170566	0.122351	-0.40875	0.022785	-0.24465	0.79104	0.002399	0.559052	0.050646
C10orf119	0.044451	0.31314	-0.29695	0.339593	0.742665	0.018778	0.024888	0.009756	-0.0158	0.5901	-0.14085	0.44241	0.458491	0.999992	0.178045	0.99896
GGNBP2	-0.04929	0.319001	-0.25524	0.174002	0.715787	0.016561	0.055339	0.195498	0.047766	0.317527	-0.19231	0.255604	0.623707	0.984234	0.102829	0.956781
ZNF672	-0.11908	0.039624	0.00849	-0.03957	0.382055	0.77394	0.950481	0.772134	-0.16798	0.132711	-0.34903	-0.11165	0.132235	0.810358	0.00939	0.230031
ATP8B4	-0.02164	-0.07589	0.069054	0.099769	0.873063	0.578296	0.60977	0.460275	-0.14582	-0.37096	0.156053	-0.29561	0.166776	0.005574	0.847003	0.023045
THNSL1	0.123242	0.064039	-0.16027	-0.03938	0.361067	0.639142	0.233687	0.771191	-0.21785	0.319827	-0.14291	0.292175	0.072914	0.984873	0.174505	0.975599
RPP21	-0.14184	0.033214	-0.19121	0.075839	0.292587	0.807996	0.154224	0.575003	-0.30687	0.272923	-0.3564	0.172428	0.019022	0.966756	0.008129	0.874079
ZNF613	-0.01492	0.199118	-0.26792	0.041094	0.912291	0.141229	0.043911	0.761506	0.073747	0.063588	-0.05757	-0.09305	0.686898	0.662696	0.353599	0.269259
FLJ14213	0.068945	-0.06246	0.203846	0.249513	0.610334	0.647455	0.128277	0.061238	-0.19488	-0.05711	0.082271	0.144849	0.097169	0.353081	0.704461	0.831587
CALCR	-0.05609	-0.12229	-0.02376	-0.22592	0.678588	0.369259	0.860753	0.091066	0.038897	-0.20973	0.083957	-0.22053	0.600129	0.083371	0.706033	0.07273
CYBRD1	0.296994	-0.239	-0.01391	0.300259	0.024867	0.076071	0.918219	0.023248	0.567714	-0.19356	0.315558	0.006953	0.999981	0.09872	0.982637	0.518289
NUP85	-0.13393	0.191717	-0.3249	0.302299	0.320595	0.156925	0.013667	0.022283	-0.11344	0.506269	-0.32844	0.178694	0.22644	0.999834	0.013807	0.882622
NAT15	-0.18715	0.237449	-0.19339	-0.28653	0.163311	0.078047	0.149476	0.030706	-0.01913	-0.02357	0.047829	-0.158	0.449804	0.438213	0.622479	0.147154
TMC7	-0.13926	0.346219	-0.19172	-0.11779	0.306026	0.009618	0.156912	0.387268	-0.16456	0.377066	-0.26399	0.272371	0.140027	0.994664	0.041676	0.96486
MORN1	-0.21004	-0.21837	0.100708	-0.33201	0.116831	0.105909	0.456039	0.011632	-0.21665	-0.38188	-0.01496	-0.33276	0.074062	0.004411	0.461147	0.011924
BTNL8	-0.05092	-0.28143	0.203655	-0.18548	0.706819	0.035622	0.128643	0.167178	0.009046	-0.33645	0.054351	-0.49487	0.523788	0.011121	0.638555	0.000236
TUSC3	-0.02898	-0.08624	-0.07881	-0.13381	0.830567	0.527382	0.560062	0.321022	-0.28351	-0.10203	-0.07683	-0.00028	0.028109	0.249933	0.307955	0.499276
PYROXD1	-0.11367	0.108572	-0.20559	0.029897	0.399837	0.425733	0.12498	0.825276	-0.21061	0.290123	-0.13659	0.272873	0.080021	0.974759	0.18548	0.96673

ACTR5	-0.11858	0.148104	-0.36231	0.142298	0.379648	0.276007	0.005613	0.291009	-0.15214	0.390114	-0.20156	0.042667	0.156395	0.996321	0.09213	0.610854
ATAD5	0.084852	0.196572	-0.05745	-0.01309	0.53409	0.150319	0.674069	0.923691	-0.19638	0.460792	-0.14506	0.244061	0.095434	0.999365	0.170871	0.948931
MAGIX	-0.27379	-0.04925	0.044268	-0.28003	0.039317	0.718484	0.743688	0.034879	-0.43944	-0.08046	0.014474	-0.17658	0.001123	0.297523	0.537592	0.12022
SETD6	-0.24448	-0.16654	0.011871	-0.09349	0.069378	0.224272	0.930804	0.493151	0.270747	-0.24542	0.135942	-0.3745	0.963981	0.052084	0.810536	0.00563
C2orf54	-0.17806	0.013711	-0.09381	-0.22126	0.185109	0.920112	0.487629	0.098118	-0.14148	0.092372	-0.0933	0.008656	0.174151	0.729256	0.271075	0.522765
TCEAL4	0.161721	-0.26105	-0.09556	0.046925	0.233743	0.054221	0.483544	0.731282	0.436265	-0.36069	0.09579	-0.45165	0.998632	0.007466	0.731887	0.000922
MRM1	-0.063	-0.04777	0.102256	0.009483	0.641537	0.726616	0.449109	0.944182	-0.1327	-0.00788	-0.01475	-0.08793	0.189663	0.47927	0.461689	0.280591
ADM2	-0.02816	-0.12047	0.225144	-0.03363	0.836767	0.376488	0.095252	0.805635	0.149622	-0.32547	0.212303	-0.29903	0.839513	0.013651	0.919261	0.021757
SPEF2	-0.09536	-0.13681	0.041682	-0.20718	0.480439	0.314677	0.758193	0.122025	-0.13235	-0.33584	0.100709	-0.23165	0.190299	0.011249	0.74481	0.060682
GRRP1	0.023538	-0.22393	0.286309	-0.02873	0.862029	0.0971	0.030841	0.832019	0.089129	-0.44348	0.179226	-0.14047	0.722084	0.001011	0.880606	0.17589
MAP6D1	0.123788	-0.11319	0.096017	-0.10435	0.358929	0.406203	0.477398	0.439807	0.120506	-0.25471	0.161109	-0.17486	0.787487	0.043791	0.854805	0.122551
UBXN8	-0.01446	0.393537	-0.06602	-0.00763	0.915767	0.002954	0.628799	0.955474	-0.19352	0.538712	-0.33097	0.389786	0.098764	0.999944	0.013184	0.996294
DOK3	-0.03385	-0.18819	0.174146	-0.09958	0.802604	0.164847	0.195123	0.461116	0.117139	-0.3842	0.252446	-0.20098	0.780914	0.004193	0.952839	0.090234
TNIP3	-0.11028	-0.02872	0.056486	0.395178	0.41843	0.835122	0.679238	0.002576	-0.22532	0.090369	-0.09161	0.098351	0.066092	0.724835	0.274745	0.742241
KIAA0319L	-0.1634	0.386431	-0.10326	-0.19296	0.228858	0.003567	0.448856	0.154205	0.030543	0.112121	0.046182	0.009508	0.578935	0.768307	0.617024	0.524713
SYNPO2L	-0.12854	-0.08719	0.155664	-0.17226	0.34065	0.522849	0.247572	0.200067	0.005189	-0.4151	0.164341	-0.36324	0.513651	0.002062	0.859654	0.006547
ADCK4	-0.25259	-0.2522	0.001704	-0.18641	0.058008	0.060775	0.989963	0.165016	-0.39288	-0.13141	-0.22003	-0.11937	0.003458	0.192015	0.073206	0.214714
CNTD2	-0.01844	-0.22119	0.208798	-0.20471	0.89172	0.101361	0.119068	0.126633	0.068312	-0.3862	0.207252	-0.27967	0.674039	0.004013	0.914039	0.029893
LOC100133	-0.01285	0.106467	0.064471	0.107246	0.924424	0.434816	0.633746	0.427169	0.317892	0.116521	-0.03056	0.128829	0.984337	0.779695	0.421017	0.803248
SLC35E1	0.072871	0.063137	0.023943	0.2254	0.593532	0.646995	0.860954	0.094866	-0.00187	0.348139	-0.17725	0.29063	0.49507	0.991128	0.12205	0.974969
MYST3	0.091923	0.256058	-0.27591	0.139299	0.500438	0.056802	0.039559	0.305879	0.013374	0.342573	-0.17615	0.135602	0.535147	0.99011	0.123542	0.815553
C6orf155	0.199053	-0.14923	0.257076	-0.07248	0.137698	0.272319	0.053549	0.592091	0.263379	-0.20766	0.035479	-0.3715	0.961514	0.083059	0.591488	0.005511
ZNF696	-0.05282	-0.08943	0.158492	-0.10035	0.696383	0.512173	0.238979	0.457636	0.060802	-0.34023	0.09862	-0.32247	0.655939	0.010346	0.74038	0.014421
L2HGDH	-0.12595	0.351001	-0.33012	-0.04709	0.350516	0.007993	0.012146	0.727942	-0.24486	0.38093	-0.11079	0.213478	0.050492	0.995496	0.234373	0.922851
C10orf95	-0.16134	-0.26783	0.195221	-0.19322	0.230549	0.045968	0.145593	0.149841	-0.04174	-0.45569	0.153984	-0.31801	0.391507	0.00073	0.843734	0.015631
DHDDS	0.011715	0.065814	-0.00876	0.22764	0.931075	0.629859	0.948457	0.088567	0.003842	0.482531	-0.03676	0.398692	0.509992	0.999606	0.406357	0.996664
PRG2-2	-0.09442	-0.2568	0.279565	-0.27815	0.484778	0.056062	0.035195	0.036169	-0.07324	-0.39678	0.033267	-0.32677	0.314289	0.003166	0.585872	0.013328
C10orf81	-0.16294	-0.19729	0.125528	-0.03724	0.225877	0.144982	0.352159	0.783295	-0.14243	-0.0597	-0.13453	-0.08507	0.175324	0.348422	0.191966	0.289227
C20orf39	-0.10994	-0.10307	0.233587	-0.06905	0.415587	0.449682	0.080333	0.609767	-0.04405	-0.27292	0.115124	-0.134	0.385652	0.033246	0.77429	0.187321
NOL10	-0.01384	0.408758	-0.26217	0.141481	0.918585	0.001762	0.048825	0.293818	0.048897	0.493323	-0.21344	0.259113	0.626539	0.999753	0.079597	0.95897
PDZD7	-0.06813	-0.15275	0.147126	-0.12028	0.614584	0.261067	0.274779	0.372816	0.069537	-0.31137	0.09734	-0.21729	0.675048	0.018669	0.735192	0.075812
ERMP1	-0.07794	0.525379	-0.357	-0.14701	0.564405	3.22E-05	0.006411	0.275146	-0.17895	0.65714	-0.29938	0.392161	0.11704	1	0.022867	0.996486
PAQR6	-0.13039	-0.15208	0.077447	-0.12085	0.333653	0.26319	0.566905	0.370546	0.150022	-0.2307	0.145501	-0.27848	0.840166	0.061476	0.829876	0.030463
DENND1C	-0.10389	-0.37525	0.197797	0.227296	0.441861	0.004376	0.140249	0.089063	0.031306	-0.42766	0.177032	-0.19477	0.581814	0.001516	0.877659	0.097296
CEP76	0.010488	0.28285	-0.25979	0.1213	0.938281	0.034664	0.050991	0.368741	-0.14747	0.496105	-0.09975	0.360531	0.164033	0.999773	0.257222	0.993079
PHF17	0.256787	-0.39447	0.280304	-0.14815	0.053828	0.002626	0.034695	0.271421	0.424668	-0.5916	0.29409	-0.53772	0.998367	7.46E-06	0.975055	5.81E-05
DENND2D	-0.16802	0.083108	-0.09098	0.487447	0.215783	0.546352	0.504871	0.000139	-0.19642	0.388392	-0.24725	0.403804	0.095385	0.996177	0.050764	0.997307
DNAJC22	-0.0929	-0.06542	0.001499	-0.18216	0.491885	0.631934	0.991171	0.175039	0.230778	-0.15705	0.217455	-0.22442	0.938591	0.148623	0.924345	0.066884
SCD5	0.351681	-0.31584	0.202294	-0.11039	0.007305	0.017727	0.131273	0.413665	-0.04239	-0.05325	-0.07933	0.106799	0.389843	0.362617	0.302238	0.760042
WDR76	0.036572	0.241928	-0.15249	-0.07471	0.78901	0.075155	0.261878	0.5842	-0.11243	0.555253	-0.20315	0.255465	0.228462	0.999969	0.090383	0.956692
C6orf134	-0.21812	0.436544	-0.10217	-0.24999	0.10311	0.000769	0.449493	0.060726	-0.09317	0.031286	-0.14951	0.02662	0.268987	0.581762	0.163478	0.569699
ZNF767	0.022084	0.307494	0.067045	0.104638	0.870472	0.021147	0.620231	0.438562	0.285508	-0.05195	0.080403	-0.13446	0.972783	0.365841	0.70022	0.186492
GPR177	-0.0191	0.150141	-0.15802	-0.09495	0.88787	0.269384	0.240386	0.482342	-0.07356	0.226357	0.014317	0.206632	0.315537	0.932569	0.536745	0.913381
ZNF442	-0.00671	-0.36217	0.214831	-0.22775	0.960501	0.00609	0.108536	0.088406	0.082715	-0.53767	0.149937	-0.29022	0.707639	5.83E-05	0.837215	0.0252
C7orf58	0.311673	-0.18801	0.133341	0.221589	0.018272	0.165253	0.32275	0.097609	0.303982	-0.40748	0.285545	-0.15014	0.980005	0.002472	0.971375	0.159639
GRHL2	-0.09756	0.300082	-0.18791	-0.21202	0.470336	0.024639	0.161577	0.113352	-0.18054	0.511031	-0.23961	0.224308	0.117651	0.999833	0.058613	0.930738
TRMT2B	-0.16111	0.280582	-0.23523	0.084517	0.231213	0.036206	0.078171	0.531926	-0.17732	0.608858	-0.27808	0.398185	0.119219	0.999996	0.032188	0.996934
DSN1	-0.06732	0.305068	-0.11719	0.318846	0.622005	0.023527	0.389705	0.016616	-0.09291	0.644927	-0.25332	0.469725	0.269557	0.999999	0.046574	0.999505
FRMD1	0.042324	-0.1585	0.207125	-0.29695	0.754587	0.2433	0.122121	0.024889	0.077514	-0.47816	0.108194	-0.37793	0.695684	0.000388	0.760355	0.004805
DNAJB14	0.101266	0.191375	-0.16961	0.182452	0.453535	0.15768	0.20718	0.174338	0.186912	0.204405	-0.10685	0.208998	0.893215	0.9135	0.242394	0.91833

POF1B	-0.1312	0.382399	-0.27169	-0.13913	0.335112	0.003962	0.042808	0.306477	-0.24146	0.614085	-0.22231	0.392301	0.052982	0.999997	0.071086	0.996497
ZNF702P	0.035433	0.212205	-0.1493	0.063816	0.793576	0.116387	0.267655	0.637208	-0.2251	0.25477	-0.1525	0.2911	0.066283	0.956247	0.158632	0.975162
SVEP1	0.284965	-0.12062	0.082323	0.418718	0.031671	0.375897	0.542665	0.001189	0.275298	-0.04162	0.274824	0.249154	0.967968	0.391788	0.966154	0.952519
TTC26	-0.0743	-0.07044	-0.05808	-0.16815	0.582826	0.605933	0.667833	0.211195	-0.24757	-0.17544	0.028109	-0.06595	0.048574	0.121764	0.572714	0.331624
PLEKHH3	-0.07195	0.078427	0.020501	-0.01934	0.594837	0.565601	0.879687	0.886446	-0.00284	0.130758	-0.03807	0.058578	0.492527	0.806799	0.401954	0.650509
OBFC1	-0.0702	0.312698	-0.29653	-0.0713	0.603851	0.018955	0.025107	0.598167	-0.16847	0.347692	-0.28052	0.148583	0.131527	0.99105	0.030987	0.837808
C6orf59	-0.05388	-0.17592	0.033602	-0.0885	0.690562	0.194663	0.804027	0.512715	0.143789	-0.32938	0.13915	-0.18932	0.829794	0.0127	0.819017	0.103811
ELOVL7	0.126049	-0.06455	-0.0047	0.434678	0.35015	0.636455	0.972325	0.000728	0.29305	-0.10612	0.192474	0.119201	0.974629	0.243899	0.894663	0.782277
ANKRD53	0.090811	-0.24999	0.290106	-0.20956	0.501704	0.06314	0.028594	0.117703	0.167249	-0.34144	0.326595	-0.33529	0.866708	0.010108	0.985725	0.011368
CALD1	0.388458	-0.21303	0.28795	0.137814	0.003091	0.11839	0.031395	0.311115	0.368288	-0.43457	0.380982	-0.21801	0.994104	0.001273	0.995088	0.072764
PSCA	-0.13311	0.193133	-0.06537	-0.12339	0.323596	0.153827	0.629037	0.360493	-0.13677	0.0944	-0.02242	-0.19086	0.182374	0.733695	0.441895	0.101942
KIAA1772	0.050199	-0.19757	0.019557	-0.33162	0.713309	0.144402	0.886241	0.012533	0.198852	-0.39912	0.209527	-0.45163	0.904821	0.003305	0.91388	0.000922
PCNXL2	0.054803	0.163278	-0.14422	0.197929	0.685559	0.229212	0.284475	0.139978	0.050226	0.321015	-0.07327	0.249109	0.628412	0.984226	0.318227	0.950547
RBM35B	-0.11263	0.290398	-0.05469	-0.10147	0.404191	0.029919	0.686194	0.452613	-0.19746	0.550295	-0.3409	0.210677	0.094189	0.999963	0.010965	0.920047
DOCK5	-0.05955	0.220095	-0.2253	0.215222	0.659912	0.103112	0.091978	0.10788	0.107325	0.07242	0.089498	-0.1087	0.761128	0.683777	0.720609	0.236038
C5orf44	-0.00939	0.278356	-0.25806	0.133841	0.94476	0.037774	0.052608	0.320921	0.008744	0.396268	-0.12686	0.235892	0.522997	0.996797	0.203153	0.942743
C10orf88	-0.02862	0.199812	-0.17101	0.163547	0.832644	0.139819	0.203425	0.224137	0.054778	0.345579	-0.10663	0.283494	0.641164	0.990671	0.242849	0.971882
TMEM156	0.034621	0.017032	-0.06238	0.329991	0.801865	0.90271	0.650977	0.013878	-0.19472	0.089257	-0.10334	0.224585	0.099958	0.720077	0.252212	0.930988
GLRA3	0.099936	-0.28803	0.173787	-0.22286	0.463669	0.032971	0.200212	0.098754	0.058829	-0.38814	0.145801	-0.30957	0.651123	0.003845	0.830378	0.018149
RMI1	-0.08877	0.000462	-0.18778	-0.04877	0.511385	0.997306	0.161888	0.718649	-0.12166	0.196275	-0.02884	0.059508	0.21028	0.904449	0.425421	0.652782
NIP30	-0.09768	0.221202	0.070898	0.085397	0.469747	0.101348	0.600228	0.527647	-0.16113	0.019222	0.021117	0.108896	0.142358	0.550449	0.554756	0.764357
PHC3	0.062377	0.054997	0.013186	0.256061	0.644836	0.687257	0.922449	0.054533	0.273585	0.025429	0.039166	0.065488	0.967098	0.566609	0.600808	0.667276
C10orf97	0.018713	0.165311	-0.13526	0.137791	0.89011	0.223387	0.31577	0.306715	0.067037	0.164007	0.011402	0.121051	0.670991	0.861953	0.529628	0.788541
WWC2	0.219188	0.019159	0.006352	0.189199	0.101389	0.888543	0.962598	0.158674	0.338388	-0.11937	0.125284	0.02588	0.989282	0.214725	0.793897	0.56778
C14orf159	-0.27231	0.210082	-0.03529	0.28299	0.042319	0.123691	0.796255	0.034571	-0.01403	0.1596	-0.03189	0.135083	0.464	0.849629	0.419574	0.809012
C12orf30	-0.08147	0.402456	-0.33784	0.170349	0.546857	0.002105	0.010165	0.205192	-0.09462	0.46434	-0.30014	0.236963	0.265821	0.999424	0.022579	0.943586
UBTD1	0.007586	-0.17795	0.26921	-0.18143	0.955339	0.18947	0.042865	0.176806	-0.04874	-0.35984	-0.01223	-0.37852	0.37527	0.007593	0.4686	0.005175
FOXRED2	0.181362	0.00139	0.134434	-0.05729	0.17697	0.991888	0.318762	0.6721	0.160705	0.131133	-0.04925	-0.0561	0.856995	0.807486	0.374012	0.355568
TMEM62	-0.12305	0.390635	-0.2569	0.124568	0.361826	0.002915	0.05372	0.355885	-0.12769	0.521318	-0.18827	0.369912	0.198874	0.999898	0.107755	0.994301
MYO15B	0.041955	-0.24848	0.14196	-0.07053	0.75666	0.064803	0.292168	0.602118	0.032734	-0.2031	0.044302	-0.1561	0.585491	0.087907	0.613697	0.150105
NRSN2	0.047905	-0.09406	0.172552	-0.30941	0.723438	0.490493	0.199307	0.01918	-0.24175	-0.20484	0.046884	-0.1809	0.052764	0.08603	0.620132	0.114472
SLC24A6	0.045227	0.205765	-0.05733	0.333072	0.738334	0.128158	0.671845	0.011352	0.11906	0.464651	-0.14211	0.223506	0.784679	0.999429	0.175878	0.932299
PANK2	-0.25346	-0.11347	-0.22536	-0.05098	0.057121	0.405019	0.091888	0.706485	-0.40919	0.2285	-0.14321	0.089882	0.002374	0.936669	0.173992	0.723756
FBXL18	0.115218	0.09081	0.258705	-0.18713	0.39341	0.505659	0.052001	0.163356	-0.02236	-0.12724	0.119234	-0.16834	0.441381	0.199717	0.782341	0.131719
SEMA6D	0.329228	-0.09186	0.093631	0.16197	0.012395	0.500745	0.48846	0.228696	0.376617	-0.27468	0.323521	-0.04044	0.995057	0.032346	0.984915	0.394809
ZNF556	-0.01088	-0.08426	0.145334	-0.03023	0.935968	0.53697	0.280731	0.823365	0.264416	-0.02763	0.150245	-0.1248	0.962114	0.427693	0.837717	0.204292
CSRNP3	0.263725	-0.19082	0.073879	-0.17402	0.047455	0.158912	0.584955	0.195454	0.250821	0.03111	0.22325	0.058222	0.95365	0.581309	0.929778	0.649638
C15orf28	-0.04577	-0.13374	0.10009	0.050592	0.73529	0.325753	0.458825	0.708597	-0.01936	-0.34363	-0.09159	-0.19858	0.449182	0.009689	0.274804	0.092922
TRPM3	0.142565	0.113974	0.190105	-0.13979	0.294562	0.407363	0.160508	0.304151	0.151306	-0.28559	0.179233	-0.32044	0.842253	0.027183	0.880615	0.014962
GPR157	-0.14705	0.143178	0.112632	0.177761	0.279482	0.297026	0.408527	0.189957	-0.21428	0.508434	-0.15308	0.310165	0.076356	0.999845	0.157699	0.982038
LOC100133	0.089483	-0.26709	0.318699	-0.18984	0.511923	0.04869	0.016669	0.161105	0.176455	-0.34347	0.317168	-0.33272	0.879617	0.009719	0.983119	0.011931
LOC80054	-0.00325	-0.06523	0.170883	-0.15683	0.980857	0.632919	0.203753	0.244	0.191154	-0.35541	0.18136	-0.31833	0.898414	0.007678	0.883425	0.015542
PGAP1	-0.00271	0.281696	-0.19941	-0.09613	0.984046	0.035442	0.136975	0.476882	-0.16421	0.421463	-0.1384	0.321455	0.137742	0.998233	0.182294	0.985312
LRRTM4	0.269311	-0.13043	0.268074	0.215527	0.042785	0.338007	0.043785	0.10737	0.095771	-0.16165	0.059674	0.095561	0.736676	0.141568	0.651504	0.736221
ATF7IP2	-0.18099	-0.07229	-0.09814	-0.01704	0.177867	0.596505	0.467661	0.899858	-0.12873	0.031749	0.023877	0.068884	0.19694	0.582954	0.56186	0.675401
C2orf37	-0.00136	0.19817	-0.21574	0.157022	0.992017	0.143171	0.107009	0.24342	0.05975	0.36274	-0.09674	0.136244	0.653373	0.993385	0.263639	0.816696
C6orf208	-0.09323	0.001648	0.142176	-0.07366	0.494342	0.990383	0.295896	0.589508	0.234384	-0.15408	0.170164	-0.20943	0.941542	0.153305	0.86812	0.081228
ADAMTS20	0.021763	-0.13837	0.154234	-0.16409	0.872344	0.309145	0.251998	0.222568	0.074125	-0.4274	0.14679	-0.34708	0.685779	0.001704	0.829154	0.009749
CCDC15	-0.01945	0.231513	-0.12885	-0.24245	0.885828	0.086012	0.339469	0.069201	0.056542	0.129056	-0.11256	-0.03754	0.643904	0.80092	0.233478	0.403289
C15orf34	-0.3027	0.173681	-0.01219	-0.30185	0.022099	0.200492	0.928303	0.022492	-0.10642	-0.16161	0.067921	-0.18615	0.240744	0.14163	0.671232	0.107743

TUBA4B	-0.22934	-0.22371	0.008823	-0.38126	0.086152	0.097435	0.948065	0.003433	-0.25326	-0.44741	0.03712	-0.26743	0.044733	0.000912	0.595643	0.036188
LOC100133	0.007415	-0.3402	0.215739	-0.19596	0.956345	0.010305	0.107016	0.144035	0.11724	-0.57437	0.116506	-0.38233	0.781114	1.50E-05	0.777015	0.004369
FLJ14100	0.177431	-0.18815	0.326431	-0.37618	0.186702	0.164944	0.013205	0.003927	0.205925	-0.3776	0.298767	-0.30164	0.915121	0.004839	0.976901	0.020813
FLJ14107	0.229958	-0.055	0.113467	-0.14203	0.085282	0.687225	0.400686	0.291942	0.100356	-0.16239	0.114819	-0.22406	0.746524	0.140461	0.773686	0.067204
ZNF606	-0.06463	-0.1358	-0.00621	-0.30421	0.636045	0.322863	0.963747	0.022641	-0.23846	-0.26244	0.008279	-0.1932	0.055255	0.039037	0.521522	0.09915
FAM128B	0.024055	-0.0453	0.133465	-0.11441	0.859025	0.74025	0.322294	0.396741	0.262855	-0.09492	0.149456	-0.1475	0.961209	0.265182	0.836428	0.163976
FLJ21075	-0.07084	-0.01413	0.102318	-0.11681	0.600507	0.917683	0.448832	0.386871	0.059031	-0.25494	0.078985	-0.22789	0.649949	0.045499	0.694848	0.066081
CALM1	-0.02055	0.07661	-0.13097	-0.10808	0.879415	0.574666	0.331491	0.423563	-0.21993	0.073214	-0.10926	0.083339	0.070964	0.685646	0.23748	0.709058
LOC100133	0.037251	0.011042	0.048954	0.25695	0.785184	0.936229	0.720126	0.055915	0.189273	-0.26644	0.055755	-0.10404	0.89348	0.038434	0.640377	0.248219
ZFP2	0.072192	0.056447	0.202125	-0.25072	0.593577	0.679451	0.131602	0.059952	0.285703	-0.36363	0.139327	-0.3063	0.972869	0.006495	0.819325	0.019212
ZNF614	0.157548	0.183543	-0.10375	0.061312	0.241824	0.175716	0.442499	0.650499	0.078748	0.284832	-0.14477	0.159123	0.69644	0.971049	0.174226	0.851772
C3orf36	0.081836	-0.25871	0.273905	-0.05871	0.545059	0.054195	0.039233	0.664434	0.027896	-0.30861	0.148201	-0.21747	0.573005	0.018457	0.834367	0.073274
WBSCR23	-0.13264	0.094922	0.108324	-0.12953	0.329794	0.490605	0.426799	0.341351	-0.02801	0.267314	0.139845	0.149288	0.426702	0.963749	0.820226	0.838966
BICC1	0.152973	-0.34909	0.158604	-0.07674	0.255941	0.008365	0.238645	0.570449	0.062067	-0.30351	0.257789	-0.00199	0.657273	0.021341	0.954432	0.494828
BAIAP2L2	0.072469	-0.15233	0.236822	-0.20325	0.592159	0.262385	0.076116	0.129413	0.266396	-0.37824	0.184171	-0.35827	0.963237	0.004774	0.887068	0.007247
ARL14	0.054325	-0.29903	0.142398	-0.27408	0.690886	0.02657	0.295137	0.040948	0.046728	-0.27635	-0.05419	-0.29923	0.619743	0.033059	0.363416	0.022923
PIF1	-0.0277	-0.06399	0.1501	-0.14674	0.837961	0.6394	0.265086	0.27604	0.088167	-0.24761	0.060175	-0.32655	0.719938	0.048544	0.652716	0.013383
YSK4	-0.09523	-0.14038	0.03701	-0.18357	0.481019	0.302103	0.784607	0.171678	-0.14418	-0.26264	0.120008	-0.18684	0.169543	0.038917	0.78384	0.106871
VCIPI1	-0.06931	0.120108	-0.28967	0.165135	0.608441	0.377922	0.028847	0.219608	0.025918	0.152893	0.025085	0.134863	0.567102	0.841994	0.564202	0.811456
CCDC33	-0.1822	-0.23442	0.077609	-0.40497	0.174942	0.082033	0.566088	0.001779	-0.23669	-0.42253	0.021735	-0.3727	0.05663	0.001721	0.556347	0.005373
C14orf45	-0.17584	-0.06416	-0.03062	-0.15225	0.190749	0.638491	0.821094	0.258237	-0.18203	-0.24234	0.060633	-0.08994	0.112999	0.052327	0.653822	0.276108
TRIM46	-0.02025	-0.10446	0.2128	-0.16156	0.881171	0.443558	0.111998	0.229893	0.055296	-0.38584	0.221133	-0.27615	0.642442	0.004045	0.927828	0.031604
C6orf97	-0.10533	-0.17091	0.013758	-0.18286	0.435536	0.207873	0.919093	0.173352	-0.18047	-0.27281	0.096294	-0.17713	0.115036	0.033302	0.735406	0.119471
NR4A3	0.233179	-0.1104	0.137959	0.021305	0.086659	0.426788	0.315164	0.877304	0.439015	-0.15529	0.125213	-0.30429	0.998723	0.154192	0.790988	0.021062
LRR8E	-0.16774	0.057438	-0.11017	-0.31405	0.21233	0.674137	0.41461	0.017359	-0.16762	-0.11386	0.02378	-0.1864	0.13276	0.225597	0.56161	0.107431
C1orf129	-0.10212	-0.34055	-0.00718	-0.17826	0.449725	0.010223	0.957701	0.184606	-0.15883	-0.44747	0.069747	-0.20031	0.145877	0.000911	0.675541	0.090979
BXDC5	-0.08667	0.244396	-0.33833	0.054583	0.521479	0.069482	0.010048	0.686755	-0.18802	0.352418	-0.14832	0.26099	0.105413	0.991848	0.165443	0.960105
ZNF703	-0.01044	-0.08692	0.202784	-0.01775	0.939153	0.52413	0.133901	0.896717	-0.05301	-0.11934	-0.05824	-0.18995	0.364724	0.217462	0.353638	0.105691
PTGES2	-0.12969	0.007489	0.057033	0.005636	0.336284	0.956312	0.673466	0.966809	-0.15071	0.167468	-0.12701	0.083002	0.15872	0.867027	0.202879	0.708291
RP5-1000E	-0.09096	0.331838	-0.24019	0.240486	0.501013	0.012473	0.071908	0.071553	-0.086	0.5451	-0.3109	0.437713	0.284916	0.999955	0.018821	0.998825
FRAS1	0.063594	0.251206	-0.08394	0.019055	0.638382	0.061828	0.53474	0.888118	-0.25876	0.38629	-0.14778	0.329202	0.041246	0.995995	0.166327	0.987258
THOC7	-0.01264	0.240685	-0.37908	0.028765	0.925622	0.073959	0.003637	0.83179	-0.18143	0.563638	-0.2669	0.44015	0.11377	0.999977	0.038169	0.998897
UXS1	0.019946	0.38521	-0.21263	-0.04372	0.883994	0.003682	0.115642	0.748985	-0.20324	0.551478	-0.2008	0.32861	0.087754	0.999964	0.092984	0.987117
PQLC1	0.049127	-0.35082	0.064865	-0.13335	0.716677	0.008028	0.631672	0.322703	-0.03201	-0.17977	0.014823	-0.27171	0.417315	0.118667	0.53804	0.035495
ZC3H12A	-0.08931	-0.10111	0.083116	0.241112	0.508835	0.458412	0.538771	0.070796	0.027152	0.237227	-0.07715	0.082324	0.571077	0.943792	0.307229	0.706746
ASRGL1	-0.06885	0.026481	0.01186	0.190295	0.614118	0.847809	0.930865	0.160083	-0.13394	0.081761	0.039238	0.04326	0.187421	0.705461	0.60099	0.612356
CENPT	0.065944	-0.11431	0.280649	0.049139	0.625997	0.401552	0.034463	0.716613	0.174111	-0.08572	0.018977	-0.09142	0.876414	0.285542	0.549236	0.272842
EDC3	0.029233	0.212766	-0.12334	0.070499	0.830648	0.118858	0.365127	0.60564	-0.32943	0.279799	-0.34615	0.294189	0.012688	0.970168	0.009923	0.976402
NARG1	-0.10117	0.368303	-0.32918	0.101778	0.453946	0.005224	0.012408	0.451246	-0.08619	0.516811	-0.20193	0.430183	0.284499	0.999882	0.091723	0.998577
FLJ21511	-0.02994	-0.31632	-0.09859	-0.36813	0.825012	0.017545	0.465636	0.00484	-0.31115	-0.22131	-0.12429	-0.13977	0.017653	0.069696	0.207971	0.177102
ATHL1	0.070773	-0.2192	0.126967	0.218801	0.600876	0.104554	0.346623	0.102008	-0.01008	-0.1089	-0.02286	0.021106	0.473492	0.235632	0.440766	0.555362
LOC100133	0.110747	0.096815	-0.07861	-0.18184	0.412147	0.477811	0.561096	0.1758	0.199892	0.082035	0.225887	-0.05153	0.908555	0.706088	0.932152	0.366896
FLJ22184	-0.08778	-0.22165	0.196301	-0.14948	0.516138	0.100634	0.143334	0.267072	0.008958	-0.35268	0.140921	-0.27605	0.523557	0.008109	0.822086	0.031656
C4orf29	-0.11419	0.339952	-0.30294	0.269834	0.397671	0.010364	0.021988	0.042367	0.047974	0.49504	-0.20159	0.294744	0.624228	0.999765	0.092104	0.976619
MOGAT2	0.088875	-0.06478	0.278474	-0.07453	0.510906	0.635238	0.035946	0.581635	0.143459	-0.39327	0.223065	-0.41998	0.829233	0.003428	0.92961	0.001832
C17orf68	0.230713	-0.18687	0.230426	0.250285	0.084233	0.167881	0.084631	0.060415	0.325756	-0.16846	0.240911	-0.14219	0.986421	0.131549	0.944553	0.172935
IFT74	-0.0927	-0.01252	-0.15348	-0.19727	0.49279	0.927037	0.254351	0.141336	-0.17511	-0.12517	0.088743	-0.06178	0.122211	0.203602	0.718942	0.34168
DBF4B	0.057383	-0.09851	0.133931	-0.50541	0.671579	0.47008	0.320592	6.07E-05	-0.07487	-0.00093	-0.11992	-0.11467	0.312495	0.497593	0.219055	0.226617
SPSB1	-0.27462	0.321458	-0.20214	-0.07069	0.038701	0.0157	0.131577	0.601288	-0.38539	0.467611	-0.20136	0.305548	0.004086	0.999475	0.09236	0.980537
MYCT1	0.081873	-0.20466	0.084754	-0.0192	0.544879	0.13026	0.530772	0.887268	0.047826	-0.40022	-0.0048	-0.13675	0.622471	0.003224	0.487671	0.18519

C16orf59	0.031364	-0.15474	0.219739	-0.29975	0.816846	0.254802	0.10051	0.023495	-0.10347	-0.38155	0.202233	-0.30099	0.249403	0.004853	0.905996	0.022262
MYO19	-0.13774	0.379741	-0.18158	0.266009	0.30689	0.003894	0.176431	0.045497	-0.02637	0.649934	-0.30167	0.399523	0.430955	0.999999	0.02201	0.997027
C13orf18	0.013555	-0.27397	0.143023	0.189058	0.921015	0.042963	0.292998	0.162867	-0.02901	-0.47401	0.201515	-0.33628	0.424979	0.000502	0.905193	0.011956
CEP290	-0.08056	0.014045	-0.10804	-0.1302	0.551359	0.91817	0.423733	0.334379	-0.13277	-0.10443	0.057178	-0.00792	0.189542	0.244875	0.645453	0.479164
C8orf41	-0.07489	0.146158	-0.19912	0.047915	0.579818	0.282438	0.137568	0.723382	-0.30052	0.529618	-0.2607	0.428545	0.021213	0.999923	0.041848	0.998518
BRD3	0.02464	-0.1228	0.265557	-0.14478	0.855636	0.367256	0.04588	0.282594	0.031344	-0.18631	0.215596	-0.2823	0.581911	0.107541	0.922538	0.028661
TMEM134	-0.12774	0.054509	-0.07842	-0.04874	0.343669	0.689889	0.562012	0.718807	-0.13105	0.240779	-0.29065	0.072482	0.192664	0.94651	0.026377	0.683924
C10orf57	-0.1988	0.079482	-0.18683	-0.19988	0.138215	0.560369	0.164053	0.136044	-0.28422	0.074421	-0.12172	0.046964	0.027792	0.688477	0.212864	0.621692
RNF34	-0.07507	0.293741	-0.24942	0.337791	0.578888	0.027999	0.061333	0.010176	-0.12917	0.536632	-0.24017	0.398135	0.196126	0.99994	0.056016	0.996931
MUS81	-0.0853	-0.20647	0.118097	-0.06939	0.528104	0.126833	0.381616	0.60803	-0.07851	-0.29873	0.033905	-0.19311	0.302008	0.021866	0.587494	0.099245
FUZ	-0.29643	-0.1897	-0.02842	-0.30631	0.025155	0.16141	0.833785	0.020483	-0.21954	-0.36766	0.001207	-0.33647	0.071324	0.005974	0.503138	0.011116
HKDC1	-0.05195	-0.16964	0.084561	-0.19981	0.701138	0.211338	0.531711	0.136168	0.173748	-0.2492	0.245508	-0.21071	0.875913	0.047448	0.947978	0.079919
FBXO11	0.01268	0.086365	-0.23217	0.104721	0.925416	0.526798	0.082232	0.438193	-0.00124	0.230861	0.009338	0.216027	0.496727	0.93866	0.524273	0.925339
CHD9	0.101169	0.18566	-0.12671	0.130326	0.45397	0.170698	0.347617	0.33391	0.286293	0.214256	0.057046	0.200712	0.973127	0.923617	0.645131	0.909468
FHOD3	0.342306	-0.46211	0.133608	-0.24371	0.009814	0.000383	0.326251	0.07029	0.241584	-0.52714	0.133125	-0.46843	0.947111	8.36E-05	0.808338	0.000513
OPA3	-0.10206	-0.01798	0.177429	-0.06682	0.44998	0.895385	0.186707	0.621386	-0.04772	-0.30397	0.098536	-0.32141	0.37642	0.02	0.740202	0.014699
SPG11	-0.12786	0.130637	-0.18548	0.153242	0.343222	0.337221	0.167177	0.255096	-0.21495	0.362757	-0.13998	0.264134	0.075707	0.993388	0.17954	0.961951
C13orf23	0.096369	0.40011	-0.13308	0.270233	0.475775	0.002248	0.323696	0.042051	0.111044	0.549047	-0.24229	0.399545	0.768734	0.999961	0.054399	0.997028
NUP214	-0.13258	0.256126	-0.12587	0.115232	0.330009	0.059097	0.355283	0.397725	-0.24912	0.342054	-0.13843	0.237425	0.047507	0.990011	0.182232	0.943946
ARMC9	-0.06816	-0.1094	0.012492	-0.25961	0.614407	0.422205	0.926516	0.051154	-0.0841	-0.30427	0.031306	-0.2278	0.289213	0.019896	0.580882	0.063927
CCDC92	-0.10281	-0.13011	0.082496	-0.09275	0.446629	0.3392	0.541811	0.492581	-0.16377	-0.15449	0.133835	-0.18678	0.141201	0.155455	0.809616	0.109621
TM2D3	0.156249	0.051995	-0.10273	0.266071	0.245778	0.703517	0.446994	0.045445	0.262558	0.216602	-0.01334	0.097547	0.961035	0.925893	0.465358	0.740513
ALPK1	-0.08397	0.166027	-0.05707	0.143491	0.538374	0.221361	0.676099	0.291408	-0.22266	0.436625	-0.06443	0.227429	0.068467	0.998792	0.337068	0.93575
C10orf79	-0.05403	-0.15343	0.072157	-0.17441	0.689747	0.258905	0.593755	0.194439	-0.07008	-0.30999	0.143905	-0.23782	0.321745	0.018016	0.827185	0.055746
NAT13	-0.03316	0.390148	-0.37088	0.170421	0.806533	0.002954	0.00451	0.204999	-0.02254	0.608056	-0.21104	0.432134	0.440901	0.999996	0.082022	0.998646
COQ10B	-0.05826	0.185621	-0.31091	0.184077	0.669763	0.174842	0.019685	0.174439	-0.01911	0.303043	-0.19392	0.248281	0.449833	0.97968	0.100902	0.951919
LHX3	-0.02647	-0.17323	0.188241	-0.13457	0.846461	0.205954	0.164725	0.32275	0.036421	-0.47016	0.17035	-0.35617	0.594952	0.000489	0.868385	0.007561
ACSF2	-0.08455	-0.04335	-0.11407	-0.10883	0.535574	0.753353	0.40252	0.424634	0.182097	-0.12408	0.088665	-0.13129	0.887093	0.205669	0.71877	0.192232
TARS2	-0.26001	0.257006	-0.0192	0.007257	0.05079	0.055859	0.887275	0.957275	-0.35852	0.337529	-0.16297	0.222623	0.00721	0.989105	0.142393	0.931504
RAB11FIP1	-0.11053	0.220813	-0.17154	-0.33525	0.413073	0.101965	0.201988	0.010794	-0.19399	0.156354	-0.07983	-0.07729	0.098207	0.850286	0.301082	0.30483
NUBPL	-0.04409	-0.03287	-0.21617	-0.10498	0.744671	0.809929	0.106295	0.437056	-0.3131	0.160905	-0.15257	0.106622	0.017059	0.857298	0.158521	0.759676
PAAF1	-0.12173	0.253868	-0.21716	0.010061	0.371453	0.061447	0.107905	0.941331	-0.21778	0.383104	-0.07143	0.212868	0.075345	0.995306	0.322484	0.91983
ORAI2	-0.24171	-0.33895	0.06788	-0.05367	0.07008	0.010608	0.615874	0.69175	-0.41527	-0.30863	-0.06377	-0.08607	0.002053	0.018451	0.338637	0.284764
RUFY1	-0.20356	-0.06622	-0.30834	-0.00624	0.128818	0.627751	0.019621	0.96325	-0.332	0.098878	-0.08556	0.099484	0.012094	0.743371	0.288137	0.744667
CXorf21	-0.01901	-0.18955	-0.10237	0.449133	0.889376	0.165727	0.452783	0.000516	0.030284	-0.01138	0.110866	0.148231	0.577358	0.470769	0.760454	0.831539
WDR26	-0.09103	0.283992	-0.28042	0.032967	0.500667	0.033909	0.034618	0.807658	-0.01067	0.312947	-0.11823	0.11435	0.471949	0.982896	0.219613	0.775387
C17orf70	0.022129	-0.02496	0.134724	-0.04757	0.870211	0.855132	0.317709	0.725282	0.099592	0.124855	0.059365	0.001832	0.744897	0.795809	0.650759	0.504819
PIGZ	0.008325	-0.09377	0.219014	-0.11185	0.950991	0.491832	0.101667	0.407476	0.111481	-0.06557	0.350829	-0.18165	0.769621	0.332537	0.990933	0.113488
ELL3	-0.31945	0.12234	-0.18039	-0.25168	0.015428	0.369058	0.179336	0.058954	-0.39855	-0.04616	-0.1412	-0.0147	0.003347	0.38166	0.180296	0.461826
PREX2	0.284242	-0.18174	0.076502	0.341223	0.032125	0.180059	0.57166	0.009389	0.297182	-0.09276	0.174567	0.167334	0.977555	0.269897	0.87429	0.866832
CEP63	0.048279	0.06742	-0.0617	0.082911	0.72137	0.621514	0.648432	0.539776	0.199079	-0.3191	0.056018	-0.19548	0.907643	0.015326	0.642628	0.09647
SLC35F5	0.040963	0.274531	-0.17984	0.18702	0.762241	0.0406	0.180695	0.163616	0.048288	0.376962	-0.1224	0.262823	0.625016	0.995094	0.211576	0.96119
KIAA1539	-0.05179	-0.0453	0.056745	-0.11955	0.702018	0.740237	0.675025	0.375739	0.034643	-0.27896	0.055938	-0.3041	0.590395	0.03023	0.642434	0.019953
EFHC2	-0.05798	-0.108	0.017186	-0.19779	0.668372	0.428205	0.899028	0.140272	-0.18793	-0.28651	0.098291	-0.15118	0.105515	0.026777	0.739681	0.157956
C16orf70	-0.30618	0.255005	-0.15944	0.120905	0.021734	0.060255	0.240484	0.374743	-0.19926	0.531264	-0.20656	0.28658	0.094718	0.999913	0.086691	0.971842
TRIM45	0.042693	0.21052	-0.03034	-0.13092	0.752512	0.119384	0.822715	0.331674	-0.03964	-0.00508	-0.05093	0.010152	0.39684	0.486634	0.36986	0.526692
ZNF430	0.095628	0.380461	-0.03526	0.046115	0.479193	0.003821	0.79456	0.733385	0.008809	0.223616	-0.20652	0.154916	0.523166	0.932397	0.086738	0.848025
EDEM3	-0.02971	0.242022	-0.05636	0.090943	0.826338	0.07232	0.67712	0.50108	0.051946	0.205217	-0.0881	0.173594	0.634146	0.914368	0.28249	0.875699
STAM	-0.1241	0.428343	-0.33539	0.100339	0.357703	0.00099	0.01076	0.457703	-0.15232	0.44497	-0.22435	0.334295	0.156111	0.999027	0.069224	0.988416
HSD3B7	-0.01569	-0.19986	0.270335	-0.07365	0.907781	0.139712	0.041971	0.586135	0.171583	-0.26736	0.218728	-0.17913	0.872896	0.036225	0.925564	0.1168

ITPKC	-0.05374	0.062942	-0.01911	-0.02383	0.69135	0.644906	0.88778	0.860331	0.007301	0.246954	-0.05362	0.130682	0.519204	0.950994	0.363246	0.806661
GRPEL1	-0.05774	0.038142	-0.27157	0.014493	0.672542	0.782186	0.042903	0.915568	-0.12064	0.522678	-0.29525	0.249646	0.21225	0.999903	0.024477	0.952856
SCUBE1	0.301739	-0.29486	0.317202	0.159283	0.022545	0.027379	0.016207	0.236613	0.41352	-0.38743	0.353912	-0.21794	0.997858	0.003906	0.991462	0.072837
CDK5RAP3	-0.01833	-0.05934	0.151948	0.052733	0.892376	0.663988	0.259179	0.696848	-0.0179	0.085687	-0.11078	-0.02314	0.453011	0.714374	0.234391	0.439343
MLLT10	-0.00245	0.257516	-0.19485	-0.01841	0.985585	0.055358	0.146365	0.891865	0.174628	0.211246	-0.10087	0.094916	0.877125	0.920623	0.254847	0.73482
CUBN	-0.06475	-0.29684	0.03952	-0.26062	0.632266	0.02631	0.770382	0.050227	-0.22121	-0.43974	-0.21715	-0.31027	0.072103	0.001254	0.078401	0.019028
MTERFD3	0.060406	0.019894	-0.08838	0.06383	0.655338	0.884294	0.513294	0.637134	0.31229	-0.04972	0.19015	0.063109	0.982696	0.371392	0.894555	0.661537
CCDC6	-0.12781	0.427979	-0.11037	0.057811	0.347861	0.001116	0.41806	0.67214	-0.0515	0.621512	-0.13073	0.416988	0.366959	0.999998	0.196016	0.99803
PLEKHO2	0.072775	-0.26632	0.178371	0.379762	0.59059	0.04726	0.18434	0.003572	0.311251	-0.35017	0.24587	-0.11988	0.982377	0.008523	0.948241	0.213722
EFHD1	0.160322	-0.36061	0.303583	-0.00506	0.233532	0.006329	0.021693	0.970212	0.383558	-0.6059	0.283018	-0.44173	0.995747	4.06E-06	0.970206	0.001059
C2orf44	0.011137	0.148034	-0.18376	0.164109	0.934469	0.276237	0.171205	0.222526	-0.08912	0.523497	-0.13195	0.351711	0.277939	0.999905	0.193791	0.991733
TRABD	0.004606	0.04098	0.154298	0.11738	0.973124	0.766423	0.256194	0.388927	0.165391	-0.10041	0.184152	-0.07953	0.861206	0.255832	0.884273	0.301777
MED28	-0.01834	0.15785	-0.2019	0.163167	0.892278	0.245276	0.132051	0.225231	0.042396	0.296088	-0.21277	0.233521	0.610168	0.977139	0.080269	0.940846
FER1L4	-0.17149	0.171647	-0.07386	-0.10104	0.202134	0.205897	0.585028	0.454543	-0.3993	0.362712	-0.12505	0.197872	0.002989	0.993382	0.206542	0.906277
FLAD1	-0.01201	0.048108	0.049776	-0.1281	0.930018	0.727253	0.715624	0.346782	-0.1654	0.057994	-0.11459	-0.05327	0.135986	0.649077	0.226764	0.362557
SPHKAP	0.029941	0.119278	0.021368	-0.23925	0.825021	0.381252	0.87464	0.073071	0.297137	-0.33652	0.1431	-0.37962	0.977538	0.011105	0.825819	0.004633
NCOA4	-0.05371	0.295416	-0.32174	0.268101	0.691497	0.027076	0.014665	0.043763	-0.02808	0.339782	-0.12043	0.224815	0.426522	0.989564	0.215349	0.933466
PDGFD	0.239926	-0.15448	0.244558	0.228478	0.074902	0.260126	0.069291	0.090323	0.255897	-0.1401	0.291374	-0.01947	0.956967	0.17654	0.973929	0.44891
KLHL15	0.183889	-0.08594	-0.00229	0.113138	0.170912	0.528827	0.986494	0.402063	0.109104	0.032247	-0.04333	0.06216	0.764782	0.584237	0.388729	0.659237
TET1	0.196321	-0.11268	0.141746	0.130965	0.143292	0.408346	0.292904	0.331524	0.144991	-0.07259	0.228512	-0.02072	0.831827	0.315833	0.934456	0.445643
LRRC27	-0.13623	-0.1202	0.118899	-0.38367	0.312297	0.377542	0.378367	0.003218	-0.20703	-0.40374	0.111601	-0.31165	0.083711	0.002697	0.767263	0.0175
EPC1	-0.14366	0.122695	-0.29011	0.238211	0.286355	0.367661	0.028592	0.07436	-0.17985	0.353465	-0.21619	0.18345	0.115841	0.992017	0.076882	0.888836
CPEB4	-0.03744	0.133159	-0.14991	0.112672	0.782177	0.327895	0.265682	0.404018	-0.18342	0.22966	-0.13663	0.069276	0.111201	0.937653	0.185399	0.676334
PPP1R2P9	0.017565	-0.07504	0.214814	-0.17248	0.896816	0.58257	0.108565	0.199495	0.099686	-0.39383	0.137485	-0.31009	0.745097	0.003385	0.816103	0.017987
ZKSCAN3	0.077789	-0.14846	0.11219	-0.05688	0.565188	0.274849	0.406044	0.674314	-0.15073	0.093834	-0.01011	0.131448	0.158675	0.73246	0.473728	0.808062
GKAP1	0.086928	-0.01377	0.031493	0.020543	0.520242	0.91974	0.816105	0.879444	0.186096	-0.10321	0.007955	-0.12844	0.892193	0.247433	0.52068	0.197478
CXXC4	-0.12428	-0.07301	0.084992	-0.32755	0.357013	0.592827	0.529611	0.012875	-0.29162	-0.27064	-0.07891	-0.16057	0.024626	0.034442	0.303177	0.143218
SP6	0.054123	-0.02967	0.297572	-0.0443	0.68926	0.828165	0.024574	0.743503	0.119597	-0.09775	0.108639	-0.0825	0.785724	0.259047	0.761263	0.292846
CEP70	-0.04349	0.206184	-0.1982	0.047861	0.748069	0.127365	0.139427	0.723686	0.10838	0.204876	-0.00356	0.169071	0.763299	0.914005	0.490733	0.869334
CCDC68	0.085567	-0.10457	0.214816	0.157757	0.530637	0.447404	0.111856	0.245559	0.208248	-0.12289	0.279842	-0.03442	0.915087	0.210623	0.967099	0.411204
PUS1	-0.07919	0.0183	0.141505	0.141264	0.558174	0.893509	0.293733	0.294566	-0.06538	0.179012	-0.01796	0.062409	0.332974	0.883046	0.453385	0.659842
ABTB1	-0.01468	-0.38905	0.134537	-0.05524	0.913715	0.003043	0.31839	0.683179	0.001494	-0.38154	0.066995	-0.28372	0.503886	0.004854	0.667161	0.029464
WNT10A	0.089353	-0.0386	0.012506	-0.12283	0.512539	0.77961	0.927112	0.367116	0.023865	0.112294	0.126381	0.170709	0.562547	0.771263	0.795955	0.871664
ULBP2	-0.0509	0.057048	0.158672	-0.17593	0.706901	0.676227	0.23844	0.190511	0.181484	-0.26156	-0.02321	-0.28397	0.886297	0.039553	0.439852	0.027904
ULBP1	0.030164	-0.14757	0.246249	-0.23412	0.82534	0.282289	0.067327	0.082439	0.12574	-0.29809	0.14124	-0.32932	0.79748	0.022105	0.822635	0.012713
DNAJC5	-0.12096	0.142266	-0.1189	-0.11492	0.370095	0.29559	0.378373	0.394648	-0.2071	0.338529	-0.24714	0.10032	0.083644	0.989311	0.050843	0.746447
ADAM33	0.263491	-0.15558	0.389929	0.031763	0.047659	0.252206	0.002715	0.814559	0.265858	-0.38507	0.240434	-0.22751	0.962935	0.004114	0.944187	0.064176
KCNIP4	0.12932	-0.05135	0.037919	-0.31423	0.342155	0.709631	0.781427	0.018346	0.107943	-0.32014	0.247254	-0.21707	0.762402	0.015043	0.949236	0.073655
WDR82	0.121971	0.261135	-0.22843	0.386451	0.366082	0.0519	0.087443	0.002985	0.077671	0.593084	-0.21874	0.366944	0.696047	0.999993	0.074422	0.993936
PABPC1L	-0.11498	-0.18212	0.097715	-0.20631	0.398746	0.183275	0.473711	0.127129	-0.10707	-0.20872	-0.07925	-0.27446	0.23939	0.081959	0.302412	0.032453
PNPLA3	0.082474	0.050259	0.176648	-0.15839	0.54192	0.712982	0.188684	0.23928	0.129488	-0.15028	0.281851	-0.24052	0.804465	0.159421	0.969654	0.053683
SLC25A16	0.049453	0.251371	-0.10322	0.256277	0.714877	0.061652	0.444822	0.054323	0.112171	0.298575	-0.18392	0.124397	0.771015	0.978076	0.11325	0.794942
BPIL1	0.115101	-0.20154	0.158764	0.027934	0.393892	0.136351	0.238166	0.836582	0.239088	-0.21101	0.179834	-0.24528	0.945229	0.079616	0.881414	0.050194
TRAF3IP3	-0.05022	-0.23296	0.014917	0.505292	0.710671	0.084016	0.912305	6.10E-05	-0.08868	-0.24884	0.110314	-0.06915	0.278928	0.047696	0.764665	0.323974
SEL1L2	0.131389	-0.15656	0.223694	-0.22369	0.334423	0.253677	0.09746	0.097469	0.108735	-0.27149	0.181432	-0.28071	0.761459	0.035615	0.880732	0.030891
WDR23	-0.16114	0.279191	-0.19844	0.04968	0.239865	0.040907	0.146401	0.7187	-0.21432	0.399733	-0.33142	0.209082	0.076322	0.997041	0.013075	0.918418
ZSCAN16	-0.10957	0.174683	-0.21544	0.038533	0.417171	0.197868	0.107509	0.775965	-0.06366	0.146979	0.040958	-0.03446	0.337138	0.835153	0.605318	0.410066
REEP4	-0.14941	0.369706	-0.13475	-0.11439	0.271753	0.005469	0.322107	0.401196	-0.17238	0.691463	-0.3138	0.396054	0.125989	1	0.017902	0.996782
COASY	-0.03293	0.094927	0.02996	0.003369	0.807868	0.486479	0.824913	0.980155	-0.0717	0.369391	-0.23499	0.125336	0.31793	0.994239	0.060113	0.796718
WDR61	-0.05323	0.009918	-0.30165	0.115033	0.694147	0.942167	0.022585	0.394172	-0.26452	0.298571	-0.23968	0.201832	0.037825	0.978074	0.056395	0.910706

LPAL2	0.007145	-0.24323	0.058757	-0.02182	0.957934	0.070866	0.664179	0.872012	0.075354	-0.17171	0.03928	-0.20458	0.690658	0.126921	0.601094	0.086314
TNKS2	0.081282	0.165619	-0.18124	0.126189	0.547798	0.222515	0.177264	0.349611	-0.00257	0.42604	-0.14085	0.305898	0.493229	0.998422	0.178033	0.980654
RNF39	0.161781	-0.01821	0.154007	-0.14572	0.229248	0.894047	0.252703	0.279435	0.047835	0.039119	0.083831	-0.07457	0.623879	0.601841	0.70798	0.311177
SHOC2	-0.07447	0.136286	-0.24262	0.115087	0.581964	0.316559	0.068992	0.393949	0.012289	0.156576	0.01111	0.136485	0.532301	0.850633	0.528872	0.817123
ADAM12	0.093244	-0.27058	0.294632	-0.03174	0.490266	0.043697	0.026096	0.814687	0.058666	-0.33223	0.220696	-0.19733	0.650723	0.012041	0.927421	0.094344
PDCD1LG2	0.125356	-0.20177	0.175982	0.422506	0.352826	0.135902	0.190382	0.001061	0.082354	-0.15547	0.259359	0.181778	0.706815	0.1511	0.957325	0.886679
CD276	0.031728	0.136758	0.198842	-0.04924	0.814757	0.314872	0.138122	0.716051	0.225862	0.158281	0.158247	0.026574	0.934388	0.853282	0.850421	0.56958
RASSF7	-0.26984	-0.00394	0.028152	-0.14288	0.042361	0.976985	0.835328	0.289007	-0.05102	0.145081	-0.00378	-0.09042	0.368152	0.831977	0.490161	0.275047
CSRP3	0.032495	-0.34775	0.127601	-0.37443	0.810362	0.008636	0.344202	0.004112	-0.07658	-0.33232	0.142833	-0.23161	0.306478	0.012021	0.825363	0.06072
CALM2	0.013628	-0.03518	-0.16748	-0.01163	0.919856	0.796863	0.213039	0.931591	-0.22079	0.038088	-0.19501	0.151516	0.070172	0.599212	0.099623	0.842592
PDHX	0.099235	0.168036	-0.18093	0.121489	0.462692	0.215742	0.178029	0.367993	0.086906	0.409363	-0.09178	0.32745	0.717114	0.997636	0.274381	0.986838
FOSL1	0.052573	6.27E-05	0.191591	-0.17601	0.697725	0.999634	0.153378	0.190313	0.212024	-0.20474	0.077907	-0.27614	0.921404	0.086143	0.694514	0.03161
CUL5	-0.04164	0.244738	-0.25304	0.149059	0.758421	0.06908	0.057552	0.268453	-0.00803	0.358738	-0.12072	0.285934	0.478868	0.992822	0.214791	0.97297
UBXN6	-0.02864	-0.1091	0.077687	-0.03794	0.832516	0.423472	0.565699	0.77934	-0.17216	-0.10198	-0.08663	-0.12023	0.129058	0.252523	0.288026	0.215736
SLC19A3	0.1073	-0.13811	0.167272	-0.31681	0.426934	0.310064	0.213616	0.016345	0.052332	-0.30391	0.104615	-0.18505	0.633603	0.021197	0.750422	0.111814
TSGA10	-0.11007	-0.02168	-0.05078	-0.21454	0.415031	0.874009	0.707558	0.109032	-0.19081	-0.17907	0.054402	-0.1149	0.102007	0.116872	0.63868	0.22352
AKNA	-0.20998	-0.37393	0.156095	-0.04924	0.116946	0.004527	0.246248	0.716035	-0.29569	-0.40866	0.063468	-0.27966	0.023014	0.002404	0.660635	0.029899
ESX1	0.091713	-0.03108	0.314118	-0.2023	0.497448	0.820134	0.017333	0.131262	-0.09448	-0.14088	0.15993	-0.23654	0.266128	0.17518	0.853009	0.056744
PBX4	-0.06995	-0.43703	0.228806	-0.25339	0.608463	0.00085	0.08985	0.059527	-0.06259	-0.44722	0.144258	-0.25492	0.33971	0.000916	0.827783	0.043656
TMEM22	0.17397	-0.16587	0.247751	-0.00177	0.199734	0.226164	0.065622	0.989664	0.069758	-0.30321	0.221552	-0.07728	0.677479	0.020261	0.928217	0.304862
ACAD10	-0.16433	0.192161	-0.16703	0.007745	0.226183	0.15987	0.218531	0.954821	-0.15573	0.43515	-0.30841	0.239004	0.150689	0.998746	0.019641	0.945164
SNIP	-0.18969	-0.25994	0.192839	-0.37406	0.157585	0.053024	0.150668	0.004152	-0.15436	-0.54908	0.04092	-0.44357	0.152862	3.88E-05	0.605222	0.001009
KIAA1683	-0.12806	-0.20184	0.078072	-0.34608	0.342451	0.135766	0.563767	0.008364	-0.12369	-0.38917	0.062972	-0.42619	0.206402	0.003757	0.659445	0.001572
TTYH3	-0.014	-0.04837	0.160667	0.237153	0.917651	0.72333	0.232512	0.075694	0.012266	0.048956	0.022595	0.084758	0.532241	0.626687	0.558563	0.712277
KIAA1688	-0.21755	-0.25465	0.057032	-0.43933	0.104036	0.058228	0.673473	0.000628	-0.30062	-0.33284	-0.00565	-0.29435	0.021178	0.011905	0.485296	0.023534
PTP4A2	-0.22918	-0.13909	-0.00717	0.277257	0.089305	0.311157	0.958186	0.038569	0.141052	-0.22766	-0.03027	-0.07018	0.822311	0.066289	0.422685	0.32343
THSD7B	-0.0037	-0.3111	0.180678	-0.08274	0.978428	0.020785	0.182671	0.544366	0.155471	-0.20522	0.004058	0.102698	0.846088	0.088128	0.510429	0.748989
SLC44A4	-0.29412	-0.00469	-0.15395	-0.03137	0.029288	0.973177	0.261774	0.820165	-0.28503	0.136372	-0.17713	0.004356	0.027431	0.816923	0.122211	0.511461
C6orf27	-0.21051	-0.1233	0.096489	-0.23409	0.116003	0.365279	0.475224	0.079662	-0.35863	-0.20243	-0.05178	-0.16597	0.007194	0.088635	0.367763	0.135154
C6orf25	-0.01974	-0.35036	0.228181	-0.12711	0.884104	0.008116	0.087791	0.346057	0.144207	-0.46541	0.204906	-0.39869	0.830502	0.000559	0.911532	0.003031
FGF23	-0.0778	-0.02855	0.174598	-0.19919	0.568731	0.836061	0.19809	0.141083	0.10312	-0.33998	0.085767	-0.31946	0.752371	0.010395	0.712325	0.015227
LY6G6C	0.054656	0.034368	-0.08573	-0.27662	0.686356	0.801456	0.526053	0.037254	-0.09457	0.033788	0.045098	-0.12533	0.268309	0.587197	0.614353	0.20602
LY6G5C	-0.22885	-0.09031	0.087257	-0.35591	0.08684	0.508037	0.518657	0.006585	-0.29623	-0.35375	0.072035	-0.19202	0.022808	0.007937	0.680908	0.100551
PRR3	-0.06989	0.025365	0.094614	-0.31351	0.605447	0.852786	0.483884	0.017562	-0.00368	-0.25306	0.101833	-0.25725	0.490314	0.044861	0.747176	0.042181
THUMPD2	-0.02854	0.3366	-0.24608	0.157205	0.833072	0.011195	0.065007	0.242864	0.104797	0.487522	-0.12071	0.206182	0.755882	0.999705	0.214814	0.915393
TSEN2	-0.10596	0.211871	-0.16415	-0.03432	0.432752	0.116976	0.222408	0.799922	-0.09274	0.22343	-0.07696	0.144341	0.269927	0.932231	0.307673	0.83073
AARSD1	-0.01364	-0.14236	0.163047	-0.18427	0.920521	0.299812	0.229881	0.173978	0.196835	-0.29446	0.107287	-0.393	0.905093	0.023492	0.758498	0.003448
TMEM121	-0.05247	-0.27924	0.285988	-0.18724	0.698315	0.037147	0.031038	0.163115	-0.04581	-0.45609	0.148447	-0.292	0.38121	0.000722	0.834773	0.02447
PRR7	-0.17777	-0.03394	0.110756	-0.2645	0.185849	0.8039	0.412107	0.046784	-0.07537	-0.27577	0.121324	-0.29398	0.309299	0.031793	0.786374	0.023682
KHDC1	-0.00142	-0.16619	0.085175	-0.20088	0.991628	0.220906	0.528723	0.134049	-0.01123	-0.32171	0.098714	-0.23413	0.470474	0.014621	0.740582	0.058664
MFAP5	0.411092	-0.34411	0.323279	0.202409	0.00149	0.009408	0.014171	0.131049	0.439213	-0.33423	0.51977	-0.02613	0.99887	0.011598	0.999873	0.431581
ITIH5	0.41316	-0.03845	0.277297	0.301745	0.001552	0.780481	0.03854	0.023816	0.135793	0.010105	0.237475	0.32868	0.815894	0.52657	0.941881	0.987134
UPK3B	-0.14246	-0.1631	0.112405	-0.01686	0.290452	0.229715	0.405136	0.900947	-0.05803	-0.13864	-0.0705	-0.11972	0.350844	0.179079	0.322678	0.214046
NDFIP1	0.113353	0.27319	-0.08458	0.223865	0.405514	0.043585	0.535409	0.097198	0.203399	0.118343	-0.09223	0.188134	0.909894	0.780611	0.275779	0.89207
C12orf39	-0.14507	-0.03667	-0.05842	-0.36194	0.281625	0.788474	0.666002	0.005665	0.026681	-0.27321	0.179865	-0.23498	0.569858	0.033095	0.881455	0.057981
THAP7	-0.08045	-0.0838	0.080196	0.007427	0.551918	0.539211	0.553177	0.956276	-0.01136	0.013423	-0.04933	-0.07368	0.470137	0.535275	0.373806	0.313251
STARD5	-0.14133	0.386887	-0.05089	0.412082	0.29434	0.003224	0.706939	0.001447	-0.03531	0.686781	-0.14785	0.569935	0.407904	1	0.166214	0.999982
GLTPD1	-0.05691	-0.06317	0.054592	-0.0606	0.674113	0.643713	0.686706	0.65428	-0.01299	0.139826	-0.09328	-0.01459	0.465867	0.822987	0.271102	0.461659
LIMD2	0.025726	-0.29152	0.329574	0.085919	0.849344	0.029265	0.012298	0.525117	0.05937	-0.46465	0.195593	-0.32824	0.652444	0.000571	0.901063	0.012971
TMEM177	-0.02786	0.152831	0.070628	0.020414	0.837013	0.260798	0.601624	0.880196	0.025114	0.33252	-0.18679	0.081233	0.565792	0.988023	0.109608	0.704255

B9D2	-0.31447	-0.19035	0.049639	-0.19136	0.017201	0.159961	0.713852	0.153877	-0.41213	-0.1379	-0.12032	-0.17579	0.002214	0.180376	0.215558	0.12129
CYB5B	0.060613	0.283678	-0.14709	0.159067	0.654229	0.034115	0.274896	0.23726	0.121915	0.343108	-0.0665	0.351516	0.790204	0.990212	0.332147	0.991701
ZNF34	-0.13045	-0.14212	0.060577	0.05701	0.333443	0.296086	0.654423	0.673592	0.1439	-0.26304	-0.12163	-0.22327	0.827176	0.040424	0.215783	0.070205
USP5	-0.03864	0.1415	-0.1016	0.140521	0.777369	0.302783	0.456218	0.301614	-0.29061	0.681469	-0.22045	0.427915	0.025038	1	0.072806	0.998494
COL18A1	0.112818	-0.06198	0.228085	0.084129	0.403404	0.649977	0.087928	0.533815	0.217461	-0.04326	0.130406	0.042994	0.926713	0.387648	0.803399	0.611683
INTS5	-0.0332	-0.07433	0.182206	-0.07218	0.806319	0.586137	0.17493	0.593618	0.004014	-0.22494	-0.10868	-0.20182	0.510562	0.066422	0.238658	0.089312
MLF2	0.104526	0.261957	0.10109	-0.0437	0.443282	0.053361	0.458496	0.749106	-0.0472	0.5825	-0.30843	0.265633	0.377726	0.999989	0.019636	0.962808
CMIP	-0.21401	0.112005	-0.14666	-0.06672	0.109934	0.411161	0.276306	0.621944	-0.36618	0.343572	-0.21238	0.24503	0.00616	0.9903	0.08066	0.949629
CALM3	0.121979	-0.01458	0.047536	0.04425	0.366049	0.915041	0.725489	0.743787	-0.08717	0.18127	-0.03757	0.317105	0.282292	0.886017	0.403213	0.984114
ASXL3	0.144681	-0.11872	0.195529	-0.35294	0.282923	0.383489	0.144946	0.007085	0.00781	-0.51029	0.220308	-0.3627	0.520305	0.000171	0.924643	0.007171
KIAA1712	-0.05717	0.088514	-0.14481	-0.09517	0.67275	0.516525	0.282473	0.481291	-0.17889	0.19061	-0.14693	0.07172	0.117115	0.897756	0.167738	0.682127
ZNF436	0.075097	0.27511	-0.20436	0.223478	0.578764	0.040161	0.127299	0.094712	-0.09615	0.634458	-0.21156	0.517412	0.262508	0.999999	0.081494	0.999884
SSPN	0.319792	-0.00785	0.195441	0.250398	0.016279	0.954627	0.148874	0.0627	0.227885	-0.09509	0.203071	0.184654	0.936142	0.264805	0.909535	0.890373
EEDP1	-0.25009	0.239378	-0.25211	-0.38503	0.060618	0.07559	0.058501	0.003102	-0.27824	0.067448	-0.12146	-0.22702	0.030581	0.671976	0.213363	0.064606
DDHD1	0.046987	0.142875	-0.0983	0.363734	0.728536	0.293505	0.466956	0.005415	0.247795	0.183246	0.136658	0.176328	0.951581	0.888575	0.814645	0.879445
LOC100133	0.004839	0.267704	-0.29855	0.140511	0.971502	0.046076	0.024085	0.297173	-0.0208	0.395755	-0.04365	0.349939	0.44606	0.996437	0.389232	0.990775
BHLHB9	0.332817	-0.08238	0.167165	-0.10955	0.011419	0.546118	0.213914	0.417247	0.287543	-0.06377	0.242074	-0.13228	0.973669	0.336873	0.945435	0.190431
DUSP16	0.143076	0.086538	-0.03982	-0.02714	0.292818	0.52986	0.770753	0.842636	-0.0404	0.170352	0.0463	0.019242	0.394894	0.871159	0.618678	0.550501
ZFP91	0.040074	0.279605	-0.26709	0.13357	0.767252	0.036888	0.044594	0.321912	0.050111	0.425817	-0.04077	0.263559	0.629573	0.998413	0.395159	0.961619
APOL6	-0.18431	-0.01285	0.043714	0.668967	0.169923	0.925107	0.746791	1.29E-08	-0.17173	0.310769	-0.09487	0.433431	0.129659	0.981136	0.27008	0.998531
APOL5	-0.03424	-0.31273	0.227117	-0.10614	0.800385	0.018943	0.089321	0.431989	0.019216	-0.4324	0.039657	-0.35492	0.550433	0.001345	0.602045	0.007754
APOL4	-0.14134	-0.03263	0.116125	0.36167	0.298773	0.813023	0.394056	0.006166	-0.06019	-0.03487	0.156065	0.240858	0.347244	0.410066	0.844143	0.944512
APOL3	0.077627	-0.17161	0.19854	0.667025	0.569582	0.210286	0.14241	1.99E-08	0.345565	-0.19383	0.313139	-0.05172	0.989965	0.101008	0.98076	0.367898
TAS1R2	-0.09449	-0.01928	0.068903	-0.22466	0.484449	0.887819	0.61055	0.092927	0.097212	-0.34693	0.052938	-0.43745	0.739792	0.009085	0.635092	0.001183
TAS1R1	-0.03593	-0.13471	0.264218	-0.17712	0.790736	0.322236	0.047027	0.187493	0.000865	-0.43841	0.168054	-0.29591	0.502277	0.001154	0.865093	0.022928
MLL2	0.011678	-0.08427	0.081559	0.029452	0.931294	0.536898	0.546426	0.827838	0.03561	0.065503	-0.09942	0.002117	0.592874	0.667311	0.257924	0.50557
SH3BP5L	-0.15377	-0.09424	0.022427	-0.16812	0.253458	0.489641	0.868482	0.211275	-0.17095	0.105865	-0.14788	-0.23334	0.128002	0.758105	0.166156	0.0593
GRIP2	-0.05931	-0.01763	0.109305	-0.10608	0.661209	0.897371	0.418296	0.432241	0.154549	-0.14063	0.211116	-0.14441	0.847444	0.175622	0.918054	0.169156
JHDM1D	-0.19544	0.427962	-0.30023	-0.06327	0.145137	0.001001	0.023262	0.64009	-0.11355	0.283484	-0.11879	0.123232	0.226207	0.971878	0.218527	0.792725
SETD7	0.056259	0.323237	-0.10079	0.202492	0.677657	0.015101	0.455665	0.130888	0.277378	0.288055	0.056499	0.321137	0.969	0.973888	0.643801	0.985227
KIAA1715	0.144388	0.180873	-0.26117	0.11702	0.283907	0.182194	0.049731	0.386002	0.109649	0.304573	-0.02318	0.226093	0.765897	0.980207	0.439935	0.93459
AAAS	-0.05581	-0.11102	0.205725	-0.14683	0.682879	0.4197	0.128233	0.280209	-0.14763	0.151991	-0.0434	0.1714	0.163766	0.843359	0.388561	0.872639
PRRT1	-0.00749	-0.26064	0.292978	-0.23063	0.95592	0.052366	0.026986	0.084354	0.050105	-0.34981	0.191472	-0.40015	0.629559	0.008585	0.896163	0.002931
EGFL8	0.002529	-0.0096	-0.07028	0.020303	0.985101	0.944011	0.603419	0.880842	0.068131	0.082983	-0.09543	0.028479	0.673605	0.708248	0.266453	0.574513
FXR1	0.012415	0.109054	-0.20892	0.012468	0.926972	0.423671	0.118847	0.92666	-0.05014	0.171319	-0.15564	0.187325	0.370344	0.872524	0.153652	0.893729
YEATS4	-0.08347	0.291372	-0.3092	0.0387	0.537032	0.029349	0.019266	0.775019	-0.31905	0.419431	-0.19734	0.249146	0.015341	0.998143	0.096905	0.952514
ILKAP	0.014658	0.439635	-0.02433	0.082429	0.913819	0.000699	0.857446	0.542141	0.116587	0.279863	-0.13218	0.11519	0.779826	0.970199	0.193376	0.77706
NPL	-0.13369	0.283889	-0.36026	0.147914	0.325936	0.03569	0.006384	0.276631	-0.07314	0.45794	-0.22271	0.179872	0.314531	0.999313	0.070719	0.884184
HMGA2	-0.04032	-0.02492	0.056211	-0.43439	0.765891	0.855366	0.677912	0.000735	0.145268	-0.14394	-0.00105	-0.29754	0.832292	0.169951	0.497271	0.02231
ALX1	0.232501	-0.17391	0.300981	-0.41236	0.08179	0.199899	0.022903	0.001436	0.027449	-0.51579	0.199933	-0.35208	0.571024	0.000144	0.903407	0.00885
TMPRSS5	0.115521	-0.26007	0.29054	-0.1869	0.392158	0.052903	0.028346	0.163895	0.23808	-0.41493	0.264524	-0.42384	0.944454	0.00207	0.960454	0.001666
CDK2AP1	0.179126	0.183787	-0.02624	0.246341	0.182459	0.175131	0.84637	0.064716	0.182616	0.407036	-0.17898	0.27322	0.887763	0.997503	0.119719	0.96691
ACTN4	0.106522	0.092437	-0.06472	0.097981	0.434574	0.502077	0.635596	0.472501	-0.15975	0.608355	-0.23194	0.369609	0.144454	0.999996	0.062622	0.994265
CALML3	-0.09511	0.120143	-0.12247	-0.16442	0.481571	0.377782	0.364113	0.221636	-0.16328	0.296329	-0.1663	0.104397	0.139123	0.977231	0.137459	0.755048
IFT88	-0.09119	-0.08454	-0.07934	-0.16169	0.499899	0.535596	0.557439	0.229522	-0.1874	-0.26553	0.05492	-0.14415	0.106176	0.03725	0.639946	0.169597
GJA9	0.010506	0.210338	-0.19731	-0.21318	0.938176	0.11971	0.141251	0.111341	-0.11312	0.167606	0.00477	0.119785	0.227082	0.867226	0.512403	0.786088
TUBB1	-0.10462	-0.62863	-0.01638	-0.27288	0.442878	2.76E-07	0.904633	0.041869	-0.20101	-0.58963	0.045737	-0.42232	0.092747	1.01E-05	0.615929	0.001927
WNT5B	-0.05484	-0.27848	0.109751	-0.28221	0.685361	0.037688	0.416387	0.033429	-0.07479	-0.34571	-0.08469	-0.40152	0.312678	0.010008	0.292327	0.003131
ZBP1	-0.06512	-0.2037	0.19674	0.416211	0.630333	0.132124	0.142424	0.001281	-0.0138	-0.11567	0.134451	-0.05402	0.463746	0.221984	0.810719	0.360705
SLC2A10	-0.0296	-0.0172	0.082714	-0.22143	0.826987	0.899897	0.540741	0.097863	-0.25185	0.330679	-0.26557	0.151944	0.045659	0.987604	0.038935	0.843283

KCNH6	0.055834	-0.13304	0.185822	-0.23137	0.679957	0.328346	0.166379	0.083323	-0.07467	-0.23756	0.114378	-0.16825	0.310931	0.055951	0.772812	0.131843
SLC25A32	0.010135	0.280878	-0.21223	0.339956	0.940353	0.036002	0.112994	0.009673	0.220812	0.315579	0.005517	0.278703	0.92985	0.983676	0.514346	0.969644
COLEC12	0.386925	-0.36015	0.096251	0.065518	0.002947	0.006402	0.476319	0.628237	0.235725	0.008081	0.465812	0.084801	0.940484	0.521009	0.99928	0.71016
CLPTM1L	-0.00159	0.190515	-0.00012	0.251434	0.990656	0.15959	0.99932	0.059205	-0.12038	0.497306	-0.28108	0.316388	0.212762	0.999781	0.030717	0.98391
OR5AC2	-0.03931	0.066474	0.077171	-0.3134	0.771552	0.626427	0.568291	0.017603	-0.03943	-0.34173	0.009776	-0.32176	0.397359	0.010052	0.525409	0.014608
PABPN1	-0.01996	0.04184	0.005566	-0.02893	0.882864	0.75947	0.967224	0.830838	-0.15586	0.327089	-0.29988	0.166695	0.15049	0.98675	0.022678	0.865903
CALR	0.115215	-0.05001	0.07795	0.182193	0.39342	0.714327	0.56438	0.17496	-0.18051	0.444347	-0.18953	0.388271	0.114973	0.999011	0.106199	0.996167
DPF3	-0.00841	-0.28067	0.196243	-0.00774	0.950513	0.036145	0.143455	0.954418	0.117686	-0.47281	0.217311	-0.31824	0.78199	0.000453	0.924206	0.015566
GPR68	-0.01106	-0.14906	0.220507	0.167023	0.9349	0.272872	0.099298	0.214308	0.056476	-0.07358	0.155359	0.03028	0.645349	0.313489	0.845913	0.579168
OR4K15	-0.13899	-0.11209	-0.0351	-0.33093	0.306969	0.410791	0.797338	0.01273	-0.07959	-0.30031	0.096235	-0.27103	0.299513	0.02129	0.73528	0.034237
TCL1A	-0.04099	-0.03218	0.045738	-0.0258	0.762096	0.813878	0.735484	0.848905	0.082866	-0.52364	0.139345	-0.3389	0.707983	9.41E-05	0.819357	0.010614
OR8J3	0.220684	-0.09014	0.073058	-0.31471	0.099019	0.508803	0.589142	0.017113	0.065593	0.026655	0.086504	-0.06528	0.667527	0.56979	0.71397	0.333215
AP3B2	0.084465	-0.0845	0.337755	-0.18908	0.532178	0.535804	0.010185	0.158934	0.04471	-0.17254	0.102062	-0.12711	0.616018	0.125768	0.747657	0.199956
ANP32A	0.140727	-0.13397	-0.15009	-0.13086	0.296422	0.324925	0.265102	0.331925	-0.14971	0.249279	-0.0929	0.194735	0.160337	0.952605	0.271936	0.902661
ST8SIA2	-0.03423	-0.17956	0.224892	-0.14812	0.802254	0.189605	0.095634	0.275965	0.042687	-0.38308	0.136786	-0.27819	0.610905	0.004297	0.814871	0.030605
OR51G2	-0.00298	0.017119	0.02002	-0.25516	0.982615	0.901272	0.883566	0.057705	0.16878	-0.1903	0.028255	-0.13799	0.866139	0.105258	0.572234	0.183006
OR51E2	-0.05915	0.017771	0.032327	-0.09709	0.662061	0.896567	0.811322	0.472457	0.145365	-0.20967	-0.03403	-0.23095	0.832456	0.08098	0.412199	0.061266
CALU	0.176321	0.084279	0.055664	0.113695	0.189517	0.536865	0.680882	0.399736	0.30065	0.11183	0.096485	0.182414	0.978833	0.770327	0.735817	0.887503
OR4P4	-0.02033	-0.09594	0.029433	-0.2716	0.880671	0.48182	0.827947	0.040983	-0.01712	-0.23344	0.021457	-0.27121	0.455045	0.059222	0.555631	0.034142
OR4C15	-0.00518	-0.14718	0.018385	-0.25304	0.969786	0.2836	0.893014	0.059886	-0.10253	-0.33217	0.032217	-0.33295	0.248866	0.012056	0.583203	0.01188
C16orf35	-0.12829	-0.01094	-0.00123	-0.11288	0.341592	0.93621	0.992783	0.403137	-0.02741	-0.03656	-0.01759	-0.15083	0.428242	0.404685	0.454343	0.158523
OR4A5	0.045518	-0.41273	0.151609	-0.19025	0.736708	0.001572	0.260256	0.156327	-0.13522	-0.42698	0.180714	-0.2455	0.187898	0.001721	0.879784	0.05203
OR4A16	0.114467	-0.12577	0.062057	-0.26908	0.396522	0.355678	0.646536	0.042973	0.016006	-0.47438	0.178083	-0.22069	0.542042	0.000433	0.879077	0.070266
OR4A15	0.048184	-0.02816	0.118097	-0.38022	0.721894	0.8368	0.381612	0.003529	0.110043	-0.42193	0.03511	-0.41963	0.7667	0.001747	0.590554	0.001848
OR10W1	0.048963	-0.10742	0.165232	-0.19615	0.717585	0.430685	0.219334	0.143653	0.022568	-0.43322	0.163596	-0.44744	0.559172	0.001318	0.858545	0.000911
GAN	0.008967	0.456106	-0.12577	-0.06448	0.947702	0.000466	0.355698	0.636815	-0.09488	0.564695	-0.25701	0.221913	0.265251	0.999978	0.044159	0.930859
OR2AE1	-0.08196	-0.25707	0.050224	-0.05227	0.544428	0.055793	0.710624	0.699387	0.079287	-0.30544	-0.05157	-0.16298	0.699783	0.019499	0.368267	0.139579
CAMK4	-0.09028	-0.15256	0.047053	0.499732	0.508169	0.266167	0.730574	8.81E-05	-0.09755	-0.29518	0.013468	-0.03019	0.261894	0.024506	0.534571	0.421964
SLC7A5	-0.09719	0.302778	-0.15861	0.219129	0.472008	0.023317	0.238638	0.101482	0.167029	0.405269	0.109441	0.334298	0.863606	0.997125	0.760273	0.987598
OR6N2	0.021202	-0.13809	0.166851	-0.2435	0.875607	0.310151	0.214789	0.067966	0.216084	-0.4532	0.14348	-0.38351	0.923016	0.000885	0.823597	0.004654
OR6K2	0.089414	0.082103	0.248591	-0.16755	0.512251	0.551233	0.064683	0.217102	0.061893	-0.23793	0.186913	-0.13367	0.658591	0.055664	0.890546	0.187915
OR2G3	0.019321	-0.17579	0.13442	-0.2674	0.886568	0.195	0.318813	0.044342	0.010686	-0.25123	0.050042	-0.25561	0.528096	0.046075	0.627957	0.043216
OR2G2	-0.10877	-0.13107	0.136794	-0.12355	0.420585	0.335601	0.310261	0.359845	-0.10554	-0.26927	0.017342	-0.16895	0.242574	0.03518	0.545013	0.130842
OR2C3	0.105804	-0.12909	0.243188	-0.21442	0.433448	0.343016	0.06833	0.10923	0.094643	-0.43733	0.153218	-0.35135	0.734225	0.001186	0.842514	0.008327
TAF15	0.033751	0.183894	-0.2413	0.038742	0.803175	0.174877	0.070565	0.774787	0.040818	0.336871	-0.11763	0.184149	0.606164	0.988968	0.220774	0.889731
GRINL1A	-0.01525	-0.13601	0.12697	-0.18874	0.910331	0.317565	0.346614	0.159707	0.122095	-0.38597	0.060781	-0.36806	0.79055	0.004033	0.654177	0.005923
PTDSS2	-0.03404	-0.01122	0.07725	-0.12981	0.801506	0.934592	0.567894	0.335839	0.035348	-0.03993	0.063469	-0.06857	0.592203	0.396091	0.660637	0.32534
GPR63	0.09325	0.09066	0.143149	0.09611	0.490236	0.506365	0.288105	0.47697	0.07577	0.021173	-0.0892	0.189003	0.691631	0.555537	0.280042	0.8958
RSHL1	-0.08746	-0.0896	0.188283	-0.22546	0.51769	0.511387	0.160738	0.091739	0.006121	-0.25446	0.067233	-0.21945	0.516102	0.043951	0.669602	0.07141
SYNC	0.314253	-0.22298	0.208305	-0.03603	0.017282	0.098556	0.11996	0.790173	0.286258	-0.45542	0.240825	-0.30452	0.973112	0.000736	0.944487	0.019811
CFHR5	0.156085	-0.33285	0.143971	-0.09148	0.246281	0.012192	0.285314	0.49856	0.136524	-0.23007	0.109844	-0.13352	0.817192	0.062001	0.763714	0.188183
CAMK2A	0.036481	-0.22449	0.264482	-0.19693	0.787609	0.096248	0.046799	0.142032	0.262877	-0.36944	0.217359	-0.31437	0.961222	0.005755	0.924252	0.016677
TM7SF4	-0.00691	-0.18302	0.051623	-0.33917	0.959701	0.181065	0.70554	0.010552	0.020726	-0.31789	-0.06751	-0.3395	0.554373	0.015663	0.329729	0.010493
HM13	0.064356	0.174368	0.04816	0.272551	0.634353	0.198689	0.722026	0.040254	0.004394	0.410201	-0.20209	0.29947	0.511561	0.997682	0.091545	0.978405
RND2	-0.06086	-0.21971	0.045939	-0.49694	0.652915	0.103726	0.734361	8.42E-05	-0.20493	-0.485	0.073345	-0.35246	0.08594	0.000318	0.683965	0.008144
HCCA2	-0.12172	0.035781	-0.0325	-0.21981	0.367067	0.793473	0.810345	0.100395	0.097562	0.0308	-0.23386	-0.10075	0.740545	0.580509	0.061032	0.252642
ITFG1	0.037125	0.233106	-0.17604	0.08878	0.78395	0.083815	0.19024	0.511359	-0.02034	0.380606	-0.08887	0.274653	0.446642	0.995465	0.280782	0.967643
SGPP1	0.123868	-0.21771	0.238523	0.326009	0.358617	0.106992	0.07397	0.013331	0.195796	-0.30374	0.268155	-0.09282	0.9013	0.02126	0.960789	0.272113
SLC38A1	0.243412	0.214389	-0.13352	0.274882	0.068068	0.112589	0.322086	0.03851	0.394594	0.227755	-0.01272	0.177004	0.996673	0.936031	0.466953	0.880358
TMX1	0.013281	0.330477	-0.29554	0.288484	0.921894	0.01286	0.025616	0.029536	-0.02643	0.530007	-0.19803	0.454287	0.430787	0.999924	0.096113	0.999241

LRR3	-0.10776	0.058585	0.155599	-0.0446	0.429217	0.668002	0.252159	0.744115	0.247129	-0.32184	0.080492	-0.36514	0.951117	0.014586	0.700424	0.006294
GDPD5	0.007078	-0.22884	0.255439	0.030068	0.958323	0.089805	0.055143	0.824289	0.1969	-0.45855	0.36913	-0.32624	0.905168	0.000675	0.993708	0.013458
FBXO38	-0.0262	0.311151	-0.24712	0.129069	0.846603	0.019586	0.063848	0.338632	0.056874	0.326471	-0.10093	0.194489	0.646329	0.986598	0.254722	0.902373
TDRD3	0.124676	0.048513	-0.09964	-0.1037	0.355465	0.722544	0.460843	0.442711	0.010106	0.022101	-0.07117	0.070112	0.526573	0.557957	0.321125	0.678321
STMN4	0.035267	-0.15659	0.244451	-0.19936	0.794525	0.249119	0.066863	0.137076	0.058117	-0.23439	0.149942	-0.30939	0.64938	0.058452	0.837223	0.018208
ECOP	-0.12015	-0.09631	0.208652	0.19758	0.373344	0.48014	0.119331	0.140694	-0.02995	-0.10572	0.050574	0.023622	0.422579	0.244732	0.627795	0.561205
FAM49A	0.238067	-0.46258	0.118086	0.292483	0.07454	0.000331	0.381658	0.027258	0.182782	-0.46488	0.230959	-0.29814	0.885278	0.000647	0.934272	0.023341
WBSCR16	0.214275	0.043589	0.203554	0.012656	0.109476	0.749741	0.128837	0.925556	0.169269	0.321303	0.080978	0.14772	0.869617	0.985271	0.701528	0.836384
YIPF5	0.017489	0.098349	-0.22494	0.123127	0.897261	0.470829	0.092511	0.361518	-0.06307	0.257715	-0.16881	0.252417	0.338563	0.958109	0.133819	0.954714
C15orf44	-0.08378	0.257968	-0.29725	0.072599	0.535518	0.054916	0.024739	0.591491	-0.1772	0.470695	-0.20022	0.324315	0.11938	0.999519	0.093629	0.986057
FAM117A	0.183651	-0.42998	0.313168	-0.05921	0.171476	0.000942	0.017693	0.661745	0.029012	-0.54125	0.213216	-0.28986	0.575026	6.17E-05	0.917681	0.026716
TRIM11	0.005364	-0.03122	0.162246	-0.10578	0.96841	0.819295	0.227893	0.433566	-0.03858	0.003928	-0.02075	-0.01911	0.399542	0.510334	0.446179	0.449843
LMAN2L	-0.12113	0.123263	-0.11613	-0.0373	0.369437	0.365429	0.389651	0.782969	-0.1071	0.037783	-0.12029	0.02735	0.23934	0.598433	0.215607	0.57159
C1orf21	0.107173	0.135395	-0.11331	-0.07007	0.427484	0.319765	0.401342	0.60451	0.398562	-0.00903	0.13713	-0.07697	0.996654	0.476529	0.812632	0.30765
NDEL1	0.167358	0.220139	-0.10375	0.047241	0.213378	0.103042	0.44248	0.727122	0.456031	0.267742	0.022974	0.038359	0.999276	0.963986	0.559538	0.599903
CSRNP2	0.044493	0.197275	-0.01031	0.283076	0.742429	0.145022	0.939313	0.032869	0.118288	0.181771	-0.0577	0.070227	0.783169	0.886669	0.35328	0.678592
TXNDC5	0.036226	0.026498	-0.00096	0.598157	0.789063	0.846289	0.994321	8.94E-07	-0.15065	0.616705	-0.25937	0.55969	0.158809	0.999997	0.042668	0.999974
ACTL8	0.052581	-0.18908	0.278269	-0.30891	0.697679	0.16281	0.036088	0.019384	-0.09746	-0.277	0.102554	-0.28264	0.259675	0.031185	0.748687	0.028505
CLPB	0.137558	-0.01227	0.038137	0.180032	0.307542	0.928461	0.778209	0.18022	0.03202	0.329428	-0.24956	0.231317	0.583652	0.987311	0.049136	0.939039
C9orf45	-0.1001	0.084662	-0.15578	-0.14097	0.458792	0.535008	0.247215	0.29559	-0.25068	-0.00098	-0.07001	-0.04889	0.048367	0.497448	0.325784	0.374885
PDRG1	-0.12768	-0.22897	-0.05914	-0.02025	0.343891	0.089617	0.662137	0.881125	-0.25415	-0.00527	-0.16051	0.036736	0.044154	0.48614	0.146098	0.595758
ANKRD13C	-0.00931	0.261273	-0.20993	0.14466	0.945224	0.051772	0.117029	0.282993	0.087846	0.449285	-0.04857	0.38788	0.719221	0.999132	0.375695	0.996133
APOLD1	0.26825	0.13991	0.134177	0.142892	0.045617	0.308303	0.324179	0.293447	0.223454	-0.15017	0.112212	-0.06033	0.932253	0.159586	0.76849	0.345208
CCDC130	-0.12461	-0.10963	0.047034	-0.0094	0.355717	0.421214	0.728274	0.944663	0.125876	-0.09828	-0.03098	-0.17065	0.797736	0.257906	0.419963	0.128417
GFOD2	-0.11612	-0.18137	0.083824	-0.19835	0.389703	0.180964	0.535305	0.139117	-0.15687	-0.26748	0.001631	-0.22791	0.148914	0.036158	0.504242	0.063832
COL21A1	-0.04064	-0.07105	0.005566	-0.34431	0.764035	0.602797	0.96722	0.008725	-0.15568	-0.29399	0.019724	-0.24151	0.150768	0.023676	0.551163	0.052945
PLA2G12A	0.051515	-0.14104	0.202006	-0.1552	0.703526	0.299813	0.131835	0.249006	0.027722	-0.48122	0.289186	-0.33034	0.572554	0.000355	0.972993	0.012475
CAMK2B	0.040206	-0.03382	0.225517	-0.06347	0.766512	0.804589	0.09166	0.639048	0.179577	-0.22046	0.142208	-0.27895	0.883793	0.070477	0.824297	0.030238
CDADC1	0.069236	0.075849	-0.07607	-0.14983	0.608823	0.578481	0.573826	0.265966	0.143854	-0.25217	0.097232	-0.24862	0.829904	0.045449	0.737418	0.04785
TRIM8	-0.13838	-0.11219	0.032501	-0.0702	0.304643	0.410371	0.810329	0.603839	-0.1629	0.000593	-0.02207	-0.00268	0.139696	0.501561	0.442795	0.492958
URM1	0.007437	0.118069	0.055932	0.086113	0.956616	0.390605	0.682219	0.528009	-0.30964	0.334565	-0.37903	0.248303	0.018128	0.988475	0.005119	0.951934
LBH	0.304173	-0.33761	0.293814	0.406453	0.021426	0.010939	0.026533	0.001705	0.120364	-0.37666	0.200195	-0.05391	0.787211	0.004938	0.906341	0.360975
PVRL4	-0.17833	0.213002	-0.08449	-0.11872	0.188526	0.11844	0.535837	0.383487	-0.26678	0.55896	-0.32704	0.165188	0.03655	0.999973	0.014159	0.863697
FIP1L1	0.064116	0.149618	-0.27041	-0.0038	0.63562	0.271074	0.041913	0.977609	-0.04888	0.412353	-0.21321	0.251066	0.373504	0.997798	0.079825	0.953815
SNX27	-0.07161	0.11483	-0.3107	0.161201	0.599973	0.403825	0.019772	0.23527	0.072792	0.216608	0.014589	0.126743	0.684653	0.925899	0.537889	0.799362
COIL	-0.02554	0.197533	-0.26033	-0.11713	0.850393	0.144488	0.050493	0.385567	-0.00447	0.195643	-0.06709	0.008468	0.488227	0.903718	0.330732	0.522271
FAM83D	0.093995	0.145916	-0.0904	-0.04982	0.486764	0.283243	0.503633	0.71284	0.08656	0.233618	0.011518	0.081826	0.716337	0.940924	0.529929	0.70561
ANP32E	-0.00458	0.096522	-0.2577	0.016295	0.973023	0.479151	0.052954	0.904241	-0.08275	0.173262	0.04401	0.117101	0.292279	0.87524	0.612966	0.78084
NIPA2	-0.02425	0.313359	-0.30402	0.25326	0.857913	0.018691	0.021494	0.057325	-0.00464	0.610468	-0.20441	0.46564	0.4878	0.999997	0.089006	0.999445
TMEM163	-0.0911	-0.21321	0.185063	0.004247	0.504307	0.118067	0.172104	0.975219	0.120186	-0.47247	0.168672	-0.21003	0.786868	0.000458	0.865984	0.080614
ACSBG2	0.160814	-0.15913	0.326771	-0.31466	0.232081	0.241416	0.013104	0.017129	0.080202	-0.29967	0.147002	-0.32602	0.701889	0.02152	0.832381	0.013514
CAB39L	0.296226	-0.13164	0.021146	-0.06204	0.025261	0.333488	0.875931	0.646601	0.301229	-0.30655	0.235483	-0.12687	0.979041	0.019128	0.940289	0.200404
ITM2C	0.213701	-0.00766	0.13711	0.481932	0.110452	0.955329	0.309134	0.000147	0.154222	0.336314	-0.0521	0.372653	0.846926	0.98885	0.366962	0.994622
TSPAN14	-0.07233	0.362236	-0.14294	0.251675	0.59288	0.00608	0.288829	0.058955	-0.03331	0.609663	-0.23856	0.392464	0.413035	0.999997	0.057264	0.996509
CDT1	-0.13205	0.174104	0.062491	-0.16824	0.327486	0.19938	0.644228	0.210941	-0.12509	0.131673	-0.05462	-0.01761	0.20375	0.808472	0.360795	0.45376
KAZALD1	0.026393	-0.20647	0.273226	-0.22711	0.845486	0.126834	0.039742	0.089332	0.161261	-0.3033	0.238643	-0.3795	0.857838	0.020231	0.9428	0.004645
UNC93B1	-0.15508	-0.06564	-0.06339	-0.20496	0.249367	0.630767	0.639453	0.126162	-0.3343	0.238492	-0.24512	0.023674	0.011583	0.944772	0.052302	0.562051
DEFB126	-0.03927	-0.14964	0.073344	-0.28066	0.771772	0.270998	0.587681	0.034457	0.15841	-0.373	0.286833	-0.35455	0.85348	0.005338	0.971956	0.007811
DIAPH3	0.065618	0.065337	-0.02871	-0.13032	0.634094	0.638786	0.835177	0.342962	-0.00036	0.283394	0.008089	0.125806	0.499068	0.968848	0.520782	0.792097
C1orf14	-0.03951	-0.18065	0.082281	-0.27037	0.770443	0.182745	0.542871	0.041941	0.045917	-0.4625	0.126226	-0.29671	0.619059	0.000606	0.795664	0.022626

C1orf25	-0.03539	0.046224	-0.1769	-0.11467	0.79383	0.735148	0.188043	0.395669	-0.16234	0.099885	0.092976	0.125984	0.140533	0.745522	0.728229	0.797939
TSC22D4	0.121771	-0.20475	0.279421	-0.12038	0.366872	0.130087	0.035294	0.372425	0.0925	-0.10371	0.123601	-0.03079	0.727192	0.248888	0.787954	0.420432
TSSK3	0.044439	-0.26071	0.293744	-0.06454	0.742736	0.052294	0.026571	0.63336	-0.29341	-0.18709	0.118995	-0.16772	0.025224	0.109227	0.779154	0.135397
MAP1LC3B	0.082459	0.132371	-0.05725	-0.0069	0.541993	0.330794	0.672277	0.959374	0.376925	-0.10152	0.107124	-0.16197	0.99509	0.251013	0.758164	0.141093
AKAP1	0.023743	0.382639	-0.15901	0.204886	0.862109	0.003937	0.241767	0.129832	0.136785	0.566313	-0.17797	0.400433	0.817654	0.99998	0.121074	0.997088
CCNL2	-0.03712	0.139871	0.076498	0.376386	0.783955	0.303878	0.571677	0.003906	0.192226	0.011835	-0.07102	-0.00214	0.899699	0.531112	0.32147	0.494369
TMEM49	-0.08418	0.164954	-0.20653	0.17883	0.533542	0.224403	0.123215	0.183194	-0.04575	0.21596	-0.11488	0.139311	0.38137	0.925275	0.226201	0.82209
C6orf62	0.008211	0.198101	-0.22066	0.334202	0.951664	0.143312	0.09906	0.01106	0.152961	0.428755	-0.23137	0.406469	0.844916	0.998525	0.063106	0.997469
ISCA1	0.088546	0.003542	0.156138	-0.04148	0.512479	0.979328	0.246118	0.759323	0.141216	-0.37607	0.360256	-0.17679	0.825393	0.005001	0.99247	0.119929
LOC81691	-0.21906	-0.03678	-0.30178	-0.30758	0.101596	0.787822	0.022526	0.01994	-0.18541	0.065874	-0.3055	0.085904	0.108663	0.668203	0.020636	0.714863
AMN	-0.14501	-0.08458	0.162609	-0.13251	0.281819	0.53541	0.226842	0.325786	0.081859	-0.25685	0.05182	-0.28636	0.705686	0.042433	0.632343	0.026843
OR5V1	-0.12826	-0.20655	0.000808	-0.20614	0.341711	0.126678	0.995242	0.12395	0.241462	-0.49329	0.28796	-0.26848	0.944972	0.000288	0.970986	0.037276
OR2B2	-0.01542	-0.17494	0.064316	-0.19912	0.909352	0.197205	0.634567	0.137553	-0.11283	-0.25692	0.035343	-0.33101	0.230267	0.044216	0.590084	0.013174
C15orf5	0.064185	0.07146	0.06292	-0.13136	0.635257	0.600719	0.641952	0.330073	-0.09303	-0.17363	-0.02495	-0.15194	0.269294	0.124255	0.435371	0.156722
CAMK2D	0.132889	-0.01221	0.007571	0.053739	0.324408	0.928844	0.955429	0.691351	-0.08282	0.180737	-0.05693	0.210449	0.292124	0.885321	0.355141	0.919815
SLC14A2	0.007426	-0.06891	0.21878	-0.29659	0.956683	0.61713	0.10524	0.026443	0.181916	-0.25321	0.240155	-0.32866	0.886858	0.044762	0.943973	0.01287
DOCK8	-0.05744	-0.33096	0.045939	0.419534	0.671266	0.012721	0.734361	0.00116	-0.20388	-0.10599	0.006844	-0.00809	0.089576	0.244163	0.517583	0.478956
PPP1R14C	-0.22227	-0.0938	-0.12148	-0.34039	0.096551	0.491713	0.36804	0.009575	-0.31267	-0.25663	-0.05718	-0.14904	0.017187	0.042568	0.354539	0.161446
MADCAM1	-0.00893	-0.08735	0.283575	-0.09819	0.947441	0.522075	0.032548	0.467425	0.257196	-0.46928	0.171207	-0.51559	0.955958	0.000573	0.866758	0.000145
SF3A2	0.015689	-0.06297	0.256139	-0.09392	0.907785	0.644751	0.054457	0.487114	0.157836	-0.2377	0.097877	-0.23191	0.852593	0.05584	0.738798	0.060467
ELL	-0.10969	-0.2504	0.037403	0.025065	0.416635	0.062697	0.782376	0.853174	0.023301	-0.16183	-0.00437	-0.13036	0.561078	0.14131	0.488623	0.193927
TRIM7	-0.08969	0.278245	-0.16027	-0.15677	0.507044	0.037854	0.233679	0.244201	-0.12424	0.496074	-0.21269	0.216801	0.205357	0.999773	0.080345	0.926083
DKFZP547L	-0.05785	0.121247	0.091083	0.061085	0.669063	0.373381	0.500422	0.65171	-0.06691	0.100034	0.072722	0.031122	0.329314	0.745839	0.682512	0.581338
NUAK2	-0.28467	-0.11611	0.051632	-0.27601	0.033463	0.398571	0.705492	0.03949	-0.25127	0.027362	-0.06329	-0.08144	0.047957	0.570803	0.339795	0.297417
TIGD6	0.157155	0.102147	0.150669	-0.30086	0.247388	0.458033	0.267683	0.024253	-0.17162	-0.07741	-0.00637	0.0046	0.132663	0.308725	0.483829	0.511822
RNF170	0.03827	0.226789	-0.19468	0.022509	0.777458	0.092795	0.146733	0.868005	-0.03806	0.404827	-0.0808	0.270162	0.400865	0.99737	0.298865	0.965302
ADAMTS12	0.084411	-0.33793	0.275913	-0.1707	0.53244	0.010857	0.037759	0.204253	0.111317	-0.29618	0.167544	-0.28698	0.769289	0.022827	0.864354	0.026576
TLR10	-0.15833	-0.20824	-0.08773	0.178703	0.243829	0.127103	0.520244	0.187582	-0.09674	-0.39605	0.126201	-0.31602	0.26364	0.00354	0.792833	0.017223
ADAMTS10	0.135601	-0.32436	0.264138	0.040687	0.314542	0.014734	0.047096	0.763796	0.240219	-0.36974	0.300478	-0.20136	0.946088	0.005719	0.977548	0.089814
SLCO5A1	0.175809	-0.1402	0.321127	0.059441	0.190826	0.302721	0.014866	0.660505	0.229998	-0.40905	0.175517	-0.37571	0.937938	0.002382	0.875596	0.00504
OR12D3	0.008244	-0.08376	0.028026	-0.31063	0.951915	0.543208	0.837543	0.019801	-0.02738	-0.3452	-0.06405	-0.40538	0.429152	0.010105	0.339782	0.002867
CAMK2G	0.213149	0.13014	0.081814	-0.14827	0.114732	0.343633	0.548879	0.275448	0.376194	-0.14589	0.21672	-0.12413	0.995012	0.166656	0.923634	0.205566
NETO2	-0.13647	0.332736	-0.16593	0.040768	0.315892	0.01306	0.221641	0.765458	-0.11853	0.554279	-0.25918	0.453575	0.21635	0.999968	0.042787	0.999227
NETO1	-0.05256	-0.12593	0.116502	-0.1004	0.700455	0.359614	0.392509	0.461567	0.008676	-0.36328	0.175063	-0.40147	0.522817	0.006542	0.874973	0.002843
SPACA1	-0.02027	-0.04857	0.118249	-0.18796	0.882139	0.72475	0.385402	0.165362	-0.00834	-0.34102	0.078449	-0.31306	0.478078	0.01019	0.695756	0.017071
VANGL1	-0.16978	0.357519	-0.25215	-0.19911	0.210945	0.007368	0.060821	0.141243	-0.29165	0.586043	-0.36036	0.380395	0.024615	0.999991	0.007515	0.995444
TRIM56	-0.13133	-0.26936	0.124648	0.091802	0.330179	0.044698	0.355575	0.497032	-0.04663	-0.13285	0.069071	-0.01011	0.379153	0.18939	0.673948	0.473417
SBF2	0.047818	0.251128	-0.13971	0.11882	0.723922	0.061912	0.29996	0.378684	0.115059	0.290589	0.043575	0.14347	0.776799	0.974952	0.611879	0.829252
RNF146	0.095432	0.062212	-0.09245	0.164043	0.480097	0.648757	0.493962	0.222715	0.261381	-0.00052	0.159225	0.043394	0.960338	0.498626	0.851928	0.612694
SPRY4	0.259202	-0.17087	0.160535	0.200596	0.051535	0.207981	0.232902	0.13461	0.340709	-0.03609	0.156644	0.087761	0.989748	0.405905	0.847928	0.71903
ST6GALNA4	0.10715	-0.23628	0.147841	0.096063	0.427587	0.079564	0.272426	0.477182	0.181592	-0.39391	0.218322	-0.39049	0.886437	0.003379	0.925177	0.003648
KRTAP1-3	0.044083	-0.08214	0.21311	-0.25899	0.744722	0.547285	0.111465	0.051735	0.058747	-0.35934	0.183198	-0.33275	0.650922	0.007091	0.885817	0.011926
KRTAP1-1	-0.04096	-0.12971	0.125434	-0.41339	0.762259	0.340693	0.352523	0.001393	0.058948	-0.41057	0.138234	-0.39038	0.651414	0.002297	0.817418	0.003657
TMEM14B	-0.21422	0.199282	-0.24739	-0.13221	0.109562	0.140895	0.063552	0.326925	-0.25299	0.086163	-0.16673	0.075421	0.044907	0.715445	0.136831	0.690815
SFXN3	-0.13441	-0.26142	0.051211	-0.19737	0.318853	0.051633	0.705195	0.141125	-0.21892	-0.3447	0.033589	-0.26382	0.071907	0.00949	0.586691	0.038228
ZNF611	-0.05328	0.157873	-0.25755	0.109477	0.693865	0.245205	0.053092	0.417558	-0.15164	0.299028	-0.00341	0.237396	0.157213	0.978243	0.491143	0.943923
MED25	-0.19063	-0.1755	0.080125	-0.27042	0.155492	0.195742	0.553527	0.041902	-0.27506	-0.24248	0.022115	-0.21824	0.032151	0.052225	0.557326	0.072546
SHARPIN	0.048492	-0.01617	0.290096	-0.24038	0.722658	0.906732	0.030098	0.074338	0.001623	-0.28135	0.186612	-0.25243	0.504271	0.0291	0.890167	0.045278
ZNF239	0.206377	-0.36552	0.218305	0.023385	0.123506	0.005603	0.102807	0.862913	0.120098	-0.3375	0.119094	-0.13401	0.786696	0.010901	0.78207	0.187302
KRTAP4-6	-0.03405	-0.09775	0.080355	-0.16521	0.801491	0.473572	0.552387	0.219394	0.219741	-0.05854	0.223801	-0.20279	0.928859	0.349591	0.930279	0.08825

ARPC5L	-0.14356	0.193979	-0.09489	0.006812	0.28671	0.151996	0.482592	0.959891	-0.2116	0.325048	-0.22569	0.261021	0.079021	0.986243	0.068026	0.960124
ISG20L2	-0.07189	0.477925	-0.20133	0.222331	0.595111	0.000195	0.13315	0.096462	-0.09332	0.685506	-0.20569	0.367681	0.271026	1	0.090201	0.993519
RAB1B	-0.04866	0.141662	-0.01191	0.069411	0.721759	0.302223	0.930552	0.611229	-0.05924	0.428185	-0.09546	0.195173	0.347884	0.998504	0.266381	0.903172
LAS1L	-0.08036	-0.15373	-0.13266	0.083758	0.552384	0.257978	0.325233	0.535626	-0.17031	0.383697	-0.13661	0.255263	0.131671	0.995365	0.188292	0.954709
HYI	0.070208	-0.35467	0.292667	-0.0466	0.603789	0.007317	0.027157	0.730679	0.15164	-0.41718	0.026259	-0.3194	0.842793	0.001961	0.567976	0.015245
FAHD1	-0.04576	0.372149	-0.21138	0.083484	0.735351	0.004738	0.114464	0.536968	-0.0498	0.608488	-0.24939	0.456677	0.371201	0.999996	0.049255	0.999289
SYMPK	-0.09606	0.001846	0.023116	-0.06312	0.4772	0.989226	0.864474	0.640916	-0.18543	0.219684	-0.11527	0.037013	0.108645	0.928805	0.225424	0.596467
QTRT1	-9.11E-05	-0.16863	0.114521	0.14452	0.999463	0.214099	0.396295	0.283463	-0.02923	0.176741	-0.018	0.182686	0.423536	0.880004	0.453295	0.887855
C14orf156	-0.09059	0.350035	-0.33384	0.140565	0.50274	0.008179	0.011154	0.296986	-0.17976	0.504443	-0.25805	0.460056	0.11596	0.999825	0.0435	0.999352
SLC25A28	-0.04192	-0.01214	0.008337	0.33154	0.756843	0.929253	0.950923	0.011758	0.082212	0.234226	-0.20482	0.237246	0.706492	0.941415	0.088565	0.943807
CAMLG	0.275448	0.131839	-0.17037	0.158236	0.038096	0.332754	0.205123	0.23975	0.136581	0.381719	-0.03999	0.28067	0.817292	0.995573	0.397122	0.97058
MIA	0.138958	-0.50734	0.293976	0.140805	0.302598	6.59E-05	0.026446	0.296153	0.241503	-0.35334	0.187101	-0.23581	0.945003	0.008634	0.888033	0.059448
CLPP	0.075093	-0.02796	0.081687	-0.01394	0.582288	0.839442	0.549503	0.918784	0.017424	0.28054	-0.18474	0.152641	0.545751	0.970519	0.112201	0.844403
FAM108A1	0.054833	0.044615	0.119154	-0.24228	0.685395	0.744048	0.377339	0.069405	0.051939	-0.07581	0.050268	-0.2494	0.634126	0.308278	0.628515	0.047311
CABLES2	0.027924	-0.06878	0.160054	-0.18922	0.836643	0.614484	0.234322	0.158628	0.166789	-0.2955	0.116244	-0.30778	0.866041	0.023089	0.7765	0.018726
SEH1L	0.035852	0.313971	-0.20295	0.352832	0.793068	0.019577	0.133568	0.007649	0.027771	0.575634	-0.27722	0.380642	0.572681	0.999986	0.032619	0.995468
DPF1	-0.00293	-0.19187	0.269687	-0.22931	0.98277	0.156581	0.042485	0.086191	0.053821	-0.36382	0.285928	-0.29922	0.638798	0.006468	0.971548	0.021687
KIF18A	-0.03469	0.131996	-0.07689	-0.12754	0.79962	0.336736	0.573274	0.348905	-0.15395	0.467613	-0.10359	0.234238	0.153509	0.999475	0.249153	0.941425
ZNF93	-0.02869	0.088753	-0.10445	-0.27319	0.832238	0.515389	0.439383	0.03977	-0.10609	-0.19305	-0.12399	-0.36514	0.241426	0.099318	0.208548	0.006294
HDHD3	-0.16192	0.214408	-0.12585	0.089525	0.228846	0.112556	0.350901	0.507806	-0.27663	0.680224	-0.40666	0.314846	0.03137	1	0.002785	0.983462
MKKS	0.022906	0.267634	-0.28397	0.204197	0.865697	0.046135	0.032299	0.127608	-0.10205	0.497737	-0.27326	0.305639	0.249885	0.999784	0.034668	0.980567
CAMP	-0.14127	-0.14634	0.192122	-0.1109	0.294529	0.281845	0.15222	0.411492	0.129024	-0.38596	0.156544	-0.26444	0.803609	0.004034	0.847773	0.037873
GDF5	0.111719	-0.14765	0.219219	-0.21505	0.408028	0.277514	0.101339	0.108174	0.02547	-0.17894	0.227135	-0.14074	0.565951	0.119774	0.930926	0.17823
NCOA3	-0.10077	0.384199	-0.32921	0.165589	0.455754	0.003463	0.012401	0.218327	-0.0599	0.505866	-0.0995	0.363732	0.346265	0.999832	0.257757	0.993519
NRIP1	-0.08622	0.276584	-0.28171	0.343222	0.523653	0.039063	0.033756	0.008955	0.065013	0.523521	-0.15346	0.485742	0.666133	0.999906	0.157093	0.999689
CHAF1B	-0.05056	0.11216	-0.19311	-0.00766	0.708765	0.410507	0.150085	0.954913	-0.08293	0.511973	-0.31752	0.279433	0.291864	0.999862	0.016777	0.969994
C21orf33	-0.09812	0.047703	-0.13431	0.148176	0.471855	0.72946	0.323693	0.275772	-0.13268	0.331953	-0.23533	0.219039	0.189694	0.987895	0.059836	0.928203
CANX	0.105379	0.260093	-0.12722	0.128609	0.435305	0.052878	0.345652	0.340372	-0.02563	0.397853	-0.10343	0.312987	0.432864	0.996911	0.249483	0.982908
DGCR6	0.017498	-0.24477	0.113623	-0.1894	0.897207	0.069045	0.400036	0.158236	-0.02796	-0.18604	0.043556	-0.12426	0.426822	0.107873	0.611832	0.205324
LZTR1	0.096267	-0.08096	0.074754	0.145274	0.476243	0.553094	0.580504	0.280932	0.016353	0.291191	-0.14794	0.194447	0.542948	0.975199	0.166065	0.902324
CLTCL1	-0.06209	0.126862	0.097814	-0.14199	0.646335	0.351488	0.469155	0.292058	0.143176	-0.27708	-0.05571	-0.25949	0.828752	0.031147	0.358116	0.040797
CAPG	-0.06993	0.097731	-0.19256	0.088624	0.605221	0.473636	0.151265	0.512106	0.014023	0.573307	-0.16209	0.357251	0.536847	0.999984	0.143707	0.992602
DGCR14	-0.09125	-0.07966	0.042868	-0.07294	0.499621	0.559469	0.75153	0.589728	-0.294	-0.03451	-0.06568	-0.06695	0.023672	0.409949	0.33409	0.329223
SYN3	-0.01883	-0.1088	0.209042	-0.171	0.889432	0.424754	0.118626	0.203435	0.10658	-0.42455	0.195183	-0.42803	0.759588	0.001637	0.900584	0.001502
HDHD1A	-0.04312	0.086277	-0.03687	-0.29935	0.750106	0.52722	0.785413	0.023688	-0.33059	0.070843	-0.08487	-0.02807	0.012418	0.680052	0.289687	0.426534
PNPLA4	-0.12295	0.151963	-0.10674	-0.15744	0.362213	0.263546	0.429382	0.24215	-0.38152	0.13224	-0.18365	0.092769	0.004856	0.806738	0.116368	0.72778
CAPN1	-0.08153	0.181952	-0.23605	-0.01784	0.550297	0.183673	0.079869	0.896154	-0.21694	0.689561	-0.28527	0.394156	0.073782	1	0.028753	0.99664
ZRSR2	-0.00358	-0.16549	0.287594	-0.21782	0.978944	0.222875	0.030065	0.103595	0.114946	-0.27531	0.216856	-0.22554	0.776574	0.032025	0.923766	0.065899
USP11	0.107134	-0.10493	-0.12017	-0.06303	0.427654	0.441517	0.373256	0.641355	-0.04737	0.15688	0.085481	0.120975	0.377286	0.851108	0.711684	0.788394
USP9X	0.019566	0.221822	-0.23645	0.212764	0.885137	0.10037	0.076596	0.112061	0.045374	0.323916	-0.07274	0.295339	0.617693	0.985955	0.317441	0.97685
CAPN2	-0.24081	0.31992	-0.19594	-0.06583	0.073808	0.017264	0.147825	0.629769	-0.17044	0.541236	-0.32531	0.198795	0.128711	0.999949	0.014609	0.907323
RBM10	-0.00301	0.009769	-0.00051	-0.16821	0.982419	0.943567	0.997037	0.215263	-0.06585	0.343536	-0.03694	0.05033	0.333678	0.989569	0.405923	0.62867
JARID1C	0.061853	-0.00404	0.054783	0.045138	0.647618	0.976415	0.685664	0.738831	-0.0875	0.270145	-0.15708	0.014237	0.28156	0.965293	0.151397	0.537407
SMC1A	0.091098	0.16208	-0.16291	0.147245	0.500347	0.232693	0.225974	0.274387	-0.27664	0.556345	-0.2568	0.374164	0.031362	0.99997	0.044294	0.994791
CAPN3	-0.22472	-0.07701	-0.0385	-0.10451	0.092838	0.572686	0.776131	0.439135	-0.02505	0.027976	-0.04017	0.045466	0.434363	0.573211	0.396656	0.617924
CAPNS1	-0.07689	0.355448	-0.37731	-0.06811	0.569713	0.007181	0.003812	0.614664	-0.07619	0.543787	-0.09789	0.278906	0.309439	0.999943	0.263641	0.968224
ARD1A	-0.02065	-0.05304	-0.00389	0.109632	0.878809	0.697862	0.977084	0.416896	-0.14425	0.237293	-0.145	0.233514	0.169421	0.943844	0.170968	0.94084
UBL4A	-0.05325	0.001614	-0.03381	0.023581	0.694045	0.990582	0.802855	0.861778	-0.09805	0.279018	-0.05491	0.20242	0.258404	0.969796	0.360067	0.911349
TMEM187	-0.07812	-0.22215	0.247756	-0.1609	0.563543	0.099848	0.063146	0.231819	-0.0959	-0.44861	0.076243	-0.39121	0.263045	0.000883	0.690682	0.00359
CAPN6	0.357005	-0.21744	0.231268	-0.08648	0.006914	0.110786	0.086355	0.526237	0.222962	-0.36446	0.214428	-0.20784	0.929515	0.006921	0.918903	0.085339

LAGE3	0.029207	-0.22121	0.20077	-0.15308	0.829247	0.101336	0.134266	0.255614	-0.03306	-0.05061	0.066031	-0.0232	0.41366	0.369193	0.66675	0.439182
SLC10A3	-0.00016	-0.06426	0.14504	-0.13501	0.999064	0.637986	0.281717	0.316667	0.192987	-0.1463	0.193094	-0.22053	0.900604	0.165976	0.898112	0.070413
TKTL1	-0.10912	-0.11496	0.191926	-0.20127	0.419105	0.398865	0.152647	0.133285	0.047273	-0.45076	0.096097	-0.24382	0.62247	0.000834	0.734983	0.051245
CAPS	-0.09412	-0.22527	0.067872	-0.16993	0.486162	0.095056	0.615912	0.206337	-0.20336	-0.27337	0.009617	-0.18755	0.087632	0.033012	0.524996	0.105986
JARID1D	-0.03853	0.056726	-0.16891	0.056744	0.776002	0.677795	0.209112	0.675033	0.142731	0.323275	-0.12699	0.264019	0.825189	0.984848	0.205691	0.960156
USP9Y	-0.05751	0.098675	-0.21006	0.017019	0.670905	0.469353	0.1168	0.900008	0.133768	0.184423	0.020195	0.150057	0.812267	0.890079	0.552379	0.840223
EPX	0.118629	-0.18023	0.258152	-0.20882	0.379458	0.183769	0.052523	0.119036	0.249699	-0.24054	0.318625	-0.26796	0.952891	0.053666	0.983546	0.035897
ARID1A	-0.01446	0.051568	-0.06813	0.00032	0.914968	0.705842	0.614575	0.998113	-0.00814	0.32654	-0.08537	0.348453	0.478589	0.986615	0.288554	0.991183
CAPZA1	-0.09764	0.494726	-0.28489	0.117728	0.469942	0.000106	0.031715	0.383115	-0.08859	0.570021	-0.24299	0.396526	0.279115	0.999982	0.053875	0.996816
HIST3H3	-0.00287	-0.09056	0.246352	-0.10802	0.983094	0.506856	0.064705	0.4238	-0.08106	-0.31915	0.057678	-0.2971	0.296144	0.015313	0.646668	0.022478
DYSF	0.217051	-0.47587	0.296418	0.253225	0.104848	0.00021	0.025162	0.05736	0.123361	-0.40015	0.287062	-0.08696	0.790262	0.003229	0.970575	0.285016
COLQ	0.124043	-0.26318	0.31607	-0.30462	0.362378	0.052218	0.01764	0.022449	0.236765	-0.5258	0.248644	-0.49001	0.94343	8.75E-05	0.950221	0.000274
HIST1H4I	-0.03702	-0.09183	-0.01124	0.051903	0.784542	0.500888	0.933886	0.701398	-0.12354	0.273014	-0.22869	0.347427	0.206683	0.966803	0.065394	0.991003
TRRAP	-0.06055	0.172997	-0.13923	0.209381	0.657531	0.206567	0.306123	0.121443	-0.179	0.381456	-0.11895	0.368039	0.119698	0.995138	0.220934	0.993566
CAPZA2	0.046296	0.13355	-0.24667	0.099256	0.732376	0.326463	0.064348	0.462594	-0.03854	0.200367	-0.05578	0.210212	0.400763	0.906534	0.359556	0.917127
PICALM	0.061518	0.096305	-0.15396	0.256739	0.649401	0.480144	0.252845	0.053875	0.127029	0.057809	0.025688	0.122562	0.799898	0.648625	0.566511	0.791446
KLRC4	-0.01905	-0.30784	0.09851	0.38031	0.889141	0.022232	0.4701	0.003837	0.016695	-0.1824	0.172901	-0.12492	0.54334	0.115217	0.869144	0.206788
SNN	0.016995	-0.07731	0.084623	-0.02089	0.900144	0.571173	0.531405	0.877425	0.19998	-0.32928	0.071561	-0.44601	0.908654	0.012724	0.679798	0.000946
ACOX2	0.017163	-0.1205	0.065665	0.050577	0.900088	0.380841	0.630637	0.711246	0.042837	-0.31454	0.123004	-0.14496	0.611284	0.016627	0.789585	0.168227
CAST	-0.03674	0.2621	-0.24618	-0.10471	0.786157	0.05101	0.0649	0.438237	-0.11527	0.362378	-0.08185	0.155236	0.222791	0.993336	0.296494	0.848529
ACOX3	-0.21072	0.055069	-0.0233	-0.06272	0.119028	0.689651	0.86464	0.646073	-0.29868	0.132928	-0.10384	0.137331	0.021885	0.810751	0.24862	0.818618
AXIN1	-0.13788	0.064894	0.057995	-0.19513	0.306397	0.634668	0.668277	0.145779	-0.07424	-0.01663	0.013568	-0.20894	0.311952	0.456316	0.535245	0.081728
AXIN2	0.122183	0.165087	0.138746	0.054137	0.365242	0.224025	0.303344	0.689181	0.20266	0.053796	0.146108	-0.09213	0.911612	0.638735	0.830891	0.271286
BAP1	-0.00083	0.168274	-0.1937	0.086243	0.995101	0.215083	0.148824	0.52355	-0.02252	0.544009	-0.23481	0.341419	0.440959	0.999953	0.060254	0.989888
BRAP	-0.02362	0.158421	-0.30677	0.054135	0.86156	0.243549	0.020285	0.689194	-0.19952	0.423323	-0.10048	0.222208	0.091859	0.998312	0.255678	0.931127
CDC7	-0.20841	0.297678	-0.19758	0.054057	0.123217	0.027297	0.144397	0.692331	-0.3153	0.581138	-0.27887	0.36691	0.016405	0.999989	0.031793	0.993932
CDC45L	-0.03014	0.150894	-0.00065	-0.18441	0.825485	0.271478	0.99622	0.173649	-0.1834	0.433452	-0.2132	0.22358	0.111222	0.99869	0.079841	0.932365
CAPZB	0.005574	0.250074	-0.24911	0.127082	0.967176	0.063051	0.061675	0.346184	-0.17629	0.524481	-0.06751	0.393593	0.1206	0.999909	0.329743	0.996597
EOMES	0.010521	-0.23496	0.214334	0.090323	0.938089	0.081318	0.109376	0.504018	0.026558	-0.47008	0.158266	-0.25683	0.569538	0.00049	0.85045	0.042446
FZD1	0.069775	-0.15143	0.175282	0.059303	0.606032	0.265257	0.192181	0.661244	0.132969	-0.01383	0.098763	0.031411	0.810826	0.46367	0.740685	0.582083
FZD4	0.33437	-0.2401	0.318448	0.263894	0.011018	0.074686	0.015771	0.047308	0.457618	-0.3612	0.337543	-0.14734	0.999307	0.006826	0.988323	0.164241
FZD6	0.09451	0.392101	-0.23116	-0.02945	0.488405	0.002801	0.086509	0.829396	-0.0786	0.427368	-0.16893	0.355113	0.303898	0.998295	0.13649	0.991661
FZD7	0.28866	-0.13578	0.11624	0.094152	0.030961	0.322925	0.393583	0.490058	0.388102	-0.1851	0.166666	0.005953	0.995785	0.111749	0.860217	0.51548
FZD8	0.024981	-0.16337	0.258056	-0.11233	0.85366	0.228934	0.052613	0.405463	0.103266	-0.39995	0.20372	-0.33595	0.752676	0.002944	0.910245	0.011226
PCDH11Y	0.006692	0.08753	-0.01233	-0.2475	0.960596	0.521215	0.927465	0.063425	0.108926	-0.23457	0.025031	-0.08369	0.764418	0.058307	0.564824	0.290138
FZD9	-0.03468	-0.1403	0.238869	-0.11981	0.797889	0.302394	0.073539	0.374702	0.174525	-0.34326	0.11377	-0.23734	0.876984	0.009759	0.771602	0.056118
GFI1B	0.132858	-0.4299	0.347955	-0.27802	0.32452	0.000944	0.007996	0.03626	0.147954	-0.53727	0.289293	-0.48597	0.83677	5.91E-05	0.973039	0.000309
HIST1H2AI	-0.22238	-0.02096	-0.10779	0.086168	0.102711	0.88041	0.43344	0.531626	-0.35858	0.542177	-0.14007	0.403784	0.007786	0.99994	0.182235	0.997026
CARS	-0.18491	-0.04364	-0.14966	0.026659	0.168516	0.749462	0.266503	0.843945	-0.32564	0.149407	-0.23044	0.128205	0.013608	0.839162	0.063893	0.802091
HIST1H2AK	-0.06205	0.061073	-0.10895	-0.02841	0.646584	0.654777	0.419807	0.833819	-0.03414	0.361543	0.218942	0.273969	0.411899	0.992661	0.923337	0.965708
HIST1H2AJ	-0.18531	0.023391	-0.17776	0.016971	0.171513	0.865393	0.189958	0.901204	-0.0612	0.098662	-0.22716	0.028488	0.343084	0.742908	0.066719	0.574536
HIST1H2AL	-0.03686	-0.15224	-0.00262	0.077308	0.789361	0.271794	0.984853	0.574794	-0.1312	0.457171	-0.08004	0.361596	0.195146	0.999203	0.302768	0.992669
HIST1H2AC	0.062583	-0.15246	-0.27839	0.028825	0.643739	0.261959	0.036002	0.831444	-0.16927	0.147584	-0.25827	0.040929	0.130385	0.836158	0.043361	0.606446
HIST1H2AB	-0.08866	0.053126	-0.03197	0.083754	0.519791	0.702811	0.816769	0.54323	-0.25342	0.621999	-0.28574	0.401762	0.04463	0.999998	0.028537	0.997176
HIST1H2AN	-0.14014	0.015805	-0.07805	0.023817	0.298455	0.907961	0.563883	0.860407	-0.35369	0.346735	-0.35976	0.395887	0.007947	0.99088	0.007605	0.996769
HIST2H2AC	0.115926	-0.15844	-0.08324	0.123242	0.39049	0.243508	0.53816	0.36107	0.083352	0.085863	-0.11965	0.169069	0.709088	0.714769	0.21686	0.869331
HIST1H2BG	-0.08915	-0.15054	-0.2559	-0.00021	0.5096	0.268099	0.054687	0.998765	-0.37463	0.401603	-0.35839	0.247854	0.005157	0.997166	0.007815	0.951622
PITPNM3	-0.05412	0.280676	-0.12769	-0.23512	0.689302	0.036141	0.34388	0.078311	-0.18854	0.419758	-0.15911	0.116985	0.104771	0.998158	0.148245	0.780612
CASP1	-0.22568	0.048675	-0.19378	0.563426	0.091414	0.721657	0.14865	5.04E-06	-0.30619	0.154171	-0.03709	0.187379	0.020397	0.844032	0.405541	0.891129
HIST1H2BL	-0.12151	0.263058	-0.11272	-0.09776	0.367896	0.050137	0.403819	0.469394	-0.06557	0.242374	-0.0792	0.129949	0.332534	0.947697	0.302514	0.805315

ELOVL3	0.115381	-0.11634	0.237143	-0.25486	0.392736	0.393163	0.075707	0.055719	0.245882	-0.42191	0.198587	-0.25889	0.950237	0.001747	0.90452	0.041167
HIST1H2BN	-0.18953	0.001648	0.011226	-0.24872	0.161791	0.99038	0.934557	0.064537	-0.119	0.167576	-0.13062	-0.07396	0.215435	0.867182	0.196201	0.312609
FCRL5	-0.07314	-0.05134	0.050067	0.568778	0.592152	0.709725	0.714034	4.80E-06	-0.13375	0.303318	0.067367	0.271392	0.190544	0.97859	0.668035	0.964332
FCRL4	-0.02958	-0.15391	0.157496	-0.1566	0.827109	0.257406	0.241983	0.244719	0.048055	-0.20788	0.171129	-0.25125	0.624431	0.082825	0.869489	0.046065
HIST1H2BN	-0.17618	0.280013	-0.27801	0.009299	0.193988	0.038401	0.038021	0.945771	-0.22359	0.643968	-0.24098	0.418082	0.067622	0.999999	0.055397	0.998081
HIST1H2BF	-0.17907	0.239125	-0.28429	-0.02352	0.190842	0.081604	0.035421	0.864655	-0.19598	0.588327	-0.25658	0.430879	0.09589	0.999991	0.044439	0.998602
TCF7L1	0.125979	-0.1572	0.3063	-0.0851	0.350417	0.247263	0.020488	0.529078	0.13792	-0.20752	0.212915	-0.11543	0.819657	0.083202	0.919877	0.222464
HIST1H2BE	-0.07879	0.165004	-0.18151	0.023351	0.56019	0.224259	0.176616	0.863115	-0.27278	0.471738	-0.34409	0.250793	0.033318	0.999533	0.010323	0.953632
ADPGK	-0.15276	0.171153	-0.23923	0.383364	0.256605	0.207224	0.073087	0.003244	-0.27538	0.500261	-0.28705	0.388397	0.033557	0.999767	0.029429	0.995812
SH3BGR3	0.078884	0.027334	-0.09556	-0.01239	0.559709	0.841502	0.479489	0.927103	0.117985	-0.00058	0.069185	-0.06558	0.782576	0.498463	0.674218	0.332492
SF3B5	-0.16167	-0.17904	-0.10439	0.009128	0.229558	0.18675	0.439645	0.946274	-0.47259	0.267866	-0.34128	0.176608	0.000456	0.964054	0.010887	0.879824
INO80B	-0.11005	-0.22117	0.256519	-0.33557	0.415107	0.101406	0.054087	0.010716	-0.20722	-0.4721	0.190831	-0.32367	0.083511	0.000462	0.895385	0.014107
GSG1	-0.01614	-0.13024	0.206845	-0.26746	0.905159	0.338706	0.122638	0.044291	-0.03289	-0.42974	0.021429	-0.36492	0.414115	0.001438	0.55556	0.006324
CCDC70	0.015536	-0.13588	0.141846	-0.21735	0.90868	0.318033	0.292559	0.104351	0.157359	-0.41254	0.194255	-0.38466	0.851854	0.002193	0.899491	0.004152
SLC25A31	-0.02552	-0.02809	-0.02143	-0.327	0.85052	0.83718	0.874276	0.013035	0.042417	-0.26278	-0.0165	-0.36269	0.61022	0.038835	0.457161	0.006622
PUS7L	0.018545	0.251528	-0.20047	0.185885	0.891091	0.061484	0.134851	0.166234	0.012033	0.399184	-0.08552	0.289249	0.531631	0.997003	0.288222	0.974394
PMFBP1	-0.17448	-0.02031	-0.24962	-0.43879	0.19425	0.881873	0.06112	0.000639	-0.28671	-0.06288	-0.15147	-0.18701	0.026689	0.339024	0.160288	0.106658
HIST1H2BH	-0.13648	0.150271	-0.24143	-0.03135	0.311401	0.268963	0.070409	0.81691	-0.36042	0.461618	-0.26486	0.340291	0.006937	0.999379	0.03935	0.989666
LRRC48	-0.10396	-0.19774	0.063805	-0.21255	0.441559	0.14405	0.637267	0.112422	-0.15916	-0.28734	0.067262	-0.24486	0.14536	0.02642	0.669673	0.05049
ABHD11	-0.25293	0.175163	-0.12329	-0.23537	0.057657	0.196618	0.360894	0.077986	-0.24907	0.0925	-0.2879	-0.14198	0.047539	0.729537	0.027569	0.173291
RAB33B	0.323637	-0.08169	0.144457	0.068994	0.014969	0.553261	0.288135	0.613373	0.075821	-0.03427	0.003989	-0.14488	0.691749	0.410552	0.510374	0.168359
HIST1H2BI	-0.12359	0.137503	-0.19044	0.02695	0.359697	0.312216	0.15592	0.842268	-0.31145	0.351473	-0.33209	0.292268	0.017562	0.991694	0.012917	0.975637
TMEM93	-0.22131	0.373402	-0.10747	0.048189	0.098041	0.004589	0.426213	0.721865	-0.31159	0.372032	-0.2157	0.153972	0.017519	0.99455	0.077357	0.846528
CDCA3	-0.01158	0.21241	-0.00661	-0.16028	0.931879	0.116026	0.961107	0.233643	-0.07527	0.175012	0.0456	0.117198	0.311568	0.874903	0.615591	0.778373
MXD3	-0.11622	-0.22979	0.091023	-0.19643	0.389293	0.088444	0.500704	0.143072	-0.08912	-0.36302	-0.00742	-0.33634	0.277937	0.006577	0.480704	0.011145
APH1B	0.064554	-0.22617	0.054663	0.04088	0.633311	0.093721	0.686318	0.762711	-0.01816	-0.37868	0.113132	-0.13819	0.452338	0.004729	0.77033	0.179863
GLT8D2	0.331741	-0.20012	0.143934	0.304484	0.011704	0.1392	0.285442	0.021287	0.362997	-0.27802	0.318831	0.050018	0.99342	0.030684	0.983605	0.629341
HIST1H2BC	-0.1043	0.041168	-0.28892	0.005712	0.440069	0.763222	0.029278	0.966366	-0.27098	0.400129	-0.31182	0.332092	0.034263	0.997068	0.018525	0.987927
KATNAL2	-0.14819	-0.04734	-0.04357	-0.3125	0.271284	0.729007	0.747613	0.017949	-0.29064	-0.21006	0.086223	-0.21815	0.025029	0.080583	0.713343	0.072633
DOHH	-0.06072	-0.14203	0.22669	-0.21121	0.653643	0.296387	0.089941	0.114768	0.020648	-0.53257	0.022175	-0.42159	0.553546	8.30E-05	0.556806	0.001961
ARHGAP24	0.026218	-0.05685	0.010828	0.028637	0.846499	0.677289	0.936282	0.832527	-0.06734	-0.09447	0.004176	-0.08992	0.328288	0.266147	0.51086	0.276167
DDX59	-0.02337	0.215064	-0.21544	-0.15706	0.862975	0.111433	0.107522	0.243298	0.009238	0.12133	0.030911	0.081042	0.524294	0.789079	0.579873	0.703816
HIST1H2BC	0.229382	0.151682	0.084467	-0.19335	0.089022	0.268954	0.535954	0.153364	0.035326	0.033163	0.066831	0.013771	0.592147	0.586593	0.668649	0.536186
PUS3	-0.01151	0.24503	-0.33378	0.177392	0.932278	0.068738	0.011169	0.186801	-0.08349	0.368701	-0.15086	0.331724	0.290595	0.994155	0.161285	0.987843
EPPK1	-0.05285	-0.06037	-0.10238	-0.19954	0.696232	0.658511	0.448549	0.136713	-0.06247	0.141196	-0.10291	0.080133	0.340022	0.825359	0.250569	0.701731
SCRT1	0.008806	-0.1258	0.258959	-0.12612	0.948164	0.355549	0.051762	0.349891	0.097386	-0.48276	0.168557	-0.35728	0.740167	0.000339	0.865818	0.007394
PLVAP	0.335723	-0.18162	0.302665	0.367346	0.010678	0.180369	0.022114	0.004939	0.300284	-0.20468	0.248624	0.062255	0.978701	0.086204	0.950206	0.659469
HIST2H2BE	-0.07707	-0.01692	0.012086	-0.08452	0.568776	0.901482	0.928902	0.531904	-0.18606	0.093215	0.034678	0.144695	0.107846	0.731105	0.589457	0.831327
CASP2	-0.1046	0.42602	-0.29828	0.391823	0.43874	0.001062	0.024216	0.002577	-0.02699	0.64209	-0.19713	0.406244	0.429337	0.999999	0.097154	0.997456
HIST1H3A	0.080841	0.057631	-0.14204	-0.02803	0.549976	0.673104	0.291906	0.836012	-0.30736	0.547882	-0.10386	0.470017	0.019997	0.999951	0.251139	0.999438
HIST1H3D	0.07064	0.085915	-0.20546	0.235789	0.60156	0.528962	0.125214	0.077443	-0.25468	0.662442	-0.23424	0.52225	0.043811	1	0.060719	0.999901
HIST1H3C	-0.04541	-0.10672	0.013685	0.00441	0.737298	0.433723	0.919522	0.974029	-0.19489	0.10924	-0.04405	0.098718	0.09716	0.765062	0.386927	0.743027
HIST1H3E	-0.09839	0.19188	-0.05779	-0.02309	0.47066	0.160492	0.672261	0.865889	-0.20619	0.314643	-0.29221	0.163703	0.084596	0.983402	0.025721	0.861501
TTC25	-0.11252	-0.16628	0.053846	-0.23792	0.404639	0.220639	0.69077	0.074731	-0.16723	-0.30951	0.127761	-0.23158	0.133314	0.018168	0.798526	0.06074
CHST9	-0.03883	0.073566	-0.11069	-0.17205	0.77426	0.590001	0.412384	0.200641	-0.16067	0.094421	-0.04728	-0.08403	0.143056	0.733741	0.378882	0.289372
HIST1H3I	-0.16965	0.025051	-0.22603	0.200355	0.215626	0.857306	0.097056	0.142468	-0.20961	0.660279	-0.34097	0.49112	0.081036	1	0.010949	0.999736
NUF2	-0.0691	0.169764	-0.22591	-0.16335	0.612846	0.215306	0.094101	0.228996	-0.17486	0.559717	-0.1889	0.328754	0.122557	0.999974	0.106981	0.987152
FAM110A	0.03686	0.147553	0.151119	-0.1294	0.785458	0.277816	0.261819	0.337392	0.069755	0.163384	0.121074	0.04696	0.677472	0.861026	0.785894	0.621684
AIF1L	0.229513	-0.22975	0.207647	0.095573	0.088835	0.088496	0.124628	0.483503	0.354285	-0.35552	0.306179	-0.17181	0.992147	0.007661	0.979599	0.126782
DNAL1	-0.09198	-0.08137	-0.06139	-0.20539	0.496209	0.551041	0.650069	0.12535	-0.24318	-0.16346	0.014314	-0.0028	0.051714	0.138855	0.537178	0.492624

RTBDN	0.067524	-0.21911	0.251943	-0.12288	0.617731	0.104699	0.058677	0.362494	0.044388	-0.29965	0.165038	-0.27678	0.615205	0.021529	0.860685	0.031292
RILP	-0.01706	-0.19478	0.153201	-0.14304	0.899747	0.150289	0.255227	0.288487	-0.03666	-0.46138	0.124192	-0.41652	0.404433	0.000625	0.791837	0.001992
COG3	0.015152	0.264871	-0.10369	0.250485	0.91093	0.048518	0.442755	0.060202	0.165226	0.384786	-0.09372	0.256361	0.863754	0.99586	0.270154	0.957261
UCK1	-0.18523	-0.12124	0.005454	-0.04679	0.16776	0.373397	0.967884	0.729654	0.025429	-0.08741	-0.19063	-0.16734	0.566608	0.281746	0.104861	0.133163
HIST1H3G	-0.16815	0.268847	-0.11448	0.10182	0.215429	0.047174	0.400844	0.455237	-0.26435	0.649179	-0.364	0.45885	0.037926	0.999999	0.006984	0.99933
GPR101	-0.03135	-0.16363	0.209242	-0.09115	0.816943	0.228209	0.118267	0.500121	0.080203	-0.31929	0.151808	-0.25365	0.701892	0.015275	0.840251	0.044475
TAAR8	0.002494	-0.07876	0.040895	-0.2559	0.985444	0.56763	0.764744	0.056962	0.149397	-0.37369	0.084319	-0.34593	0.836332	0.005726	0.70684	0.009966
MFRP	-0.02493	-0.0323	0.177418	-0.29635	0.853975	0.813207	0.186734	0.025197	0.2002	-0.31843	0.2047	-0.41487	0.906347	0.016512	0.908718	0.002301
HIST1H3J	0.033806	0.192964	0.019833	-0.03756	0.80464	0.158099	0.884645	0.78345	-0.16352	0.528571	-0.22281	0.305104	0.138778	0.99992	0.070626	0.980387
HIST1H3H	0.001309	-0.07547	-0.06676	-0.08858	0.992292	0.580399	0.621713	0.512324	-0.08961	0.311761	-0.23262	0.146494	0.276856	0.982534	0.062057	0.834345
HIST1H3B	-0.0971	0.208427	-0.12122	0.051899	0.476508	0.126746	0.373487	0.70404	-0.24617	0.651616	-0.28469	0.44298	0.049559	1	0.029019	0.998975
HIST1H4A	-0.00893	0.063492	-0.06481	0.178079	0.947457	0.642016	0.631948	0.18507	-0.00972	0.285121	0.197317	0.336768	0.474726	0.971181	0.900401	0.988153
TMUB1	0.025938	-0.00519	0.124332	-0.01058	0.848118	0.969737	0.356804	0.937726	0.030371	0.308795	0.017385	0.14328	0.579401	0.981603	0.545124	0.828929
THAP2	-0.01007	0.042398	-0.04673	0.090283	0.94072	0.756361	0.729974	0.504204	-0.06711	-0.05982	-0.08007	0.041635	0.330676	0.34814	0.3027	0.607018
AKR1CL2	0.180101	-0.00102	0.137994	0.11315	0.180049	0.994066	0.305997	0.402013	0.225377	0.051638	0.219113	-0.04318	0.931698	0.631894	0.923501	0.389117
RASSF5	-0.16705	0.095616	-0.22268	0.316656	0.218487	0.487424	0.099021	0.017419	-0.12208	0.443418	-0.07495	0.301336	0.209476	0.998987	0.312312	0.979079
NUDT12	-0.04451	0.196444	-0.2413	0.014663	0.742328	0.146759	0.070571	0.913791	-0.16941	0.404883	-0.1577	0.257322	0.13018	0.997374	0.150422	0.957864
SOX7	-0.0686	-0.03865	0.082019	-0.01708	0.612144	0.777298	0.544158	0.899647	0.0794	-0.21704	0.065344	-0.08103	0.700044	0.073692	0.665113	0.296206
BCL2L12	-0.16011	-0.02959	0.114178	0.004782	0.238501	0.828613	0.402086	0.972096	0.030397	0.033774	-0.10813	-0.13515	0.579468	0.588164	0.239766	0.185253
RTP3	-0.11997	-0.05056	0.147137	-0.12455	0.378479	0.713939	0.27919	0.360403	0.053048	-0.34858	0.035126	-0.40131	0.636882	0.008795	0.590593	0.002854
CASP3	-0.11226	0.341089	-0.32929	0.229192	0.405759	0.010095	0.012376	0.086357	-0.24862	0.605562	-0.16978	0.465914	0.047848	0.999996	0.132433	0.999449
HIST1H4D	-0.10741	-0.07769	-0.21367	0.012142	0.426477	0.569281	0.110507	0.928569	-0.41013	0.327995	-0.3421	0.277667	0.002321	0.98697	0.01072	0.969142
TMEM47	0.355376	-0.21462	0.162361	0.147055	0.006673	0.112188	0.22756	0.275012	0.360658	-0.40321	0.406553	-0.17695	0.993097	0.002731	0.997208	0.119711
CCM2	0.018659	-0.08306	0.024371	0.31968	0.890426	0.542811	0.857195	0.015349	-0.10448	0.331082	-0.10565	0.203009	0.244774	0.987696	0.244862	0.911991
C22orf13	-0.16434	0.027193	-0.08158	0.131497	0.221863	0.842306	0.546338	0.329545	-0.07218	0.271189	-0.21913	0.091295	0.316785	0.965849	0.074053	0.726883
AMMECR1	-0.02606	0.391019	-0.27672	0.207699	0.847389	0.002885	0.037179	0.121066	0.032925	0.459461	-0.20533	0.32436	0.585983	0.999341	0.088012	0.986069
C18orf21	0.024656	0.259732	-0.19285	0.117881	0.855544	0.053219	0.150635	0.38249	-0.09349	0.410996	-0.25338	0.22334	0.268296	0.997726	0.046531	0.93215
HIST1H4F	-0.08555	0.098733	-0.29647	-0.09887	0.530735	0.473275	0.026506	0.468474	-0.23369	0.531559	-0.11376	0.295867	0.061168	0.999914	0.231094	0.97577
HIST1H4J	-0.03218	-0.20853	0.074184	-0.05416	0.81216	0.122996	0.583399	0.689085	0.010972	-0.33936	0.049622	-0.31064	0.528846	0.01052	0.626921	0.017813
C19orf12	-0.10979	-0.05232	0.103598	0.114037	0.416237	0.701745	0.44315	0.398309	0.174418	-0.03294	0.007714	-0.1369	0.876836	0.413981	0.520054	0.182149
ZMIZ2	-0.13909	-0.15773	0.100281	-0.06563	0.302147	0.245625	0.457961	0.627636	-0.04295	-0.22213	0.087704	-0.12802	0.389678	0.071252	0.71434	0.201002
C11orf68	-0.11628	-0.14884	0.075239	-0.05517	0.389042	0.273594	0.578043	0.683576	0.057065	-0.24733	0.102554	-0.17928	0.645178	0.050708	0.746153	0.119327
TEX101	0.054774	-0.08854	0.084662	-0.12049	0.685712	0.5164	0.531218	0.371981	0.15028	-0.19763	0.099672	-0.20253	0.840587	0.093992	0.742616	0.088532
HIST1H4C	0.059207	-0.09213	-0.35807	0.016675	0.66176	0.499481	0.006242	0.902021	-0.21565	0.328159	-0.3195	0.242054	0.075023	0.987009	0.016203	0.947461
FAM103A1	0.127198	0.23286	-0.27333	0.066766	0.34574	0.084152	0.039667	0.621689	-0.02848	0.352626	-0.32446	0.279341	0.425488	0.991882	0.014835	0.96995
FAM107B	-0.04858	0.142517	0.069159	0.042892	0.719728	0.294728	0.609223	0.751397	0.098202	0.01634	0.019899	-0.0236	0.741921	0.542916	0.551616	0.438141
RP3-402G1	-0.11534	0.035074	0.111415	-0.12439	0.392902	0.797468	0.409315	0.356569	0.061696	-0.16941	0.063407	-0.24365	0.658112	0.130176	0.660487	0.051365
CCDC3	0.339499	-0.14103	0.171298	0.160525	0.009777	0.299843	0.202643	0.232931	0.3332	-0.28747	0.249767	0.056631	0.988175	0.026363	0.951005	0.64573
FAM167A	-0.11249	-0.07595	0.178975	-0.35975	0.404786	0.57798	0.182834	0.005985	-0.04336	-0.06189	-0.2353	-0.25271	0.38739	0.341427	0.059857	0.045093
HIST1H4H	-0.08665	0.174456	-0.35846	0.142512	0.521569	0.19846	0.006181	0.290278	-0.17716	0.446491	-0.36003	0.348286	0.119438	0.999066	0.007564	0.991153
AMAC1L2	-0.12501	-0.0799	0.11523	-0.18399	0.35861	0.56201	0.397733	0.174643	0.26067	-0.2896	0.282862	-0.43232	0.959913	0.025458	0.970133	0.001348
C8orf12	0.083945	-0.16702	0.176817	-0.25099	0.534715	0.218569	0.188254	0.059675	0.205252	-0.46067	0.267939	-0.36164	0.914406	0.000637	0.962422	0.006766
DYNLRB2	-0.09769	-0.09657	0.083621	-0.29944	0.469722	0.478951	0.536296	0.023644	-0.20964	-0.37766	0.06874	-0.23611	0.081011	0.004834	0.673167	0.057081
DYNLRB1	-0.14437	-0.04903	-0.14353	-0.26254	0.283981	0.719728	0.286819	0.048498	-0.24922	-0.19866	0.030771	-0.04405	0.047436	0.092824	0.579515	0.385642
TEKT1	-0.08497	-0.15995	0.028079	-0.1915	0.529733	0.238976	0.835747	0.153587	-0.16515	-0.28296	0.096389	-0.21069	0.136364	0.028362	0.73561	0.079942
HIST1H4B	-0.02296	-0.24865	-0.13381	-0.05769	0.865407	0.064615	0.321036	0.669895	-0.40058	0.129425	-0.37991	0.203077	0.002902	0.80435	0.005025	0.912066
TLN2	0.387337	-0.10016	0.132009	0.019124	0.003185	0.462656	0.332126	0.888743	0.459167	-0.12399	0.165938	-0.03762	0.999336	0.205828	0.86201	0.401995
MS4A8B	-0.11573	-0.02409	-0.03842	-0.15388	0.391281	0.860133	0.776596	0.253105	-0.15666	-0.11184	0.048302	-0.14381	0.149238	0.229664	0.623651	0.170177
PARP9	-0.15902	0.085948	-0.00051	0.579908	0.237385	0.528803	0.997022	2.27E-06	-0.13557	0.286557	-0.08194	0.305058	0.187276	0.971832	0.298473	0.979208
SESN2	0.042084	0.033139	0.114197	-0.13801	0.755934	0.808424	0.397644	0.305943	-0.01084	-0.11771	0.161439	-0.02682	0.471491	0.21796	0.855304	0.429776

HIST1H4E	-0.10319	-0.09729	-0.22086	0.060226	0.444973	0.475633	0.098746	0.656298	-0.20204	0.343086	-0.36754	0.320351	0.089065	0.990208	0.0065	0.985015
HIST1H4L	-0.01718	0.053211	-0.01878	0.000886	0.899987	0.699622	0.890742	0.994829	-0.13208	0.479807	-0.08928	0.467485	0.193554	0.999574	0.282201	0.999398
HIST1H4G	-0.07999	-0.18028	-0.02252	-0.31265	0.557831	0.183662	0.869138	0.018974	-0.16477	-0.30592	-0.04805	-0.07984	0.136916	0.019339	0.376968	0.298953
CRISPLD1	0.218589	-0.31739	0.0776	-0.19297	0.102349	0.017146	0.566136	0.150376	0.247593	-0.33749	0.240481	-0.06765	0.949478	0.011689	0.942074	0.32941
CD99L2	0.13192	-0.09889	0.282756	0.07769	0.327978	0.468377	0.033076	0.565681	0.065311	-0.11228	0.158703	0.095501	0.666849	0.228775	0.851125	0.736091
HSDL1	0.018149	-0.00291	-0.12485	-0.11137	0.893404	0.983038	0.354779	0.409488	-0.09955	-0.00828	-0.07556	-0.02508	0.255186	0.478211	0.310888	0.434304
RPS6KL1	-0.07346	-0.14559	0.150595	-0.36209	0.587079	0.284333	0.263494	0.005645	0.19125	-0.29476	0.227318	-0.37153	0.898529	0.023375	0.933416	0.005507
C12orf32	-0.21657	0.244712	-0.11856	-0.06511	0.108899	0.071761	0.384157	0.633522	-0.3302	0.686444	-0.29932	0.376677	0.012508	1	0.022888	0.995064
TRAPPC9	-0.16353	-0.03002	0.01885	-0.20736	0.224197	0.826165	0.889312	0.121694	-0.27629	-0.09329	-0.17425	-0.28407	0.031534	0.268736	0.126152	0.027857
SLC4A9	0.093115	-0.15657	0.268555	-0.32479	0.490868	0.249161	0.043394	0.013702	0.109001	-0.28829	0.145565	-0.35156	0.764572	0.026013	0.829982	0.008292
CALN1	0.086355	-0.16324	0.404212	-0.20964	0.523008	0.22933	0.001819	0.117548	0.072726	-0.48695	0.283608	-0.23834	0.684498	0.0003	0.970483	0.055347
SH3BGRL2	0.141495	0.136735	-0.13366	-0.13004	0.293768	0.314955	0.321566	0.334965	0.120233	0.035155	0.041603	-0.08875	0.786958	0.591708	0.606937	0.278756
CASP4	-0.25278	0.196805	-0.25082	0.495692	0.057816	0.146003	0.059851	8.83E-05	-0.23198	0.495783	-0.16697	0.415039	0.060415	0.999771	0.136486	0.997935
JAM3	0.418321	-0.31214	0.211938	0.219583	0.001203	0.01918	0.113494	0.100759	0.489044	-0.36459	0.231415	-0.11757	0.999718	0.006367	0.936935	0.218236
FERMT3	-0.04385	-0.42865	0.066719	0.391112	0.746015	0.000981	0.621934	0.002628	-0.23419	-0.13749	0.137107	0.03086	0.060762	0.183883	0.812592	0.579744
TRPT1	-0.15765	-0.04918	0.091834	-0.30857	0.24589	0.721441	0.500856	0.020679	-0.06116	-0.19936	-4.35E-05	-0.38396	0.344906	0.094606	0.499888	0.004609
NRIP2	-0.10659	-0.19046	0.124294	-0.03755	0.430035	0.159722	0.356953	0.781531	0.011684	-0.4208	0.11697	-0.27533	0.530714	0.001796	0.777928	0.032018
ESPN	-0.15907	-0.05312	0.165078	-0.31895	0.237243	0.697389	0.21977	0.015597	0.006527	-0.39157	0.214869	-0.38026	0.517169	0.003561	0.921823	0.004569
CRISPLD2	0.146383	0.015552	0.234835	0.569557	0.281688	0.91027	0.081479	4.62E-06	0.316392	-0.06759	0.231152	0.124796	0.983911	0.327692	0.936713	0.795698
YPEL3	-0.17373	-0.11376	-0.0787	-0.2087	0.200375	0.408249	0.564261	0.122683	-0.04357	-0.20812	0.102775	-0.2286	0.388146	0.085049	0.746612	0.065469
HYAL3	-0.11207	-0.10674	0.147762	-0.15755	0.406542	0.433613	0.272685	0.241805	0.046413	-0.21869	0.166116	-0.16531	0.620308	0.072129	0.862271	0.136123
FAM57B	-0.00334	-0.10951	0.169821	-0.2349	0.980349	0.421732	0.20662	0.078604	0.05648	-0.42498	0.130618	-0.40149	0.645359	0.00162	0.803787	0.002842
INHBE	-0.0764	-0.21739	0.190004	-0.34122	0.572159	0.107527	0.156878	0.00939	-0.01686	-0.42148	0.127777	-0.43238	0.455735	0.001766	0.798555	0.001346
RIOK1	-0.02372	0.303117	-0.40214	0.202618	0.860945	0.023155	0.001929	0.130644	-0.02106	0.515935	-0.20026	0.344179	0.444756	0.999879	0.093586	0.990414
SLC25A18	0.006752	-0.1479	0.242611	-0.13928	0.960245	0.276693	0.069009	0.301472	-0.02494	-0.47435	0.106104	-0.3917	0.435405	0.000498	0.753484	0.003897
ATG10	-0.16989	0.253454	-0.26725	0.148281	0.210652	0.061887	0.046464	0.275427	-0.06464	0.311222	0.017332	0.280969	0.334763	0.982368	0.544985	0.97072
ITCH	-0.02325	0.353112	-0.346	0.172934	0.863703	0.007598	0.00838	0.198298	0.027535	0.3774	-0.23178	0.240791	0.57207	0.99514	0.062757	0.946519
TFAP2D	-0.00822	-0.07501	0.015842	-0.20498	0.951616	0.582687	0.906892	0.12613	0.058551	-0.23942	0.091932	-0.41904	0.650443	0.054516	0.725953	0.001874
MARVELD1	0.389342	-0.02935	0.304628	-0.01742	0.003303	0.833154	0.023739	0.899572	0.45427	-0.20141	0.205603	-0.10617	0.999241	0.089764	0.912282	0.24126
GRWD1	0.070316	-0.08039	0.075836	0.000811	0.606576	0.559592	0.57855	0.995269	-0.23013	0.332303	-0.14102	0.173098	0.061951	0.987974	0.177745	0.875013
ZNF484	0.013118	0.249494	-0.20189	0.249034	0.922846	0.063685	0.132059	0.061754	0.007381	0.356263	-0.11667	0.258775	0.519413	0.992453	0.222668	0.958763
L3MBTL2	-0.22671	-0.258	-0.07905	-0.31419	0.092918	0.057198	0.562522	0.018365	-0.3629	-0.0762	0.094988	0.032518	0.006593	0.307371	0.732594	0.584935
LONP2	0.161972	0.119784	-0.14888	0.079651	0.22869	0.379219	0.269025	0.555883	0.144114	0.309723	-0.08863	0.205886	0.830344	0.981899	0.281317	0.91508
KRTAP4-12	-0.04424	-0.2381	0.177428	-0.38354	0.746097	0.080025	0.190802	0.003524	0.012236	-0.47843	0.162513	-0.52838	0.531791	0.000443	0.854054	9.54E-05
TAS1R3	0.079419	-0.08367	0.370071	-0.08029	0.557039	0.539804	0.004605	0.552707	0.198956	-0.42667	0.207771	-0.46231	0.90494	0.001735	0.912027	0.000694
RBP5	0.108373	-0.17196	0.260063	0.411394	0.4223	0.205057	0.050737	0.001477	0.134548	-0.09437	0.176621	0.220922	0.813669	0.266378	0.877102	0.929951
RBM4B	-0.07982	0.132853	-0.15013	-0.01631	0.555047	0.329017	0.265004	0.90414	0.010002	0.057862	-0.03241	-0.00153	0.526301	0.648754	0.416317	0.495975
FRMD8	-0.11003	0.083881	-0.04454	0.057563	0.415203	0.538795	0.742168	0.670606	-0.15813	0.244902	-0.23242	0.118999	0.146959	0.949537	0.062226	0.78456
ARMC10	0.073844	0.222627	0.033364	-0.03669	0.585133	0.099111	0.805388	0.786447	0.006571	-0.06669	0.062413	-0.07351	0.517284	0.32984	0.658105	0.313668
MAD1L1	0.022917	-0.13594	0.116594	-0.11637	0.865635	0.317787	0.387744	0.388668	0.162637	-0.16014	0.079777	-0.20226	0.859908	0.143866	0.698794	0.088831
KCNK16	-0.03098	-0.03889	0.165927	-0.21487	0.819041	0.775998	0.217376	0.108471	0.106075	-0.36416	0.231191	-0.29388	0.758542	0.006424	0.936746	0.02372
CASP5	-0.10481	-0.16653	-0.07721	-0.03228	0.437792	0.219932	0.568096	0.811606	0.08051	-0.39991	0.164169	-0.3049	0.702596	0.002947	0.859399	0.019683
NME5	-0.09088	-0.06206	-0.01319	-0.16458	0.501357	0.64955	0.922403	0.221185	-0.20644	-0.20192	0.017274	-0.07899	0.08433	0.089203	0.544837	0.300891
OR1A1	-0.01491	-0.16959	0.157492	-0.19123	0.91237	0.211453	0.241994	0.154169	0.033971	-0.2467	0.154505	-0.42497	0.588671	0.049185	0.844562	0.00162
USP26	0.043219	-0.18605	0.109996	-0.27083	0.749563	0.169793	0.415344	0.04158	0.027022	-0.2971	0.127144	-0.20242	0.570741	0.022474	0.797378	0.088655
SYT15	0.204868	-0.15538	0.286193	0.161662	0.126335	0.252824	0.030912	0.229595	0.180223	-0.25155	0.140472	-0.09867	0.884645	0.045859	0.82131	0.257084
FAM62C	0.234388	-0.07928	0.253379	-0.23117	0.079272	0.561344	0.057204	0.083609	0.235172	-0.33469	0.208729	-0.2936	0.942173	0.011497	0.91559	0.023832
SYT16	0.058088	-0.03733	0.179136	-0.31865	0.667779	0.784729	0.182433	0.015699	0.079215	-0.2692	0.099085	-0.21273	0.699618	0.035217	0.741371	0.07789
SETDB2	0.002934	0.219184	-0.14637	0.095679	0.982717	0.104583	0.277267	0.478955	0.036231	0.369741	-0.05184	0.345394	0.594465	0.994281	0.367596	0.990638
ROPN1L	-0.10164	-0.09189	0.043112	-0.13968	0.451844	0.500594	0.750159	0.300054	-0.15913	-0.20238	0.071883	-0.15473	0.145408	0.08869	0.680553	0.152274

ANGPTL6	-0.07787	-0.13572	0.161354	-0.16655	0.56477	0.318578	0.230494	0.21563	0.0403	-0.41031	0.19968	-0.4077	0.604848	0.002312	0.90576	0.002459
KLF16	-0.02029	-0.04418	0.104509	-0.12744	0.880906	0.746472	0.439127	0.344825	0.058125	-0.26485	0.136522	-0.20225	0.6494	0.037639	0.814404	0.088835
TMTC1	0.356131	-0.06205	0.099937	0.139729	0.006549	0.64962	0.459515	0.299896	0.363844	-0.05217	0.098743	0.040029	0.993534	0.365294	0.740644	0.604158
ATAD3B	-0.10718	-0.02765	0.0572	-0.01982	0.427454	0.839678	0.672565	0.883643	-0.15225	0.138453	-0.16884	0.048357	0.159035	0.817801	0.136622	0.623789
OR1D5	-0.07344	-0.2	0.103828	-0.15482	0.587185	0.139433	0.442132	0.250169	0.191506	-0.25946	0.141583	-0.24222	0.898836	0.040816	0.823225	0.052417
TAF3	0.164761	-0.10785	0.062738	0.066249	0.220671	0.428857	0.642917	0.624396	0.217334	-0.10082	0.328025	-0.07476	0.926592	0.252483	0.986089	0.310736
RSPH3	-0.14304	-0.10716	-0.00815	-0.28337	0.288487	0.431801	0.952041	0.032677	-0.25373	-0.19496	-0.00793	-0.16677	0.044426	0.097074	0.479376	0.133986
TMEM120A	-0.03097	-0.10328	0.07656	-0.12042	0.819097	0.448755	0.571365	0.372271	-0.05528	-0.0377	-0.10504	-0.19875	0.357585	0.401781	0.246142	0.092733
TTY5	0.141507	-0.06316	0.318066	-0.1654	0.293726	0.643749	0.015904	0.218871	0.233905	-0.30958	0.305259	-0.34155	0.941156	0.018146	0.979279	0.010088
TTY11	0.008184	-0.02822	0.168119	-0.29251	0.951823	0.836423	0.211275	0.027245	0.035949	-0.17725	0.148079	-0.13269	0.59268	0.122049	0.831289	0.192441
TTY12	-0.00312	-0.32859	0.070069	-0.33801	0.981784	0.014313	0.607846	0.010839	0.123554	-0.45028	0.234076	-0.31221	0.790629	0.000956	0.936907	0.018402
TTY13	-0.08764	-0.09834	0.102198	-0.14353	0.520709	0.475044	0.453559	0.291271	0.129241	-0.25295	0.187875	-0.15957	0.80401	0.044938	0.891749	0.144734
TTY14	-0.00452	-0.11317	0.227725	-0.15401	0.973398	0.40628	0.088445	0.252698	0.196464	-0.53849	0.233573	-0.34016	0.904667	5.66E-05	0.938731	0.01036
OR1E1	0.090018	-0.24241	0.245557	-0.14151	0.505463	0.071848	0.0656	0.293716	0.129705	-0.37043	0.070202	-0.36775	0.804866	0.005637	0.676611	0.005963
RAB34	0.109954	-0.09224	-0.07785	0.16387	0.415522	0.498957	0.564857	0.223211	0.065117	0.218165	-0.06632	0.20884	0.666383	0.92738	0.332556	0.918168
HMCN1	0.260714	-0.01158	0.063957	0.245874	0.052294	0.933133	0.639573	0.067759	0.119368	0.305769	0.153228	0.473827	0.785277	0.980611	0.84253	0.99956
GPR61	-0.09802	-0.23187	0.180978	-0.07735	0.468195	0.085509	0.177904	0.567378	0.072455	-0.43739	0.207932	-0.3553	0.683861	0.001184	0.914755	0.007695
TBC1D10A	-0.04725	0.094343	-0.05729	0.109433	0.727088	0.489176	0.672061	0.417749	0.11291	0.292055	-0.02244	0.110586	0.772502	0.975551	0.441829	0.767805
BCO2	-0.20839	-0.02797	-0.08477	-0.27322	0.119806	0.837873	0.530704	0.039749	-0.27348	-0.17326	-0.02782	-0.17383	0.032954	0.12477	0.428024	0.123968
MRO	0.114884	-0.10405	0.147469	-0.26213	0.399162	0.449679	0.278093	0.050984	0.06188	-0.42305	0.316515	-0.3447	0.658558	0.001699	0.982925	0.009491
TM2D2	0.017475	0.250938	-0.22431	0.327094	0.897341	0.062117	0.093453	0.013009	0.039617	0.498428	-0.23598	0.389675	0.603109	0.999788	0.059313	0.996285
USHBP1	0.125809	-0.19121	0.344679	-0.21168	0.351075	0.158041	0.008649	0.113935	0.236306	-0.3001	0.301681	-0.2757	0.943071	0.021364	0.977994	0.031828
CDCA7	-0.11375	0.172521	-0.25977	0.093954	0.399492	0.203562	0.051009	0.486955	-0.24677	0.621957	-0.22562	0.377629	0.049136	0.999998	0.068087	0.995163
OR1E2	0.025099	0.009496	0.090198	-0.21726	0.854312	0.945143	0.508543	0.107734	0.141249	-0.40404	0.073751	-0.23765	0.825451	0.002678	0.684908	0.055882
MIXL1	-0.00314	-0.1042	0.275982	-0.19817	0.981508	0.444712	0.037709	0.139491	0.036733	-0.36198	0.081064	-0.28817	0.59575	0.006718	0.701725	0.026062
TSPAN10	0.062282	-0.18753	0.340541	-0.10311	0.645338	0.166365	0.009541	0.445316	0.249739	-0.3792	0.328141	-0.33817	0.952919	0.004676	0.986119	0.010763
SLC25A2	-0.05592	0.018121	0.117308	-0.3253	0.679469	0.894543	0.384823	0.013546	0.054308	-0.26344	0.205889	-0.22162	0.640002	0.038448	0.912589	0.069409
PRSS27	0.013224	-0.00438	0.171555	-0.08774	0.922228	0.974414	0.201956	0.516352	0.145418	-0.15709	0.105563	-0.20258	0.832544	0.148565	0.754948	0.088481
TLL2	0.012295	-0.07423	0.16783	-0.20387	0.927674	0.586636	0.21207	0.128232	0.183531	-0.20871	0.073485	-0.19192	0.888941	0.081968	0.684289	0.100664
FGFBP2	-0.10548	-0.21278	0.041233	-0.14944	0.439125	0.118826	0.762859	0.271637	0.171155	-0.5108	0.059483	-0.43519	0.869526	0.000168	0.649343	0.001406
WDR87	0.000929	-0.08018	0.165469	-0.27019	0.994527	0.556921	0.218664	0.042085	0.14649	-0.53348	0.218799	-0.36693	0.834339	6.74E-05	0.925631	0.006065
SPATA9	0.150017	-0.20578	0.156396	-0.24225	0.265353	0.128132	0.245329	0.06943	0.111137	-0.35132	0.070207	-0.25517	0.768924	0.008332	0.676623	0.043498
SNX25	0.029827	0.001498	0.030929	0.093864	0.825677	0.991259	0.819341	0.487374	0.037645	-0.14686	0.042724	-0.02976	0.598081	0.165049	0.60975	0.422177
KCTD10	0.26159	0.123448	0.009414	0.255006	0.049347	0.364705	0.944589	0.055572	0.343407	-0.02934	0.190968	0.028734	0.990269	0.423254	0.895552	0.575174
SPATA16	-0.00098	-0.15789	0.064797	-0.31745	0.994217	0.245167	0.632032	0.01612	-0.01075	-0.33293	0.056767	-0.31463	0.471734	0.011886	0.644452	0.016601
TTC29	-0.08502	-0.14347	0.029713	-0.2314	0.529485	0.29147	0.826336	0.083293	-0.19832	-0.26891	0.039993	-0.17137	0.093211	0.035372	0.602889	0.127402
KRTAP1-5	-0.01502	-0.04006	0.117216	-0.16416	0.911703	0.769422	0.385199	0.222379	0.13536	-0.06006	0.23168	-0.0545	0.812343	0.347559	0.934888	0.361084
KRTAP3-1	0.018864	-0.19937	0.23085	-0.31103	0.890244	0.144474	0.086939	0.019637	0.034142	-0.49329	0.147045	-0.42218	0.589109	0.000248	0.832453	0.001736
KRTAP3-2	0.145746	-0.08391	0.22138	-0.20839	0.279354	0.538642	0.097933	0.11981	0.160421	-0.45704	0.220283	-0.36262	0.856563	0.000704	0.927034	0.006631
CASP6	-0.07979	0.408503	-0.30194	0.154098	0.555171	0.001774	0.022451	0.252419	-0.13929	0.62892	-0.25542	0.409845	0.177937	0.999999	0.04519	0.997663
OR1G1	0.020175	-0.13397	0.123085	-0.22354	0.881584	0.324931	0.361687	0.094611	0.047293	-0.22264	0.218882	-0.18056	0.622519	0.068477	0.92571	0.114912
KRTAP9-3	0.099793	-0.08695	0.106876	-0.2196	0.460164	0.523966	0.428774	0.100729	-0.03238	-0.36419	0.096611	-0.28965	0.415429	0.00642	0.736087	0.025439
KRTAP17-1	-0.06655	-0.10212	0.1902	-0.13929	0.622838	0.453922	0.156443	0.301433	0.181726	-0.36844	0.217917	-0.39593	0.886611	0.005877	0.924789	0.003227
GSG2	-0.04812	0.002698	0.027467	-0.17864	0.722252	0.984253	0.839281	0.183661	-0.12425	-0.00045	0.040181	-0.16724	0.205331	0.498805	0.603363	0.133309
OR3A3	0.097982	-0.20499	0.138452	-0.30426	0.472496	0.133274	0.308857	0.022614	0.108824	-0.27391	0.157723	-0.21339	0.76421	0.032734	0.849609	0.077237
STARD3NL	0.02419	-0.03517	-0.16116	0.292701	0.858246	0.796949	0.231053	0.027138	-0.11391	0.358018	-0.09738	0.373005	0.225494	0.992716	0.262258	0.994662
STK40	-0.11203	-0.21956	-0.01896	-0.2076	0.406714	0.103967	0.888649	0.121245	-0.27391	-0.11767	-0.08861	-0.18481	0.032735	0.218039	0.281357	0.109428
C1orf124	-0.0212	0.125451	-0.25335	0.112569	0.875608	0.356913	0.057234	0.404447	-0.18937	0.312032	-0.17342	0.271895	0.103745	0.982618	0.127293	0.966221
HDAC10	-0.14408	-0.07463	0.09107	-0.08429	0.284959	0.584637	0.500483	0.533023	-0.05601	-0.10776	0.229469	-0.24207	0.358996	0.243145	0.930593	0.056695
TMEM133	0.021488	0.149593	-0.14092	-0.22302	0.873941	0.271154	0.295761	0.095402	-0.08479	0.082827	-0.0159	0.038445	0.287645	0.707894	0.458726	0.600123

RASSF4	-0.02495	-0.22965	0.204065	0.570791	0.853846	0.088639	0.127859	3.55E-06	0.325269	-0.3142	0.291324	-0.29642	0.986299	0.01673	0.973908	0.022736
C10orf11	0.242896	-0.28543	0.277894	0.071113	0.068672	0.032975	0.03635	0.599121	0.062009	-0.00965	0.047916	-0.05974	0.657135	0.474908	0.621287	0.348339
EIF2A	0.050239	0.288269	-0.24397	0.097451	0.710544	0.0312	0.067425	0.470814	0.121945	0.41745	-0.08569	0.341265	0.790261	0.998052	0.287838	0.989857
PIP5K1A	-0.11085	0.200894	-0.1851	0.21391	0.411696	0.137642	0.168067	0.110096	-0.10931	0.271505	-0.29659	0.300436	0.234789	0.966016	0.023944	0.978756
TATDN1	-0.08566	0.260798	-0.40343	0.172044	0.52639	0.052215	0.00186	0.200654	0.026676	0.21214	-0.17354	0.291095	0.569845	0.92152	0.127134	0.97516
TM2D1	0.119653	0.095241	-0.02187	0.071453	0.375328	0.48503	0.871747	0.597371	-0.08134	0.214143	-0.15543	-0.00067	0.295493	0.923506	0.153976	0.498249
TSSK1B	-0.0507	-0.12473	0.093006	-0.13813	0.707982	0.359687	0.49138	0.305514	0.18366	-0.19641	0.186691	-0.29616	0.889106	0.095396	0.890267	0.022834
IMMP2L	-0.11797	0.09037	-0.32176	0.211578	0.382128	0.507732	0.014659	0.114122	0.299356	0.236906	0.064068	0.03305	0.978363	0.943542	0.662069	0.586304
PIP5K1B	0.165214	-0.11505	0.054911	-0.24031	0.219385	0.398475	0.684967	0.071769	0.144572	-0.26395	0.089253	-0.28971	0.831119	0.038155	0.720069	0.025413
FCAMR	-0.03985	-0.15523	0.205113	-0.12935	0.768512	0.2533	0.125871	0.33758	0.049235	-0.4188	0.206396	-0.15476	0.627385	0.001886	0.91313	0.152215
FKSG83	0.09395	-0.07915	0.245225	-0.25813	0.490994	0.565695	0.068511	0.054754	0.302912	-0.33339	0.235939	-0.36998	0.979635	0.011783	0.940657	0.005691
NACAP1	0.051509	-0.04782	0.15854	-0.16804	0.706165	0.728837	0.243191	0.215737	0.245994	-0.26095	0.161199	-0.23793	0.950316	0.039919	0.854941	0.055666
SLC4A11	-0.16453	0.22875	-0.17047	-0.14474	0.221326	0.089931	0.204872	0.28274	-0.06849	0.209087	-0.21268	-0.00406	0.327433	0.915963	0.082861	0.489454
PIP4K2B	0.149816	-0.18569	0.159109	0.034818	0.266003	0.170623	0.237133	0.797085	0.091557	-0.22248	0.004845	-0.07088	0.725133	0.070925	0.51245	0.321786
PLA2G6	0.026395	-0.24883	0.207007	-0.27244	0.845476	0.064418	0.122338	0.040338	-0.07527	-0.26576	-0.04617	-0.13524	0.311577	0.038824	0.383006	0.187872
IFI27L2	0.095923	-0.20176	0.169399	0.152123	0.477828	0.135924	0.207767	0.258623	0.03279	0.011918	0.051001	0.092385	0.585634	0.531328	0.630324	0.729285
TSSK6	-0.11132	-0.04965	0.067697	-0.1706	0.409732	0.716298	0.616827	0.204524	-0.19813	-0.11605	0.005923	-0.21715	0.093433	0.22123	0.515401	0.073582
SPNS1	0.082254	0.014174	0.132181	0.041146	0.546725	0.918195	0.331492	0.763345	-0.11375	0.162256	-0.02184	-0.00145	0.225816	0.859337	0.443371	0.496175
ITFG3	0.020135	0.04967	0.065644	-0.10188	0.881822	0.716204	0.627573	0.450804	0.127083	0.232572	-0.01492	0.075152	0.8	0.940072	0.461264	0.690186
CCDC8	-0.00269	-0.37557	0.201479	-0.13092	0.984163	0.00434	0.132866	0.331678	0.132593	-0.51489	0.191641	-0.3343	0.810143	0.000126	0.896367	0.011583
NCALD	0.033588	-0.26179	0.130413	-0.27846	0.804106	0.051293	0.333584	0.035954	-0.09109	-0.41869	0.103974	-0.3062	0.27357	0.00189	0.751652	0.019244
FAM172A	-0.05908	0.273704	-0.19075	0.049158	0.662459	0.041234	0.155216	0.716506	-0.0373	0.313279	-0.06859	0.261079	0.402813	0.982996	0.327185	0.960159
PLA2G10	-0.20607	0.18369	-0.13145	-0.19398	0.124071	0.175363	0.329728	0.148212	-0.20292	-0.02956	-0.01396	-0.06991	0.088105	0.422683	0.46373	0.32215
BRIP1	-0.03586	0.249463	-0.05695	0.051486	0.79304	0.06625	0.676751	0.706287	-0.19271	0.534904	-0.19652	0.28347	0.099721	0.999936	0.097863	0.971872
CTTNBP2	0.07288	0.242392	-0.06132	-0.13158	0.590051	0.071871	0.650432	0.329243	0.310832	-0.03038	0.055755	-0.09153	0.982247	0.420565	0.641986	0.272604
REG4	0.032685	0.008934	0.313641	-0.18723	0.809274	0.947897	0.017513	0.163125	0.194861	-0.18303	0.25756	-0.28997	0.902809	0.111702	0.956191	0.025304
KREMEN1	-0.09402	0.134638	-0.22307	-0.09315	0.490686	0.327068	0.098423	0.494694	-0.24761	0.599912	-0.20835	0.356041	0.04855	0.999995	0.084805	0.992419
CASP7	-0.32471	0.072225	-0.10584	0.124531	0.01462	0.600268	0.437535	0.360479	-0.23061	0.262822	-0.10719	0.290649	0.061548	0.961189	0.241706	0.974976
TMPRSS13	-0.04977	0.272558	-0.10593	-0.20579	0.71315	0.042124	0.432905	0.124597	-0.32103	0.244473	-0.22216	-0.04072	0.014802	0.949228	0.071219	0.394088
B3GNT5	-0.12622	0.177748	-0.2236	-0.14262	0.349477	0.189991	0.094527	0.289896	-0.26199	0.211187	-0.12923	0.179164	0.039297	0.920563	0.198764	0.883248
SLC25A11	-0.02889	0.135951	-0.19516	0.166666	0.831078	0.317763	0.14572	0.215304	-0.19864	0.62602	-0.35521	0.380353	0.092846	0.999998	0.008324	0.99544
SOX14	-0.03384	0.095141	0.223641	-0.15553	0.802689	0.485491	0.094465	0.247971	-0.10786	-0.18008	0.015161	-0.2438	0.237762	0.115537	0.539371	0.05126
OBSCN	0.054965	-0.06563	0.083896	-0.02538	0.684674	0.630809	0.534955	0.85132	0.044072	0.033716	-0.01791	0.013387	0.614408	0.588015	0.453509	0.535182
EMILIN2	-0.04092	-0.32591	0.164234	0.086298	0.7625	0.014239	0.222169	0.523282	-0.00287	-0.42052	0.157268	-0.16948	0.492442	0.001808	0.848902	0.130088
SPARCL1	0.297584	-0.16913	0.301792	0.261971	0.027349	0.221486	0.025141	0.053347	0.385999	-0.3834	0.33196	-0.09162	0.995969	0.004268	0.987053	0.272396
SPOP	0.120569	0.043302	-0.10152	0.211447	0.371657	0.751333	0.452384	0.114352	0.005611	0.283299	0.016123	0.330753	0.514592	0.970338	0.541366	0.986763
KATNAL1	0.048211	-0.18628	-0.05907	-0.0625	0.721743	0.16925	0.662518	0.64419	0.083547	-0.33647	0.18866	-0.1481	0.709531	0.011116	0.892723	0.162987
MND1	0.117544	0.220412	-0.06273	-0.17166	0.388262	0.105872	0.645998	0.205871	-0.04042	0.306164	0.038558	0.136867	0.396044	0.979594	0.598123	0.815014
WDR54	-0.11476	-0.20986	0.006143	-0.12047	0.395301	0.12057	0.963828	0.372062	-0.22018	-0.18139	-0.01203	-0.11085	0.070738	0.113829	0.468743	0.231658
GPR98	0.003712	-0.07873	0.131736	-0.14694	0.978138	0.56411	0.328659	0.275378	-0.15489	-0.2334	0.001851	-0.18449	0.152024	0.059249	0.504814	0.109829
SRPX	0.294153	-0.22898	0.178939	0.308222	0.026351	0.089598	0.182922	0.019671	0.356433	-0.31795	0.306803	-0.08193	0.992479	0.015647	0.979814	0.294152
C7orf64	0.02112	0.141438	-0.20161	0.246116	0.87608	0.298437	0.132605	0.064969	-0.0346	0.433217	-0.13095	0.260612	0.41074	0.998524	0.19843	0.958101
MAGT1	0.069868	0.345223	-0.17238	0.276669	0.60555	0.009166	0.19976	0.037216	0.064348	0.504816	-0.11296	0.441653	0.66453	0.999827	0.230012	0.998939
DTNBP1	0.027476	0.03857	-0.03354	0.310132	0.839228	0.777768	0.80439	0.018886	0.041512	0.021418	0.24866	-0.06183	0.606708	0.555532	0.948197	0.343285
KIRREL2	0.1238	-0.0588	0.260326	-0.3045	0.358882	0.666871	0.050496	0.021281	0.191892	-0.30747	0.338206	-0.25332	0.8993	0.018827	0.988467	0.04469
HDHD2	-0.05186	0.181869	-0.32818	-0.02008	0.70426	0.183878	0.013539	0.883219	-0.17251	0.216143	-0.28977	0.159962	0.128569	0.923073	0.0282	0.853058
TMEM222	-0.03985	0.000798	0.109333	0.090042	0.77061	0.995385	0.422477	0.509283	-0.15186	0.123827	-0.16585	0.054946	0.156846	0.793859	0.138112	0.641579
C1orf49	0.048615	-0.1871	0.18292	-0.28006	0.721988	0.17138	0.177212	0.03657	-0.00851	-0.25818	0.101793	-0.18514	0.47761	0.041606	0.747091	0.109014
FAM160A2	-0.09873	-0.13814	0.169061	0.056155	0.469111	0.314537	0.212914	0.681017	-0.11848	-0.23548	-0.14023	-0.16249	0.219115	0.059713	0.181974	0.14311
SLC10A7	-0.07449	0.21397	-0.08233	0.093067	0.581866	0.11331	0.542609	0.491091	-0.01556	0.280208	-0.00745	0.181575	0.459115	0.970362	0.480619	0.886415

PLEKHN1	0.048842	0.044174	0.107646	-0.23076	0.720738	0.74879	0.429716	0.087072	0.012171	0.04995	0.069498	-0.00428	0.531992	0.629173	0.674955	0.488729
TAGLN2	-0.15559	0.033891	-0.28033	0.19411	0.247795	0.804159	0.034678	0.147943	-0.32977	0.487617	-0.27098	0.395578	0.012608	0.999706	0.035891	0.996746
FAM186B	0.019288	-0.11075	0.157433	-0.24928	0.886758	0.416434	0.242174	0.06149	-0.00104	-0.1977	0.108882	-0.17862	0.497256	0.093919	0.761758	0.117481
ARMC2	-0.06266	-0.21624	0.060931	-0.21874	0.64331	0.109451	0.652532	0.102107	-0.15502	-0.33845	0.095159	-0.24045	0.151816	0.010706	0.732962	0.053735
HORMAD1	-0.31158	0.394125	-0.37544	-0.02448	0.018308	0.002651	0.004004	0.85658	-0.00358	0.373313	-0.09754	0.201672	0.49057	0.994696	0.261927	0.910529
MYCBPAP	-0.207	-0.26342	0.047422	-0.33912	0.12236	0.049811	0.726118	0.009865	-0.26384	-0.36911	0.011557	-0.26871	0.038218	0.005795	0.530031	0.035482
QRICH2	0.080512	-0.15177	0.226269	-0.30991	0.551608	0.264167	0.090555	0.018976	0.195946	-0.03083	0.060184	0.05808	0.904069	0.419401	0.652739	0.649288
FSCB	0.016885	-0.18485	0.160034	-0.33099	0.900787	0.1726	0.234383	0.011907	0.088411	-0.45167	0.1663	-0.4312	0.720483	0.000814	0.862542	0.001387
TKTL2	0.219684	-0.14229	0.37317	-0.30136	0.100599	0.295516	0.00425	0.022722	0.113432	-0.42736	0.260159	-0.29895	0.77355	0.001527	0.957822	0.021784
C3orf20	0.010972	-0.02625	0.105936	-0.18706	0.93544	0.847732	0.43287	0.163525	0.099938	-0.29217	0.05685	-0.37615	0.745635	0.024404	0.644656	0.004993
KBTBD7	0.040926	0.120139	-0.26006	0.07795	0.762449	0.377796	0.050737	0.564377	-0.22518	0.412813	-0.05022	0.233487	0.066214	0.997822	0.371609	0.940818
ANKRD27	0.018631	0.150988	-0.19174	-0.15489	0.890593	0.26666	0.153045	0.249971	-0.06433	0.386093	-0.18524	0.042996	0.3373	0.995598	0.114324	0.610431
ULK1	0.123775	-0.05148	0.167542	-0.08132	0.358977	0.706318	0.212868	0.547584	0.200705	-0.07042	0.078643	-0.25946	0.90946	0.320954	0.6962	0.040821
C16orf48	-0.23846	-0.30912	0.071641	-0.3863	0.07405	0.02044	0.596406	0.002997	-0.21566	-0.3887	0.026796	-0.34999	0.075018	0.003797	0.569354	0.008555
CCDC55	0.00105	0.197287	-0.15161	0.025201	0.993813	0.144998	0.260243	0.852385	0.201419	-0.0396	0.090444	-0.04651	0.907709	0.398105	0.720345	0.38081
ZRANB3	-0.00523	0.11074	-0.2234	0.01274	0.969177	0.416498	0.094837	0.925061	0.045922	0.102926	-0.2916	0.053285	0.619073	0.751962	0.025978	0.637468
RAB6C	0.206682	-0.16522	0.209252	-0.23789	0.126429	0.22802	0.121678	0.077477	0.107588	-0.21067	0.152582	-0.03181	0.761671	0.079965	0.841495	0.416884
FBXO30	0.148171	0.104931	-0.10281	0.245798	0.271347	0.441507	0.446626	0.065328	0.38296	0.11226	-0.02071	0.034407	0.995691	0.771194	0.446296	0.58979
UXT	-0.01386	0.151634	-0.2021	0.076971	0.918494	0.264593	0.131654	0.569297	-0.14677	0.412851	-0.32652	0.310122	0.165195	0.997824	0.014295	0.982025
CASP8	-0.3122	0.032279	-0.19954	0.316894	0.018066	0.813301	0.136713	0.016317	-0.30033	0.219142	-0.07746	0.311585	0.021282	0.928299	0.306507	0.98248
ARL6	-0.05097	-0.03306	-0.03451	-0.08694	0.706522	0.808844	0.798852	0.5202	-0.23544	-0.10628	-0.02352	0.007101	0.057613	0.241036	0.439055	0.518678
USP44	0.137808	-0.16278	0.092291	-0.16104	0.306657	0.230657	0.494731	0.231403	0.3505	-0.42587	0.195179	-0.32284	0.991532	0.001585	0.900578	0.014322
SLC41A2	0.02905	-0.02984	0.137417	0.205976	0.83015	0.827206	0.308042	0.124252	0.052347	-0.12567	0.074401	0.035952	0.635141	0.20266	0.686419	0.593751
C4orf17	-0.14088	-0.05605	0.03304	-0.28672	0.2959	0.681609	0.807238	0.030593	-0.07065	-0.32481	0.126357	-0.27398	0.320401	0.013816	0.795909	0.032702
PCBD2	-0.13031	0.308021	-0.24536	-0.07849	0.333966	0.020916	0.065825	0.561658	0.042343	0.362735	-0.12445	0.214361	0.610033	0.993385	0.207676	0.92372
PRAM1	-0.09472	-0.15885	0.136376	-0.15027	0.48339	0.242268	0.311758	0.264533	-0.03444	-0.44472	0.128775	-0.30885	0.411157	0.001104	0.7976	0.019494
ZIC4	-0.02218	-0.0009	0.178645	-0.14966	0.869909	0.994763	0.183655	0.266492	0.091193	-0.30874	0.014641	-0.38171	0.726658	0.018413	0.538024	0.004427
PCGF6	0.023991	-0.13462	0.237051	0.208036	0.8594	0.322562	0.075824	0.12045	0.036775	-0.19302	0.116636	-0.16214	0.595857	0.099363	0.777272	0.140831
QRFR	0.140521	-0.26376	0.139094	-0.26772	0.301613	0.051683	0.306598	0.046063	-0.1275	-0.43685	0.125794	-0.26789	0.199224	0.001201	0.794855	0.035935
EEA1	0.054407	0.334269	-0.2865	-0.03663	0.687711	0.011805	0.030724	0.786778	0.158079	0.359609	-0.03205	0.196683	0.852969	0.992948	0.417235	0.904919
BCAR3	-0.18872	-0.2671	-0.08397	-0.20221	0.159748	0.046587	0.534612	0.131439	-0.21499	-0.03292	-0.18306	-0.12743	0.078062	0.415009	0.117137	0.202081
ZNF394	-0.14666	0.236507	-0.27333	0.302933	0.276328	0.079272	0.039665	0.02199	0.0194	0.363937	-0.28187	0.177615	0.550912	0.993547	0.030336	0.881181
LRRIQ1	-0.09066	-0.11953	0.045509	-0.17316	0.502426	0.380234	0.73676	0.197702	-0.06355	-0.28273	0.127897	-0.1882	0.337401	0.028466	0.798778	0.105194
ATRIP	-0.11834	0.386148	-0.11892	-0.1388	0.380623	0.003288	0.378283	0.303147	0.006466	0.268468	-0.07617	-0.04704	0.517009	0.964385	0.309488	0.378114
RUNDC2A	-0.07785	0.051005	0.043004	0.122439	0.564874	0.708912	0.750766	0.364229	0.053977	-0.10443	0.110785	-0.10275	0.639183	0.244888	0.765617	0.248398
WDR75	-0.01411	0.31704	-0.22097	0.307804	0.917021	0.017276	0.09857	0.019846	0.164091	0.531053	-0.07774	0.432101	0.862077	0.999927	0.305868	0.998645
ACAD11	0.048572	0.006501	-0.00134	0.078409	0.719746	0.962073	0.992125	0.562082	0.059007	-0.15957	0.081514	-0.04269	0.651559	0.144736	0.702746	0.389085
CEP78	-0.01326	-0.02764	-0.23676	0.061859	0.922024	0.839746	0.076197	0.647588	-0.22007	0.351424	-0.14337	0.263074	0.070839	0.991686	0.173722	0.961337
USP42	-0.14064	0.16037	-0.16974	0.162957	0.301207	0.237725	0.211057	0.23014	0.102543	0.065072	0.05607	0.154477	0.748665	0.664467	0.641139	0.844518
ZNRF3	0.252434	-0.06305	0.09647	-0.02555	0.058169	0.644344	0.475311	0.850381	0.11027	0.142376	-0.0858	-0.06769	0.767162	0.827387	0.287596	0.327453
TOMM40L	-0.101	0.003518	0.060998	-0.0024	0.454728	0.979468	0.652173	0.985892	-0.10381	0.116028	0.073893	0.216568	0.248693	0.776075	0.68321	0.923487
UTP15	-0.00865	0.324742	-0.25707	0.275764	0.94909	0.014609	0.053556	0.037867	0.024566	0.468342	-0.13078	0.42502	0.564369	0.999486	0.19592	0.998382
SLC7A6OS	-0.19041	0.202127	-0.02101	0.087449	0.155984	0.135194	0.876721	0.517735	0.102397	0.176467	-0.11081	0.0141	0.750848	0.879633	0.234323	0.537051
FAM161A	-0.12458	-0.02824	-0.14762	-0.30629	0.355823	0.836296	0.273153	0.020494	-0.25408	-0.19559	0.05506	-0.17625	0.044195	0.096343	0.64029	0.120667
FAM176A	0.036096	-0.2452	0.117191	-0.04811	0.7898	0.068541	0.385302	0.722277	0.08544	-0.14643	-0.00855	-0.04342	0.713817	0.165764	0.477766	0.387235
FAM175A	-0.09237	0.120515	-0.15725	-0.06787	0.49438	0.376296	0.242735	0.615944	-0.09727	-0.11002	0.059948	-0.01511	0.260079	0.233356	0.652167	0.460299
SYDE2	0.246693	-0.12885	0.124169	-0.04859	0.064324	0.343912	0.357439	0.71963	0.30028	-0.24469	0.213644	-0.11628	0.9787	0.050616	0.920607	0.220777
ZNF644	0.020653	0.198349	-0.20417	0.186857	0.8788	0.142803	0.127654	0.16399	0.188382	0.331323	-0.00893	0.25985	0.895037	0.987752	0.476779	0.959419
MYST1	0.187214	-0.13957	0.159906	0.097959	0.163171	0.304942	0.234762	0.468492	0.121332	-0.04494	-0.1059	-0.04164	0.789082	0.383409	0.244363	0.391756
PPP1R1B	0.161749	-0.35435	0.284285	-0.10215	0.229341	0.007374	0.032098	0.449603	0.324349	-0.52771	0.303677	-0.34038	0.986066	8.20E-05	0.978719	0.010317

RNASEH2C	0.142098	-0.22931	0.33386	0.010577	0.291694	0.089126	0.011148	0.93776	0.146062	-0.24259	0.01169	-0.1538	0.830814	0.054178	0.530016	0.156561
BXDC1	-0.01094	0.365636	-0.30213	0.069902	0.935652	0.005586	0.02236	0.605372	-0.07034	0.405929	-0.127	0.404509	0.321127	0.997437	0.202887	0.99735
ARID5B	0.007423	0.186401	-0.13913	0.341591	0.956295	0.168969	0.301992	0.009307	0.135615	0.472619	-0.06089	0.419427	0.815576	0.999544	0.345567	0.998143
ANXA9	-0.14125	0.028037	-0.18707	-0.17753	0.294623	0.83748	0.163508	0.186461	-0.19916	0.123338	-0.18532	0.018624	0.092261	0.792927	0.111471	0.548887
KIAA1109	0.146646	0.135129	-0.08237	0.146511	0.276365	0.320724	0.542453	0.276812	0.325935	0.074144	0.088497	0.085235	0.986465	0.68783	0.718398	0.713354
ASCC2	-0.2565	0.427014	-0.26357	-0.06463	0.056365	0.001149	0.049678	0.636045	-0.21683	0.413753	-0.17109	0.239632	0.076261	0.997638	0.133406	0.943569
NLRC5	-0.00935	-0.20243	0.262738	0.5537	0.944939	0.134606	0.048322	7.91E-06	0.020303	-0.01094	0.111411	0.249913	0.55327	0.47125	0.76688	0.953037
C19orf44	-0.19355	-0.1582	0.00899	-0.3831	0.149131	0.244218	0.94708	0.003268	-0.152	-0.42302	0.098877	-0.32555	0.156627	0.0017	0.740928	0.01363
ANTXR1	0.280383	-0.16394	0.063472	0.312392	0.034642	0.227306	0.639026	0.017991	0.17215	0.159651	0.176368	0.36604	0.873691	0.855387	0.876758	0.993821
STX7	0.045719	-0.02459	-0.0965	0.074431	0.735589	0.857238	0.475195	0.582143	-0.08563	0.070217	0.107232	0.023654	0.285745	0.678568	0.758384	0.561998
LOXL4	-0.01042	0.12866	-0.02435	0.113204	0.938695	0.344648	0.857321	0.401784	-0.0772	0.495798	-0.0775	0.503675	0.305034	0.999771	0.306413	0.99982
POLR1B	-0.05121	0.371026	-0.38959	0.251087	0.705218	0.004876	0.00274	0.059569	-0.15203	0.617906	-0.27997	0.494307	0.156579	0.999998	0.031253	0.99976
ELMOD3	-0.09036	0.028257	-0.05758	-0.05902	0.507772	0.837741	0.673353	0.665673	0.070861	-0.02263	0.07492	-0.05813	0.680096	0.440674	0.687623	0.3506
SLA2	-0.0774	-0.17933	0.09759	0.439421	0.567122	0.18602	0.470178	0.000627	-0.09206	-0.21568	-0.07533	-0.05918	0.27143	0.074993	0.311418	0.348018
MYH16	-0.02542	-0.11453	0.124345	-0.28845	0.852459	0.405049	0.361203	0.031086	-0.00191	-0.28987	0.158337	-0.23016	0.494974	0.025346	0.85056	0.061929
MFSD7	0.027172	-0.25744	0.216663	-0.06644	0.840983	0.055431	0.105485	0.62341	0.191167	-0.2794	0.18254	-0.22087	0.898428	0.030024	0.884964	0.070101
CMAH	-0.20069	0.020418	-0.09194	-0.02524	0.134418	0.881266	0.496371	0.852177	-0.12042	0.132669	0.000866	0.072308	0.212684	0.810281	0.502253	0.683514
CHD6	0.025228	0.208494	-0.06062	-0.1277	0.852228	0.123065	0.654199	0.343825	-0.16171	0.218832	-0.03009	0.061361	0.141484	0.928009	0.422225	0.657298
FLJ22374	-0.18075	-0.20526	0.089226	-0.2557	0.178449	0.129118	0.509232	0.054886	-0.29819	-0.25158	-0.00248	-0.13724	0.022067	0.045839	0.493548	0.181536
ZCCHC7	-0.03778	0.164794	-0.09632	0.217874	0.780245	0.224859	0.475994	0.103506	0.152289	0.361564	-0.05591	0.341561	0.843839	0.993224	0.357647	0.989915
TMEM164	-0.22887	0.237373	-0.2326	-0.1717	0.089756	0.080984	0.084508	0.205754	-0.12293	0.55179	-0.12237	0.200294	0.207851	0.999965	0.211632	0.909004
FAR1	-0.042	0.420961	-0.3245	0.176623	0.756414	0.001235	0.01379	0.188749	0.08505	0.557889	-0.15659	0.318471	0.712936	0.999972	0.152149	0.984499
SLITRK6	0.072578	0.059911	-0.13915	0.098206	0.591598	0.660942	0.301941	0.467364	0.001101	0.373328	-0.06246	0.302582	0.502896	0.994698	0.341791	0.979519
BFSP2	-0.07514	-0.06365	0.135559	-0.14979	0.578561	0.641165	0.314692	0.266078	0.059762	-0.26416	0.102822	-0.19799	0.653404	0.038036	0.749249	0.093588
C12orf26	0.091502	0.190628	-0.08799	0.101859	0.498443	0.159339	0.515151	0.450882	0.049732	0.2914	-0.05509	0.156604	0.628627	0.975285	0.359646	0.850677
FAM96A	-0.15922	0.359008	-0.232	0.140797	0.236795	0.006583	0.082476	0.296181	-0.00797	0.432689	0.058189	0.282137	0.479027	0.998665	0.647909	0.971262
SETD3	-0.01374	0.055673	-0.15609	0.188038	0.919935	0.686423	0.250652	0.16519	0.10883	-0.00597	-0.06865	-0.08809	0.764221	0.484296	0.327037	0.280232
USP48	0.002232	0.165512	-0.14685	0.35458	0.986856	0.222818	0.275689	0.006805	0.135334	0.360058	0.054798	0.269072	0.815076	0.993012	0.63965	0.964714
SGK196	-0.13777	0.446724	-0.43121	0.121452	0.311252	0.000629	0.000907	0.372567	0.007044	0.638278	-0.14095	0.321728	0.518314	0.999999	0.180726	0.984425
CASP9	-0.0176	0.074274	-0.14866	-0.21568	0.896604	0.586419	0.269734	0.107122	-0.29719	0.261435	-0.17214	-0.02631	0.022442	0.960371	0.12908	0.431108
TXNDC2	0.071867	-0.06784	0.206741	-0.11304	0.595243	0.619346	0.12283	0.402472	0.156014	-0.27841	0.245692	-0.21778	0.849753	0.030498	0.948112	0.072988
MEX3B	0.131005	-0.13403	0.330052	-0.09476	0.331375	0.324709	0.012165	0.483205	0.154383	-0.33457	0.215646	-0.20868	0.847181	0.011524	0.922587	0.081992
ZNF541	0.050514	-0.19296	0.336903	-0.10865	0.70903	0.154206	0.010389	0.421097	0.126697	-0.41804	0.17816	-0.28974	0.799276	0.001921	0.87918	0.025402
TMEM117	0.104797	0.474664	-0.17098	0.010442	0.437861	0.000219	0.203484	0.938553	0.139206	0.421425	-0.08403	0.17129	0.821908	0.998232	0.291571	0.872483
ZMYND12	-0.17313	-0.19007	-0.00065	-0.263	0.197787	0.16059	0.996167	0.048092	-0.29086	-0.23803	0.018743	-0.10914	0.024939	0.055582	0.548632	0.23515
WDR24	0.067774	0.011306	0.290588	-0.13267	0.619679	0.934709	0.029808	0.329684	0.017744	-0.06206	0.030892	-0.11944	0.546587	0.340998	0.579825	0.214576
C21orf56	0.0659	-0.16902	0.205955	-0.0932	0.626226	0.213014	0.124292	0.490483	0.208209	-0.22244	0.247046	-0.21586	0.915046	0.070963	0.94703	0.077202
TMEM191	-0.00669	-0.29929	0.045194	0.019685	0.960583	0.02504	0.738516	0.884442	-0.1457	-0.07422	-0.07629	0.032799	0.166978	0.311991	0.309215	0.585657
IQCG	-0.11515	-0.12709	0.01754	-0.20737	0.393704	0.350604	0.896964	0.121665	-0.18822	-0.2386	0.09554	-0.13169	0.105161	0.055147	0.733784	0.191505
NBPF3	-0.3021	0.366318	-0.28644	-0.03718	0.022377	0.005492	0.030761	0.783638	0.039774	0.099207	-0.07506	-0.01472	0.603509	0.744075	0.312052	0.461322
ZMYND15	-0.11783	-0.03236	0.111898	0.015003	0.382694	0.812849	0.407271	0.911802	-0.04275	-0.1472	0.141075	-0.05609	0.388944	0.164477	0.822352	0.355593
C2orf16	0.09028	-0.01456	0.254507	-0.27726	0.508157	0.916	0.058371	0.038564	-0.00191	-0.37852	0.112203	-0.36758	0.494967	0.004744	0.768471	0.005984
CCDC135	-0.20817	-0.2371	0.060269	-0.27847	0.120204	0.078495	0.656072	0.035947	-0.25928	-0.31302	0.033021	-0.22945	0.04093	0.017083	0.585247	0.062521
LRRRC8C	0.133749	-0.12668	0.05101	0.49408	0.325738	0.356705	0.708882	0.000109	0.228151	-0.0617	0.074838	0.205618	0.936371	0.341871	0.687434	0.914796
TRAF7	-0.1396	0.098855	-0.12995	-0.04784	0.300334	0.46854	0.3353	0.723791	-0.17588	0.502565	-0.27822	0.286282	0.121169	0.999814	0.032117	0.973123
MAF1	0.077903	-0.00012	0.084454	0.038991	0.564615	0.99928	0.532229	0.773376	0.164907	0.012746	-0.03075	-0.06351	0.863285	0.5335	0.420544	0.337504
TMEM126	-0.03004	0.213379	-0.3237	0.278223	0.824452	0.114333	0.014039	0.03612	-0.27533	0.324026	-0.40979	0.396618	0.032017	0.985983	0.002591	0.996823
RHBDD1	-0.03391	0.175902	-0.07321	0.328906	0.802242	0.194708	0.588386	0.012486	-0.10555	0.449303	-0.0748	0.4244	0.24254	0.999133	0.312657	0.998357
ATP13A4	-0.13866	0.397297	-0.21358	-0.01313	0.308123	0.002669	0.113992	0.923473	-0.30679	0.566291	-0.44716	0.302578	0.019048	0.99998	0.001037	0.979518
BBOX1	-0.08544	-0.05685	-0.2828	-0.15485	0.527433	0.677291	0.033049	0.250071	-0.31545	-0.21529	0.010798	-0.09328	0.016362	0.07537	0.528061	0.268744

ZCCHC9	0.073967	0.22228	-0.17957	0.133592	0.584506	0.099652	0.181355	0.321832	0.139866	0.40457	-0.06351	0.342586	0.823057	0.997354	0.339262	0.990113
ZDHC18	-0.1653	0.091751	-0.01372	0.125578	0.21913	0.501241	0.919339	0.351968	-0.0638	0.026657	-0.0876	-0.10568	0.336798	0.569794	0.283595	0.242289
MRI1	-0.16426	0.102613	0.052101	0.039907	0.222093	0.451717	0.70031	0.7682	-0.12659	0.374027	-0.1722	0.213339	0.200927	0.994776	0.128999	0.922713
MED10	-0.15029	0.27151	-0.21236	0.22068	0.264468	0.042953	0.112764	0.099027	-0.10142	0.491172	-0.21383	0.448676	0.251219	0.999736	0.079209	0.999118
LDOC1L	-0.11153	0.076475	-0.19721	-0.04865	0.408829	0.575345	0.141453	0.719317	-0.39027	0.336887	-0.18553	0.250081	0.003666	0.988971	0.111199	0.953151
FYTTD1	0.030571	0.255103	-0.29872	0.173044	0.821401	0.057764	0.023998	0.198008	0.254174	0.391566	0.031527	0.273971	0.955863	0.996438	0.581443	0.967295
PSD2	0.094128	-0.10689	0.269568	-0.21873	0.490171	0.437293	0.044524	0.105328	0.195643	-0.45412	0.260763	-0.35816	0.903718	0.000762	0.958194	0.007263
LTBP4	0.229121	0.007774	0.105509	0.308563	0.086458	0.954654	0.434736	0.019528	0.189408	0.324867	-0.03248	0.248923	0.896295	0.986197	0.416122	0.952361
ANKRD32	-0.15304	0.049677	-0.18892	-0.03441	0.255727	0.716164	0.159307	0.799408	-0.32533	0.244063	-0.20616	0.117727	0.013685	0.948932	0.087122	0.78207
SGIP1	0.20495	-0.0409	0.184193	0.338238	0.126179	0.764722	0.170193	0.01007	0.207535	0.000518	0.261031	0.125379	0.916814	0.501362	0.958358	0.7968
GARNL3	0.178268	-0.23736	0.227751	0.22217	0.184597	0.078163	0.088408	0.096709	0.202182	-0.23758	0.17701	-0.10626	0.911088	0.055933	0.87763	0.24107
CAMKK1	-0.01613	-0.12793	0.162145	-0.09183	0.905181	0.347414	0.228189	0.496886	0.020809	-0.13486	-0.09145	-0.18107	0.554588	0.185767	0.275109	0.114249
SLC37A3	-0.04262	0.149557	-0.13807	0.119807	0.755151	0.275795	0.310195	0.379129	-0.08635	0.319346	-0.08373	0.334222	0.286371	0.983754	0.294483	0.987581
FLYWCH1	0.173112	-0.18344	0.372891	0.083558	0.197831	0.175958	0.004281	0.536604	0.112352	-0.00492	-0.00499	0.003906	0.771379	0.487052	0.48702	0.510277
SYT3	0.005201	-0.06643	0.206149	-0.19903	0.969371	0.626628	0.123929	0.137739	0.132294	-0.39126	0.337022	-0.31039	0.809601	0.003586	0.988209	0.017891
DCUN1D5	-0.02174	0.485333	-0.2158	0.215129	0.872466	0.00015	0.106918	0.108036	0.098865	0.563635	-0.18252	0.349659	0.743342	0.999977	0.115066	0.99139
TCHP	-0.00526	0.096082	-0.04348	-0.40237	0.969036	0.481167	0.748104	0.001917	-0.07779	0.146493	0.173474	-0.12287	0.30368	0.834344	0.872777	0.207973
FBXW9	-0.31565	-0.1628	0.030211	-0.25214	0.016766	0.23059	0.823466	0.058478	-0.33968	-0.21916	-0.07384	-0.22395	0.010457	0.071685	0.314875	0.067301
PSMG3	-0.23428	0.29486	-0.04869	-0.07247	0.07941	0.027379	0.719085	0.592164	-0.44624	0.46227	-0.46895	0.27759	0.000941	0.99939	0.000578	0.969104
HSDL2	-0.07006	0.31198	-0.30233	0.017192	0.604538	0.019245	0.022267	0.898995	-0.19995	0.439188	-0.20466	0.207488	0.091377	0.998869	0.088729	0.916765
HAGHL	-0.165	-0.21522	0.184139	-0.30166	0.220003	0.111176	0.17032	0.022581	-0.08679	-0.48437	0.052685	-0.44616	0.283142	0.000324	0.634471	0.000943
POLR3GL	-0.03848	-0.02425	-0.01643	-0.18746	0.778247	0.860489	0.904364	0.166516	-0.08571	-0.06567	0.020992	-0.03452	0.285567	0.332284	0.554434	0.409918
ALKBH7	-0.0421	0.067424	0.000729	0.135343	0.755856	0.621494	0.995703	0.315473	-0.22798	0.238905	-0.38874	0.128388	0.063775	0.945089	0.004157	0.80243
C9orf64	-0.01376	0.002212	-0.18944	0.029315	0.919082	0.987088	0.158135	0.828621	-0.35169	0.244517	-0.06478	0.196161	0.00827	0.94926	0.336224	0.904318
RPAIN	-0.30542	0.430145	-0.323	-0.15248	0.020874	0.000937	0.014259	0.257486	0.025598	0.446767	-0.13954	0.06608	0.567047	0.999072	0.180302	0.668697
CHCHD5	-0.06268	-0.11037	-0.03085	-0.02407	0.643236	0.418051	0.819782	0.858966	-0.31371	0.26063	-0.28839	0.250915	0.016874	0.95989	0.027356	0.953714
ZNF282	-0.11238	0.122649	-0.01047	-0.1179	0.405249	0.36784	0.938387	0.382419	-0.03435	0.149423	-0.12697	-0.01146	0.410346	0.839187	0.202944	0.469865
C9orf89	0.056591	0.005377	-0.02425	0.027582	0.675856	0.968629	0.857922	0.838613	0.091161	0.182164	-0.09399	0.081735	0.726588	0.88718	0.269565	0.705402
POLDIP3	0.009221	0.080444	-0.26904	-0.03916	0.945723	0.555614	0.043004	0.772396	-0.17952	0.475218	-0.13569	0.196687	0.116284	0.999577	0.187064	0.904923
YIPF4	0.054209	0.097858	-0.17486	0.228423	0.68879	0.473061	0.193266	0.087446	0.053248	0.250573	-0.17783	0.207284	0.637376	0.953484	0.121265	0.916551
C4orf14	-0.22055	0.315214	-0.3391	-0.18956	0.099227	0.017966	0.009869	0.157878	-0.10172	0.412914	-0.25958	0.309127	0.255587	0.997329	0.046385	0.979414
COQ5	0.129456	-0.00954	-0.14365	-0.03131	0.337175	0.944385	0.286403	0.817147	-0.36928	0.390172	-0.32569	0.30745	0.005775	0.996326	0.014511	0.981167
NICN1	-0.12086	0.105885	-0.01593	0.244964	0.374927	0.44166	0.907254	0.068816	-0.22082	0.316083	-0.10606	0.186201	0.072467	0.982795	0.246606	0.88965
DNAJC30	-0.00815	-0.06879	0.102154	-0.05756	0.952439	0.617772	0.453753	0.673487	-0.02222	-0.05345	0.161176	-0.10927	0.442403	0.363664	0.852033	0.237453
C2orf7	0.013414	-0.13217	0.104852	-0.15402	0.921112	0.331547	0.437619	0.252666	0.037597	-0.25113	0.264326	-0.14653	0.596849	0.048055	0.958528	0.168411
STK24	-0.07828	0.539664	-0.27818	0.004926	0.562704	1.77E-05	0.036149	0.970993	0.046473	0.549383	-0.18967	0.364967	0.62046	0.999962	0.106028	0.993683
BTBD10	-0.13751	0.342217	-0.36988	0.025587	0.307705	0.009834	0.004628	0.85015	-0.06667	0.43613	-0.30858	0.289538	0.329894	0.998777	0.019584	0.974515
MGC13057	0.00598	-0.27173	-0.01975	-0.03761	0.965111	0.04278	0.885147	0.783159	0.115567	-0.40788	0.143353	-0.31967	0.775167	0.002708	0.823381	0.016153
RNF135	-0.17981	-0.03871	-0.12147	0.035793	0.18482	0.779042	0.372488	0.793406	-0.34365	0.181696	-0.14413	0.003665	0.009685	0.886572	0.172438	0.509643
TMEM79	0.087407	0.184633	0.154272	-0.29957	0.521802	0.177191	0.256274	0.024896	-0.07307	0.441059	-0.06259	0.152228	0.314686	0.998923	0.341482	0.843741
C1orf57	0.057062	0.07657	-0.2011	0.074073	0.67331	0.574866	0.133613	0.583965	-0.11028	0.528674	-0.15589	0.405605	0.232818	0.999921	0.153255	0.997417
EIF1AD	-0.09824	0.135236	-0.22183	0.039094	0.467219	0.32034	0.097227	0.77279	0.108509	0.407342	-0.17944	0.173376	0.763565	0.99752	0.11911	0.875398
TMEM175	-0.06321	-0.09235	0.096291	0.119645	0.640411	0.498429	0.476135	0.375359	-0.02686	0.042307	-0.00547	0.049623	0.429669	0.609941	0.485781	0.628355
ZDHC16	-0.16882	0.529048	-0.26192	0.252233	0.213576	3.29E-05	0.051172	0.060735	-0.056	0.686982	-0.2837	0.50069	0.355825	1	0.029477	0.999803
EFCAB2	-0.0908	-0.0042	-0.06542	-0.0763	0.501743	0.975503	0.628749	0.572669	-0.10595	-0.10205	0.075812	-0.06081	0.241725	0.249878	0.689687	0.344032
ING5	-0.06259	0.116047	-0.09115	-0.10166	0.643677	0.394373	0.500124	0.451776	0.107276	0.08033	-0.21389	-0.24862	0.761026	0.702183	0.079145	0.04785
CAPNS2	-0.09928	0.35476	-0.22507	0.010739	0.466621	0.00787	0.095371	0.937388	-0.19808	0.664973	-0.38501	0.36619	0.093489	1	0.004506	0.993841
MORG1	-0.21214	-0.07893	-0.06647	-0.32894	0.113146	0.563121	0.623247	0.012478	-0.25129	-0.13674	-0.02098	-0.21441	0.046032	0.182431	0.4456	0.076236
C10orf58	0.023785	0.489306	-0.27266	0.051066	0.860592	0.00013	0.040171	0.705994	-0.04929	0.717256	-0.33744	0.470302	0.372488	1	0.0117	0.999513
UTP23	-0.05317	0.12972	-0.2728	0.125793	0.694461	0.340654	0.040068	0.351137	0.005127	0.319683	0.08582	0.228503	0.513489	0.984833	0.712442	0.936672

PHF6	0.040938	0.252918	-0.27023	0.190255	0.762384	0.060015	0.042057	0.15632	-0.01676	0.582826	-0.08133	0.465142	0.455985	0.999989	0.297678	0.999437
GIN54	-0.30184	0.213244	-0.09169	-0.01489	0.023771	0.118011	0.501515	0.913276	-0.42442	0.464795	-0.16337	0.302297	0.001832	0.999352	0.144667	0.97822
LLPH	-0.15421	0.348159	-0.04729	0.036067	0.256477	0.009194	0.729243	0.791856	0.089176	0.201362	0.100768	0.258262	0.722188	0.910188	0.744934	0.958447
C17orf37	-0.12457	-0.02272	-0.00859	-0.18899	0.355863	0.868002	0.949434	0.159143	0.011526	0.129261	-0.15903	-0.09608	0.530299	0.804046	0.148376	0.262652
CASP10	-0.04997	-0.08481	-0.08589	0.369363	0.712041	0.534315	0.52525	0.00469	-0.34683	0.424922	-0.24871	0.331175	0.009103	0.998378	0.049735	0.987718
C6orf125	-0.15685	0.178588	-0.10288	-0.13018	0.248325	0.19205	0.45053	0.338927	-0.38844	0.605914	-0.42456	0.304915	0.003819	0.999996	0.001826	0.980323
DDI2	-0.14052	0.484996	-0.28276	0.018997	0.301611	0.000175	0.034723	0.889474	-0.18482	0.534394	-0.26457	0.286938	0.112107	0.999922	0.041323	0.972003
C9orf125	-0.09317	0.182192	-0.05653	-0.0541	0.490634	0.178972	0.676181	0.689366	-0.19564	0.389247	-0.30747	0.126887	0.09628	0.996249	0.01996	0.799633
CHCHD6	-0.20812	-0.2462	0.057733	-0.27971	0.120292	0.06738	0.669688	0.035096	-0.40632	-0.27884	-0.14202	-0.21463	0.00254	0.03029	0.176024	0.076013
NUDT22	-0.07158	-0.08752	0.103697	0.041162	0.596725	0.521276	0.442713	0.761119	0.063603	-0.05187	0.020953	-0.03269	0.662733	0.366046	0.554332	0.414627
WIBG	-0.07775	0.139343	-0.02462	-0.22237	0.565398	0.305724	0.855775	0.096407	-0.31404	0.071685	-0.06584	0.053817	0.016778	0.682044	0.333695	0.638787
PDCD2L	-0.05939	0.055377	-0.11737	-0.18093	0.663687	0.688007	0.388984	0.182041	-0.19101	0.066759	0.058197	0.091444	0.104395	0.668479	0.64626	0.724886
ZNF397	0.051629	0.057157	-0.08439	-0.16088	0.702897	0.675641	0.532549	0.231897	0.181609	-0.04446	0.18886	0.04563	0.886458	0.384608	0.89297	0.618336
NUDT16L1	-0.02572	-0.12625	0.081728	-0.1319	0.849407	0.353837	0.545594	0.328059	0.094597	-0.17372	-0.03445	-0.19018	0.734125	0.124131	0.411123	0.102759
NROB2	-0.06048	-0.01006	0.224389	-0.343	0.65794	0.941903	0.096396	0.009656	0.062611	-0.36625	0.155205	-0.26316	0.660332	0.006151	0.845669	0.038615
C7orf50	0.000157	-0.23143	0.221565	-0.22275	0.999078	0.086124	0.097645	0.095823	0.093269	-0.34422	0.05611	-0.2204	0.731223	0.009579	0.642854	0.070528
MRPL45	-0.06225	0.29696	-0.44091	-0.05067	0.648561	0.027689	0.000671	0.710734	-0.06188	0.42322	-0.11982	0.351146	0.34143	0.998308	0.216522	0.99164
BRMS1L	0.033256	0.240357	-0.30143	0.208949	0.806006	0.074365	0.022688	0.118795	0.048485	0.385383	-0.08712	0.32965	0.625507	0.995914	0.284666	0.987364
VPS25	-0.17921	0.117622	-0.30744	-0.20465	0.182242	0.387942	0.02	0.126742	-0.42147	0.33034	-0.26186	0.167662	0.001767	0.987525	0.041136	0.867306
TMEM107	-0.17963	-0.17782	-0.06267	-0.25555	0.181199	0.189812	0.643268	0.055037	-0.40587	-0.19711	-0.09307	-0.11588	0.002567	0.094588	0.271558	0.221564
MON1A	-0.05521	0.036092	-0.10455	0.035676	0.683319	0.791716	0.438957	0.792195	-0.27224	0.233637	-0.06603	0.060828	0.033598	0.94094	0.333244	0.656002
LSMD1	-0.07834	-0.06188	0.104558	-0.33219	0.566031	0.65357	0.443143	0.012375	-0.04213	-0.16273	-0.16936	-0.14363	0.390516	0.139958	0.133026	0.170474
CCDC115	0.02981	0.043116	-0.02156	0.170552	0.825772	0.752365	0.873531	0.204645	-0.05311	0.346841	-0.16005	0.190808	0.362972	0.990899	0.146814	0.897996
CCDC77	-0.01438	0.24011	-0.23939	-0.06838	0.915471	0.074673	0.072894	0.613254	-0.31787	0.401781	-0.25571	0.219131	0.015669	0.997177	0.045003	0.928289
C3orf26	-0.03464	-0.02033	-0.28245	0.213582	0.798108	0.881781	0.033277	0.110656	-0.18509	0.388485	-0.34445	0.296054	0.10908	0.996185	0.010252	0.977126
ACBD6	-0.06574	0.329857	-0.27667	0.081472	0.627047	0.01304	0.037212	0.546855	-0.18465	0.43592	-0.24787	0.280999	0.109632	0.99877	0.050327	0.970734
C18orf12	-0.01649	-0.0874	0.165099	-0.33227	0.904011	0.525731	0.22399	0.012352	0.106563	-0.52555	0.296845	-0.44962	0.759552	8.82E-05	0.976156	0.00086
CIP29	0.249888	-0.24721	0.187026	-0.02061	0.063254	0.068825	0.167518	0.880136	-0.15316	0.120436	-0.04334	0.205968	0.154773	0.787351	0.38871	0.915167
C16orf13	-0.07362	-0.17468	0.207637	-0.14405	0.586258	0.197875	0.12118	0.285047	-0.10174	-0.1669	0.199193	-0.18026	0.253025	0.136581	0.902563	0.118027
ZBED3	0.011555	-0.2714	0.247733	-0.15777	0.932015	0.043045	0.063171	0.241165	0.093859	-0.49442	0.184977	-0.33012	0.730148	0.000278	0.885334	0.01339
LZIC	-0.00863	0.121882	-0.27852	0.07691	0.94921	0.370866	0.035915	0.569602	-0.00296	0.272864	-0.06041	0.249437	0.49222	0.966726	0.346727	0.952713
HVCN1	0.200731	-0.26438	0.052122	0.153736	0.137968	0.051118	0.702826	0.25795	0.107226	-0.36538	0.207474	-0.1484	0.760924	0.006264	0.914273	0.162497
UTF1	-0.0486	-0.13141	0.248891	-0.12857	0.719567	0.334331	0.061908	0.340501	0.007197	-0.33434	0.141816	-0.21877	0.518929	0.011575	0.823625	0.072054
ZNF414	0.144947	-0.15944	0.318337	-0.13598	0.282029	0.240494	0.015809	0.313169	0.074092	-0.16406	0.137455	-0.22002	0.687706	0.13797	0.81605	0.070881
C16orf14	-0.13428	0.002341	0.055314	-0.20775	0.319338	0.986337	0.682778	0.120969	0.010125	-0.15374	0.028363	-0.23206	0.526624	0.153843	0.573365	0.060349
DYDC2	-0.1538	-0.06298	-0.03717	-0.26974	0.253355	0.6447	0.783707	0.042446	-0.17534	-0.25837	0.060677	-0.19289	0.121905	0.041487	0.653927	0.099509
PCGF5	0.114422	-0.00529	-0.14521	0.219181	0.396709	0.969107	0.281146	0.101399	0.371509	-0.10507	0.12085	-0.05363	0.99449	0.243542	0.785463	0.361683
C14orf153	0.085978	0.171417	-0.14145	-0.26801	0.524831	0.206513	0.293927	0.043839	0.043353	0.116499	0.130538	-0.02367	0.61259	0.779652	0.803641	0.437959
AKT1S1	0.012716	-0.00441	0.212084	-0.1003	0.925201	0.974275	0.11324	0.457869	0.09039	-0.19364	0.135662	-0.28119	0.724882	0.098621	0.81288	0.029176
TMEM101	-0.03343	-0.25691	0.013811	0.047758	0.804987	0.055952	0.918787	0.724254	-0.26514	0.112878	-0.18407	0.184498	0.037474	0.772438	0.113066	0.890175
ELOF1	-0.18068	-0.20968	0.171223	-0.26181	0.178625	0.120893	0.202843	0.049153	-0.36968	-0.22179	0.023177	-0.23633	0.005727	0.069251	0.56006	0.056909
RECK	0.339722	-0.1794	0.073345	0.244486	0.009726	0.185827	0.587677	0.066824	0.398535	-0.24058	0.339857	0.059122	0.996959	0.053636	0.988818	0.65184
GFM2	-0.19524	0.102172	-0.22847	-0.09912	0.145553	0.453675	0.087374	0.463222	-0.34337	0.204272	-0.15712	0.162737	0.009739	0.913357	0.151325	0.860059
COG8	-0.01724	0.103461	-0.06784	-0.1052	0.898689	0.447968	0.616088	0.436092	-0.08343	0.337047	-0.22987	0.175108	0.290733	0.989005	0.064378	0.877783
HPS3	0.009743	0.114488	-0.18838	0.114445	0.942656	0.400799	0.160515	0.396612	-0.1966	0.429873	-0.03488	0.327957	0.095177	0.998566	0.410036	0.986961
SOAT2	0.031377	-0.16421	0.215921	-0.27474	0.816774	0.226522	0.106713	0.038612	0.126995	-0.23635	0.278642	-0.3132	0.799835	0.056891	0.968094	0.017029
SDPR	0.298525	-0.16618	0.053567	0.082963	0.02543	0.225304	0.694987	0.543265	0.229374	-0.26506	0.291055	-0.11599	0.935199	0.039234	0.972367	0.224007
ARFGAP2	-0.11892	0.132561	-0.21612	0.164061	0.382708	0.334652	0.109641	0.226957	-0.1642	0.431837	-0.27296	0.246312	0.137762	0.998635	0.034824	0.950541
MKI67IP	-0.03056	0.478782	-0.28271	0.308691	0.821454	0.000189	0.033105	0.019475	-0.05091	0.595759	-0.27705	0.525277	0.368428	0.999994	0.032702	0.999911
PRAC	-0.07178	-0.19559	0.091439	-0.11665	0.595715	0.148556	0.498737	0.387533	0.021953	-0.37199	0.11348	-0.26148	0.55757	0.005454	0.771026	0.039603

RASAL1	0.055257	-0.06305	0.123581	-0.07265	0.683092	0.644358	0.359738	0.591241	0.257209	-0.12813	0.232323	-0.16531	0.957793	0.198042	0.937696	0.136124
HOOK3	0.031005	0.318405	-0.10884	0.045885	0.818904	0.016776	0.420275	0.734663	0.27821	0.118439	-0.05352	0.021776	0.969406	0.783466	0.363471	0.557108
RAD54L	-0.15298	0.156458	-0.06758	-0.14372	0.260324	0.25399	0.62066	0.290624	-0.2123	0.350148	-0.02639	0.250146	0.080746	0.990812	0.43249	0.951268
NSMAF	0.015834	0.416919	-0.3135	0.305988	0.906937	0.001391	0.017565	0.020623	0.143376	0.546321	-0.12528	0.355544	0.829093	0.999957	0.206116	0.992343
CASQ1	0.225862	-0.14257	0.21871	-0.02423	0.094174	0.299109	0.105353	0.85928	0.277274	-0.44743	0.385396	-0.31817	0.96895	0.000911	0.995531	0.015585
NCK2	-0.22269	0.24963	-0.20399	0.042607	0.095916	0.063537	0.128008	0.752997	0.004934	0.363121	-0.07846	0.296751	0.51298	0.993437	0.304229	0.977392
C2orf40	0.127132	-0.34254	0.082752	-0.29111	0.34599	0.00976	0.540555	0.028025	0.117343	-0.54448	0.216502	-0.37176	0.781316	4.58E-05	0.923422	0.005481
C5orf32	-0.11899	-0.02299	-0.01014	-0.09052	0.377985	0.866463	0.940304	0.503069	-0.29834	0.098488	-0.0468	0.147744	0.022013	0.742535	0.380085	0.836423
C15orf48	-0.10702	0.269391	-0.12731	0.081436	0.432427	0.046712	0.349794	0.550735	-0.15679	0.550295	-0.21405	0.340577	0.149039	0.999963	0.078989	0.989722
GNPAT	-0.0907	0.137038	-0.23025	0.034025	0.502228	0.313872	0.08488	0.801609	-0.09679	0.23054	-0.17921	0.160212	0.26111	0.938392	0.119409	0.856243
PROK1	-0.02708	-0.18243	0.166246	-0.30154	0.841512	0.178392	0.216478	0.022636	0.120569	-0.39308	0.188123	-0.3438	0.784923	0.00378	0.889316	0.010379
CARD11	-0.22957	0.041391	-0.05088	0.415117	0.085821	0.761978	0.706987	0.001323	-0.16307	0.258391	-0.06373	0.264293	0.139438	0.958527	0.338747	0.962043
GPR123	-0.09741	-0.11429	0.176406	-0.14676	0.471005	0.401603	0.189299	0.275973	-0.13785	-0.17393	-0.20435	-0.13504	0.180473	0.123834	0.089069	0.185456
ZNF528	-0.08917	-0.00557	-0.0928	-0.04189	0.509507	0.967502	0.492357	0.757044	-0.12516	-0.04604	-0.1978	-0.05932	0.203615	0.380624	0.096377	0.347687
KIAA1826	0.089838	0.072412	-0.05734	0.251732	0.506318	0.595867	0.671823	0.058895	0.205175	0.213841	0.136827	0.206751	0.914324	0.923209	0.814942	0.915993
HHIPL1	0.09523	-0.10515	0.280753	-0.21851	0.481032	0.440563	0.034394	0.102473	0.110819	-0.34297	0.157789	-0.25082	0.768279	0.009814	0.849712	0.046353
DYRK3	-0.07332	-0.33015	-0.07025	-0.25878	0.591253	0.01383	0.606894	0.054125	-0.00857	-0.41326	-0.08171	-0.18006	0.477468	0.002155	0.296819	0.115575
RAB11FIP4	-0.2769	-0.14812	-0.08274	-0.18954	0.037051	0.275944	0.540618	0.157913	-0.33786	-0.14465	-0.0991	-0.22752	0.010826	0.168754	0.258605	0.064168
MAML2	0.052028	-0.17453	-0.00372	-0.13008	0.700712	0.198258	0.978113	0.334822	0.008367	-0.08059	0.140536	0.067866	0.522005	0.297222	0.821422	0.672973
FRMPD3	0.064537	-0.20491	0.274144	0.061172	0.633398	0.129787	0.039055	0.651247	0.387096	-0.41368	0.291167	-0.27415	0.996066	0.002133	0.973842	0.032613
DOT1L	-0.13204	0.030481	0.027596	0.008661	0.327539	0.823529	0.838536	0.949016	-0.03331	0.206947	-0.06776	0.233006	0.413039	0.916198	0.32916	0.940427
LZTS2	-0.01916	-0.04983	0.05039	0.017785	0.887499	0.715339	0.709712	0.895531	0.119557	-0.11253	-0.00167	-0.02913	0.782968	0.23088	0.495702	0.424684
BRSK1	-0.00918	-0.12448	0.215707	-0.11849	0.945992	0.36066	0.107069	0.380019	0.083058	-0.39564	0.135274	-0.33264	0.708421	0.003249	0.812189	0.01195
SYVN1	0.083551	-0.14544	0.243458	0.097526	0.536641	0.284843	0.068014	0.470469	0.084413	-0.05336	0.046848	-0.0422	0.711495	0.362348	0.62004	0.390326
ABLIM2	-0.02991	-0.0669	0.124344	0.121931	0.826759	0.627447	0.361207	0.370673	-0.01706	0.023076	-0.04561	0.128766	0.455198	0.560494	0.383052	0.803132
ZNF333	0.02234	-0.12677	0.007825	0.152103	0.870181	0.356369	0.954354	0.263102	0.284174	-0.08775	0.258644	-0.20728	0.970745	0.283269	0.954985	0.085937
DYRK2	-0.20363	-0.03744	-0.0852	-0.07603	0.128692	0.784102	0.528586	0.574056	0.038674	-0.01652	0.035953	-0.09939	0.600705	0.456621	0.592689	0.255534
ZNF512	0.090045	0.01987	-0.04454	0.109191	0.505333	0.884434	0.74217	0.418784	0.045943	0.105101	-0.05525	0.18242	0.619126	0.756517	0.359235	0.887511
KIAA1804	0.050247	0.109491	0.082992	-0.12444	0.7105	0.421806	0.539377	0.356391	0.179175	-0.10007	0.058665	-0.23411	0.883262	0.254076	0.649063	0.058682
EFCAB7	-0.08125	-0.032	-0.06516	-0.18076	0.547974	0.814882	0.630132	0.178441	-0.25535	-0.10839	0.057974	0.021906	0.043384	0.236689	0.647387	0.557449
L3MBTL3	0.146841	0.137408	-0.15867	0.09254	0.27572	0.312554	0.238439	0.493564	0.262662	0.261661	0.232537	0.199716	0.961096	0.960505	0.937874	0.908358
PHYHIPL	-0.05069	-0.15666	0.141644	-0.29276	0.70807	0.248901	0.293254	0.027103	0.004054	-0.39212	0.185164	-0.3693	0.510543	0.00386	0.885573	0.00627
LCOR	-0.15735	0.304688	-0.30984	-0.00106	0.242423	0.022416	0.019003	0.993733	-0.08629	0.331836	-0.04749	0.188629	0.284262	0.987869	0.378355	0.895341
DUSP11	-0.04308	0.331834	-0.32798	0.193008	0.750355	0.012474	0.012749	0.150304	-0.02085	0.492701	-0.15949	0.421551	0.445298	0.999748	0.14767	0.998237
ZMAT1	0.06337	-0.13665	0.078701	-0.04157	0.639565	0.315241	0.560618	0.758833	0.142002	-0.40965	0.22617	-0.26017	0.826745	0.002348	0.932404	0.040389
NEURL4	-0.00794	-0.13409	0.114234	-0.07627	0.953664	0.32904	0.401854	0.576354	-0.1134	-0.01134	-0.14098	-0.02755	0.226519	0.470197	0.177816	0.427891
BTBD12	-0.02313	0.009399	0.110316	-0.31889	0.864418	0.945187	0.413976	0.015619	-0.00844	0.046986	0.165155	-0.1553	0.477812	0.621749	0.860859	0.151375
MEGF11	-0.00196	-0.13687	0.204983	-0.09744	0.988478	0.314487	0.126118	0.470875	0.161277	-0.30313	0.122477	-0.29988	0.857862	0.020289	0.78858	0.021446
MEGF10	0.0304	-0.22231	0.019911	-0.2718	0.822382	0.099606	0.883124	0.040826	0.06225	-0.07383	0.078211	-0.20074	0.659456	0.312901	0.69521	0.090496
FBN3	0.068915	-0.23187	0.239523	-0.16501	0.61049	0.085513	0.072731	0.219956	0.234964	-0.46183	0.262052	-0.35503	0.942007	0.000617	0.958979	0.007737
DOC2A	0.000335	-0.4378	0.062549	-0.42876	0.998046	0.00083	0.646976	0.000977	-0.09298	-0.40573	-0.01866	-0.27067	0.269412	0.002575	0.451591	0.034425
DHX16	-0.19601	0.075933	-0.07717	-0.03799	0.143939	0.578061	0.568282	0.779068	-0.26285	0.187965	-0.19287	0.012616	0.038795	0.894522	0.102153	0.533159
FAM120B	-0.00361	-0.03164	-0.05645	-0.16414	0.978748	0.816918	0.676634	0.222452	-0.0868	-0.07251	-0.08344	-0.08025	0.283117	0.316022	0.292907	0.29799
CASQ2	0.352891	-0.20248	0.227149	0.091838	0.007093	0.134498	0.089275	0.496861	0.316012	-0.36381	0.341766	-0.18274	0.983801	0.00647	0.989213	0.112076
CUL4B	0.125253	0.177635	-0.23523	0.137153	0.353226	0.190276	0.078168	0.308982	0.061684	0.39986	-0.05682	0.297373	0.658082	0.99705	0.355428	0.977627
SPIRE2	-0.30139	0.011788	-0.10008	-0.34166	0.02271	0.931288	0.458873	0.009291	-0.35822	-0.02235	-0.21079	-0.20962	0.007254	0.441395	0.082279	0.081031
JPH4	-0.03994	-0.12828	0.226734	-0.18278	0.768022	0.346099	0.089877	0.173541	-0.00597	-0.32812	0.080951	-0.33376	0.484287	0.013	0.701466	0.011702
ZNF527	0.049098	0.054921	0.053232	-0.10399	0.716837	0.687665	0.694123	0.441423	0.120138	-0.15387	0.043524	-0.18739	0.786774	0.153631	0.611752	0.106193
NKX6-2	0.0583	-0.10128	0.289577	-0.2389	0.666638	0.457639	0.028898	0.073499	0.209717	-0.35631	0.244329	-0.26166	0.919069	0.00754	0.947116	0.039498
CUL4A	-0.02254	0.29726	-0.33393	0.246939	0.867796	0.02609	0.011129	0.064049	-0.15299	0.558096	-0.24593	0.323702	0.15503	0.999972	0.051717	0.9859

PPAPDC1B	-0.05652	0.167989	0.041797	0.136661	0.676263	0.215872	0.757548	0.310739	0.001323	0.213998	-0.02627	0.116349	0.503482	0.923364	0.431986	0.779357
GHDC	0.161571	-0.24966	0.327998	-0.00903	0.229861	0.063504	0.012746	0.946861	0.20372	-0.30845	0.093675	-0.14938	0.912762	0.018508	0.72975	0.160879
MCM8	-0.04209	0.329765	-0.27583	0.013158	0.755914	0.013067	0.03782	0.922614	-0.09539	0.592262	-0.18726	0.295865	0.264154	0.999993	0.109016	0.977053
DCTN5	0.000269	0.406411	-0.27545	0.236021	0.998414	0.001883	0.038091	0.077143	0.082192	0.548833	-0.23537	0.446653	0.706445	0.999961	0.059805	0.99907
ARPM1	0.062689	-0.18468	0.237417	-0.16249	0.643174	0.173007	0.075359	0.227189	0.120122	-0.42528	0.262004	-0.24474	0.786744	0.001608	0.95895	0.050579
CNFN	-0.09601	0.003493	0.121416	-0.1119	0.481483	0.979807	0.372711	0.41159	-0.13538	0.064783	-0.09227	-0.09537	0.190458	0.661949	0.275682	0.269009
ACRBP	-0.09834	-0.325	0.180805	-0.29574	0.466757	0.014527	0.178325	0.025512	-0.02599	-0.46437	0.161067	-0.41408	0.431937	0.000575	0.854742	0.002113
CUL3	0.017908	0.300844	-0.31377	0.14621	0.894814	0.024259	0.017465	0.277812	-0.02573	0.445268	-0.16363	0.309197	0.432615	0.999035	0.1414	0.981732
C14orf142	-0.20685	-0.03257	-0.16088	-0.17261	0.122619	0.811626	0.231877	0.199155	-0.19877	-0.14696	-0.05715	-0.17684	0.092709	0.164884	0.35462	0.119864
JAGN1	-0.07585	0.394085	-0.17209	0.276367	0.574955	0.002654	0.200519	0.037432	-0.08324	0.488646	-0.22224	0.210362	0.291158	0.999715	0.071149	0.919727
ZC3H8	-0.08103	0.197385	-0.35006	-0.06307	0.549059	0.144795	0.0076	0.641153	-0.24844	0.237433	-0.27491	0.127964	0.047969	0.943952	0.033804	0.801642
HOPX	0.194942	0.027261	0.221095	-0.16596	0.149934	0.843384	0.101517	0.221545	0.001404	0.040153	-0.05995	-0.01766	0.503694	0.604473	0.347832	0.453635
ZNF559	0.099333	-0.06793	0.018878	0.008057	0.462245	0.618891	0.889148	0.952568	0.301705	-0.24075	0.171823	-0.13221	0.97921	0.053514	0.870469	0.190547
C15orf41	0.002202	0.349832	-0.21346	0.086042	0.987028	0.008219	0.110871	0.524522	-0.12504	0.556934	-0.18004	0.365812	0.203847	0.999971	0.118317	0.993792
CUL2	-0.05309	0.243317	-0.34015	0.115989	0.694909	0.07076	0.009629	0.390229	-0.10096	0.484425	-0.16209	0.36198	0.252184	0.999677	0.143708	0.993281
KIAA1853	0.016949	-0.0423	0.212449	-0.28778	0.900414	0.756897	0.112605	0.029951	0.195875	-0.35623	0.115859	-0.28409	0.903987	0.007553	0.775743	0.02785
ACSS1	-0.01789	-0.40562	0.225911	-0.1693	0.894903	0.001926	0.091081	0.208043	-0.14405	-0.54634	0.072701	-0.5133	0.169769	4.29E-05	0.682464	0.000132
C21orf67	0.064286	-0.21805	0.267752	-0.22475	0.634722	0.106427	0.044048	0.092795	0.0492	-0.43596	0.149743	-0.43927	0.627296	0.001229	0.836898	0.001128
MCHR2	-0.14014	-0.00864	-0.01666	-0.24501	0.298452	0.949613	0.90211	0.066225	0.000193	-0.24398	0.087801	-0.27998	0.500508	0.051125	0.716855	0.029744
CUL1	0.063824	0.213365	-0.19448	0.181876	0.637164	0.114357	0.147153	0.175726	0.008732	0.387195	-0.08245	0.293538	0.522965	0.996074	0.295145	0.976145
KBTBD8	0.020365	0.103508	0.086406	0.118098	0.88157	0.452035	0.526598	0.386014	0.189822	-0.082	0.091957	-0.07801	0.894153	0.296144	0.723635	0.30525
KIAA1841	-0.18688	0.05105	-0.11333	-0.14922	0.163946	0.708665	0.401238	0.267927	-0.18358	0.005605	-0.02621	-0.04841	0.111002	0.514744	0.43214	0.374676
MRPL43	-0.13822	0.2343	-0.08281	0.106614	0.305194	0.082197	0.540267	0.429915	-0.30659	0.469269	-0.25002	0.230728	0.019117	0.999499	0.048818	0.938549
PGBD1	0.118592	-0.04236	0.122882	0.072137	0.379608	0.756565	0.362482	0.59386	-0.00695	-0.32743	0.209921	-0.26558	0.481918	0.014061	0.914291	0.038928
TMEM185A	-0.04277	-0.27073	-0.06546	-0.04904	0.752066	0.043575	0.628523	0.717153	0.126743	-0.45308	0.238447	-0.27277	0.799362	0.000784	0.942647	0.033323
MAK16	-0.02704	0.312719	-0.28342	0.203948	0.841739	0.018947	0.032649	0.128083	-0.04516	0.421288	-0.12393	0.357317	0.382845	0.998226	0.208657	0.992612
ATRN	0.112994	0.186742	-0.2522	0.172985	0.402664	0.168176	0.058411	0.198165	-0.05885	0.477342	-0.12389	0.453539	0.348831	0.999602	0.20874	0.999226
PARD6G	0.052547	0.150878	-0.0782	-0.0058	0.700519	0.271529	0.566705	0.966182	-0.03124	0.459256	-0.17325	0.342061	0.418361	0.999338	0.127536	0.990012
C6orf168	0.234909	0.445083	-0.15856	-0.08252	0.078589	0.000588	0.238779	0.541695	0.260097	0.314706	-0.09834	0.147429	0.959568	0.983421	0.260221	0.835901
MAP1LC3A	-0.02422	-0.35026	0.160598	-0.47939	0.85805	0.008135	0.232718	0.000161	-0.10735	-0.48691	0.236465	-0.35954	0.238828	0.0003	0.941078	0.007062
FOXN1	0.076565	0.179628	-0.05622	-0.31325	0.57134	0.185271	0.677873	0.01766	-0.23677	0.207963	-0.0528	0.122339	0.056569	0.91726	0.365244	0.791017
MT4	-0.01494	0.021812	0.179378	-0.11757	0.912144	0.873223	0.181834	0.383776	0.226816	-0.23354	0.150533	-0.22731	0.935219	0.059139	0.838185	0.064354
SLC12A8	0.034653	-0.0347	0.155213	0.003024	0.798027	0.799563	0.248963	0.982186	0.139289	-0.03347	-0.00441	-0.08451	0.822054	0.412618	0.488524	0.288289
LYZL1	0.154455	-0.17135	0.156449	-0.01547	0.260194	0.215397	0.254016	0.910752	-0.08983	0.016817	0.118156	-0.19079	0.276359	0.544163	0.780246	0.102029
COL25A1	0.050107	-0.25039	0.182621	-0.21884	0.711273	0.062713	0.173931	0.10194	0.138237	-0.4083	0.244976	-0.32349	0.820212	0.002424	0.947591	0.014155
GNPTG	-0.0026	-0.14953	0.09685	-0.06209	0.984688	0.271362	0.473567	0.646379	-0.01396	0.072497	-0.07638	0.021273	0.463328	0.683958	0.309008	0.555797
TTF2	-0.09948	0.303241	-0.22993	0.035685	0.465719	0.024416	0.088244	0.794016	-0.19182	0.589914	-0.25086	0.371608	0.100782	0.999992	0.048238	0.994501
TPST2	-0.03828	0.119371	-0.05818	0.344487	0.779392	0.380879	0.670152	0.009326	0.076065	0.037103	-0.07194	0.108499	0.692316	0.596697	0.319304	0.763544
CASR	0.091771	-0.09201	0.284099	-0.21597	0.501151	0.504042	0.033839	0.109897	0.066213	-0.43308	0.065116	-0.39651	0.669016	0.001322	0.664572	0.003185
TPST1	-0.1439	0.003441	-0.3537	-0.07503	0.285546	0.979922	0.006953	0.579116	-0.12747	0.14016	-0.05007	0.116996	0.199277	0.823568	0.371966	0.780633
PARD6B	-0.25706	0.089668	-0.1459	-0.2269	0.053567	0.511049	0.278852	0.089631	-0.24916	0.068912	-0.2127	-0.07914	0.047478	0.675469	0.080339	0.300556
ZBTB37	-0.13472	0.068518	-0.04922	-0.18144	0.317731	0.615833	0.716171	0.176774	-0.00841	-0.31973	-0.02317	-0.22308	0.47789	0.015153	0.439946	0.068087
KRTAP4-4	0.208065	-0.13031	0.209725	-0.24731	0.120398	0.338438	0.117399	0.063634	-0.02065	-0.21316	0.133887	-0.08839	0.445833	0.077461	0.809709	0.279557
TUBB6	0.065713	-0.0245	0.068764	-0.13445	0.630387	0.859067	0.614559	0.323177	0.179828	-0.05655	0.039444	-0.03056	0.884126	0.354475	0.601507	0.420117
NT5C1A	-0.05845	-0.12048	0.279632	-0.20705	0.665845	0.376417	0.03515	0.122254	0.032264	-0.31068	0.267576	-0.25195	0.584282	0.017801	0.962216	0.045596
ZGPAT	-0.11876	-0.16242	0.09967	-0.08294	0.378941	0.23169	0.460722	0.539651	-0.00777	-0.24744	-0.04035	-0.29114	0.479577	0.048667	0.396205	0.024823
KLF11	0.22161	-0.15103	0.033544	0.258147	0.097576	0.266521	0.804358	0.052527	0.264819	-0.16794	0.054485	-0.11831	0.962345	0.132295	0.638883	0.216794
ST6GAL2	0.305935	0.144353	0.201881	-0.06942	0.021845	0.293039	0.13568	0.611206	0.036754	0.062727	0.057604	0.004614	0.595802	0.660612	0.646488	0.51214
ZNF594	-0.15411	0.153639	-0.13632	-0.09162	0.252373	0.258255	0.311951	0.497894	-0.09896	0.087906	-0.00181	0.018467	0.256447	0.719354	0.495305	0.548476
KIRREL3	0.056402	-0.1089	0.228403	-0.08359	0.676879	0.424328	0.087476	0.536438	0.114695	-0.48265	0.19482	-0.23846	0.776075	0.000341	0.900157	0.055256

FNDC1	0.264079	-0.17806	0.246106	0.051771	0.047147	0.189209	0.06498	0.702119	0.204713	-0.35752	0.300522	-0.11973	0.911323	0.007953	0.976268	0.216704
KRBA1	-0.05966	-0.03845	0.149004	-0.23023	0.659339	0.778434	0.268631	0.084899	0.060729	-0.29069	0.036051	-0.30038	0.65576	0.025007	0.592939	0.021263
ZNF469	0.016041	-0.15999	0.304141	-0.17405	0.905727	0.238855	0.021441	0.195381	0.09011	-0.28678	0.175789	-0.22379	0.724263	0.026662	0.875969	0.067444
NTNG2	-0.04047	-0.11006	0.200043	-0.06804	0.765044	0.419394	0.135711	0.615038	0.159149	-0.17682	0.176256	-0.33664	0.854617	0.119886	0.876606	0.011082
TNRC18	0.139472	-0.06198	0.133402	-0.05427	0.300794	0.649965	0.322526	0.688463	0.261753	-0.08796	0.135536	-0.07289	0.96056	0.280531	0.812655	0.315116
TEAD2	0.258534	-0.21927	0.239624	0.243782	0.052161	0.104446	0.072607	0.067638	0.329966	-0.3003	0.149108	-0.10721	0.987438	0.021295	0.835859	0.239108
TTBK1	-0.01616	-0.12913	0.198892	-0.17825	0.905043	0.342877	0.138023	0.184652	0.212349	-0.46005	0.093109	-0.42749	0.92173	0.000648	0.728521	0.001522
SLITRK2	0.156104	-0.09169	0.149767	-0.16414	0.246223	0.501506	0.266158	0.222425	0.203944	-0.32825	0.250251	-0.27158	0.913004	0.01297	0.951341	0.033943
AFAP1L2	0.327118	-0.05694	0.079375	0.063681	0.013002	0.676784	0.557257	0.637924	0.379431	-0.22253	-0.0245	-0.14754	0.995348	0.06858	0.436526	0.163917
KISS1R	0.006154	-0.12562	0.219858	-0.11084	0.963765	0.356264	0.100322	0.411745	0.141568	-0.29368	0.058636	-0.29962	0.826001	0.023798	0.648992	0.021541
GPR174	0.05347	-0.19242	0.017724	0.590595	0.695512	0.159289	0.896843	1.66E-06	-0.16597	0.015014	0.024798	0.204889	0.135148	0.539444	0.564226	0.914018
IL1F10	-0.01369	-0.04204	0.336637	-0.21883	0.920231	0.760537	0.011185	0.105153	0.06584	-0.40189	0.173584	-0.27775	0.668121	0.002815	0.872931	0.030817
SUPT3H	0.016312	-0.26061	-0.02513	-0.00162	0.90414	0.052392	0.852799	0.990445	0.104165	-0.29425	0.00912	-0.28205	0.754562	0.023574	0.523706	0.028778
USP38	-0.11432	0.382303	-0.3066	0.274389	0.397119	0.003641	0.020361	0.038874	0.001044	0.582959	-0.16835	0.404027	0.502747	0.999989	0.134479	0.997321
HIATL1	0.101869	0.229163	-0.18159	0.140194	0.455021	0.089336	0.180435	0.302751	-0.15901	0.586269	-0.19615	0.414238	0.145597	0.999991	0.098287	0.997895
KIF2B	-0.01813	-0.10866	0.187562	-0.28163	0.893501	0.425343	0.162377	0.03381	0.022291	-0.32801	0.080944	-0.37559	0.55845	0.013026	0.701451	0.005053
C22orf23	-0.1282	-0.21955	0.057713	-0.34653	0.341922	0.103996	0.6698	0.008274	-0.25233	-0.37329	0.033381	-0.1737	0.045344	0.005306	0.586162	0.124159
PLA2G12B	0.033616	0.035166	0.157727	-0.19396	0.803948	0.796948	0.241285	0.148263	0.310201	-0.27331	0.004301	-0.34684	0.98205	0.033045	0.511184	0.009102
LCE3D	0.239786	0.00661	0.107738	-0.34671	0.072407	0.961437	0.42504	0.008239	0.200346	-0.07769	0.208901	-0.25615	0.90651	0.305981	0.913223	0.044712
DGAT2	-0.14933	-0.16386	0.037169	-0.26354	0.267566	0.227546	0.783704	0.047619	-0.13203	-0.3695	0.159041	-0.32338	0.190873	0.005748	0.851646	0.014182
EBPL	0.167292	0.300683	-0.12636	0.00956	0.213562	0.024339	0.34894	0.943734	0.026786	0.488186	-0.26774	0.382753	0.57013	0.999711	0.037689	0.995672
SPINK7	0.050322	0.053655	-0.06623	-0.34717	0.712638	0.697236	0.627704	0.008755	0.034924	0.179206	-0.30177	-0.14522	0.589034	0.877777	0.023255	0.173463
SPZ1	-0.16513	-0.03124	-0.08666	-0.35988	0.219614	0.819223	0.521534	0.005966	-0.08764	-0.26983	0.109483	-0.24223	0.281235	0.034879	0.762982	0.052411
N-PAC	-0.22791	-0.05688	-0.23055	-0.14773	0.088181	0.67715	0.08446	0.272783	-0.48217	0.20195	-0.33596	-0.00443	0.000345	0.910834	0.012027	0.48834
C3orf42	0.022625	-0.01548	0.014258	0.256574	0.868542	0.910702	0.916936	0.056287	-0.07046	0.259702	-0.13336	0.043133	0.320846	0.959329	0.191237	0.612034
EMR3	-0.0579	-0.4789	0.033544	-0.13593	0.674549	0.000249	0.807907	0.322413	-0.2636	-0.51581	0.005096	-0.38386	0.040092	0.000144	0.513094	0.004619
RNASE7	0.010585	0.017781	0.179251	-0.24283	0.938282	0.897476	0.186211	0.071346	0.134175	-0.32051	0.093756	-0.28819	0.812999	0.014943	0.729925	0.026056
CCDC62	-0.08097	0.074807	-0.02996	-0.27249	0.549317	0.58373	0.824914	0.040299	0.011155	-0.32332	0.123617	-0.30773	0.529327	0.014198	0.790749	0.018741
DPY30	-0.09209	0.10662	-0.23921	-0.06853	0.495663	0.434152	0.073115	0.612473	-0.25761	0.219419	-0.06956	0.144299	0.041957	0.928558	0.324905	0.830659
GLIS2	0.283807	-0.16871	0.309488	0.215084	0.032401	0.213892	0.019147	0.108112	0.276658	-0.08612	0.352096	0.022968	0.968646	0.284643	0.991153	0.560213
CYorf15B	-0.06234	0.147898	-0.18933	0.106996	0.645049	0.276685	0.158385	0.428256	0.243782	0.211189	-0.09627	0.257383	0.946711	0.918129	0.267093	0.956078
MYPN	-0.05085	-0.03435	0.073421	0.035506	0.707168	0.801568	0.587288	0.793159	0.029085	-0.34095	0.013982	-0.16994	0.576081	0.010204	0.536318	0.129426
RETNLB	0.025356	-0.09413	0.192367	-0.274	0.851484	0.490176	0.151688	0.039162	0.079787	-0.35134	0.189421	-0.35591	0.700934	0.008328	0.893662	0.0076
HES7	-0.02402	-0.1409	0.333592	-0.12748	0.859257	0.300286	0.011217	0.344646	0.027368	-0.35421	0.151783	-0.27855	0.571637	0.007865	0.840209	0.030429
FAM126A	0.184887	0.061677	-0.08795	0.33913	0.16856	0.651582	0.515312	0.009862	0.501128	0.077167	0.138507	0.150813	0.999805	0.694879	0.817896	0.841453
USP32	-0.03578	0.005975	-0.20548	0.280235	0.791592	0.96514	0.12518	0.034741	0.000661	-0.03612	0.052655	0.013711	0.50174	0.40582	0.634395	0.536031
SMARCA5	0.084655	0.169877	-0.24576	0.135094	0.531254	0.210683	0.06537	0.316372	-0.01333	0.35447	-0.01629	0.309704	0.464965	0.992176	0.457716	0.981893
ZNF347	0.164	0.122295	-0.04133	0.083777	0.222837	0.369236	0.760193	0.535536	0.096123	0.126642	0.032824	0.243959	0.737439	0.799173	0.584746	0.948856
CARD6	0.029711	0.304399	-0.18204	0.446528	0.826345	0.022551	0.175334	0.000498	-0.07571	0.532006	-0.1746	0.452521	0.308512	0.999929	0.125665	0.999204
TRIM55	-0.04351	-0.24232	0.042762	-0.32077	0.747908	0.071964	0.752126	0.014982	-0.19594	-0.41304	0.101696	-0.39809	0.095943	0.002166	0.746886	0.003073
TRIM63	-0.07971	-0.02482	0.090937	-0.28863	0.555601	0.855903	0.501108	0.02945	-0.08842	-0.32606	0.039406	-0.28054	0.281774	0.014414	0.600238	0.030975
DSCR8	0.108506	-0.22484	0.138546	-0.28571	0.426018	0.09887	0.308525	0.032798	-0.1777	-0.27482	0.228629	-0.12414	0.124246	0.035505	0.929847	0.211024
FBXL10	-0.26645	0.034559	-0.09381	-0.19631	0.045128	0.80038	0.487629	0.143316	-0.31446	0.029216	-0.05182	0.012371	0.016652	0.576419	0.367667	0.532517
SLC9A7	0.027298	0.039096	0.102666	0.151521	0.840255	0.774819	0.447286	0.260535	0.062802	0.159359	0.092062	0.079283	0.659037	0.852135	0.723862	0.697665
FKBP6	-0.09751	-0.16326	0.054637	-0.16429	0.470531	0.229256	0.686461	0.222015	-0.06898	-0.23119	-0.09039	-0.14143	0.32436	0.061064	0.277425	0.174243
ACCS	-0.06968	-0.17723	0.151517	-0.05975	0.606509	0.191317	0.260548	0.658849	-0.05643	-0.15911	-0.13775	-0.1199	0.354775	0.145446	0.183425	0.213684
HINT2	-0.26428	-0.10063	-0.21955	-0.12298	0.049045	0.464775	0.103983	0.366538	-0.25017	0.046897	-0.13883	-0.06039	0.048717	0.620164	0.184393	0.346755
INSM2	-0.04881	-0.09812	0.212091	-0.17998	0.718439	0.471888	0.113227	0.18035	0.152822	-0.35746	0.125335	-0.39993	0.84188	0.007962	0.791216	0.003245
PPP1R9B	0.033353	-0.07589	0.160905	0.094221	0.805449	0.578253	0.231811	0.485709	0.076655	-0.01509	0.089082	0.04112	0.69369	0.460354	0.71969	0.606932
C9orf24	-0.20379	-0.26424	0.118162	-0.30654	0.12839	0.049079	0.381348	0.020386	-0.2306	-0.45373	-0.00442	-0.36198	0.061557	0.00077	0.488505	0.006718

MS4A14	-0.17325	-0.17521	0.031551	-0.08294	0.201636	0.200718	0.817438	0.543392	-0.04739	-0.51131	0.26177	-0.17647	0.378609	0.000166	0.956962	0.123102
SPATA22	0.121492	-0.17032	0.125587	-0.18868	0.367981	0.20947	0.351933	0.15985	0.071105	-0.49374	0.048483	-0.33364	0.680673	0.000244	0.6241	0.011728
FAM71F1	-0.02946	-0.16209	0.203159	-0.22439	0.827763	0.232665	0.129597	0.093342	-0.00673	-0.3602	0.230508	-0.1709	0.4823	0.006967	0.936168	0.128065
CCDC54	-0.05536	-0.01616	0.004139	-0.17271	0.682536	0.905924	0.975623	0.198878	-0.12243	-0.24196	0.004299	-0.2825	0.208808	0.052612	0.511181	0.028571
MCEE	-0.03736	0.103531	-0.22155	0.158264	0.782629	0.447657	0.097674	0.239665	0.224165	0.131898	-0.02557	0.067511	0.932888	0.808882	0.433789	0.672126
GJA10	-0.02459	-0.07744	0.05678	-0.40386	0.855914	0.570513	0.674835	0.001837	-0.05383	-0.36791	0.056932	-0.33533	0.361188	0.005942	0.644856	0.011359
LOXL3	0.162763	-0.20393	0.251411	-0.07119	0.226396	0.131666	0.05923	0.598748	0.155643	-0.17244	0.155145	-0.19262	0.84636	0.128661	0.842695	0.102457
ABHD1	0.03732	-0.18838	0.23906	-0.20268	0.782846	0.164413	0.073303	0.130526	0.091027	-0.52895	0.304572	-0.29195	0.726292	7.87E-05	0.979037	0.024492
CAPS2	-0.08632	-0.08704	-0.03949	-0.18125	0.523189	0.523547	0.770527	0.177234	-0.17168	-0.27175	0.050366	-0.16907	0.126971	0.033853	0.628759	0.130674
CREB3L3	-0.09427	-0.12718	0.11577	-0.18192	0.485471	0.35026	0.39113	0.175626	0.097819	-0.4539	0.217583	-0.3706	0.7411	0.000766	0.924468	0.005616
CAT	0.001794	-0.03969	-0.30691	-0.19044	0.989433	0.771483	0.020225	0.15592	-0.23845	0.045395	-0.19286	0.051558	0.055261	0.617746	0.102166	0.633181
SORBS2	0.066791	-0.20867	0.218147	-0.34732	0.621561	0.122736	0.103062	0.008119	0.133723	-0.37286	0.128576	-0.38652	0.812187	0.005355	0.800035	0.003985
MYO18B	0.077685	-0.13671	0.24072	-0.21241	0.569296	0.319626	0.073916	0.116035	0.188822	-0.55522	0.228081	-0.36567	0.895578	3.10E-05	0.934082	0.006226
COX4I2	-0.05192	-0.18031	0.188299	-0.07991	0.701319	0.183577	0.160701	0.554612	0.128036	-0.41612	0.282525	-0.21761	0.801776	0.002012	0.969974	0.073148
GTPBP3	0.002286	0.030127	0.215476	-0.16592	0.986535	0.82555	0.107455	0.217386	0.125122	-0.18851	0.223766	-0.20611	0.796315	0.104802	0.930247	0.084684
GPT2	0.091584	0.105224	0.083617	0.026391	0.498057	0.440227	0.536317	0.845498	0.396588	-0.02273	-0.01196	-0.13354	0.99682	0.440402	0.468917	0.188141
BEX2	0.041927	-0.0077	0.042272	-0.18308	0.756813	0.955106	0.754877	0.172836	0.111214	-0.30235	0.190395	-0.27864	0.769079	0.020562	0.894854	0.030387
LNX1	-0.13398	0.227049	-0.27054	-0.19724	0.320399	0.092411	0.04181	0.141399	-0.19558	0.318408	-0.15804	0.181104	0.098956	0.983483	0.152775	0.88309
C4orf49	0.047502	-0.14882	0.185327	-0.18763	0.725673	0.273658	0.167532	0.162217	0.178085	-0.48742	0.147102	-0.42011	0.88181	0.000296	0.832547	0.001826
IRS4	0.166186	0.036957	0.122695	-0.46845	0.216648	0.786843	0.36322	0.000238	-0.14798	-0.33637	0.104479	-0.22737	0.163188	0.011138	0.752702	0.064299
HDGF2	-0.03197	-0.2083	0.172148	-0.20128	0.813365	0.123419	0.200376	0.133266	-0.13796	-0.22708	0.060221	-0.16994	0.180281	0.064553	0.652827	0.129432
C1orf217	0.033336	0.10426	-0.19672	0.216441	0.807305	0.448736	0.146175	0.109106	0.05172	0.546973	-0.20355	0.410183	0.633583	0.999958	0.089942	0.997681
PIGO	-0.20906	0.0316	-0.14253	0.019314	0.118589	0.81716	0.290227	0.886607	-0.29637	0.291234	-0.37553	0.187618	0.022755	0.975217	0.00551	0.894093
PSRC1	0.132724	-0.00928	0.09859	-0.15762	0.325013	0.945872	0.46562	0.241606	0.106855	-0.04931	0.046041	-0.11262	0.760158	0.372424	0.618034	0.228084
PLEKHA8	0.052446	-0.09776	-0.03556	-0.12014	0.698421	0.47351	0.792834	0.373376	0.117641	0.106479	0.032378	-0.06453	0.781901	0.75938	0.583612	0.335042
BAT2L	-0.13308	0.186554	-0.09861	0.118115	0.328176	0.172647	0.469663	0.385943	-0.04819	0.382759	-0.1051	0.255061	0.37522	0.995672	0.246	0.956434
SPSB2	0.044131	-0.08615	0.311889	-0.23416	0.744458	0.527821	0.018187	0.079569	-0.08886	-0.31824	-0.01881	-0.24232	0.27851	0.015566	0.45119	0.052346
OGT	0.038706	0.076235	-0.10962	0.379736	0.77499	0.576545	0.416957	0.003575	0.248722	0.093608	-0.05824	0.154183	0.952223	0.731965	0.351957	0.846863
CBX2	0.104493	-0.12296	0.360928	-0.15592	0.439198	0.366627	0.005812	0.246794	0.289967	-0.18463	0.252205	-0.1697	0.974694	0.109655	0.952676	0.129773
FAM167B	0.042903	-0.09724	0.284928	-0.20734	0.751334	0.475894	0.031694	0.121717	0.051768	-0.21195	0.197259	-0.21314	0.633701	0.078671	0.902998	0.077487
CNDP1	-0.01914	-0.08846	0.172551	-0.21429	0.887597	0.51679	0.19931	0.109457	0.034456	-0.34193	0.074284	-0.21679	0.589917	0.010014	0.686147	0.073927
LOC84740	-0.01945	0.043083	0.182363	0.009751	0.885789	0.752552	0.174552	0.942613	0.096981	-0.29021	0.018123	-0.15152	0.739293	0.025207	0.547029	0.157399
UNC119B	-0.17098	-0.15103	-0.05143	-0.27135	0.203504	0.266522	0.704018	0.041174	-0.40323	-0.17473	-0.07725	-0.1025	0.002729	0.122741	0.306994	0.248928
USP30	0.170903	0.145018	-0.13227	-0.24191	0.2079	0.286249	0.331169	0.072455	-0.06525	-0.13383	0.023837	-0.1041	0.333293	0.187621	0.561756	0.24558
EPR1	0.036718	-0.07372	0.031784	-0.26685	0.786265	0.589216	0.814437	0.044796	-0.09618	-0.22545	0.129165	-0.19732	0.262429	0.065978	0.801121	0.094346
FUT10	0.154516	0.285082	-0.09195	0.078575	0.251119	0.033201	0.49631	0.561253	0.099068	0.397015	0.059689	0.25547	0.743777	0.996851	0.651542	0.956695
B3GNT9	-0.14032	-0.13774	0.064867	-0.2702	0.297826	0.311379	0.63166	0.042076	0.065925	-0.23886	0.07958	-0.24624	0.668326	0.054944	0.698343	0.049508
PCGF1	-0.3888	0.016232	-0.33688	-0.17945	0.0028	0.905485	0.010394	0.181646	-0.16922	0.161739	-0.19367	-0.02774	0.130447	0.858559	0.101197	0.427406
CDC42BPA	0.125648	0.305915	-0.23733	-0.10551	0.351698	0.021854	0.075475	0.434742	0.309857	0.136499	0.088608	0.061271	0.981941	0.817147	0.718644	0.657078
ZNF577	0.144244	-0.09254	0.140496	-0.13742	0.284393	0.497555	0.297224	0.308036	0.336557	-0.25728	0.193663	-0.27372	0.988902	0.04216	0.898789	0.032833
EFCAB4B	-0.03842	-0.19269	0.121993	-0.00239	0.778584	0.158707	0.370429	0.986077	-0.13724	-0.32269	0.025079	-0.31586	0.184326	0.01531	0.564947	0.017272
SPRYD5	0.262886	0.012739	0.118247	-0.27781	0.048192	0.925758	0.381007	0.036408	0.173537	-0.34822	0.165377	-0.23875	0.875621	0.008857	0.861185	0.055027
FKSG24	0.015492	-0.1242	0.188956	0.264876	0.908937	0.361763	0.15922	0.04646	0.090368	0.104527	0.072996	0.061498	0.724835	0.755318	0.68315	0.65763
GPR65	-0.01866	-0.21101	-0.10887	0.228547	0.890421	0.118509	0.420173	0.08727	-0.04697	-0.28302	0.085864	-0.1319	0.378296	0.028335	0.712541	0.191117
ZNF607	-0.06921	0.150612	-0.15771	-0.16744	0.608952	0.267864	0.241338	0.213157	-0.26454	0.201811	-0.17258	0.103301	0.037812	0.910682	0.128473	0.75275
ARD1B	0.044936	-0.08459	0.208793	-0.28177	0.739954	0.535378	0.119077	0.033716	0.276251	-0.3869	0.146956	-0.39506	0.96689	0.004326	0.82943	0.003618
SUV420H2	-0.16075	-0.17334	0.130655	-0.39624	0.232257	0.201403	0.33268	0.002279	-0.0655	-0.35189	0.113512	-0.35172	0.332693	0.008237	0.771089	0.008266
HIRIP3	0.015458	-0.24893	0.089772	-0.24811	0.909138	0.06431	0.506634	0.062754	-0.15541	-0.33919	0.16257	-0.27351	0.151201	0.010556	0.857009	0.032942
TUBA1C	0.011408	0.467402	-0.08957	0.086321	0.933498	0.000321	0.511511	0.527008	-0.07004	0.664191	-0.21087	0.379264	0.321853	1	0.082193	0.995331
C1orf97	-0.41784	-0.08242	-0.1799	-0.11266	0.001221	0.545939	0.180538	0.404057	-0.48707	-0.10801	-0.21938	-0.01099	0.000299	0.237458	0.073814	0.471114

MGC12966	-0.07041	-0.04239	-0.1341	0.065864	0.602737	0.756435	0.319981	0.626418	-0.00681	0.159804	-0.29461	-0.07097	0.482097	0.855621	0.024732	0.319636
C10orf33	-0.06031	0.018343	0.112411	-0.30395	0.655825	0.893256	0.405111	0.021528	-0.04138	0.046996	-0.04392	-0.01793	0.39242	0.621773	0.387256	0.45293
C19orf48	0.047484	0.070214	0.058197	0.110108	0.725777	0.6071	0.667191	0.414865	0.032349	0.196434	-0.14283	0.303869	0.584501	0.904632	0.174646	0.979966
RAE1	-0.09091	0.197522	-0.30864	0.192746	0.501253	0.144509	0.019497	0.15087	-0.29177	0.62876	-0.28367	0.501795	0.024563	0.999999	0.029487	0.999809
AGPAT9	-0.02675	0.403881	-0.26268	-0.28679	0.843426	0.002023	0.048376	0.03055	-0.27711	0.202068	-0.29716	0.032125	0.031131	0.910964	0.023722	0.583923
MFSD9	-0.16312	0.247353	-0.18282	0.185538	0.225378	0.066071	0.173463	0.16704	-0.04205	0.396536	-0.19951	0.143587	0.390708	0.996817	0.094431	0.829451
NFKBID	-0.04318	-0.18987	0.094005	0.064306	0.75203	0.165	0.490742	0.637742	0.168228	-0.23928	0.21705	-0.17889	0.865344	0.056705	0.9215	0.119838
C1orf170	0.003486	-0.19131	0.281544	-0.07535	0.979468	0.157826	0.033868	0.5775	0.074786	-0.43851	0.217787	-0.22607	0.689331	0.001151	0.924665	0.065428
CROCCL1	-0.01783	-0.07344	0.034461	-0.14317	0.896213	0.594123	0.800933	0.292503	-0.15441	-0.09484	-0.00182	-0.0078	0.152773	0.265338	0.495262	0.479472
OFD1	0.009066	0.118357	-0.08314	-0.11596	0.946634	0.384963	0.538664	0.390329	0.079487	0.04897	0.11504	-0.04945	0.700244	0.626723	0.774125	0.372082
BUD13	0.000929	0.073506	-0.22234	-0.36935	0.994527	0.590308	0.096441	0.004691	-0.41246	0.393042	-0.2427	0.126156	0.002197	0.996555	0.054091	0.798262
PLCD4	-0.12766	0.091897	-0.33953	-0.22817	0.343985	0.500559	0.009769	0.087807	0.068295	0.385822	-0.06539	0.1201	0.672116	0.995572	0.336624	0.784019
PPAPDC3	0.055796	-0.16927	0.397207	-0.13379	0.680165	0.212343	0.002218	0.321118	0.084934	-0.40997	0.234583	-0.25087	0.712674	0.002331	0.939559	0.046315
RTN4IP1	-0.05606	0.118363	-0.15235	-0.0705	0.678758	0.384941	0.257919	0.602286	-0.19252	0.172181	-0.00143	0.053927	0.099948	0.873734	0.496273	0.639059
TXNDC17	0.036687	0.284352	0.044279	0.120109	0.790301	0.03717	0.74821	0.382411	-0.33996	0.588879	-0.237	0.511746	0.0104	0.999992	0.058492	0.999861
IL17RC	-0.00575	-0.09681	0.187081	-0.09386	0.966162	0.477845	0.163476	0.487409	0.032508	-0.15181	-0.03589	-0.18109	0.584909	0.156936	0.407466	0.114214
SEMA7A	-0.09035	-0.07258	0.010654	0.180739	0.503892	0.595	0.937304	0.178487	0.119279	-0.21406	0.198687	-0.09828	0.785104	0.076573	0.904634	0.257912
LMNB2	-0.05936	0.035538	0.137081	-0.05036	0.663881	0.796727	0.313721	0.712437	-0.20413	0.486836	-0.06391	0.296662	0.089313	0.999652	0.340112	0.976084
FCRLA	-0.00569	-0.07363	0.048708	0.100727	0.966819	0.593168	0.721475	0.460118	0.124717	-0.35312	0.147697	-0.25785	0.792829	0.008672	0.830658	0.043627
SFT2D3	-0.25999	0.079316	-0.18347	-0.05243	0.050809	0.561191	0.1719	0.698504	0.018103	-0.21691	0.236754	-0.19142	0.547526	0.07381	0.941309	0.101261
CILP	0.171366	-0.197	0.304416	-0.21455	0.202461	0.145604	0.021317	0.109003	0.289047	-0.25889	0.296228	-0.25686	0.972932	0.042967	0.974558	0.044256
C6orf105	0.041007	-0.23826	0.019902	0.176761	0.761996	0.077001	0.883175	0.188398	0.00616	-0.3037	0.09697	-0.13131	0.516017	0.021274	0.734405	0.194954
ANKRD26L	-0.16845	-0.20297	0.021511	-0.20066	0.210369	0.133545	0.873805	0.134491	-0.19335	-0.0004	0.105741	0.055158	0.098966	0.498956	0.755315	0.642101
USMG5	-0.01121	0.232474	-0.20061	-0.02046	0.934027	0.084681	0.134577	0.879901	-0.11201	0.357455	-0.22143	0.243613	0.229309	0.992633	0.071893	0.948605
ABHD14B	-0.06995	-0.01715	-0.08041	-0.16468	0.605137	0.900173	0.552117	0.220897	-0.21336	0.164224	-0.18051	0.136877	0.07968	0.85948	0.120492	0.815031
C14orf128	0.058229	-0.03661	0.05468	-0.10532	0.667018	0.788814	0.686228	0.435553	0.023082	-0.07801	-0.05814	-0.22771	0.56051	0.303161	0.352214	0.064004
ZNF496	0.145024	-0.07186	0.227665	-0.21379	0.281769	0.598665	0.088531	0.110302	0.054907	-0.21403	0.044346	-0.24627	0.641481	0.07661	0.613805	0.049485
RAX2	-0.14213	-0.1503	0.129704	-0.11316	0.291593	0.268865	0.336241	0.401964	-0.00445	-0.41365	0.046521	-0.3488	0.488298	0.002135	0.619229	0.008758
GALR3	-0.0321	-0.09178	0.231079	-0.20896	0.8126	0.501112	0.083728	0.118766	0.06811	-0.34605	0.166129	-0.32824	0.673557	0.009244	0.862291	0.012972
HPDL	0.031542	0.037957	0.241967	-0.26725	0.815826	0.781213	0.069772	0.044465	0.008633	-0.15909	0.196999	-0.17432	0.522703	0.145477	0.902697	0.123305
MGC15705	-0.05705	-0.15571	0.003969	-0.14059	0.673388	0.251827	0.976624	0.296907	-0.22257	-0.0597	-0.3318	-0.00159	0.068542	0.346743	0.012984	0.495821
PHF5A	0.079343	-0.2299	-0.02288	-0.02159	0.557419	0.088285	0.865823	0.873327	0.036304	-0.18384	0.023168	-0.13504	0.594652	0.11067	0.560038	0.185452
MGC16121	0.05557	-0.16163	0.28769	-0.11224	0.681392	0.234002	0.030007	0.405839	0.156573	-0.37582	0.106026	-0.27712	0.850628	0.005028	0.755903	0.031126
C9orf70	-0.13303	-0.22994	0.087274	-0.3758	0.323902	0.088227	0.518578	0.003967	-0.19899	-0.41637	0.004621	-0.46612	0.092457	0.002	0.512016	0.000548
TRIM52	-0.07629	-0.17395	0.111611	0.046063	0.576256	0.204032	0.412818	0.736036	0.118995	-0.2944	0.044395	-0.29725	0.784552	0.023516	0.613929	0.022419
LOC84856	-0.0033	-0.08629	0.215285	-0.13489	0.980557	0.527158	0.107774	0.317098	0.021162	-0.24238	0.101811	-0.22853	0.555509	0.052299	0.747128	0.063306
ZNF503	0.257911	-0.1527	0.129023	0.177174	0.052751	0.261197	0.338806	0.187351	0.280127	-0.06608	0.164495	-0.04382	0.970324	0.331297	0.859882	0.386241
LRCH3	0.061149	0.038685	-0.07906	0.179694	0.651371	0.777123	0.55882	0.181052	0.193537	-0.07767	-0.04319	-0.07418	0.901255	0.303946	0.389084	0.312094
KLHL22	0.069844	-0.0496	0.037535	-0.12863	0.605674	0.716599	0.781624	0.340293	0.026595	0.015337	0.115368	-0.03456	0.568836	0.539825	0.772085	0.410835
MINA	-0.11741	0.351633	-0.20388	0.142257	0.384424	0.007873	0.128216	0.291149	-0.03587	0.525873	-0.2195	0.343816	0.406466	0.999913	0.073708	0.990346
CCDC142	-0.01596	-0.0151	0.060284	0.388227	0.906178	0.912057	0.655991	0.002844	0.176495	0.162776	-0.11809	0.041823	0.879671	0.860117	0.219876	0.608714
TMEM25	0.325909	0.036022	0.252572	-0.08958	0.013361	0.792114	0.058027	0.507545	0.237586	-0.10369	0.136722	-0.0526	0.944072	0.246441	0.814757	0.364231
PTPN5	-0.04321	-0.06999	0.177479	-0.03486	0.74964	0.608274	0.186581	0.796858	0.212363	-0.16704	0.138604	-0.21856	0.921743	0.13359	0.818065	0.072243
HAVCR2	-0.19472	-0.24978	0.150227	0.399639	0.150405	0.065893	0.269106	0.002278	-0.05454	-0.26652	0.280855	-0.09467	0.359415	0.036695	0.969177	0.265721
CBR4	-0.00417	0.186151	-0.16511	0.007687	0.975451	0.16955	0.219682	0.954746	-0.01902	0.397037	-0.05887	0.307174	0.450084	0.996853	0.350452	0.981077
SIP1	0.086547	0.156271	-0.00513	-0.18604	0.52592	0.254564	0.970067	0.169819	-0.04731	0.026119	-0.18753	0.051197	0.377448	0.5684	0.108686	0.632282
RSPO3	0.175392	-0.28849	0.261848	0.183032	0.191897	0.031064	0.049115	0.172948	0.420099	-0.3457	0.222134	-0.22332	0.997967	0.01001	0.926363	0.070162
AGBL4	-0.14282	-0.20552	0.083503	-0.37566	0.289226	0.128624	0.536876	0.003981	-0.20726	-0.39044	-0.02172	-0.35773	0.08347	0.003652	0.443703	0.007326
ZC3H10	-0.15667	-0.19314	0.196501	-0.06278	0.244499	0.153822	0.142919	0.642681	-0.03571	-0.34271	0.005882	-0.16495	0.406875	0.009864	0.515296	0.136655
GPR128	0.026473	0.007782	0.179113	-0.29153	0.845022	0.954609	0.182492	0.027785	0.1841	-0.18762	0.209266	-0.26048	0.889668	0.105906	0.916149	0.040198

ZNF514	-0.22614	-0.06481	-0.1024	0.107515	0.090749	0.635079	0.448463	0.426005	0.051848	0.00023	-0.04386	-0.11999	0.633902	0.500605	0.387397	0.213508
PARP10	-0.06954	-0.30629	0.275209	-0.06635	0.610558	0.022946	0.040087	0.627082	-0.00947	-0.23735	0.127065	-0.08576	0.475109	0.056112	0.797231	0.285451
ORAI1	-0.12168	-0.16332	0.212861	-0.07705	0.367233	0.229097	0.111893	0.568901	-0.05857	0.013052	0.083914	-0.21758	0.351157	0.533907	0.705937	0.075538
ZBTB45	0.060706	0.088889	0.241216	-0.05913	0.656719	0.518698	0.073304	0.665096	-0.03253	0.331692	0.140753	0.036634	0.416009	0.986989	0.818936	0.594413
MFSD2	-0.43522	0.229385	-0.32572	-0.01127	0.000802	0.092059	0.014299	0.934317	-0.3272	0.152552	-0.16819	0.076114	0.014119	0.841447	0.137565	0.690384
RPUSD4	-2.42E-05	0.09083	-0.09047	0.043307	0.999858	0.505565	0.50331	0.749069	-0.02095	0.585407	-0.43292	0.304629	0.445045	0.99999	0.001488	0.980226
AIFM2	-0.16185	-0.07518	-0.12967	-0.11528	0.229053	0.581848	0.336386	0.393133	-0.29196	0.173112	-0.08609	0.119669	0.025824	0.872273	0.289228	0.783185
ZDHC12	-0.02069	0.153179	-0.01539	-0.08011	0.878561	0.259701	0.909559	0.553595	-0.1875	0.538549	-0.18688	0.208255	0.106049	0.999944	0.109495	0.917563
C1orf198	0.419827	0.04373	0.060209	0.027054	0.00115	0.748955	0.656392	0.841664	0.559143	-0.01545	0.384293	-0.10238	0.999973	0.459403	0.995424	0.249184
SPPL2A	0.035378	0.141287	-0.15332	0.346979	0.793892	0.298959	0.254844	0.008186	0.057284	0.282241	-0.04367	0.316969	0.647335	0.97131	0.387872	0.984076
SLC7A3	0.030748	-0.21585	0.190635	-0.17397	0.820383	0.110104	0.155479	0.195587	0.121256	-0.3389	0.266597	-0.25459	0.788936	0.010613	0.961658	0.043867
ADO	0.011446	0.321282	-0.09275	0.115226	0.932654	0.01576	0.492591	0.393374	0.052932	0.233315	-0.02149	0.237357	0.636593	0.940679	0.444296	0.943893
ZSCAN10	-0.08647	-0.13537	0.183415	-0.17468	0.522461	0.31985	0.172035	0.193747	-0.021	-0.37302	0.168479	-0.38435	0.444912	0.005336	0.865706	0.00418
C3orf39	0.000782	-0.19333	0.307953	-0.21912	0.995396	0.153395	0.019783	0.10149	-0.08485	-0.44284	0.250413	-0.26045	0.287506	0.001028	0.951452	0.040219
FBXO18	0.05741	0.226376	-0.18089	0.338856	0.671434	0.093407	0.178117	0.009926	0.128043	0.446888	-0.19508	0.257724	0.801789	0.999075	0.099543	0.958114
LINGO1	-0.07167	-0.17928	0.153924	-0.09907	0.596252	0.186135	0.252963	0.463446	0.193371	-0.42718	0.199103	-0.33727	0.901059	0.001534	0.905107	0.01095
FAM73B	-0.16706	0.041306	-0.04263	0.010082	0.214208	0.762452	0.752854	0.940663	-0.10019	0.263301	-0.11687	0.090765	0.253829	0.961469	0.222268	0.725713
ATAD1	-0.03838	0.316564	-0.27613	0.201056	0.776847	0.017454	0.037605	0.133699	-0.03862	0.417338	-0.13529	0.296947	0.399436	0.998047	0.187779	0.977466
TBRG1	-0.07016	0.315604	-0.13929	0.379474	0.604043	0.017817	0.301432	0.0036	0.185682	0.367523	-0.02875	0.193114	0.891674	0.994009	0.425655	0.900755
PLXDC2	0.340093	-0.13746	0.110576	0.266697	0.01033	0.316928	0.417192	0.046932	0.491103	-0.13683	0.283625	0.027216	0.999735	0.182262	0.97049	0.571244
TMTC4	-0.05567	0.241839	-0.17806	-0.15912	0.680828	0.072542	0.185125	0.237103	-0.16029	0.423401	-0.05455	0.289656	0.143638	0.998316	0.360966	0.974564
RGS5	0.251359	-0.21797	0.079948	0.32116	0.059284	0.106568	0.554409	0.014855	0.414246	-0.23079	0.443922	0.055152	0.997895	0.061402	0.998873	0.642087
RNFT2	-0.30433	0.006555	-0.06877	-0.43235	0.021355	0.96176	0.611257	0.000783	-0.27393	-0.30607	0.17002	-0.27883	0.032723	0.019289	0.867915	0.030294
NFATC2IP	-0.09132	0.053559	-0.06244	0.120125	0.499302	0.695027	0.644474	0.373432	-0.03556	0.28676	-0.14731	0.168212	0.407255	0.973331	0.167108	0.868101
CCDC123	-0.09513	-0.07807	-0.12349	-0.31031	0.481472	0.567362	0.360079	0.018814	-0.35278	-0.06198	-0.01076	-0.02953	0.008092	0.34121	0.472024	0.422776
C9orf100	0.008479	0.0338	0.129592	-0.15485	0.950089	0.804674	0.33666	0.250082	-0.01322	0.076963	0.119287	-0.07444	0.465255	0.694407	0.782445	0.311477
ZNF341	-0.10048	-0.14036	0.201716	-0.08251	0.457081	0.302158	0.132402	0.54174	-0.10168	-0.35997	-0.04074	-0.2447	0.250673	0.007	0.395224	0.050607
FAM136A	-0.08528	0.300592	-0.23536	0.12643	0.528199	0.024384	0.078002	0.348684	0.07691	0.438594	-0.16492	0.215021	0.694283	0.998852	0.139484	0.924365
C9orf3	-0.1106	0.108375	-0.14827	-0.10717	0.412767	0.42658	0.271011	0.427503	-0.17376	0.150612	-0.23902	0.053972	0.12407	0.841127	0.056903	0.639169
MAP4K3	-0.0004	0.290132	-0.21109	0.071217	0.997633	0.030077	0.114982	0.598588	0.080285	0.306635	-0.0012	0.188969	0.702079	0.980899	0.496885	0.895758
TMEM87B	-0.04452	0.420629	-0.22428	0.187608	0.7423	0.001247	0.0935	0.162271	-0.04745	0.556711	-0.22091	0.365906	0.377082	0.999971	0.07238	0.993804
ZNF382	0.090011	-0.17419	-0.03898	-0.10747	0.505494	0.199163	0.77346	0.426178	0.029526	-0.35505	0.072058	-0.17387	0.57722	0.007733	0.680962	0.123913
SLC35B4	-0.02065	0.378847	-0.29554	0.154346	0.878804	0.003986	0.025619	0.251647	0.065106	0.512083	-0.1495	0.423794	0.666356	0.999863	0.163504	0.998332
ATOH8	0.124919	-0.39227	0.20711	-0.03254	0.35452	0.002789	0.122148	0.810113	0.192957	-0.3709	0.144877	-0.34609	0.897948	0.006066	0.825955	0.009935
ZNF587	-0.02459	0.298814	-0.06072	0.24223	0.855924	0.025282	0.653685	0.06946	0.143163	0.466581	-0.14375	0.316616	0.828729	0.999459	0.173081	0.983975
C12orf34	-0.03489	-0.09378	0.146643	-0.18046	0.796653	0.491766	0.276374	0.179172	0.179444	-0.37516	0.198516	-0.34196	0.883618	0.0051	0.904439	0.010007
CIRH1A	-0.02507	0.392055	-0.37948	0.173542	0.853117	0.002805	0.0036	0.196701	-0.03787	0.602121	-0.26154	0.441571	0.401339	0.999995	0.041331	0.998937
LRP11	-0.13574	0.027416	-0.07663	-0.23114	0.314033	0.841035	0.571028	0.083647	-0.28571	-0.13578	0.00393	-0.13391	0.028551	0.186906	0.5101	0.190244
PPP1R15B	-0.05359	0.163189	-0.20164	0.229498	0.694872	0.233871	0.136149	0.088856	-0.06887	0.496181	-0.26137	0.327787	0.326533	0.999736	0.043286	0.98603
PRSS12	-0.20653	-0.04074	-0.09634	-0.23725	0.123217	0.765615	0.475932	0.075571	-0.30024	-0.0882	-0.02354	-0.09587	0.021315	0.279982	0.439017	0.263118
ALG10	-0.01655	-0.07719	0.105549	-0.06917	0.902756	0.571772	0.43456	0.609152	-0.10352	0.050465	-0.09992	-0.11947	0.246785	0.630456	0.25686	0.214521
FIZ1	0.008734	-0.0125	0.3189	-0.02123	0.948588	0.927166	0.015615	0.875447	0.022382	-0.27237	0.154091	-0.23976	0.558689	0.033533	0.843905	0.054262
FAM104A	-0.05923	0.404177	-0.17697	0.139915	0.661663	0.002006	0.187873	0.299249	0.201031	0.300009	0.04918	0.244079	0.907278	0.977373	0.624386	0.946931
ZNF566	0.030005	0.245592	-0.12913	0.141846	0.824655	0.068085	0.338411	0.292562	-0.08491	0.401142	0.004006	0.271532	0.287378	0.997135	0.510417	0.96603
DIRC2	-0.03224	0.368803	-0.28339	0.110732	0.811818	0.005159	0.032664	0.412209	-0.14343	0.528217	-0.25843	0.339418	0.170807	0.999919	0.043261	0.989491
SPRYD3	-0.03865	-0.08645	0.088246	-0.17548	0.777306	0.530256	0.517798	0.1958	-0.21038	0.042088	-0.11656	-0.09604	0.080253	0.609386	0.222872	0.262746
TMEM209	0.077566	0.158956	-0.18786	0.071737	0.566306	0.241941	0.161691	0.595913	-0.12454	0.433088	-0.15743	0.359324	0.204791	0.998678	0.150847	0.992907
FIBCD1	0.121011	-0.17609	0.302935	-0.17279	0.369891	0.194211	0.02199	0.198684	0.152682	-0.40492	0.211299	-0.30811	0.844469	0.002624	0.918241	0.018616
PPM1D	0.225828	0.114707	-0.10222	0.203894	0.091203	0.399892	0.44929	0.128186	0.343498	0.224876	0.049987	-0.08722	0.990286	0.933519	0.627821	0.282181
MASTL	0.067973	0.511025	-0.13713	0.095308	0.615389	5.71E-05	0.309069	0.480669	0.086484	0.637626	-0.16538	0.355108	0.716167	0.999999	0.138812	0.992276

LOC84931	-0.12631	0.145232	0.114402	-0.24076	0.349163	0.285529	0.396791	0.07122	0.010519	-0.02197	0.024637	-0.13468	0.527657	0.442386	0.563812	0.186101
RAB2B	-0.12654	0.184967	-0.1691	0.20997	0.34825	0.172331	0.208569	0.116962	0.114089	0.022004	-0.0933	-0.11161	0.774865	0.557704	0.271074	0.230123
C8orf76	-0.18481	0.217147	-0.22001	0.120451	0.168749	0.107929	0.100084	0.372127	-0.11436	0.368615	-0.12006	0.102271	0.224592	0.994144	0.216056	0.750581
C12orf52	-0.25104	-0.17161	0.007623	-0.12456	0.059613	0.206002	0.955118	0.355898	-0.2827	-0.28697	0.052451	-0.24858	0.028479	0.026579	0.633894	0.047877
C13orf33	0.008569	-0.3587	0.104859	0.160782	0.949559	0.006633	0.43759	0.232173	0.069814	-0.26801	0.398215	-0.23699	0.677613	0.035865	0.996628	0.056396
ZFYVE19	-0.17132	0.017791	-0.05806	-0.1728	0.202577	0.896454	0.667925	0.198646	-0.3067	0.097512	-0.08439	0.033727	0.01908	0.740439	0.290759	0.588045
ZNRF1	-0.18213	0.15756	-0.19433	-0.16707	0.175105	0.246154	0.147474	0.214178	-0.399	0.403067	-0.22785	0.167377	0.003009	0.99726	0.066115	0.866894
ATG4C	0.127126	0.081335	-0.1267	0.188654	0.346014	0.551231	0.34766	0.1599	0.150544	0.132949	-0.00879	0.229737	0.841016	0.81079	0.477139	0.937718
MUM1	0.126876	-0.23569	0.221641	-0.16096	0.346973	0.08034	0.097528	0.231639	0.269681	-0.29585	0.319592	-0.21583	0.965044	0.022953	0.983824	0.074853
CORO6	0.093706	-0.03843	0.281718	-0.14853	0.488111	0.778584	0.033753	0.270177	0.350555	-0.43736	0.257362	-0.47203	0.991541	0.001185	0.956065	0.000463
HSH2D	-0.00249	-0.02567	0.167202	0.223655	0.985361	0.851038	0.213812	0.094444	0.000559	0.122844	0.117368	0.085473	0.50147	0.791984	0.778706	0.713892
WDR73	-0.17677	0.094051	-0.1093	-0.12252	0.188367	0.490526	0.418314	0.363905	-0.20939	0.133978	-0.1001	0.06299	0.081271	0.812645	0.256479	0.661249
MAEL	0.068008	-0.05564	0.224752	-0.26329	0.618465	0.686585	0.095845	0.049927	0.051749	-0.41347	0.199231	-0.25388	0.633655	0.002144	0.905252	0.044326
ABHD13	0.014956	0.190106	-0.19102	0.280066	0.912076	0.160506	0.154637	0.034856	0.171746	0.347783	-0.20211	0.244509	0.870359	0.990383	0.094144	0.947248
LTV1	-0.11686	0.275165	-0.38444	0.313572	0.386653	0.04012	0.003152	0.017539	-0.11653	0.578496	-0.27173	0.470609	0.220295	0.999987	0.035485	0.999518
SERAC1	-0.02687	0.28684	-0.23525	-0.11207	0.842726	0.032084	0.078148	0.406556	-0.19751	0.286233	-0.10232	0.086313	0.094129	0.973101	0.251796	0.715783
TIGD5	0.031772	-0.11457	0.285724	-0.07146	0.814502	0.40047	0.0312	0.597349	0.05176	-0.32742	0.154204	-0.18814	0.633682	0.013169	0.844084	0.105258
PPFIBP2	0.077692	0.258082	-0.16026	-0.02726	0.565675	0.054805	0.233702	0.840483	-0.02398	0.548232	-0.12643	0.204199	0.437142	0.99996	0.203959	0.913279
PRPF38A	0.090494	0.192691	-0.29563	0.12212	0.503207	0.154789	0.025569	0.365489	0.183593	0.406223	-0.18788	0.247439	0.88902	0.997455	0.108249	0.951333
TNS4	0.103615	0.028612	0.001074	0.186243	0.443072	0.834196	0.993674	0.165404	0.144676	0.38456	-0.17035	0.213999	0.831295	0.99584	0.13161	0.923364
CGNL1	0.373295	-0.45071	0.318797	0.134865	0.004236	0.000491	0.01565	0.317201	0.380965	-0.50445	0.426279	-0.27918	0.9955	0.000175	0.998249	0.030129
MICALCL	-0.27031	0.034103	-0.12492	-0.13047	0.041988	0.802956	0.354532	0.333379	-0.27852	-0.21197	-0.08089	-0.12511	0.030444	0.078647	0.298663	0.203713
MPND	-0.02242	-0.23156	0.135282	-0.16006	0.868511	0.085942	0.315692	0.234305	0.00594	-0.16163	0.113055	-0.32888	0.515626	0.141602	0.770178	0.012817
NUDCD1	0.00647	0.076035	-0.22672	0.351837	0.9619	0.577551	0.089891	0.007278	-0.0355	0.454724	-0.18807	0.413444	0.407407	0.99925	0.108015	0.997855
RELT	-0.06335	-0.17383	0.107744	0.076536	0.639665	0.200091	0.425015	0.571487	-0.04236	-0.24737	0.099284	-0.09253	0.389926	0.048717	0.741793	0.270389
SYTL1	-0.08229	0.01745	0.008557	-0.14913	0.542833	0.898427	0.949628	0.268232	-0.23794	0.207156	-0.1859	0.094555	0.055652	0.916418	0.110727	0.734033
UBASH3B	0.053586	0.157132	-0.01727	0.355627	0.692187	0.247458	0.898559	0.006631	-0.04573	0.158504	0.078208	0.137604	0.381422	0.853625	0.695204	0.8191
PPFIBP1	0.245454	0.166994	-0.15963	0.333322	0.065718	0.218642	0.235592	0.011287	0.397955	0.37451	0.070001	0.351945	0.996918	0.99483	0.676139	0.991771
KIAA1984	-0.16954	-0.16813	0.117607	-0.21811	0.20738	0.215488	0.383606	0.103124	0.094038	-0.34426	0.115204	-0.40903	0.732904	0.009572	0.774448	0.002383
FBXL20	0.051478	0.054748	-0.00686	-0.12562	0.703727	0.688601	0.959613	0.351787	-0.04282	-0.04692	0.084042	-0.114	0.388764	0.378428	0.708456	0.225309
JUB	0.126985	0.028118	-0.0482	0.225443	0.346553	0.83702	0.721796	0.091771	-0.03818	0.404531	-0.152	0.333547	0.400552	0.997352	0.159445	0.988252
ALKBH6	-0.06729	-0.08228	0.070607	0.014657	0.618937	0.546603	0.60173	0.913827	-0.10094	0.114923	-0.04588	-0.001	0.252239	0.776527	0.382359	0.497357
IGSF21	0.185819	-0.18246	0.395786	-0.0712	0.166386	0.17833	0.002308	0.598682	0.301673	-0.33935	0.282559	-0.34125	0.979199	0.010522	0.96999	0.010145
LSM10	-0.12661	-0.07235	-0.05953	0.297787	0.347981	0.596176	0.660019	0.024465	-0.01895	-0.02192	0.073976	0.086382	0.450833	0.443176	0.6834	0.713697
PNMA6A	0.12147	-0.18214	0.172348	-0.19275	0.368065	0.179109	0.199847	0.150871	0.202386	-0.38955	0.201723	-0.2481	0.911312	0.003725	0.908048	0.048206
TOX2	0.127122	-0.04453	0.253544	-0.14766	0.34603	0.744498	0.057037	0.273009	0.170381	-0.12624	0.461899	-0.0872	0.868428	0.204303	0.999201	0.284484
PPFIA4	0.111444	-0.30236	0.286777	-0.17041	0.409191	0.023516	0.030556	0.205035	0.220384	-0.5069	0.263183	-0.47808	0.929455	0.000162	0.959659	0.000389
C1orf94	-0.04349	-0.20182	0.139583	-0.22687	0.748021	0.135803	0.300408	0.089682	0.110005	-0.19661	0.102481	-0.25462	0.766623	0.09517	0.748535	0.043851
ATG4D	-0.11306	0.13911	-0.01862	-0.12537	0.402378	0.30654	0.890649	0.352776	-0.12464	0.289955	-0.18201	0.083694	0.204606	0.974689	0.11573	0.709866
MFSD5	-0.1024	-0.0221	-0.05617	0.075826	0.452665	0.872781	0.68094	0.5786	-0.2825	0.4521	-0.47608	0.277495	0.028573	0.999195	0.000474	0.969058
DISP1	0.162075	0.365671	-0.24928	-3.05E-05	0.228391	0.005582	0.061489	0.99982	0.116502	0.422654	-0.04037	0.329083	0.77966	0.998284	0.396162	0.98723
FRMD5	0.123873	-0.20555	0.166073	-0.12566	0.358597	0.128572	0.216966	0.351638	0.273547	-0.47471	0.277897	-0.57673	0.967078	0.000429	0.967722	1.36E-05
RANBP3	0.137467	-0.05239	0.121914	-0.00652	0.312344	0.704022	0.370739	0.961962	-0.2421	0.480639	-0.12434	0.291074	0.052507	0.999639	0.207879	0.975151
C17orf91	0.124885	0.148513	0.018609	0.020541	0.35465	0.27467	0.89072	0.879456	0.348256	0.069912	0.039553	-0.22173	0.99047	0.675929	0.600604	0.071615
C3orf34	-0.14166	-0.07539	-0.09072	-0.22754	0.293188	0.580797	0.502158	0.088705	-0.35411	-0.11361	-0.0843	-0.04046	0.007881	0.226102	0.290964	0.394754
FAM83A	-0.15136	0.353473	-0.23339	-0.17274	0.261061	0.007532	0.080598	0.198815	-0.14525	0.622152	-0.18125	0.210228	0.167731	0.999998	0.116723	0.919591
ARHGAP19	0.121488	0.112471	-0.15408	0.184803	0.372427	0.413616	0.256887	0.172717	-0.08035	0.512472	-0.19066	0.331556	0.297761	0.999864	0.104828	0.987805
C12orf62	-0.0415	-0.11059	-0.03349	0.020815	0.75924	0.417114	0.80467	0.877859	-0.19866	0.314779	-0.31157	0.185806	0.092824	0.983442	0.018606	0.891829
PPP1R16A	-0.16895	-0.17094	0.07309	-0.25289	0.209003	0.20781	0.588978	0.057703	-0.32201	-0.16587	-0.04938	-0.09726	0.014541	0.1353	0.373682	0.260106
PPFIA2	0.370938	-0.17012	0.31694	0.044396	0.004887	0.214337	0.017314	0.74526	0.239882	-0.39164	0.458718	-0.31306	0.945833	0.003556	0.999236	0.01707

RBM17	0.004975	0.252241	-0.18323	0.247901	0.970699	0.060727	0.172474	0.062986	-0.02942	0.34618	-0.21067	0.296715	0.423045	0.99078	0.082399	0.977378
PIGY	0.025965	0.115861	-0.29425	0.201977	0.84796	0.395138	0.026302	0.131892	0.059445	0.33882	-0.32689	0.332729	0.652628	0.98937	0.014199	0.98807
UBL7	-0.044	0.058307	-0.04266	0.094416	0.745167	0.669486	0.752678	0.484805	-0.16626	0.331712	-0.23648	0.090411	0.134727	0.98784	0.058908	0.724928
C21orf119	-0.25181	-0.09268	-0.02326	-0.24922	0.058815	0.496884	0.86362	0.061556	-0.3274	-0.1682	-0.1552	-0.14393	0.013173	0.131912	0.154333	0.169961
PPFIA1	-0.0725	0.30634	-0.3219	0.038626	0.595429	0.022925	0.015551	0.777453	0.14373	0.059611	-0.17333	-0.0206	0.82689	0.651352	0.130251	0.446569
RERG	0.352703	-0.00257	-0.06625	0.241613	0.007125	0.984986	0.624396	0.070195	0.496623	0.167831	0.111804	0.146857	0.99974	0.86477	0.76502	0.832141
AGXT2L2	-0.09049	-0.00244	0.030282	0.250281	0.503213	0.985735	0.823059	0.060419	0.045212	0.061887	-0.09495	0.140686	0.614634	0.655081	0.272377	0.818821
MGC16025	-0.16041	0.160991	0.07605	0.146953	0.233257	0.235889	0.573938	0.275349	0.08475	-0.2666	0.236573	-0.32987	0.710047	0.038339	0.938961	0.013453
SLC43A1	0.302692	-0.35766	0.357972	0.10397	0.022101	0.006805	0.006257	0.441506	0.41705	-0.30424	0.250505	-0.18577	0.997814	0.021082	0.949507	0.110899
TCEAL3	-0.01242	-0.32268	0.266432	-0.08872	0.926963	0.015288	0.045142	0.51165	-0.00297	-0.38864	0.173731	-0.22546	0.492178	0.003802	0.873135	0.065966
TMEM128	-0.10672	0.253418	-0.2885	0.3023	0.429435	0.059494	0.029529	0.022283	-0.12863	0.558421	-0.17213	0.34072	0.197125	0.999972	0.129095	0.98975
TMEM141	-0.02137	-0.12993	0.037352	-0.22567	0.874624	0.339882	0.782666	0.091434	-0.09154	-0.06407	-0.08264	-0.06525	0.272582	0.336131	0.294698	0.333291
USP45	-0.00244	0.195837	-0.16481	0.062388	0.985612	0.148036	0.220536	0.644775	0.094474	0.169324	-0.01026	0.144603	0.733856	0.869696	0.473323	0.831172
C11orf70	-0.08828	-0.06423	0.004573	-0.08645	0.513771	0.638164	0.973065	0.522543	-0.24075	-0.13474	0.034017	-0.01256	0.053514	0.185991	0.587779	0.466996
C18orf45	0.034738	-0.05664	-0.05585	0.216027	0.797538	0.678408	0.679851	0.106538	-0.167	0.341187	-0.07177	0.28209	0.133647	0.989842	0.319717	0.971241
PKP4	0.088179	0.089077	-0.03503	0.347498	0.514233	0.513851	0.795848	0.008084	0.155556	0.385404	-0.19635	0.345761	0.849033	0.995916	0.098053	0.990704
REPS1	0.020501	0.367339	-0.31252	0.164849	0.879689	0.005353	0.017941	0.22042	0.1031	0.547997	-0.26134	0.288944	0.752327	0.99996	0.041456	0.974265
TMEM60	0.192582	0.165512	-0.13767	0.079353	0.151223	0.222817	0.307143	0.55737	0.054951	0.238544	-0.17061	0.266828	0.64159	0.944812	0.131242	0.963479
C9orf37	-0.0835	-0.11647	0.257523	-0.04777	0.536901	0.392661	0.053121	0.724214	0.065764	-0.06484	0.108209	0.033658	0.667939	0.334289	0.760386	0.587866
MST150	0.113576	0.011205	0.149844	0.131601	0.400229	0.934674	0.265909	0.329159	0.245517	-0.3347	0.120156	-0.15158	0.949977	0.011496	0.784125	0.157306
PIK3R3	-0.05032	0.075361	-0.16334	0.136853	0.710076	0.580936	0.224742	0.310054	-0.18137	0.276258	0.079146	0.425996	0.113848	0.968448	0.697351	0.99842
PEX3	0.038102	0.134032	-0.2093	0.111119	0.778407	0.324705	0.118155	0.410567	-0.00885	0.304501	-0.0544	0.218076	0.476734	0.980182	0.361327	0.927296
CNTNAP1	0.090343	-0.15315	0.236435	0.06432	0.507861	0.264285	0.079365	0.637671	0.066626	0.041155	0.101424	0.121003	0.670006	0.607021	0.746314	0.788448
ENC1	-0.13812	-0.2185	-0.19522	0.429397	0.305551	0.105696	0.145602	0.000859	-0.1492	0.292903	-0.14906	0.352126	0.161185	0.975892	0.164224	0.991801
NIPSNAP1	-0.06957	0.20492	-0.11916	-0.00851	0.607077	0.129766	0.377316	0.949901	-0.0384	0.486528	-0.14112	0.417676	0.399983	0.999696	0.177572	0.998062
NDST2	-0.06578	0.010933	0.084441	0.32403	0.630061	0.936854	0.536079	0.01484	-0.07738	-0.01251	-0.01322	0.204291	0.306697	0.46749	0.466065	0.910866
MBL1P1	-0.10547	0.081639	0.046693	0.144591	0.434893	0.549739	0.73017	0.283224	0.027412	-0.191	0.15287	-0.15519	0.571751	0.101769	0.841957	0.151545
LIPF	0.063182	-0.04365	0.063481	-0.26505	0.643645	0.751675	0.642072	0.048359	0.046552	-0.21875	0.103202	-0.12048	0.620657	0.072073	0.750042	0.212566
KCNAB2	-0.0917	-0.37291	0.070895	0.235521	0.497494	0.004647	0.600243	0.077791	-0.20671	-0.31895	0.114078	-0.11906	0.084053	0.015368	0.772216	0.215319
ITGA10	0.381727	-0.22002	0.351203	-0.07565	0.003697	0.106516	0.007954	0.579508	0.571455	-0.30453	0.217662	-0.41096	0.999975	0.022222	0.91956	0.002793
ITGA8	0.311972	-0.18029	0.107655	0.271464	0.018155	0.183639	0.425399	0.041089	0.224573	-0.24587	0.221222	-0.04775	0.933251	0.04977	0.927911	0.376335
IKBKG	-0.11009	-0.13529	-0.01941	-0.09987	0.414938	0.320144	0.886051	0.459796	-0.02739	-0.15873	-0.01715	-0.28381	0.428297	0.146029	0.455489	0.027973
IKBKAP	-0.06769	0.078679	-0.12121	-0.03618	0.616859	0.564349	0.369103	0.789341	-0.09334	0.102094	-0.14009	0.049093	0.268615	0.750208	0.179344	0.627029
IFITM1	0.077181	-0.17238	0.040954	0.657821	0.568237	0.203939	0.762294	2.70E-08	0.1464	0.156106	0.045617	0.376327	0.831379	0.847087	0.615634	0.994581
HAT1	0.044234	0.189869	-0.26969	0.099804	0.743877	0.161039	0.042482	0.460116	-0.18427	0.336187	-0.20348	0.262808	0.11011	0.988824	0.090015	0.961181
GCM1	-0.04056	-0.16343	0.277725	-0.15677	0.764514	0.228772	0.036469	0.244187	0.141729	-0.34307	0.285092	-0.21166	0.826276	0.009795	0.971168	0.078964
GAS7	-0.06665	-0.48255	0.087961	-0.07066	0.622287	0.000166	0.515278	0.601453	0.170023	-0.4793	0.228299	-0.36499	0.870692	0.000376	0.934271	0.006315
HIST1H2AF	-0.03186	0.096246	-0.10849	-0.14377	0.813978	0.480416	0.421808	0.285985	-0.0412	0.332384	-0.05891	0.264451	0.392866	0.987993	0.350341	0.962134
HIST1H2BK	-0.15731	0.199288	-0.35325	0.014022	0.242537	0.140883	0.00703	0.917545	0.145759	0.244302	-0.09841	0.310367	0.833116	0.949105	0.260062	0.982102
DGKZ	-0.17079	-0.08604	0.059492	0.016448	0.204011	0.528351	0.660232	0.903342	-0.05539	0.039992	-0.10133	-0.01259	0.357332	0.604064	0.253886	0.46691
DGKE	0.029184	0.286853	-0.1497	0.196006	0.829377	0.032076	0.266382	0.143948	0.33792	-0.04242	-0.03122	0.163204	0.989186	0.389776	0.419344	0.860758
DGKD	0.013939	-0.09657	0.235753	0.074875	0.918034	0.478914	0.077489	0.579887	0.165253	-0.31571	0.247871	-0.20992	0.863794	0.016287	0.949675	0.080719
DDO	-0.16471	-0.19817	0.036646	-0.19445	0.220802	0.143179	0.786675	0.147214	-0.16318	-0.29433	0.084839	-0.15683	0.139278	0.023543	0.710246	0.148973
KRTAP9-4	-0.0395	0.102657	-0.1302	-0.22652	0.770521	0.451524	0.33437	0.090194	-0.11948	0.129403	0.045335	-0.19212	0.214506	0.804309	0.616275	0.100425
KRTAP4-1	0.09753	-0.05731	0.217577	-0.30753	0.474551	0.677688	0.107215	0.02113	0.122063	-0.39157	0.203869	-0.32081	0.790488	0.003561	0.910408	0.014861
KRTAP4-5	-0.10872	0.001412	-0.10193	-0.07152	0.420789	0.99176	0.450569	0.597014	0.094596	-0.1981	-0.0886	-0.19479	0.734122	0.093459	0.28138	0.097279
CYP4F2	0.008922	0.115193	0.002108	-0.28721	0.947482	0.397885	0.987583	0.030293	0.106004	-0.28016	-0.02304	-0.12931	0.755858	0.031163	0.441003	0.198619
KRTAP4-3	0.042097	0.005571	0.157819	-0.15295	0.755861	0.967494	0.241006	0.256006	0.176614	-0.21424	0.069375	-0.25635	0.879832	0.076399	0.674665	0.042746
KRTAP4-2	0.205602	-0.17162	0.349276	-0.22673	0.128468	0.210264	0.008329	0.092882	0.191236	-0.26843	0.245567	-0.22247	0.898512	0.035637	0.948021	0.068634
KRTAP3-3	-0.03599	-0.05227	0.166412	-0.26927	0.792269	0.704698	0.220277	0.04477	-0.09423	-0.36322	-0.05018	-0.28313	0.266666	0.00655	0.371698	0.028284

KRTAP2-4	-0.16329	0.077304	0.094336	-0.23614	0.229179	0.574813	0.48921	0.079746	-0.09615	-0.28333	0.19607	-0.39426	0.262496	0.028194	0.90162	0.003352
CST7	-0.09563	-0.22369	0.221816	0.303697	0.479186	0.097473	0.097256	0.021642	0.000608	-0.47189	0.113831	-0.25073	0.501599	0.000465	0.771725	0.046411
ATCAY	-0.06799	-0.02076	0.211372	-0.09936	0.615279	0.879275	0.114484	0.462138	0.112912	-0.30214	0.168767	-0.32033	0.772506	0.020635	0.866121	0.014989
COL27A1	0.14903	-0.25715	0.179681	-0.09965	0.268546	0.055713	0.181085	0.460829	0.188713	-0.08891	0.089373	-0.07315	0.892788	0.28068	0.718004	0.316483
FBF1	-0.12949	-0.11136	0.106782	-0.44323	0.337041	0.413857	0.429184	0.000555	-0.09726	-0.34817	-0.07802	-0.41379	0.262527	0.009546	0.307337	0.00236
CSDA	-0.18123	0.344066	-0.32518	0.067421	0.177291	0.009418	0.01358	0.618266	0.211975	0.19766	-0.02803	0.018438	0.918929	0.903459	0.428329	0.547843
PPIL4	-0.0315	0.061003	-0.26906	0.072462	0.817759	0.658177	0.044943	0.595608	0.117452	0.149085	0.061146	0.067183	0.78153	0.838634	0.655057	0.67134
PAQR8	-0.19451	0.210745	0.037823	-0.23901	0.147089	0.11898	0.779989	0.073363	0.078253	0.078886	-0.06533	0.004635	0.697395	0.698859	0.334919	0.512193
BAGE4	0.128541	-0.02936	-0.04215	-0.1931	0.340628	0.829894	0.755537	0.150108	0.32194	-0.17021	0.233169	-0.18205	0.983461	0.134655	0.933807	0.118453
CPZ	0.003666	-0.0557	0.18476	0.002515	0.978407	0.683452	0.168859	0.985184	0.105063	-0.39085	0.198063	-0.27496	0.756438	0.003619	0.903921	0.032201
ABCC11	0.045978	-0.22169	0.073404	-0.38738	0.736503	0.103817	0.590824	0.003182	-0.01189	-0.17298	-0.01168	-0.21611	0.468753	0.125145	0.469642	0.074576
LGALS12	-0.14244	-0.19289	0.116508	-0.21615	0.290513	0.15436	0.388099	0.106335	0.082411	-0.39895	0.088532	-0.41397	0.706947	0.003013	0.718475	0.002119
COPS3	-0.07322	0.209982	-0.34115	0.095531	0.591777	0.123874	0.01008	0.483696	-0.12771	0.540982	-0.33197	0.341418	0.198831	0.999948	0.012945	0.989887
CHST1	0.006444	-0.12608	0.179668	-0.13363	0.962403	0.354503	0.185172	0.326155	0.462344	-0.38228	0.32277	-0.31221	0.999392	0.004373	0.984711	0.017327
CBX4	0.050106	-0.1768	0.208348	-0.02792	0.711276	0.192392	0.119882	0.83668	0.081084	-0.1792	0.074415	-0.09796	0.703912	0.116705	0.686452	0.258601
KIAA1644	0.130482	-0.055	0.230608	-0.12035	0.333326	0.687251	0.084379	0.37255	0.11479	-0.14736	0.160145	-0.09473	0.776264	0.164215	0.853338	0.265577
SHANK3	0.184939	-0.23622	0.263998	0.102291	0.16844	0.079649	0.047218	0.448953	0.253469	-0.19932	0.093122	-0.0618	0.955405	0.092085	0.728548	0.341632
DGCR6L	-0.12857	-0.15166	0.085821	-0.10517	0.340529	0.264508	0.525588	0.436214	-0.02099	-0.28777	-0.10452	-0.23663	0.444951	0.026233	0.247219	0.056674
CAMK1	0.141478	-0.23669	0.203424	-0.01928	0.293827	0.079039	0.129087	0.886782	0.054316	-0.27455	0.166161	-0.10165	0.64002	0.032412	0.862338	0.250724
SYDE1	0.210861	-0.26364	0.317703	0.003255	0.115382	0.049609	0.01603	0.980828	0.34609	-0.45393	0.201218	-0.27816	0.990764	0.000766	0.907485	0.030618
TRIM5	0.06663	0.140089	0.021238	0.377545	0.622402	0.303115	0.875395	0.003789	0.090347	0.3432	0.009292	0.296509	0.722478	0.989502	0.523867	0.976024
ZCCHC3	-0.00616	-0.19612	0.262956	-0.15696	0.963739	0.147429	0.04813	0.243597	0.142508	-0.3727	0.255536	-0.22259	0.827612	0.005373	0.954887	0.068522
ALG2	-0.01044	0.122375	-0.09429	0.287974	0.938557	0.36892	0.485412	0.029838	0.074819	0.333344	-0.08613	0.317622	0.689408	0.988207	0.286865	0.984261
MYLK2	-0.11046	-0.12158	0.284708	-0.10186	0.413386	0.372075	0.031832	0.450861	-0.10315	-0.26735	0.134058	-0.24704	0.247576	0.036233	0.810016	0.048946
FAM40A	-0.02773	0.125229	-0.06267	0.270426	0.839213	0.362303	0.646328	0.043824	-0.09553	0.639469	-0.12985	0.343442	0.263844	0.999999	0.19761	0.990275
BCAS1	-0.23513	0.047372	-0.10673	-0.29077	0.081093	0.731263	0.433672	0.029703	-0.34449	0.092602	-0.11282	-0.0888	0.009528	0.729762	0.230297	0.278645
KIAA1656	-0.03586	-0.09503	0.111332	-0.18686	0.791123	0.486017	0.409667	0.16398	0.068707	-0.28818	0.198441	-0.24765	0.67498	0.026059	0.904354	0.048522
MICALL1	0.095918	-0.05148	0.124853	0.020924	0.477855	0.706324	0.354776	0.877222	0.063768	0.257744	-0.11813	0.197025	0.66313	0.958127	0.219798	0.90531
TUBGCP6	-0.03003	-0.17637	0.090447	0.03853	0.824497	0.1935	0.503428	0.775984	0.003032	-0.10415	-0.01477	-0.09879	0.507978	0.245462	0.46164	0.25682
CTA-221G9	-0.01426	0.105134	0.008403	-0.25268	0.916177	0.440619	0.950533	0.057914	-0.19385	0.310183	-0.11955	0.064152	0.098374	0.982044	0.217045	0.664059
BARX2	-0.02187	-0.18048	0.019633	-0.22089	0.871714	0.183167	0.884748	0.098703	-0.06667	-0.05829	-0.01975	-0.2974	0.331735	0.351841	0.449384	0.023625
LOC85389	0.185743	-0.04655	0.16548	0.339302	0.166564	0.733339	0.218635	0.009823	0.146409	0.279954	-0.07635	0.174541	0.834204	0.970242	0.309071	0.877005
API5	-0.03962	0.294235	-0.33132	0.235162	0.769843	0.027724	0.011817	0.078257	-0.0245	0.504437	-0.22879	0.428096	0.4358	0.999825	0.065302	0.998501
LOC85391	0.030476	0.157428	-0.05444	0.215792	0.821945	0.246557	0.687542	0.106928	0.126325	0.235016	0.010339	0.187355	0.79858	0.942048	0.52687	0.893766
C21orf70	-0.04545	-0.01345	0.171746	-0.12045	0.737109	0.921635	0.201445	0.372127	0.102924	-0.25386	0.122158	-0.18432	0.751958	0.044341	0.787971	0.110056
RGS8	-0.09431	-0.1308	0.15874	-0.34906	0.48531	0.336604	0.238236	0.007785	0.105552	-0.3913	0.208259	-0.36534	0.754925	0.003931	0.912545	0.006798
AGPS	-0.08084	0.32481	-0.2944	0.05872	0.549978	0.014588	0.026219	0.664376	-0.11227	0.464577	-0.13041	0.426369	0.228792	0.999428	0.196601	0.998435
EAF1	-0.24873	0.141688	-0.41703	-0.03119	0.06208	0.297575	0.00125	0.817846	-0.31605	0.395868	-0.35821	0.26565	0.016188	0.996768	0.007844	0.962817
DNAJC14	-0.07607	0.15292	-0.09656	-0.04394	0.57383	0.260517	0.47489	0.745505	-0.15505	0.412725	-0.21417	0.242654	0.151759	0.997817	0.078867	0.947903
NKD1	0.287144	-0.31837	0.301835	-0.00168	0.030335	0.016788	0.0225	0.990114	0.433081	-0.49565	0.423619	-0.2857	0.998678	0.00023	0.998132	0.027132
NKD2	0.080654	-0.06713	0.200743	-0.00464	0.550904	0.623021	0.134319	0.972689	0.138759	-0.15197	0.134926	-0.04279	0.821128	0.15667	0.811568	0.388837
PPFIA3	0.014095	-0.15842	0.19098	-0.11919	0.917121	0.243562	0.154718	0.377175	0.183147	-0.30638	0.173623	-0.22727	0.888448	0.019186	0.872984	0.064388
C6orf114	0.079388	0.202777	-0.15052	0.230718	0.557194	0.133915	0.263727	0.084227	0.1764	0.231994	-0.1201	0.049778	0.876801	0.937421	0.218725	0.627306
SLC22A16	-0.14467	-0.141	0.087883	-0.12162	0.287409	0.304505	0.51953	0.371913	-0.38057	-0.01723	-0.09064	-0.00667	0.004955	0.455279	0.279224	0.482667
SLC45A3	0.05071	0.170434	0.038537	-0.21087	0.707947	0.209168	0.775943	0.115371	-0.17402	0.181051	-0.12158	0.143324	0.123716	0.885732	0.213133	0.829004
RHPN2	-0.26974	-0.21541	-0.07886	-0.25577	0.042444	0.110843	0.559836	0.054817	-0.35672	-0.19049	-0.04405	-0.23673	0.007477	0.102391	0.386935	0.056597
ZIC5	0.064022	-0.09391	0.256427	-0.203	0.636116	0.491185	0.054177	0.129912	0.034504	-0.38432	0.222688	-0.40187	0.589015	0.004574	0.926879	0.003106
CCNB3	-0.23928	-0.17198	-0.12403	-0.36813	0.075717	0.209291	0.362439	0.005247	-0.25028	-0.23347	-0.08903	-0.21355	0.046714	0.059192	0.280418	0.077076
APOL1	-0.12413	-0.01052	0.087468	0.438123	0.357594	0.938673	0.517642	0.000653	-0.21549	0.249348	0.109345	0.362938	0.077564	0.950714	0.760078	0.992864
LMO4	0.139516	0.201497	-0.12489	0.213692	0.300641	0.13644	0.354618	0.110468	-0.00412	0.502972	-0.09899	0.346908	0.489154	0.999816	0.258829	0.990911

ZCRB1	-0.04142	0.121778	-0.2138	0.060877	0.759646	0.371279	0.110292	0.652819	-0.24362	0.13423	-0.20043	0.1427	0.053407	0.810323	0.096032	0.825137
C4orf35	0.087285	-0.17638	0.173207	-0.30954	0.518526	0.193466	0.19758	0.019127	-0.00103	-0.41065	0.18302	-0.34472	0.497286	0.002293	0.885586	0.009486
STON2	0.055872	0.357371	-0.11124	0.055545	0.682541	0.007394	0.414364	0.684301	-0.06491	0.519662	-0.29368	0.360732	0.334113	0.999893	0.025111	0.993108
PIR	-0.08398	0.376181	-0.27875	-0.24477	0.534521	0.004272	0.035758	0.066501	-0.31004	0.434066	-0.05848	0.294113	0.019103	0.998554	0.353065	0.975064
DOCK7	0.168767	0.092584	-0.22749	0.154929	0.209492	0.497346	0.08878	0.249841	0.254843	0.301724	0.013242	0.233755	0.956294	0.979217	0.534399	0.941035
PRIC285	-0.1576	-0.2172	0.13604	0.032398	0.246045	0.11118	0.317443	0.812628	-0.05714	-0.06927	0.006728	0.034763	0.353028	0.323687	0.517493	0.590703
KNDC1	-0.23125	-0.23361	0.051159	-0.3916	0.083491	0.083123	0.705481	0.002593	-0.26199	-0.40436	0.018774	-0.31314	0.039301	0.002659	0.548711	0.017045
DCLK3	-0.04528	-0.25046	-0.00783	-0.19486	0.740356	0.065141	0.954327	0.150108	0.134353	-0.32945	0.029164	-0.18302	0.813319	0.012684	0.575413	0.11172
LRRCC1	-0.03051	0.076295	-0.18912	-0.02781	0.821723	0.576247	0.158846	0.837326	-0.07247	0.193827	-0.01117	0.232143	0.316101	0.901597	0.470984	0.939721
CNTNAP4	0.23756	-0.33015	0.227623	-0.34669	0.077905	0.013829	0.091569	0.008855	0.221895	-0.3998	0.337759	-0.26494	0.928535	0.003255	0.987529	0.039301
ZFH2	-0.20548	-0.32992	-0.01622	-0.4353	0.128694	0.013899	0.905551	0.0008	-0.33047	-0.39372	0.01327	-0.30125	0.012446	0.003393	0.534472	0.020951
KIAA1755	0.179311	-0.22456	0.323515	-0.13207	0.182001	0.096135	0.014097	0.327417	0.061321	-0.39928	0.303894	-0.25618	0.6572	0.00299	0.978796	0.042857
CGGBP1	0.03074	0.219645	-0.16424	0.25259	0.820429	0.103837	0.222165	0.058009	0.128472	0.236152	-0.12423	0.293417	0.802586	0.942949	0.208085	0.976097
ITPRIP	0.190964	0.000719	-0.08459	0.060693	0.154754	0.995805	0.531563	0.653803	0.441149	-0.00699	0.110021	-0.1507	0.998925	0.481601	0.764071	0.158729
UNK	-0.09324	-0.05784	0.057148	-0.03767	0.490272	0.67196	0.672849	0.780862	-0.07591	-0.06512	0.072941	-0.07606	0.308042	0.333605	0.683022	0.307703
KIAA1751	-0.15811	-0.20544	0.06483	-0.30796	0.240131	0.128775	0.631857	0.019782	-0.20077	-0.35985	0.035153	-0.31064	0.090469	0.007018	0.590661	0.017812
TSPYL5	0.117252	-0.30034	0.118392	-0.10846	0.385054	0.024508	0.380416	0.421922	0.054085	-0.44077	0.161225	-0.15136	0.639449	0.001085	0.85498	0.157653
DISP2	0.106824	-0.06338	0.268381	-0.26123	0.429002	0.642627	0.043535	0.049668	0.155156	-0.34999	0.275752	-0.31747	0.848403	0.008554	0.966634	0.015782
TNKS1BP1	0.091578	0.010966	0.182246	0.035505	0.498086	0.936068	0.174833	0.793168	0.328069	-0.05535	0.065021	-0.08426	0.986988	0.357425	0.664344	0.288858
KIAA1737	-0.1241	-0.00031	-0.14108	-0.32479	0.35772	0.998213	0.295188	0.0137	-0.33203	-0.02213	-0.05756	-0.10027	0.012088	0.441965	0.353608	0.253657
DIXDC1	0.023741	-0.29049	0.15348	-0.31031	0.860846	0.029866	0.254352	0.018812	0.038652	-0.4949	0.264438	-0.33872	0.60065	0.000236	0.960403	0.010651
AP3B1	-0.02977	0.352049	-0.24029	0.115151	0.826011	0.007794	0.071797	0.393686	-0.06128	0.362669	-0.14203	0.326844	0.342907	0.993376	0.176015	0.98669
ZNF518B	0.0447	0.18004	-0.09315	0.213296	0.741276	0.184248	0.490695	0.111145	-0.05664	0.282642	-0.16609	0.310872	0.354251	0.971494	0.137761	0.98226
TANC1	0.212148	0.308453	-0.1134	0.113648	0.113127	0.020728	0.400969	0.39993	0.131008	0.531027	-0.13847	0.365167	0.804499	0.999913	0.185022	0.993178
FHDC1	-0.04836	0.115412	-0.30321	-0.02296	0.720914	0.396985	0.021862	0.865374	-0.14664	0.395238	-0.12058	0.150212	0.168221	0.996396	0.217795	0.837663
ZC3H12C	0.004622	0.063865	-0.10801	0.277356	0.972777	0.640054	0.423862	0.036728	0.122028	0.10131	0.009069	0.072833	0.790421	0.748551	0.523573	0.68475
SSH2	0.162823	-0.26753	-0.05019	0.06604	0.226222	0.04622	0.710831	0.625493	-0.03102	0.053851	0.068241	-0.04657	0.419845	0.637331	0.670082	0.380657
SELI	-0.00462	0.492808	-0.31358	0.175238	0.972778	0.000114	0.017535	0.192293	-0.06912	0.633436	-0.2777	0.381665	0.324034	0.999999	0.032377	0.995568
FCN3	-0.23145	-0.00703	0.131732	-0.20709	0.083225	0.959	0.328675	0.122193	-0.07659	-0.32174	0.125262	-0.38186	0.306472	0.014612	0.793856	0.004413
LBX2	0.003153	-0.0942	0.267008	-0.19187	0.981427	0.489832	0.044662	0.152765	0.041399	-0.32595	0.127107	-0.40654	0.607639	0.013532	0.797308	0.002526
GFM1	0.088367	0.237061	-0.25697	0.273368	0.513334	0.07855	0.053655	0.039635	-0.0369	0.432563	-0.15745	0.444864	0.403824	0.99866	0.150822	0.999025
SCIN	-0.09465	0.243566	-0.17117	-0.2952	0.483711	0.070463	0.202977	0.025797	0.012144	-0.01738	0.116891	-0.13131	0.531552	0.454889	0.775067	0.194956
CCDC65	-0.17392	-0.12993	-0.01907	-0.23588	0.195725	0.339872	0.888018	0.077327	-0.24062	-0.30561	0.044314	-0.19297	0.053609	0.019443	0.613727	0.099419
DNAJC5B	-0.17892	-0.29672	-0.08334	-0.36593	0.182967	0.026375	0.537654	0.005122	-0.19116	-0.24646	-0.01412	-0.31539	0.101582	0.049355	0.463321	0.016378
BLZF1	0.015942	0.3152	-0.2579	0.061518	0.906305	0.017971	0.052763	0.649403	0.144014	0.389404	-0.08997	0.211091	0.830176	0.996262	0.278352	0.920466
TSLP	0.295597	-0.11206	-0.01513	0.076232	0.025588	0.410918	0.911044	0.573021	-0.01094	0.035628	0.105721	0.147707	0.471242	0.59292	0.755274	0.836362
PSKH2	-0.09165	-0.08568	0.156668	-0.21194	0.497728	0.530096	0.2445	0.113491	0.032133	-0.28247	0.224232	-0.35851	0.583945	0.028585	0.930669	0.007211
LGR5	0.203082	-0.01608	0.011657	0.26269	0.129746	0.906362	0.93142	0.048365	-0.1863	0.202102	0.050992	0.443864	0.11023	0.908467	0.628816	0.998872
RPPH1	-0.08917	-0.06841	-0.01222	0.089331	0.509478	0.616395	0.928123	0.50873	0.039171	-0.00319	-0.094	-0.00736	0.60082	0.491691	0.271958	0.480875
MAPKAPK5	-0.06872	0.335563	-0.1074	0.11597	0.611489	0.011463	0.426507	0.390308	0.009999	0.32152	-0.22255	0.136386	0.526293	0.985329	0.07086	0.816948
SCRT2	-0.01745	-0.18646	0.264231	-0.19138	0.897504	0.168836	0.047016	0.153844	0.0112	-0.44006	0.077463	-0.30465	0.529446	0.001106	0.693494	0.019765
MBD3L1	-0.11307	-0.04812	0.055729	-0.28085	0.406702	0.727204	0.683313	0.036024	0.000775	-0.23305	-0.01596	-0.41135	0.502017	0.061697	0.45905	0.002499
INE1	0.043044	0.131208	0.010181	-0.10891	0.750544	0.335096	0.940084	0.419973	0.057593	0.267456	-0.25825	0.127831	0.648093	0.963828	0.043374	0.801394
BHLHE40	-0.00078	0.149382	-0.21982	0.231249	0.995406	0.271838	0.100376	0.083495	-0.09759	0.575932	-0.15335	0.248835	0.259394	0.999986	0.157275	0.952301
PIAS1	0.100926	0.024684	-0.12123	0.173595	0.45506	0.856697	0.369028	0.196562	0.201246	-0.02184	0.131766	0.033987	0.910059	0.442732	0.80588	0.588713
CDC14B	-0.05511	0.243169	-0.10198	-0.07858	0.683896	0.070937	0.45032	0.561231	-0.07703	0.269163	-0.10032	0.104739	0.305438	0.964763	0.256006	0.755762
CDC14A	-0.0576	-0.07103	0.027454	-0.22566	0.670407	0.602911	0.839355	0.091456	-0.08469	-0.29256	0.116435	-0.28255	0.287885	0.024247	0.776876	0.028547
GALP	0.004851	-0.21212	0.200687	-0.24371	0.971433	0.116529	0.134429	0.067717	0.131554	-0.3693	0.088459	-0.30623	0.808255	0.005772	0.718314	0.019235
TCAP	0.046185	-0.17642	0.213022	-0.18996	0.732991	0.193376	0.111615	0.156986	0.275906	-0.40409	0.121966	-0.23387	0.968273	0.002675	0.787604	0.058871
CDK10	-0.11673	-0.0738	0.022705	-0.05573	0.387198	0.588817	0.866866	0.680503	-0.1274	0.242292	-0.24785	0.032175	0.199406	0.947637	0.050342	0.584052

PRPF18	-0.06241	0.145426	-0.11168	0.010442	0.644679	0.28488	0.408214	0.938551	-0.14039	0.058145	-0.21132	-0.01376	0.176037	0.649447	0.081742	0.463837
DEGS1	0.204528	0.028091	-0.03909	0.158234	0.12698	0.837169	0.772837	0.239756	0.277755	-0.01593	0.237824	0.230407	0.969185	0.458149	0.942157	0.938281
DENR	-0.0076	0.310134	-0.20685	0.20303	0.955253	0.02001	0.122631	0.129846	-0.09967	0.556389	-0.21713	0.417956	0.254945	0.99997	0.075971	0.998076
THOC5	0.048348	0.148021	-0.13633	0.159078	0.72594	0.280813	0.320974	0.246024	-0.01947	0.425244	0.027796	0.186057	0.449503	0.998204	0.571071	0.889469
KMO	0.003168	-0.04659	0.058077	0.025958	0.981341	0.733154	0.667836	0.848002	-0.01912	-0.23985	0.08916	-0.14297	0.449827	0.054195	0.719862	0.171592
YARS	-0.06703	0.31289	-0.15804	0.292372	0.620307	0.018878	0.240341	0.027319	-0.15144	0.603875	-0.39933	0.47319	0.157533	0.999996	0.003289	0.999552
PDXK	-0.18808	0.162606	-0.08536	0.149317	0.1651	0.235568	0.531624	0.272049	-0.07983	0.486981	-0.23811	0.27339	0.298969	0.9997	0.057614	0.966998
MADD	-0.03832	0.335506	-0.03746	0.234715	0.779185	0.012277	0.783994	0.08164	-0.05181	0.498219	-0.1849	0.340522	0.3662	0.999787	0.112	0.989712
RRP1	-0.077	0.059698	0.001416	-0.02859	0.569163	0.662074	0.991659	0.83278	-0.10569	0.19765	-0.14537	0.041933	0.242265	0.906025	0.17035	0.608995
MKNK1	-0.00571	0.380145	-0.01491	0.184853	0.966382	0.003853	0.912368	0.168641	0.039534	0.368437	0.005786	0.243949	0.601736	0.993618	0.514867	0.946836
CAV1	0.322944	-0.19986	0.141983	0.26979	0.015198	0.143479	0.296561	0.044342	0.462289	-0.20154	0.105598	-0.03	0.999391	0.089615	0.755021	0.421561
KHSRP	-0.08172	0.115373	-0.11122	-0.08772	0.545653	0.397146	0.410133	0.516448	-0.19681	0.22953	-0.08886	0.06487	0.09493	0.937543	0.280792	0.665787
PDLIM4	-0.11587	-0.10076	-0.07974	-0.27716	0.390713	0.459959	0.55545	0.036863	-0.33751	0.0797	-0.20245	-0.05089	0.010898	0.700735	0.091147	0.368489
CASK	0.036919	0.274707	-0.24561	0.107004	0.785124	0.040467	0.065541	0.428218	-0.13822	0.388005	-0.11657	0.372893	0.179825	0.996144	0.222854	0.994649
AKR7A2	-0.21292	-0.00247	-0.26596	-0.06202	0.115124	0.985733	0.047566	0.649793	-0.53145	0.211537	-0.26703	0.06185	8.61E-05	0.918484	0.039866	0.656751
PRKRA	-0.06015	0.254093	-0.23217	0.115604	0.656719	0.058796	0.082234	0.391813	0.092592	0.323005	-0.06019	0.19141	0.72974	0.98572	0.347236	0.898722
STK16	-0.25387	0.164515	-0.15659	-0.06049	0.056705	0.225655	0.244721	0.654876	-0.44801	0.3108	-0.33155	0.155825	0.000898	0.982237	0.013045	0.849457
TMEFF1	-0.03081	-0.02632	-0.05146	0.022114	0.820025	0.847312	0.703806	0.870301	0.115236	-0.26861	0.295435	-0.26132	0.777151	0.035536	0.975598	0.039696
SCARF1	0.146904	-0.20269	0.324945	-0.05151	0.275513	0.134092	0.013653	0.703526	0.248687	-0.37572	0.227092	-0.24825	0.952199	0.005039	0.933217	0.048105
CAV2	0.107477	0.289581	-0.18016	0.305573	0.426169	0.030406	0.179897	0.020805	0.233942	0.505537	-0.0079	0.398846	0.941186	0.999831	0.479466	0.99698
LY6D	-0.00717	0.230216	-0.07736	-0.13238	0.957776	0.087834	0.567355	0.326277	-0.05333	0.413822	-0.1796	0.180649	0.36241	0.997874	0.118895	0.885205
GTPBP10	0.047669	0.300332	-0.19389	0.192789	0.724751	0.024514	0.148418	0.150777	0.076676	0.451093	-0.06621	0.294091	0.693739	0.999173	0.332819	0.976363
CAV3	-0.13008	-0.08604	0.162563	-0.07821	0.334842	0.528345	0.226976	0.563056	0.127405	-0.31388	0.120592	-0.27288	0.800601	0.016826	0.784967	0.033266
OR6A2	0.101587	-0.19589	0.181357	-0.29233	0.452097	0.14792	0.176981	0.02734	0.157706	-0.29497	0.07017	-0.11207	0.852392	0.023294	0.676535	0.22919
ACTL6A	-0.01253	0.2307	-0.40388	0.17382	0.926315	0.087151	0.001836	0.195974	-0.15284	0.596999	-0.24179	0.446565	0.155279	0.999994	0.054783	0.999068
RUNX2	-0.01272	-0.09456	0.062124	0.306214	0.925153	0.488151	0.646179	0.020526	0.172027	-0.20262	0.082263	-0.14623	0.873519	0.088428	0.704442	0.16609
TNFSF11	0.085439	-0.08495	0.196693	-0.20339	0.527442	0.533594	0.14252	0.129145	0.104399	-0.18734	0.125336	-0.17698	0.755051	0.106252	0.793996	0.119678
RGS20	0.03555	0.016227	0.194016	-0.21	0.794774	0.906394	0.151917	0.120315	0.087341	-0.16045	0.16796	-0.11544	0.71809	0.143392	0.864957	0.222448
NOP14	-0.01785	0.297324	-0.17748	0.305106	0.8961	0.02749	0.190679	0.022224	-0.10507	0.699919	-0.26202	0.49891	0.24355	1	0.041041	0.999792
C4orf8	-0.18655	0.086998	-0.05831	-0.28307	0.168625	0.527666	0.669462	0.034516	-0.11177	0.097706	-0.1327	-0.07343	0.232402	0.738432	0.19525	0.315844
SLC25A12	0.105234	0.21036	-0.16957	0.25777	0.435941	0.119672	0.207307	0.052886	0.080824	0.446753	-0.08494	0.219481	0.703317	0.999072	0.289528	0.928616
PLA2G4C	0.188907	-0.15269	0.156849	0.360921	0.159332	0.261232	0.243947	0.005813	0.148421	-0.13915	0.139424	0.121397	0.837542	0.178188	0.819495	0.789208
RUVBL1	-0.16715	-0.11899	-0.12262	-0.19096	0.213946	0.38239	0.363526	0.154755	-0.40569	-0.00503	-0.11053	0.031316	0.002577	0.486767	0.234891	0.58184
RDH16	-0.11256	-0.15976	0.09904	-0.19128	0.404469	0.239546	0.463572	0.15406	-0.18615	-0.20662	0.093049	-0.20075	0.107745	0.084144	0.728389	0.090486
KLF7	0.070599	-0.01901	0.022938	0.246473	0.601772	0.889394	0.865508	0.064568	0.139063	-0.06762	0.188602	0.132625	0.818866	0.329468	0.889914	0.807436
RUNX1	-0.16529	0.050948	-0.02013	-0.00699	0.219157	0.709221	0.881836	0.958872	-0.0909	0.14518	-0.14042	-0.07967	0.27398	0.832144	0.178778	0.299343
PPAP2A	0.230228	-0.09359	0.076795	0.46001	0.084906	0.492649	0.570184	0.000318	0.272123	0.006492	0.210753	0.238591	0.96634	0.517079	0.917684	0.944848
PPAP2C	-0.20859	0.027373	-0.13185	0.068419	0.122885	0.842748	0.332727	0.616343	-0.27007	0.411276	-0.34841	0.147955	0.034748	0.997741	0.009502	0.836773
PPAP2B	0.35429	-0.08812	0.087521	0.428524	0.006853	0.518399	0.51739	0.000882	0.200815	0.225204	0.124042	0.381	0.909583	0.933809	0.791553	0.995503
STC2	0.145816	-0.32342	0.295205	-0.12963	0.279122	0.015041	0.025793	0.336516	0.165588	-0.38325	0.250457	-0.20941	0.861497	0.00468	0.949473	0.083697
USO1	0.085614	0.269152	-0.15036	0.143673	0.526592	0.044866	0.264237	0.286325	0.164799	0.32924	-0.01747	0.22252	0.863124	0.987267	0.454668	0.93141
CADPS	0.107984	0.091646	0.123832	-0.12579	0.423976	0.501734	0.358756	0.351158	-0.0648	-0.02083	-0.042	0.035483	0.334391	0.445356	0.392062	0.592549
RUNX1T1	0.343458	-0.18399	0.219857	0.246579	0.008905	0.174646	0.100325	0.064451	0.300339	-0.29221	0.326393	0.108169	0.978721	0.024387	0.985673	0.762865
NPFF	-0.0191	-0.22643	0.173843	-0.00726	0.887855	0.093324	0.195913	0.957229	0.282476	-0.25691	0.245352	-0.16156	0.971418	0.042394	0.947865	0.141715
CDC2L5	-0.13174	0.175838	-0.28258	0.050281	0.328633	0.194872	0.03319	0.710312	-0.11293	0.202362	-0.20441	0.179772	0.227461	0.911286	0.089002	0.884052
PDE8B	-0.03877	0.052736	0.110023	-0.149	0.776656	0.702178	0.41954	0.27307	0.019014	-0.49287	0.099985	-0.37638	0.549904	0.000251	0.743279	0.004968
PSMG1	0.224108	0.205035	-0.11961	0.160252	0.093761	0.129548	0.375518	0.233738	0.304316	0.295967	0.021593	0.183891	0.98012	0.977092	0.555982	0.889401
RFXANK	-0.15142	-0.08335	-0.05945	-0.10241	0.260862	0.541363	0.660451	0.448442	-0.2959	0.281379	0.104066	0.123242	0.024216	0.969429	0.749288	0.790036
TP63	0.115424	0.281935	-0.23041	0.195032	0.392559	0.03528	0.084658	0.145991	-0.02939	0.636798	-0.14252	0.539578	0.423138	0.999999	0.175164	0.999946
JRK	0.012571	-0.03529	0.209715	-0.15105	0.926057	0.796224	0.117418	0.26203	-0.13866	0.149377	-0.04621	-0.08776	0.179055	0.839112	0.381547	0.28097

CBFA2T3	-0.02194	-0.16244	0.309305	-0.03361	0.871339	0.231635	0.019222	0.803971	0.12227	-0.1725	0.188256	-0.13246	0.790885	0.125824	0.892222	0.190097
HSD17B6	-0.01215	-0.04227	0.127259	-0.0948	0.929201	0.759271	0.349971	0.487052	0.043981	-0.00737	7.83E-05	-0.05917	0.612894	0.480829	0.500201	0.349721
SKAP1	-0.18792	-0.19218	0.031566	0.492089	0.161562	0.155903	0.815686	0.000101	-0.30584	-0.25899	-0.11972	-0.05727	0.019366	0.041104	0.216708	0.352694
DNAH17	-0.00119	-0.17654	0.210936	-0.21885	0.992972	0.193055	0.11525	0.101935	0.014996	-0.25601	0.120276	-0.19911	0.539396	0.042961	0.784358	0.09232
UNC5C	0.427636	-0.33708	0.363276	-0.02912	0.001011	0.011851	0.005925	0.831299	0.433666	-0.33527	0.350204	-0.34962	0.99854	0.012181	0.990109	0.009282
RTCD1	-0.09087	0.301343	-0.27452	0.217973	0.501445	0.024013	0.038778	0.103344	-0.03985	0.503521	-0.14348	0.369127	0.396301	0.99982	0.173533	0.994207
RNASSET2	0.055272	-0.08241	-0.0181	0.272149	0.683006	0.545973	0.893703	0.040561	0.036967	-0.03373	0.024355	-0.00722	0.595255	0.412939	0.562349	0.481221
SSNA1	-0.12487	-0.0278	-0.05282	-0.05193	0.354699	0.838835	0.696357	0.701244	-0.21394	0.238489	-0.15522	0.066256	0.076693	0.944769	0.154311	0.66912
EIF4EBP3	-0.0746	-0.02638	0.143637	0.036768	0.584765	0.846987	0.290912	0.787904	0.040631	-0.27139	0.050231	-0.25371	0.605688	0.034047	0.628424	0.044436
OASL	-0.12805	0.098967	0.05034	0.065796	0.351489	0.476472	0.715121	0.633173	-0.18554	-0.05374	-0.0344	-0.14024	0.111182	0.362949	0.412278	0.179093
AOC3	0.382122	-0.30383	0.247566	0.230726	0.003354	0.022816	0.063355	0.084216	0.252177	-0.28696	0.221109	-0.04652	0.954555	0.026583	0.927806	0.379422
RUNX3	0.013825	-0.11364	0.25596	0.370233	0.918701	0.404313	0.054632	0.004586	0.104935	-0.17757	0.079104	-0.04851	0.75617	0.118884	0.697255	0.374438
PCDHGB4	0.120248	0.083557	-0.0782	-0.15642	0.37294	0.540369	0.563132	0.245245	0.199107	0.031231	-0.0435	0.042356	0.907674	0.581621	0.388299	0.610066
DCHS1	0.331818	-0.13914	0.326446	0.293959	0.012478	0.311005	0.01407	0.027877	0.316693	-0.20489	0.242944	0.001154	0.983997	0.085976	0.946088	0.503036
PTCH2	0.165881	-0.23132	0.284922	-0.12553	0.221772	0.089272	0.033304	0.356605	0.026544	-0.39953	0.215218	-0.25504	0.568705	0.003274	0.919692	0.045437
AKR1C3	-0.0183	0.449841	-0.31919	-0.12759	0.892535	0.000505	0.015514	0.344233	-0.15697	0.364199	-0.18855	0.203482	0.151562	0.993043	0.110157	0.909985
KCNK5	0.137812	-0.21656	0.226052	0.144857	0.306642	0.108904	0.090873	0.282331	0.4047	-0.08177	0.019618	-0.05857	0.997088	0.296678	0.550292	0.351156
CHRD	0.037913	-0.20734	0.2383	-0.08	0.779483	0.125199	0.074249	0.554154	0.118138	-0.36385	0.2215	-0.23835	0.782877	0.006466	0.928169	0.055341
ABCB11	-0.08846	-0.02617	-0.12697	-0.3239	0.512884	0.848198	0.346631	0.013975	-0.21773	-0.28993	0.090814	-0.25012	0.073032	0.02532	0.723505	0.046826
NCOA1	0.142145	0.017681	-0.02166	0.194569	0.291533	0.897091	0.872945	0.146969	0.337213	-0.06363	0.149491	-0.0166	0.989039	0.337196	0.836486	0.456403
MAPKSP1	0.0654	0.290419	-0.23073	0.158743	0.628855	0.029907	0.084207	0.238228	0.037638	0.483531	-0.18434	0.349353	0.598062	0.999668	0.112711	0.991338
CBFB	-0.02394	0.358162	-0.25283	0.180926	0.86099	0.006721	0.060109	0.182062	0.02495	0.505381	-0.12553	0.332766	0.565367	0.99983	0.205643	0.988078
NUMB	-0.08136	-0.06969	-0.06574	0.090039	0.547398	0.609794	0.627062	0.505364	-0.07948	-0.11311	-0.11417	-0.03944	0.301894	0.229714	0.230274	0.398495
SOCS1	-0.04749	-0.11237	0.264297	0.140843	0.728184	0.40962	0.049026	0.300494	0.076097	-0.18881	0.105205	-0.06827	0.692392	0.104433	0.754208	0.326056
DDX3Y	-0.03912	0.044876	-0.17516	0.011973	0.772649	0.742603	0.192497	0.929565	0.084574	-0.09337	0.085401	-0.06796	0.711859	0.268561	0.711505	0.326806
PDE5A	0.348125	-0.18557	0.213471	0.102744	0.008559	0.174961	0.114174	0.451138	0.336923	-0.36014	0.292785	-0.1404	0.988979	0.006976	0.974519	0.176011
DYNLL1	-0.13622	0.015738	-0.28823	-0.08811	0.312326	0.908345	0.029688	0.514557	-0.33768	0.21054	-0.21914	0.199308	0.010863	0.919908	0.07404	0.907901
TNKS	0.062318	0.181936	-0.12618	-0.05503	0.645148	0.179593	0.349631	0.684302	-0.04102	0.226634	-0.00553	0.122575	0.393311	0.935062	0.485623	0.79147
ALDH4A1	-0.15462	0.296935	-0.14848	-0.04974	0.250782	0.026261	0.270337	0.713281	-0.15273	0.385722	-0.29155	0.170992	0.155461	0.995945	0.025998	0.872064
SERPINA6	-0.02761	-0.21955	-0.00776	-0.44164	0.84139	0.110678	0.955132	0.000737	-0.2573	-0.29257	0.047916	-0.30719	0.043973	0.025571	0.621288	0.020054
IRS2	0.237591	-0.26746	0.258096	0.046551	0.07514	0.046281	0.052576	0.730959	0.413395	-0.28702	0.197089	-0.50444	0.997852	0.026558	0.902801	0.000175
EIF3A	0.074216	0.383309	-0.35045	0.233384	0.583237	0.003546	0.007528	0.080604	-0.02945	0.551439	-0.17979	0.343616	0.422966	0.999964	0.118651	0.990308
EIF3B	-0.00094	0.098448	-0.14331	0.157906	0.994483	0.470384	0.28756	0.240743	-0.07508	0.508411	-0.33554	0.318481	0.30999	0.999845	0.012121	0.984502
EIF3D	-0.00427	0.271448	-0.37128	0.140921	0.974823	0.043003	0.004464	0.295752	-0.12776	0.609824	-0.29733	0.342788	0.198742	0.999997	0.023653	0.990151
EIF3F	0.046813	0.229328	-0.33802	0.191015	0.7295	0.089099	0.010123	0.154642	-0.08218	0.619394	-0.24078	0.452706	0.293577	0.999998	0.055551	0.999208
EIF3G	-0.00171	-0.00733	-0.06239	0.054714	0.989922	0.957213	0.644782	0.686042	0.066606	0.186899	-0.11631	0.030453	0.669959	0.893198	0.223376	0.579613
EIF3H	0.042393	0.407124	-0.35759	0.214951	0.756391	0.002037	0.006816	0.111626	0.05953	0.596642	-0.3277	0.429444	0.652838	0.999994	0.013993	0.998551
EIF3I	-0.08673	0.177457	-0.21901	0.1942	0.525033	0.194927	0.104872	0.151521	-0.27997	0.653612	-0.38105	0.473306	0.02975	1	0.004904	0.999553
EIF3J	0.028421	0.37168	-0.17532	0.091043	0.833776	0.004795	0.19209	0.500609	0.251355	0.168602	0.005455	0.069149	0.954008	0.868661	0.514185	0.676033
CBL	0.190586	0.219383	-0.16828	0.160903	0.155589	0.10426	0.210822	0.231819	-0.02332	0.047253	-0.0231	-0.05534	0.438873	0.622418	0.44015	0.357443
SLC4A4	-0.05875	0.276517	-0.00122	0.128854	0.667133	0.04099	0.992867	0.343913	0.051281	-0.02612	0.087786	0.082648	0.632489	0.4316	0.716821	0.707486
EIF4G3	-0.02592	0.214447	-0.14771	-0.316	0.848208	0.112489	0.27285	0.016639	-0.17866	0.127161	-0.12186	0.008071	0.117417	0.800145	0.212596	0.521226
VAMP8	-0.1634	0.273467	-0.33088	-0.06221	0.224559	0.041416	0.011937	0.645702	-0.16803	0.332897	-0.34669	0.144267	0.134937	0.987273	0.010569	0.827798
VAMP4	-0.00621	0.110076	-0.16995	0.205802	0.963415	0.419311	0.206262	0.124578	0.070057	0.174706	0.029631	0.117866	0.67819	0.877232	0.576608	0.782343
STX16	-0.09563	0.083928	0.038524	0.195775	0.483256	0.542386	0.77803	0.148166	-0.00345	-0.0712	-0.21543	-0.06086	0.490913	0.319109	0.077622	0.34393
STX11	-0.08987	-0.1897	0.018754	0.074709	0.506182	0.161417	0.889875	0.580729	-0.1873	-0.36919	0.045767	-0.40911	0.106298	0.005785	0.617351	0.002378
STX10	-0.28395	0.146936	-0.11805	-0.15131	0.032308	0.279853	0.381786	0.26121	-0.29236	0.13045	-0.17436	0.091556	0.024328	0.806235	0.125991	0.72746
BECN1	-0.14502	0.187454	-0.3061	0.049155	0.286257	0.170547	0.02177	0.719026	-0.33254	0.3931	-0.29141	0.264159	0.012811	0.996222	0.027477	0.960239
CBLB	-0.17635	0.182548	-0.11144	0.206363	0.189447	0.178108	0.409228	0.123531	0.078333	0.427722	-0.14759	0.297277	0.697582	0.998487	0.166649	0.977591
JMJD7-PLA	0.001752	0.051807	0.035765	-0.03007	0.989678	0.704538	0.791687	0.824285	-0.1683	0.241373	-0.21541	0.163806	0.134546	0.944905	0.080113	0.858859

PEA15	0.269924	0.032025	-0.01947	0.428586	0.042297	0.814744	0.885688	0.000881	0.329511	0.161962	0.135397	0.199432	0.987331	0.858895	0.812407	0.908041
SFRS9	-0.24866	0.340536	-0.06614	0.150441	0.064601	0.010959	0.628176	0.268416	-0.22694	0.520821	-0.37166	0.39525	0.064673	0.999897	0.005972	0.996722
MARCO	-0.04292	-0.26768	0.159368	-0.17265	0.751254	0.046093	0.236361	0.199047	0.102113	-0.41408	0.179948	-0.28744	0.750248	0.002113	0.881564	0.026373
KRT38	-0.03171	0.03785	0.115673	-0.15272	0.814838	0.781816	0.391531	0.256723	0.047383	-0.11626	0.029481	-0.20897	0.622745	0.220815	0.576223	0.0817
KRT37	-0.02739	-0.02836	0.187912	-0.14881	0.839727	0.835654	0.161581	0.269264	0.164343	-0.24473	0.165251	-0.36149	0.862451	0.050586	0.861	0.006787
KRT36	-0.14799	-0.02527	0.171929	-0.05974	0.271948	0.853308	0.200958	0.658903	-0.07043	-0.18269	0.13232	-0.04222	0.320934	0.112136	0.806885	0.390275
CBLN1	-0.11018	-0.20834	0.237639	-0.18864	0.414546	0.123347	0.075079	0.159927	0.085483	-0.41998	0.13895	-0.29206	0.713914	0.001832	0.818669	0.024446
JRKL	-0.00639	0.19279	-0.18644	-0.03606	0.962399	0.154572	0.164951	0.789984	-0.00093	0.223078	-0.00721	0.191437	0.497541	0.931914	0.481257	0.898753
HYAL2	0.23036	-0.1038	0.115657	0.257629	0.084723	0.446467	0.391597	0.053019	0.203226	0.016391	0.036289	0.087237	0.912227	0.543047	0.59354	0.717857
GALNT4	-0.17765	0.263421	-0.18342	0.080326	0.186149	0.049809	0.172013	0.55253	-0.10284	0.395367	-0.14511	0.200309	0.248218	0.996731	0.17078	0.90902
DGAT1	0.019651	0.046662	0.06504	0.024515	0.88464	0.732731	0.630748	0.856359	0.073814	0.278834	-0.07072	0.080955	0.687055	0.969707	0.322162	0.703616
CDC23	-0.05691	0.355998	-0.38444	0.172848	0.674118	0.007086	0.003152	0.198525	-0.04938	0.568316	-0.20045	0.415385	0.372253	0.999981	0.093369	0.997952
S1PR4	-0.08995	-0.13188	0.13284	-0.17177	0.505801	0.332595	0.324588	0.201391	0.01758	-0.40951	0.141215	-0.33577	0.545626	0.002608	0.819731	0.012068
ACTN1	0.341523	-0.38786	0.279649	0.154379	0.009322	0.003141	0.035138	0.251547	0.347702	-0.41178	0.277685	-0.29046	0.991051	0.002233	0.967616	0.025103
DNAH11	-0.07796	-0.19193	0.052012	-0.20877	0.564318	0.156464	0.7008	0.119123	-0.07419	-0.36702	0.129301	-0.28747	0.312072	0.006054	0.801372	0.02636
B4GALT4	-0.14687	0.535412	-0.27136	-0.10974	0.275609	2.12E-05	0.04117	0.416447	-0.09368	0.52748	-0.24161	0.252565	0.267885	0.999917	0.054919	0.954811
B4GALT3	-0.00058	0.218692	0.09434	0.370778	0.996591	0.108693	0.489189	0.004907	0.057632	0.281061	-0.34738	0.146151	0.646557	0.969276	0.010434	0.830963
B4GALT2	-0.03626	0.101255	0.031389	0.00668	0.78886	0.457757	0.8167	0.960668	0.040397	0.102204	-0.08445	0.097195	0.605093	0.750441	0.29063	0.739755
B3GALT4	-0.18015	-0.0139	0.115808	-0.11378	0.183986	0.919785	0.395356	0.403738	-0.06917	-0.18908	0.13491	-0.31598	0.325819	0.106759	0.808704	0.017236
B3GALNT1	0.122813	0.347258	-0.07623	0.219787	0.362754	0.008737	0.573042	0.100435	0.057505	0.481103	-0.04889	0.455317	0.647879	0.999644	0.374888	0.999262
B3GALT2	0.128362	0.037649	-0.08269	0.28356	0.341308	0.782946	0.540844	0.032558	0.068861	-0.09215	0.208742	0.076082	0.675345	0.271233	0.915603	0.692357
B3GALT1	0.202909	-0.16235	0.106271	-0.25243	0.133658	0.236318	0.435667	0.060524	0.075674	-0.12437	0.272834	-0.18292	0.687301	0.21059	0.961647	0.117326
SERPINH1	0.08927	-0.12218	0.120099	0.272528	0.509023	0.36967	0.373538	0.040271	0.180017	0.180595	-0.02779	0.330765	0.884375	0.885135	0.428091	0.987623
SERPINB7	0.094366	-0.02908	-0.15058	-0.25219	0.489072	0.83309	0.267953	0.060784	-0.18697	0.107537	-0.05202	-0.00857	0.106711	0.761564	0.367174	0.477456
TNK1	-0.13451	-0.03576	-0.00733	-0.29869	0.318469	0.793567	0.95684	0.024013	-0.10495	0.036116	-0.02918	-0.07496	0.243789	0.594172	0.424546	0.310271
PAGE1	-0.13474	0.055737	0.156185	-0.11332	0.322132	0.686084	0.250355	0.405666	0.052025	-0.35264	0.153611	-0.25242	0.63434	0.008116	0.843142	0.045281
ABCC3	-0.00938	0.342709	-0.17965	-0.03777	0.944804	0.009722	0.181162	0.780271	0.003657	0.283229	-0.14855	0.086043	0.509621	0.971762	0.165052	0.715176
NOL4	0.08	-0.06332	0.273995	-0.30473	0.554149	0.642909	0.039166	0.021176	-0.0434	-0.18547	0.236322	-0.19128	0.388553	0.111271	0.938757	0.104072
TRADD	-0.27561	-0.0474	0.008265	0.003919	0.03798	0.728655	0.951348	0.976918	-0.22982	0.177776	-0.16729	0.119177	0.062215	0.881396	0.136022	0.784906
PNPT1	-0.11493	0.329995	-0.29518	0.202033	0.394609	0.013	0.025806	0.131782	-0.07362	0.476608	-0.16802	0.376308	0.313402	0.999594	0.134957	0.995024
TNFRSF25	-0.16764	0.225675	0.051715	-0.04532	0.216831	0.097589	0.705039	0.740154	-0.08132	0.202126	-0.01467	0.173067	0.29554	0.911028	0.461903	0.874969
MBTPS1	0.012852	0.226513	-0.03531	-0.01576	0.924406	0.093204	0.794297	0.907368	-0.03866	0.370562	-0.03372	0.260787	0.399328	0.994379	0.412983	0.959984
EDF1	-0.02897	-0.13932	0.03493	0.087502	0.83061	0.305811	0.796445	0.517482	-0.19153	0.282234	-0.20531	0.215541	0.103766	0.969836	0.090617	0.922484
CTSF	0.242216	-0.26488	0.180059	0.184274	0.069475	0.048508	0.180154	0.170001	0.266016	-0.24703	0.102934	-0.15165	0.963024	0.048951	0.749482	0.157189
SNX4	-0.03807	0.219854	-0.21103	0.042195	0.778593	0.1035	0.115084	0.75531	-0.15439	0.346346	-0.08087	0.218229	0.152812	0.99081	0.298717	0.927441
SNX3	-0.03149	0.126315	-0.24716	0.090071	0.816134	0.353585	0.063809	0.505211	-0.14299	0.224976	-0.17167	0.194773	0.171558	0.933608	0.129753	0.902705
C19orf2	0.001616	0.241919	-0.2304	0.15994	0.99048	0.072445	0.084666	0.234661	0.044558	0.366586	-0.13116	0.274049	0.615634	0.993891	0.195221	0.967335
EED	-0.09303	0.090823	-0.18263	0.080559	0.491263	0.5056	0.173905	0.551377	-0.09793	0.161868	0.04414	0.104355	0.258653	0.858754	0.613293	0.754959
CTNNA1	0.186275	-0.2571	0.04855	0.031889	0.16533	0.055762	0.71987	0.813832	-0.15353	-0.34762	-0.03236	-0.07648	0.154177	0.008963	0.416429	0.306723
ADAM19	0.097569	-0.38298	0.133315	0.517358	0.470271	0.003577	0.322845	3.77E-05	0.22946	-0.23459	0.231653	0.022354	0.937484	0.058289	0.937135	0.558614
GBF1	-0.21196	0.19312	-0.12428	0.005302	0.116814	0.157756	0.361445	0.969063	-0.30808	0.319179	-0.21398	0.213362	0.018626	0.984695	0.079053	0.922737
CBR1	0.119638	0.415841	-0.19957	-0.09036	0.375388	0.001436	0.136667	0.503854	0.00461	0.445637	-0.24154	0.278275	0.511988	0.998922	0.057105	0.967911
RNMT	0.022458	0.129492	-0.15321	0.158096	0.868299	0.341508	0.255212	0.240173	-0.05904	0.320874	-0.09447	0.29413	0.348356	0.985156	0.268532	0.976379
RNGTT	0.080661	0.194396	-0.22867	0.108122	0.550871	0.151102	0.087091	0.423382	0.049806	0.488111	-0.12005	0.380893	0.628811	0.99971	0.21607	0.995493
GPAA1	-0.03355	-0.00934	-0.00556	0.101735	0.804308	0.945515	0.967259	0.451438	-0.1317	0.348672	-0.28267	0.185877	0.191482	0.991221	0.02996	0.891919
MYH13	-0.02705	-0.23388	0.108498	-0.16185	0.843156	0.085695	0.42605	0.23338	0.131705	-0.34507	0.069854	-0.32303	0.805768	0.01013	0.673852	0.015218
MYOM1	0.265785	-0.23381	0.275752	-0.09928	0.045687	0.082864	0.037875	0.462482	0.206923	-0.37502	0.315238	-0.23339	0.91369	0.005569	0.981435	0.061418
RIPK1	-0.08178	0.332365	-0.2709	0.379493	0.545359	0.012325	0.041526	0.003598	-0.01368	0.595369	-0.28649	0.397625	0.464055	0.999994	0.028199	0.996895
CRADD	-0.24448	0.228575	-0.29842	-0.11533	0.066835	0.090183	0.024148	0.392952	-0.19112	0.219232	-0.19776	0.073914	0.101631	0.928384	0.096423	0.68729
HRK	-0.19568	-0.22664	0.102005	-0.33904	0.144627	0.093016	0.450229	0.009884	-0.02218	-0.44881	0.012249	-0.3405	0.441833	0.000879	0.531825	0.010294

CBR3	0.055311	-0.03665	0.159006	0.069498	0.682794	0.788545	0.237441	0.607466	0.101416	-0.04114	-0.06963	-0.06535	0.748775	0.393016	0.324725	0.333053
TNFSF14	-0.17413	-0.13948	0.25942	0.071447	0.195167	0.30524	0.051333	0.597404	-0.05578	-0.31608	0.232842	-0.15671	0.356367	0.016179	0.938128	0.149164
TNFSF13	0.149852	-0.30227	0.137766	-0.02095	0.265883	0.02356	0.306805	0.877048	0.012834	-0.249	0.128865	-0.1914	0.533731	0.047585	0.800568	0.101289
TNFSF12	0.198811	-0.30018	0.31515	-0.05245	0.138185	0.024591	0.016949	0.698384	0.240181	-0.48344	0.281494	-0.30922	0.946059	0.000333	0.969483	0.018261
TNFSF10	-0.16742	0.199292	-0.17915	0.365762	0.21744	0.144643	0.186451	0.005569	-0.11665	0.519283	-0.03668	0.467758	0.220049	0.999891	0.405461	0.999477
TNFSF9	-0.09402	-0.1107	0.111797	-0.19355	0.490684	0.416677	0.412033	0.15293	0.075693	-0.22115	0.101134	-0.23828	0.69145	0.069841	0.745706	0.055388
ADAM23	0.224468	0.147864	-0.11422	-0.02296	0.096278	0.281329	0.401913	0.866636	-0.07809	-0.12351	0.006203	-0.05615	0.305062	0.209461	0.515937	0.35706
ADAM21	0.051721	0.054388	0.134461	-0.39772	0.705009	0.693299	0.323145	0.002402	0.103889	-0.18431	0.087399	-0.24126	0.753983	0.110059	0.715962	0.053132
ADAM20	0.035621	0.07994	-0.12168	-0.13593	0.792508	0.558105	0.367214	0.313343	0.007354	-0.08174	-0.02358	-0.10383	0.519342	0.294582	0.438905	0.246144
ADAM18	0.030305	-0.20239	0.014381	-0.28093	0.822926	0.134684	0.915442	0.034277	-0.00571	-0.41604	0.104334	-0.33689	0.48499	0.002016	0.7524	0.011028
CBS	0.195649	-0.26621	0.314806	0.020116	0.144696	0.047352	0.017076	0.881928	0.455157	-0.53947	0.375043	-0.34248	0.999259	5.47E-05	0.994433	0.009907
ADAM15	0.009526	0.05919	0.023783	0.148421	0.943935	0.664776	0.860602	0.270528	-0.10412	0.464293	-0.22125	0.374399	0.245535	0.999424	0.072059	0.994817
ADAM9	-0.00423	0.397258	-0.2128	0.147779	0.975086	0.002433	0.112005	0.272629	0.020885	0.550479	-0.11923	0.346524	0.554788	0.999963	0.21766	0.990842
ADAM7	-0.21992	-0.03471	0.052525	-0.18983	0.10339	0.801366	0.700639	0.16113	-0.31381	-0.29847	0.08528	-0.21149	0.017898	0.023214	0.708978	0.081568
CDS2	0.118181	-0.01524	-0.07211	0.214085	0.381271	0.91123	0.593993	0.109798	0.22137	-0.05923	0.0538	0.098074	0.930363	0.347892	0.637205	0.741647
PABPC4	-0.01464	0.397869	-0.38389	0.272263	0.913934	0.002392	0.003199	0.040473	-0.1215	0.750237	-0.26318	0.454669	0.210603	1	0.040344	0.999249
CD164	-0.01225	0.08751	-0.17147	-0.04322	0.92792	0.521311	0.20217	0.749553	-0.10395	0.129792	-0.12981	0.051943	0.245883	0.805026	0.197696	0.634137
TNFRSF14	-0.03904	-0.23329	0.164604	0.175752	0.773078	0.083558	0.221115	0.190973	0.001925	-0.05128	-0.00431	-0.01178	0.505065	0.367522	0.488796	0.469038
RAB11A	-0.04839	0.326374	-0.33073	0.049816	0.720779	0.014092	0.011979	0.712875	-0.17001	0.417959	-0.1466	0.327162	0.129323	0.998076	0.168282	0.986768
RIPK2	0.095573	0.126848	-0.02643	0.181778	0.479443	0.35154	0.845279	0.175961	0.169581	0.232447	0.056441	0.089845	0.870063	0.93997	0.64366	0.723675
TNFRSF6B	-0.02579	-0.20877	0.235136	0.315819	0.850342	0.126113	0.081079	0.017735	-0.04835	0.185981	0.037974	0.219729	0.374822	0.89205	0.5978	0.928847
FADD	-0.21255	0.016287	-0.08006	0.133005	0.112433	0.905165	0.55384	0.323982	-0.23734	0.250771	-0.26455	0.095866	0.056117	0.953617	0.039529	0.736883
SNAP23	0.090536	0.077029	-0.13234	0.127565	0.503009	0.572568	0.32643	0.344337	-0.01144	0.209352	-0.12818	0.2243	0.470277	0.916238	0.203492	0.930731
NAPG	-0.07812	0.368173	-0.28818	0.146672	0.563519	0.005241	0.029715	0.27628	0.066611	0.467362	-0.11852	0.225818	0.669971	0.999471	0.219051	0.934349
NAPA	0.042741	-0.02362	0.06447	0.128012	0.752244	0.862811	0.633752	0.342636	-0.0265	0.285852	-0.21036	0.120764	0.430613	0.972934	0.082717	0.787987
MTMR1	-0.03878	0.357651	-0.27465	0.251008	0.774585	0.006806	0.03868	0.059652	-0.20367	0.569445	-0.26957	0.386339	0.087291	0.999982	0.036664	0.995999
A2LD1	0.071485	-0.13583	0.259	-0.15566	0.59721	0.318188	0.051724	0.247586	0.137941	-0.1862	0.154562	-0.15352	0.819693	0.10768	0.844652	0.154191
MPDZ	0.126133	-0.23119	0.144505	-0.21455	0.349826	0.086464	0.283515	0.109014	0.13092	-0.51101	0.158981	-0.3272	0.807098	0.000142	0.851553	0.013223
SIGLEC5	-0.0943	-0.33172	0.117346	-0.13045	0.485357	0.012507	0.384671	0.333428	-0.09696	-0.30652	0.092507	-0.38254	0.260757	0.019137	0.727208	0.004348
RIOK3	-0.13304	0.389289	-0.44318	0.025191	0.323867	0.003023	0.000555	0.85244	0.120765	0.214685	-0.06295	0.014639	0.787988	0.924037	0.34061	0.538462
TNFRSF18	-0.00053	-0.14434	0.179329	-0.03234	0.996855	0.28854	0.181956	0.81127	0.097627	-0.1149	0.120151	-0.14896	0.740685	0.223517	0.784117	0.161571
MATN4	0.007885	-0.11243	0.224278	-0.05709	0.953579	0.409364	0.093506	0.673153	0.305001	-0.29293	0.26244	-0.24331	0.980352	0.024096	0.959214	0.051612
RGS11	0.198167	-0.09581	0.318422	0.013702	0.139493	0.482408	0.01578	0.91942	0.201267	-0.22121	0.155298	-0.05658	0.910082	0.069788	0.845816	0.354398
RGS9	0.068746	-0.23733	0.196773	-0.0568	0.611368	0.078197	0.142355	0.674728	0.285286	-0.5387	0.351514	-0.35852	0.972685	5.62E-05	0.991053	0.007209
DLK1	-0.11444	-0.15808	0.117044	-0.23348	0.396646	0.244578	0.385904	0.080481	0.162145	-0.48636	0.228051	-0.44505	0.859171	0.000305	0.934056	0.000971
FBP2	-0.19219	-0.06755	0.122674	-0.20113	0.155886	0.624142	0.36774	0.137164	-0.12398	-0.31457	0.059571	-0.27236	0.205846	0.016621	0.651257	0.033535
FPGT	0.11595	0.157217	-0.07306	0.105483	0.39039	0.247198	0.589112	0.434852	-0.05979	0.241513	0.010801	0.214755	0.346523	0.947058	0.528069	0.924105
TNFRSF11A	-0.00735	-0.23988	0.103746	-0.02521	0.956723	0.07496	0.442493	0.852336	0.104878	-0.22752	0.051607	-0.28119	0.756053	0.064175	0.631819	0.029176
TNFRSF10C	0.209965	-0.11056	0.196176	0.219987	0.116972	0.417265	0.143593	0.100118	0.223833	-0.04532	0.109363	-0.00568	0.932592	0.382431	0.762736	0.485061
TNFRSF10C	-0.03936	-0.5802	0.122186	-0.04782	0.773365	3.44E-06	0.369666	0.726329	-0.22068	-0.56396	-0.00717	-0.42786	0.07259	2.74E-05	0.48158	0.001685
TNFRSF10B	-0.07439	0.10583	-0.08964	0.240076	0.582351	0.437583	0.507262	0.072053	-0.03737	0.403378	-0.15093	0.24883	0.403728	0.996998	0.164044	0.950352
SCEL	-0.10046	0.44207	-0.19999	-0.23406	0.461331	0.000727	0.139464	0.082521	-0.07545	0.617743	-0.22608	0.253516	0.309121	0.999998	0.067679	0.955435
TNFRSF10A	-0.15044	0.200715	-0.12853	0.469114	0.263982	0.138	0.340656	0.000232	-0.04047	0.385431	-0.2322	0.245611	0.395908	0.995534	0.064666	0.948053
DYRK4	-0.02634	-0.40292	0.139018	-0.06804	0.847183	0.002289	0.306863	0.618281	-0.05418	-0.36432	0.151281	-0.16543	0.360314	0.006402	0.839399	0.135949
PEX11B	-0.07316	0.139963	-0.18149	0.242745	0.588629	0.303555	0.176669	0.068851	0.074936	0.171256	-0.33587	0.132535	0.689682	0.872436	0.012047	0.810038
ACTN2	0.370251	-0.24972	0.210342	-0.00598	0.004584	0.063442	0.1163	0.964764	0.227172	-0.49772	0.282868	-0.29619	0.935529	0.000216	0.970136	0.022823
PEX11A	0.086602	0.005518	-0.14587	-0.3064	0.52566	0.968109	0.283386	0.021637	-0.05149	-0.18268	-0.13241	-0.24826	0.368481	0.11486	0.195773	0.050052
SUCLG2	-0.16889	0.239742	-0.34834	0.124501	0.209145	0.075132	0.007922	0.356144	-0.14614	0.481773	-0.29854	0.317971	0.166254	0.999651	0.023184	0.984359
SUCLG1	0.068777	0.185158	-0.18907	0.266319	0.614492	0.17594	0.16284	0.047257	-0.15726	0.549002	-0.34689	0.280205	0.148301	0.999961	0.009785	0.970361
SUCLA2	0.002836	0.157588	-0.31825	0.117991	0.983296	0.246071	0.015838	0.382043	-0.08285	0.385703	-0.1379	0.279063	0.292054	0.995943	0.183164	0.969817

CREG1	0.19038	0.170277	-0.14288	0.313824	0.156043	0.209595	0.289005	0.017443	0.154318	0.373789	-0.08684	0.297377	0.847078	0.99475	0.285273	0.977628
TRIM24	0.020424	0.258504	-0.15076	0.117214	0.880135	0.054396	0.26298	0.385209	0.040097	0.205006	-0.02555	0.171387	0.604332	0.914143	0.433849	0.87262
IL18RAP	-0.22255	-0.09819	-0.17639	0.555795	0.096127	0.471553	0.189353	7.19E-06	-0.02371	-0.35659	0.068965	-0.17762	0.437844	0.007497	0.673699	0.118818
IL1RL2	0.08877	0.051273	-0.03506	-0.07727	0.511407	0.707447	0.795705	0.567784	0.260023	0.085885	-0.02153	-0.05656	0.957737	0.712587	0.444825	0.356058
IL18R1	0.12425	0.068964	9.93E-05	0.430258	0.361574	0.616863	0.999421	0.000934	-0.17712	0.31074	-0.08188	0.520242	0.119488	0.982218	0.296427	0.999895
CCIN	-0.14928	-0.08521	0.064669	-0.2125	0.267735	0.532336	0.632702	0.112523	-0.11413	-0.36732	0.026138	-0.258	0.225051	0.006016	0.567665	0.041715
GALR2	-0.05335	0.000489	0.149517	-0.23571	0.693481	0.997144	0.266968	0.07755	0.062493	-0.22408	0.134185	-0.31076	0.660045	0.067185	0.810244	0.017774
CCNK	-0.34626	0.274716	-0.17264	0.085752	0.008329	0.04046	0.199085	0.525922	-0.04341	0.12017	-0.01418	0.180717	0.387261	0.786836	0.463167	0.885294
DPM1	-0.0041	0.247082	-0.24767	0.120946	0.975871	0.066377	0.063246	0.370152	-0.07946	0.379426	-0.05919	0.333998	0.299809	0.995347	0.349658	0.988351
CDKL1	-0.07933	-0.08877	-0.04723	-0.1964	0.557483	0.515293	0.727165	0.143131	-0.12311	-0.15912	0.11956	-0.15573	0.2075	0.145429	0.782973	0.150694
BANF1	-0.15044	0.004495	0.046868	-0.23273	0.26841	0.974017	0.731596	0.084333	-0.07104	-0.33058	0.098365	-0.30903	0.321419	0.01328	0.737363	0.019436
WDR22	-0.08744	0.279916	-0.21451	0.123284	0.521631	0.038471	0.112379	0.365344	0.074587	0.207902	-0.02702	0.093046	0.688866	0.917196	0.430084	0.730736
FGF18	0.141616	-0.13998	0.296248	-0.07669	0.29335	0.303481	0.02525	0.570709	0.156232	-0.50297	0.226489	-0.35697	0.850094	0.000184	0.932686	0.007441
DPM2	-0.06305	0.197221	-0.05735	-0.07061	0.641288	0.145135	0.671767	0.601704	-0.00585	0.286703	-0.0721	-0.05136	0.484618	0.973306	0.31895	0.36731
SAP30	0.069803	-0.03224	0.240969	-0.1136	0.605885	0.813538	0.070968	0.400129	0.059329	-0.33959	0.148848	-0.37375	0.652347	0.010475	0.835432	0.005254
HESX1	-0.0447	-0.11426	0.123778	-0.38847	0.741297	0.401749	0.358969	0.002825	-0.1458	-0.31287	-0.08318	-0.16954	0.166815	0.017126	0.293476	0.129991
INPP4B	-0.06493	0.231812	-0.1347	0.070095	0.631329	0.085596	0.317788	0.604374	0.03425	0.405961	-0.20164	0.218685	0.58837	0.99717	0.094672	0.925523
FGF17	-0.01712	-0.14457	0.226313	-0.28887	0.899392	0.287742	0.09049	0.029307	0.007816	-0.40632	0.151052	-0.34801	0.520556	0.002539	0.839029	0.008895
FGF16	0.069746	-0.17712	0.278333	-0.10254	0.609502	0.195789	0.037791	0.452037	0.069784	-0.24459	0.123348	-0.13365	0.677542	0.050684	0.790239	0.187953
CES2	-0.2105	0.100805	-0.21611	-0.11968	0.119418	0.463995	0.109654	0.379627	-0.35077	0.591678	-0.3832	0.311722	0.008422	0.999993	0.004685	0.982522
LIN7A	-0.02619	-0.32161	0.10237	-0.0308	0.846684	0.015649	0.448602	0.820057	0.366457	-0.64022	0.216593	-0.50203	0.993875	8.29E-07	0.923511	0.000189
IQGAP1	0.092747	0.222203	-0.27068	0.136341	0.49259	0.099773	0.041703	0.311884	-0.02616	0.442188	-0.11322	0.285086	0.431489	0.998954	0.229484	0.972596
NRP2	0.070622	0.090995	0.102668	0.082121	0.601652	0.50479	0.447275	0.54366	0.15543	0.085644	0.151772	0.122652	0.848836	0.714278	0.840192	0.791618
NRP1	0.294581	-0.0173	0.278877	0.472217	0.029022	0.901203	0.039227	0.000273	0.145723	0.233727	0.149077	0.437839	0.833056	0.941013	0.835807	0.998829
CCBL1	-0.08994	-0.02306	0.098104	-0.38792	0.505816	0.866037	0.467831	0.002868	-0.15261	0.028357	-0.11352	-0.03025	0.155641	0.574197	0.228888	0.42092
SYNGAP1	-0.16972	-0.32997	0.065358	-0.36351	0.206899	0.013006	0.629077	0.005445	-0.19646	-0.4793	0.025986	-0.37906	0.095336	0.000376	0.567275	0.00469
CD84	0.0065	-0.34558	0.049153	0.600758	0.961725	0.00909	0.716535	7.79E-07	-0.17637	-0.07919	-0.12299	0.077925	0.123244	0.302547	0.213198	0.694553
GMPS	0.075988	0.361089	-0.27324	0.204365	0.574255	0.006255	0.039731	0.127288	0.183156	0.467435	-0.09468	0.414394	0.888459	0.999472	0.26807	0.997903
TMEM11	-0.2711	0.276004	-0.15734	-0.15022	0.041373	0.039492	0.242456	0.26469	-0.27957	0.434617	-0.3495	0.173774	0.02994	0.998728	0.009304	0.875949
SOCS2	0.064355	-0.21357	0.081825	0.303011	0.634359	0.114002	0.545114	0.021954	0.242095	-0.23707	-0.00459	-0.11016	0.945451	0.058438	0.488199	0.23564
GGH	0.006732	0.320941	-0.29403	0.169316	0.960728	0.016891	0.027837	0.212214	-0.31499	0.584977	-0.33948	0.482412	0.016495	0.99999	0.011261	0.999657
CFLAR	-0.17829	-0.06285	-0.13733	0.272288	0.184535	0.645396	0.308342	0.040454	-0.04452	0.071212	-0.07718	0.019084	0.384457	0.680925	0.307161	0.550088
WISP3	0.025634	-0.13202	0.335707	-0.22441	0.851246	0.336665	0.011425	0.096358	0.046576	-0.29891	0.20106	-0.33157	0.619366	0.023044	0.904681	0.013039
WISP2	0.091783	-0.43273	0.245635	0.05945	0.497118	0.000866	0.065512	0.660456	0.458145	-0.55993	0.298863	-0.47994	0.999317	2.60E-05	0.976938	0.000369
WISP1	0.245803	-0.22565	0.406813	0.235142	0.065323	0.094489	0.001687	0.078284	0.221671	-0.25565	0.247432	-0.06311	0.930638	0.043188	0.949363	0.338464
HDAC3	-0.01968	0.255599	-0.19037	0.275811	0.885525	0.059639	0.159905	0.039636	-0.29968	0.697354	-0.34086	0.533037	0.021516	1	0.010974	0.999932
PROM1	-0.18234	-0.03677	-0.08144	0.014283	0.182722	0.791802	0.554486	0.917571	-0.14833	-0.2353	0.07774	-0.13085	0.162612	0.057729	0.69413	0.193028
NIACR2	-0.08771	-0.02367	-0.00608	-0.03618	0.516504	0.86254	0.96421	0.789323	0.004937	0.010135	-0.09398	-0.22807	0.512987	0.526648	0.26958	0.063703
KSR1	-0.1163	0.179592	0.190011	0.069732	0.388963	0.185359	0.156863	0.606253	-0.16748	0.256829	-0.19667	0.109361	0.132956	0.957555	0.097689	0.765309
ANKRD13A	0.105132	-0.17192	0.030538	0.275777	0.436387	0.205174	0.821589	0.037857	0.106755	-0.08827	0.145622	-0.115	0.75995	0.279823	0.830079	0.22332
ALKBH1	0.014463	0.104056	-0.1735	0.083116	0.914961	0.445346	0.196811	0.538772	-0.06412	0.187151	-0.11042	0.094148	0.336017	0.893512	0.235121	0.733145
DLEU2	0.025562	0.303396	-0.05771	0.068888	0.850291	0.023022	0.669795	0.610629	0.277999	0.055313	0.079182	0.086625	0.967773	0.640906	0.695296	0.714239
TSC22D1	0.029246	0.231243	-0.21712	-0.07052	0.829019	0.086389	0.104741	0.602185	0.150508	0.148477	-0.1797	-0.09993	0.840958	0.837633	0.118762	0.254389
CCK	-0.01226	-0.0567	0.199095	-0.17449	0.927903	0.678077	0.137612	0.194228	0.086932	-0.38486	0.180972	-0.33308	0.717174	0.004133	0.882916	0.011851
KAT2B	0.276907	-0.18286	0.030252	0.220704	0.037046	0.177359	0.823234	0.098988	0.463927	-0.27478	0.229696	-0.21996	0.999336	0.033868	0.93318	0.073268
CDK5R1	-0.08108	-0.02164	0.117382	-0.16497	0.548784	0.874223	0.384525	0.220078	0.049867	-0.2838	0.066644	-0.27347	0.628965	0.02798	0.668205	0.03296
AKAP4	0.188701	-0.17492	0.372183	-0.22579	0.159795	0.197257	0.00436	0.091254	0.193524	-0.4765	0.29396	-0.57729	0.901239	0.000407	0.975002	1.33E-05
ASAP2	-0.03973	0.435463	-0.12761	0.028266	0.769182	0.000796	0.344151	0.834668	0.243644	0.474323	-0.05741	0.182048	0.946609	0.999502	0.355624	0.884324
ALDH1A2	0.167996	-0.18771	0.208728	-0.00864	0.215853	0.169964	0.122635	0.949634	0.301542	-0.46235	0.162035	-0.29922	0.977943	0.000693	0.853335	0.022926
NR1I2	0.011737	-0.25052	0.28912	-0.41018	0.930947	0.062562	0.029164	0.00153	-0.08668	-0.39429	0.12411	-0.34513	0.283382	0.00335	0.791682	0.00941

FCGBP	0.046899	-0.32133	0.346511	0.234191	0.729023	0.015743	0.008278	0.079532	-0.06072	-0.25315	0.145864	-0.05951	0.344253	0.044803	0.830483	0.347213
PROZ	0.022286	-0.18806	0.158741	-0.07216	0.869298	0.165137	0.238233	0.593734	0.147678	-0.27401	0.144156	-0.22104	0.836313	0.032685	0.827609	0.069944
STK19	-0.17031	-0.10058	0.009781	0.090566	0.205307	0.460774	0.942434	0.502864	-0.31402	0.29472	-0.26829	0.145468	0.016784	0.97661	0.037382	0.832629
CCKAR	-0.17356	-0.09917	-0.11965	-0.18655	0.200815	0.471312	0.379773	0.168616	-0.03062	-0.19857	0.115915	-0.09374	0.421804	0.098152	0.770413	0.272519
LDB1	0.093912	-0.05889	-0.0841	0.116854	0.487147	0.666385	0.53396	0.386678	0.139283	0.077145	-0.07515	0.024557	0.822042	0.694827	0.311845	0.564346
APLN	-0.02069	-0.06688	0.167853	-0.20385	0.878606	0.624311	0.212009	0.128262	0.024923	-0.33528	0.142808	-0.30368	0.565295	0.01137	0.825321	0.0201
PER3	0.14418	0.12821	-0.11884	0.038764	0.284608	0.346352	0.378591	0.774657	0.030845	-0.03429	-0.03649	-0.11196	0.580626	0.410503	0.405956	0.229404
PER2	0.00726	0.003684	-0.08586	-0.23392	0.957648	0.978701	0.529233	0.082715	0.008958	0.189456	-0.1514	-0.18599	0.523286	0.893705	0.163286	0.11062
SYNJ1	0.204191	0.170827	0.037088	0.25037	0.127619	0.208104	0.784159	0.060325	0.167302	0.234082	-0.10219	0.209149	0.864002	0.93915	0.2546	0.916028
ST3GALS	0.382843	-0.28404	0.287293	0.243538	0.003589	0.035587	0.031801	0.070497	0.529422	-0.43086	0.190419	-0.35005	0.999923	0.001399	0.894884	0.008544
CCKBR	0.022434	-0.08687	0.26045	-0.19472	0.868438	0.524392	0.050382	0.146647	0.148324	-0.33739	0.184206	-0.31446	0.837381	0.010923	0.887113	0.016651
IER3	-0.05279	0.229653	-0.0979	0.076368	0.696547	0.088635	0.468766	0.572336	-0.00855	0.23648	-0.12653	0.072744	0.477521	0.943207	0.203768	0.68454
SYNJ2	-0.06372	0.256222	-0.04414	0.025154	0.637699	0.056638	0.744386	0.852657	0.039214	0.495046	-0.17807	0.222525	0.602084	0.999765	0.120942	0.931415
CDC123	-0.06232	0.252365	-0.24016	0.317944	0.648198	0.063054	0.074605	0.016943	-0.18302	0.625104	-0.30075	0.4676	0.111721	0.999998	0.022351	0.999475
ARHGEF7	0.066283	0.300643	0.001727	0.017056	0.627419	0.025728	0.989921	0.900712	0.173446	0.129102	-0.00838	0.008229	0.875495	0.803753	0.478207	0.521642
C6orf153	-0.11793	0.268222	-0.1965	0.118721	0.386709	0.04771	0.146636	0.383495	-0.14763	0.582786	-0.30708	0.328974	0.16376	0.999989	0.020092	0.987204
VNN2	-0.24704	-0.44601	-0.01213	0.0991	0.063937	0.000571	0.928658	0.463303	-0.36571	-0.53672	0.005598	-0.35537	0.006221	6.02E-05	0.514556	0.007684
VNN1	-0.19312	-0.11938	0.01135	-0.08937	0.150064	0.380831	0.933222	0.508557	-0.45499	-0.03853	-0.16837	-0.10434	0.000744	0.39967	0.134452	0.245068
SPHK1	0.268723	-0.08392	0.167488	0.064084	0.043258	0.538591	0.213017	0.635789	0.220856	0.000746	0.137539	0.043576	0.929891	0.501963	0.816198	0.613155
SQSTM1	0.037314	0.220964	-0.19487	0.098554	0.78483	0.104978	0.150093	0.469901	-0.11816	0.405065	-0.34032	0.263524	0.217076	0.997385	0.011085	0.961598
SGPL1	0.00069	0.399401	-0.27185	-0.08251	0.995974	0.002293	0.042681	0.54549	-0.19455	0.549229	-0.30249	0.302678	0.100156	0.999953	0.022979	0.978358
FUBP1	-0.01548	0.228038	-0.25456	0.161053	0.909028	0.090962	0.056012	0.231379	0.055209	0.376746	-0.07977	0.327721	0.642227	0.995071	0.301213	0.986904
CDC16	0.013765	0.13108	-0.15195	0.13111	0.919055	0.335571	0.259187	0.330984	-0.16134	0.405403	-0.14806	0.338054	0.142042	0.997405	0.165867	0.989213
ZNF259	0.148009	0.045794	0.044959	0.142849	0.27632	0.739898	0.742142	0.293593	-0.10427	0.533218	-0.24568	0.25402	0.245215	0.999932	0.051893	0.955763
NAE1	-0.03999	0.316694	-0.37191	0.179182	0.767702	0.017405	0.004391	0.182319	-0.01126	0.531444	-0.18681	0.371793	0.470407	0.999928	0.109583	0.994523
SLC5A6	0.053346	0.245972	-0.11799	0.289244	0.693501	0.067646	0.38203	0.029091	-0.0404	0.641301	-0.34022	0.388878	0.394897	0.999999	0.011107	0.996218
DDX18	0.100162	0.157017	-0.28569	0.271306	0.4585	0.247807	0.031223	0.041211	-0.00377	0.530523	-0.1886	0.399131	0.490079	0.999925	0.107346	0.997
TAX1BP1	-0.0464	0.077362	-0.18451	-0.07829	0.731781	0.570907	0.169453	0.562699	-0.16351	0.07345	-0.02336	0.013272	0.138786	0.6862	0.439468	0.534879
MCM3AP	-0.07988	0.090538	-0.15251	0.177514	0.554729	0.506941	0.257404	0.186491	-0.1969	0.443975	-0.27776	0.272194	0.094835	0.999002	0.032348	0.966377
KRIT1	-0.01649	0.1986	-0.14848	0.008429	0.903108	0.142286	0.27032	0.950381	0.169715	0.108477	0.009567	0.043193	0.870253	0.763499	0.524866	0.612185
EIF2B4	0.028151	0.114906	0.039274	0.203499	0.835334	0.399072	0.771773	0.128944	0.170689	0.119883	0.067038	0.022798	0.871635	0.786279	0.669141	0.55977
EIF2B3	0.049687	0.146366	-0.2203	0.121503	0.713587	0.281746	0.099625	0.367936	-0.08052	0.25394	-0.24477	0.122819	0.297391	0.955711	0.052557	0.791938
EIF2B2	-0.10646	0.040033	-0.23944	0.125587	0.434826	0.771673	0.075509	0.35639	-0.28926	0.349546	-0.1703	0.177457	0.0256	0.99137	0.131689	0.880969
EIF2B5	-0.0986	0.180709	-0.16269	0.207609	0.473885	0.190989	0.235315	0.128278	-0.23698	0.625296	-0.30766	0.278789	0.056397	0.999998	0.019893	0.969686
EIF2S2	0.033749	0.10382	-0.15391	-0.00366	0.803186	0.446387	0.253021	0.978468	-0.21222	0.256265	-0.30847	0.237201	0.078395	0.9572	0.01962	0.943772
CPNE3	0.072457	0.328891	-0.30235	0.075506	0.592217	0.013325	0.022258	0.57669	-0.17247	0.489875	-0.20133	0.397778	0.125867	0.999725	0.092387	0.996905
BUD31	-0.17415	-0.13127	-0.14733	-0.23386	0.195107	0.334882	0.274105	0.079971	-0.4385	0.046559	-0.23366	0.038487	0.001151	0.620675	0.061193	0.600229
MTMR3	-0.06554	0.081612	-0.25709	-0.15232	0.62814	0.549872	0.053533	0.258013	0.068209	0.108968	0.096906	-0.05328	0.673793	0.764504	0.736719	0.362537
MTMR2	-0.02335	0.154613	-0.20472	-0.11014	0.86313	0.255214	0.12662	0.41471	-0.0654	0.115405	-0.11792	0.067233	0.332948	0.777486	0.220213	0.67146
PRPF4B	-0.04657	0.243315	-0.18592	0.128516	0.730849	0.070762	0.166143	0.340723	0.052124	0.262088	-0.04964	0.167342	0.634587	0.960758	0.373032	0.866844
ACTN3	0.019891	-0.19132	0.214648	-0.20745	0.883243	0.157809	0.108846	0.121517	-0.19697	-0.19478	0.105916	-0.29597	0.094752	0.097286	0.755676	0.022906
CCNA2	-0.15299	0.362339	-0.10258	-0.16266	0.260288	0.006558	0.451847	0.231013	-0.14186	0.583513	-0.29445	0.368979	0.173498	0.99999	0.024798	0.994189
CCNA1	-0.25799	-0.33587	0.031091	0.179223	0.054892	0.012176	0.820059	0.186279	-0.08696	-0.3059	0.08416	-0.02952	0.285024	0.020498	0.706486	0.423683
CPNE1	-0.01647	0.244046	-0.14153	0.202319	0.904105	0.072561	0.298126	0.134814	-0.04539	0.574309	-0.23206	0.339232	0.382278	0.999985	0.062524	0.989454
AP1S2	0.251969	-0.2367	0.222522	0.174306	0.058649	0.079016	0.09617	0.194707	0.273772	-0.22453	0.34694	-0.0924	0.965604	0.069063	0.98948	0.273033
AP1G2	-0.15824	0.226297	-0.18139	-0.04252	0.248544	0.099878	0.185054	0.757906	-0.19741	0.534267	-0.15804	0.270318	0.094247	0.999934	0.149897	0.965385
AP1M1	-0.09335	-0.13029	-0.00583	0.147852	0.489762	0.338503	0.965656	0.27239	-0.03706	0.099173	-0.09851	0.049147	0.403403	0.744003	0.259847	0.627164
GYG2	0.03133	-0.18924	0.160199	-0.36857	0.81704	0.162464	0.233895	0.004787	0.042136	-0.45319	0.043038	-0.45115	0.608275	0.000885	0.60926	0.000934
P11	-0.04328	-0.08888	0.124195	-0.1514	0.749195	0.514772	0.357338	0.260927	0.057442	-0.21216	0.173594	-0.30807	0.647724	0.078462	0.872944	0.01863
CCNB1	-0.03821	0.282933	-0.15857	-0.17196	0.779808	0.036343	0.243099	0.20507	-0.21218	0.648531	-0.25902	0.41079	0.078436	0.999999	0.042888	0.997714

SGCE	0.306276	-0.34916	0.18419	0.131707	0.020499	0.008351	0.170199	0.328767	0.387281	-0.52597	0.414528	-0.26646	0.996082	8.70E-05	0.99768	0.036727
CACNA1I	-0.08348	-0.13283	0.237979	-0.16906	0.536963	0.329103	0.074651	0.208683	-0.00503	-0.30731	0.145862	-0.33199	0.486756	0.018879	0.83048	0.012097
CACNA1H	0.147227	-0.25302	0.358556	-0.14055	0.274445	0.059907	0.006167	0.297027	0.089833	-0.4284	0.340326	-0.27458	0.723648	0.001488	0.988916	0.032393
TRIM4	0.043789	0.018408	-0.21169	0.144966	0.748627	0.893885	0.117301	0.286422	0.111563	0.377553	-0.05473	0.24404	0.769786	0.995155	0.360508	0.948916
CACNA1G	0.055432	0.005418	0.341042	-0.01174	0.682138	0.968391	0.009429	0.930955	0.10254	-0.15473	0.086173	-0.10252	0.75115	0.152269	0.713231	0.248889
TIMELESS	-0.13095	0.23726	-0.00962	0.153035	0.336069	0.081133	0.943887	0.260153	-0.15699	0.621135	0.033145	0.472627	0.151524	0.999997	0.584567	0.999478
BCL10	0.055328	0.388116	-0.07784	0.205156	0.685471	0.003412	0.56853	0.129315	-0.03864	0.683585	-0.23699	0.433008	0.399379	1	0.058506	0.998675
HERC3	0.159715	0.031605	-0.12101	0.148015	0.235328	0.817132	0.369907	0.271858	0.15347	-0.03925	0.042173	-0.18578	0.845729	0.397823	0.608367	0.108204
CCNC	-0.00305	0.323681	-0.24482	0.270507	0.982054	0.014955	0.06644	0.041836	0.107116	0.51179	-0.18936	0.332358	0.760696	0.999861	0.106408	0.987987
HERC2	0.153916	0.144146	0.026923	0.189931	0.257386	0.293738	0.843853	0.160899	-0.02887	0.372851	-0.25885	0.207324	0.424464	0.994644	0.042993	0.916594
HERC1	0.176441	-0.06781	-0.10482	0.405686	0.189212	0.619472	0.437781	0.001743	0.278524	0.198075	0.044134	0.306764	0.968035	0.903935	0.611973	0.9798
BSN	-0.0407	-0.18689	0.22682	-0.21566	0.763697	0.167837	0.089752	0.107141	0.027726	-0.32324	0.236314	-0.32223	0.572564	0.01422	0.940957	0.014484
FOXH1	0.128706	-0.07595	0.325166	-0.24787	0.340004	0.577987	0.013586	0.063023	0.213637	-0.39228	0.326502	-0.27612	0.923008	0.003505	0.985701	0.031619
PHOX2B	-0.01998	-0.22861	0.258545	-0.04714	0.883816	0.093197	0.054356	0.730077	-0.03296	-0.32762	0.176787	-0.17771	0.414899	0.014013	0.874512	0.121419
MBD4	-0.01702	0.201954	-0.08705	0.244902	0.899973	0.135534	0.519631	0.066346	0.217419	0.335079	0.144181	0.225344	0.926673	0.988587	0.827653	0.933933
MBD2	-0.10618	0.454697	-0.28892	0.118008	0.431816	0.000431	0.029282	0.381977	0.079812	0.460278	-0.11365	0.263948	0.700993	0.999356	0.228642	0.961844
FAM127A	0.379623	0.071036	0.203788	0.361711	0.003586	0.602885	0.12839	0.005699	0.47324	0.085417	0.114777	0.180022	0.999552	0.713765	0.773604	0.884381
RAB7L1	0.14994	-0.24855	0.099227	0.526356	0.265602	0.064725	0.462724	2.61E-05	0.184499	-0.18783	0.111238	0.091467	0.890176	0.105647	0.766531	0.727263
SKAP2	0.137054	-0.15018	0.020269	0.154608	0.309337	0.269248	0.881036	0.250835	0.048466	-0.26405	0.192678	-0.04761	0.625461	0.038099	0.897614	0.376693
WASF1	0.299892	0.210482	-0.00616	-0.11012	0.024734	0.122962	0.964073	0.419121	0.270658	0.177574	0.046021	-0.01915	0.965567	0.881125	0.617983	0.449737
BAIAP3	-0.20615	-0.19751	0.03923	-0.30414	0.123927	0.144538	0.772026	0.021443	-0.21562	-0.25298	-0.00748	-0.20102	0.07505	0.044913	0.480545	0.09019
FUBP3	0.063257	0.057192	-0.31153	0.152341	0.64325	0.678331	0.01943	0.262346	0.06328	0.33766	-0.26048	0.224517	0.660183	0.988349	0.043845	0.930927
CCND2	0.325964	-0.21403	0.244262	0.229986	0.014221	0.116622	0.069638	0.088161	0.306286	-0.26153	0.211728	0.059743	0.980784	0.03957	0.918678	0.653356
TOP3B	-0.22983	0.103655	-0.01371	-0.06235	0.085467	0.447111	0.919377	0.64499	-0.45666	0.415025	-0.26908	0.218078	0.000808	0.997707	0.038677	0.924943
CDK5R2	0.017898	-0.09746	0.305278	-0.12152	0.894872	0.474848	0.020935	0.367886	0.078296	-0.44885	0.019099	-0.35182	0.695406	0.000992	0.548967	0.008894
KYNU	-0.15647	0.004334	-0.06044	0.544749	0.245102	0.97471	0.655162	1.18E-05	-0.35864	0.44901	-0.12746	0.388646	0.007192	0.999126	0.202026	0.996199
AP3D1	0.078313	-0.05715	0.121998	0.027641	0.56256	0.675684	0.365972	0.838273	0.079298	0.234226	0.003722	0.126471	0.699808	0.941415	0.509679	0.798853
SNORD73A	0.054325	0.179581	-0.07899	0.382886	0.688159	0.185387	0.559195	0.003286	0.094501	0.412538	0.041484	0.296304	0.733916	0.997808	0.606638	0.977221
BTRC	-0.03332	0.233999	-0.25778	-0.19203	0.805653	0.082602	0.052875	0.152429	-0.10024	0.198326	-0.16338	0.205187	0.253727	0.906794	0.141782	0.914336
CCND3	0.02636	-0.33677	0.118595	0.052589	0.845673	0.011151	0.379596	0.697637	0.139449	-0.41836	0.132898	-0.31018	0.822332	0.001906	0.807929	0.017957
HIST1H3F	-0.1611	0.088516	-0.15941	-0.03804	0.231251	0.516512	0.236233	0.778745	-0.16561	0.4336	-0.23513	0.255933	0.135677	0.998695	0.059993	0.956989
HIST1H2AC	0.026985	0.025913	0.042425	-0.11122	0.842062	0.849645	0.754018	0.410143	-0.16259	0.28396	-0.15163	0.176813	0.140167	0.972093	0.160035	0.880101
HIST1H2BJ	-0.11879	0.103973	-0.26382	0.023141	0.383235	0.449993	0.049452	0.86557	-0.2016	0.410357	-0.23446	0.345062	0.089546	0.997691	0.060545	0.990577
H1FX	-0.0181	-0.20576	0.152955	-0.01807	0.893705	0.128165	0.255998	0.893852	0.06596	-0.16312	0.04422	-0.22115	0.668409	0.139371	0.613491	0.069837
MGAM	-0.14308	-0.45256	-0.09712	-0.19979	0.297376	0.000591	0.480584	0.143621	-0.27772	-0.41507	-0.00173	-0.29484	0.032365	0.00229	0.495566	0.024643
CHRNA6	-0.09766	-0.07827	0.075978	-0.11779	0.473974	0.570049	0.577834	0.387248	0.006587	-0.32054	0.129611	-0.29209	0.517326	0.014934	0.801942	0.024435
P4HA2	-0.15461	-0.10447	-0.04803	-0.17444	0.255223	0.447807	0.725179	0.19851	-0.29645	0.013236	-0.15586	0.022667	0.022723	0.534786	0.153292	0.559428
USP13	0.246332	-0.21186	0.010942	0.050572	0.064727	0.117	0.935612	0.70871	0.248705	-0.32739	0.316871	-0.15069	0.952211	0.013177	0.983031	0.158739
WASL	0.089257	0.460323	-0.215	0.013048	0.509085	0.000357	0.108252	0.923254	0.090826	0.551721	0.001411	0.256395	0.725848	0.999965	0.503669	0.957282
RSPH1	-0.12309	-0.11381	0.032068	-0.25804	0.361659	0.403598	0.812806	0.05263	-0.14543	-0.29349	0.084467	-0.20114	0.167442	0.023873	0.709411	0.090059
UMODL1	-0.22579	-0.25552	0.08766	-0.23398	0.091258	0.057343	0.516722	0.079812	-0.13502	-0.38073	0.024451	-0.28909	0.185477	0.004524	0.563334	0.025675
SERPINB12	-0.11572	0.018085	0.056318	-0.32672	0.391354	0.89475	0.677336	0.013119	-0.18451	-0.26818	0.034603	-0.23737	0.109815	0.035776	0.589266	0.056097
SERPINB11	-0.1615	0.356494	-0.23334	-0.14064	0.230067	0.007001	0.080661	0.296712	-0.15304	0.373595	-0.15784	0.093871	0.154954	0.994728	0.150207	0.732541
WNT3A	-0.06113	-0.16459	0.157121	-0.09312	0.651484	0.225436	0.243119	0.490824	-0.00851	-0.28616	0.136771	-0.29577	0.477617	0.026933	0.814845	0.022981
HPS4	0.061607	0.238557	0.02911	-0.10304	0.648931	0.076629	0.829805	0.445626	-0.12196	0.339724	-0.14762	0.205726	0.209703	0.989553	0.166596	0.91491
LMLN	-0.13951	-0.10747	-0.01629	-0.21392	0.300649	0.430468	0.904283	0.110075	-0.27318	-0.12151	0.032253	-0.03271	0.03311	0.210566	0.583294	0.414583
SIGLEC10	0.014055	-0.36621	0.244738	0.05319	0.917353	0.005506	0.066534	0.694351	-0.02205	-0.41386	0.245066	-0.31941	0.442182	0.002124	0.947656	0.015241
GAL3ST3	0.096748	-0.02183	0.329357	-0.0675	0.474034	0.873128	0.012359	0.617859	0.175808	-0.33722	0.20801	-0.1452	0.878739	0.010959	0.914837	0.167829
NAV3	0.30601	-0.33925	0.210012	0.101684	0.020614	0.010534	0.116889	0.451663	0.069	-0.44853	0.288728	-0.24827	0.675677	0.000885	0.972793	0.048088
NAV1	0.005349	0.33279	-0.15166	-0.08044	0.968501	0.012208	0.260091	0.551982	-0.08061	0.654686	-0.02968	0.508558	0.297176	1	0.42327	0.999846

NAV2	-0.04786	-0.05612	0.113123	-0.2673	0.72368	0.681217	0.402124	0.044423	-0.26028	-0.05527	0.024182	-0.04163	0.040322	0.357619	0.562643	0.391765
CCNE1	0.004003	0.121922	-0.06383	-0.09039	0.976426	0.370709	0.637124	0.503714	-0.17411	0.298729	-0.16928	0.09493	0.123592	0.978133	0.133138	0.734851
PPP1R3F	-0.00304	-0.28786	0.205662	-0.26725	0.982122	0.031447	0.12484	0.044464	-0.03329	-0.47819	0.058767	-0.40586	0.413068	0.000388	0.649311	0.002567
KCNK17	0.030427	-0.17822	0.148445	-0.2459	0.822228	0.188794	0.270452	0.065217	0.087182	-0.42169	0.197275	-0.31671	0.717734	0.001757	0.903016	0.015999
ARHGAP11	-0.15138	0.150396	-0.26258	0.062173	0.260977	0.26856	0.048461	0.645915	0.096108	0.458923	-0.18108	0.308179	0.737408	0.999331	0.116936	0.981405
ABCC10	-0.06715	0.06095	0.015194	0.074945	0.619675	0.655427	0.910684	0.579532	-0.15576	0.393196	-0.31918	0.241007	0.15065	0.996567	0.016295	0.946681
FGD3	-0.103	-0.39459	0.175466	0.131025	0.445816	0.002618	0.191706	0.331301	-0.03337	-0.45618	0.08606	-0.36122	0.412866	0.000721	0.71298	0.006824
FCHSD1	0.046777	-0.11754	0.095414	0.155313	0.7297	0.388293	0.480181	0.248655	0.039957	-0.04148	0.068091	-0.05794	0.603974	0.392165	0.671635	0.351066
ATG16L2	-0.12956	-0.25413	0.095059	-0.11629	0.336796	0.05876	0.481823	0.388979	-0.05983	-0.26762	-0.02045	-0.23755	0.348106	0.03776	0.447598	0.058061
PLOD3	0.020965	-0.2912	0.132746	0.154596	0.876983	0.029447	0.324931	0.250872	-0.21428	0.004914	-0.10188	0.087844	0.076356	0.512928	0.252719	0.719216
FAM125B	-0.11477	-0.18159	0.093944	-0.13685	0.395276	0.180434	0.487	0.310065	-0.2337	-0.14647	0.06689	-0.0608	0.061167	0.168506	0.666913	0.345783
KLHL6	-0.13361	-0.12945	0.030038	-0.11745	0.321757	0.341685	0.824465	0.384237	-0.30241	-0.1134	-0.13935	-0.02775	0.021739	0.229131	0.183491	0.428207
SIGLEC12	-0.00094	-0.24202	0.186688	-0.18813	0.99444	0.072317	0.164378	0.161093	0.042495	-0.37234	0.209574	-0.25417	0.610418	0.005414	0.916468	0.044141
RPS6KA4	0.013377	-0.0801	0.130845	-0.05202	0.921331	0.557292	0.33197	0.700764	0.063527	0.034134	-0.02804	-0.04581	0.662547	0.58909	0.427457	0.3812
SEC16B	0.16939	-0.38069	0.255561	-0.03843	0.207793	0.003799	0.055024	0.776568	0.357718	-0.34096	0.267832	-0.17041	0.992672	0.010201	0.962361	0.128758
PLCZ1	-0.05793	-0.09464	0.047794	-0.32673	0.671523	0.4919	0.726494	0.01398	0.012984	-0.36457	0.10965	-0.30929	0.533731	0.006904	0.760695	0.019348
STBD1	0.171916	-0.19243	0.177877	0.027043	0.200994	0.155348	0.185577	0.841729	0.266153	-0.28533	0.252821	-0.16591	0.963101	0.027295	0.953091	0.135242
TRIM15	-0.04031	-0.03759	0.199764	-0.24314	0.76593	0.783286	0.136268	0.068386	0.046788	-0.44442	0.171303	-0.38749	0.621252	0.000987	0.869735	0.0039
AQP10	-0.22494	-0.36241	0.020341	-0.24363	0.09251	0.006054	0.880617	0.067809	-0.33501	-0.33991	0.161506	-0.2724	0.011429	0.01041	0.855406	0.033514
SLC25A21	0.109793	-0.0171	-0.16579	-0.08715	0.416207	0.900448	0.217759	0.519158	0.078491	-0.05481	0.054646	-0.18076	0.697945	0.358753	0.639278	0.114646
C3orf15	-0.02902	-0.17094	0.133058	-0.25493	0.830305	0.207787	0.323785	0.055648	-0.17024	-0.33225	0.079934	-0.21635	0.128996	0.012039	0.699152	0.074348
HSPB3	0.100954	-0.16866	0.20142	-0.16237	0.454936	0.214015	0.132982	0.227537	0.154302	-0.4111	0.117514	-0.27278	0.847052	0.002269	0.778993	0.033317
TPD52L3	0.014553	-0.15348	0.244107	-0.2879	0.914436	0.258768	0.067261	0.029879	0.046178	-0.27368	0.139593	-0.22499	0.619717	0.032854	0.819788	0.066383
OR6W1P	0.144667	-0.24567	0.248104	-0.01607	0.28743	0.07062	0.065226	0.906436	-0.0278	-0.43774	0.146724	-0.19133	0.427254	0.001174	0.831918	0.10138
LHX4	-0.13427	-0.07704	0.19956	-0.1433	0.31936	0.572517	0.136677	0.287604	-0.07783	-0.39056	0.133198	-0.31207	0.303587	0.003643	0.808469	0.01737
FATE1	-0.08444	-0.2562	0.267601	0.088933	0.532276	0.056659	0.044173	0.510627	-0.05697	-0.36306	0.225016	-0.13545	0.353428	0.006571	0.931375	0.184724
SLAMF9	0.033402	-0.1456	0.324084	-0.11759	0.80517	0.284302	0.013919	0.383684	0.180863	-0.21369	0.151795	-0.22121	0.885486	0.076938	0.84023	0.069782
ZNF628	0.024607	-0.17612	0.299885	-0.18384	0.855825	0.194153	0.023429	0.171029	0.117994	-0.37572	0.141537	-0.36817	0.782594	0.005039	0.823145	0.00591
TRPA1	0.084555	0.094009	0.074675	0.017706	0.535528	0.494804	0.584393	0.896947	-0.0407	-0.1757	0.070722	-0.18904	0.395341	0.124148	0.675872	0.106813
KBTBD6	0.141253	0.276714	0.000711	0.17343	0.299075	0.04084	0.995848	0.201154	-0.04374	0.228736	-0.04165	0.155098	0.386433	0.93687	0.392941	0.848312
WDR34	-0.26261	-0.16544	-0.03607	-0.28764	0.048432	0.223011	0.789946	0.030035	-0.40535	-0.08172	-0.10751	-0.10381	0.002598	0.294629	0.241042	0.246186
TMEM116	-0.13643	0.130569	-0.19736	-0.12957	0.311551	0.337476	0.141135	0.33675	-0.20231	0.03777	-0.09066	0.021803	0.088776	0.5984	0.276843	0.557181
CCNF	-0.13655	0.222591	-0.06868	-0.0681	0.311138	0.099167	0.611696	0.614743	-0.09206	0.402418	0.049658	0.221169	0.273777	0.996932	0.625558	0.927861
SELENBP1	-0.07467	-0.01042	0.014809	0.04641	0.580952	0.939236	0.912935	0.731739	-0.16693	0.132209	0.0068	0.00803	0.133758	0.809448	0.517681	0.521119
UBE3B	-0.1582	0.245727	-0.27236	-0.03755	0.244206	0.070554	0.042277	0.783514	-0.26698	0.340831	-0.15056	0.21168	0.038124	0.989021	0.164656	0.918629
C14orf56	0.118091	-0.18665	0.194368	-0.1826	0.386042	0.172426	0.151162	0.177979	0.196615	-0.39934	0.062675	-0.27568	0.90484	0.002986	0.658734	0.031838
ATP6VOE1	0.089298	0.1578	-0.17994	0.339204	0.508889	0.245427	0.180444	0.009845	-0.06793	0.43853	-0.28782	0.327112	0.326872	0.99885	0.027606	0.986755
C16orf45	0.166975	-0.2537	0.093923	-0.081	0.218696	0.061627	0.491119	0.552853	0.111787	-0.45502	0.202921	-0.16356	0.770239	0.000744	0.90937	0.138719
PGLYRP1	-0.02913	-0.11605	0.250799	-0.16327	0.829666	0.394377	0.059872	0.224942	0.032113	-0.43261	0.083035	-0.3934	0.583893	0.001338	0.706186	0.003417
PAPLN	0.011994	-0.08958	0.005685	0.089135	0.92944	0.511463	0.966522	0.509667	0.14673	0.116344	-0.02588	0.055673	0.834739	0.779347	0.433001	0.643372
LIMD1	-0.10264	0.014203	0.090211	0.33817	0.4516	0.918028	0.508481	0.010799	-0.08381	0.213623	-0.10762	0.328575	0.2943	0.918092	0.24607	0.985283
RHOT2	0.058365	-0.00456	0.174983	0.010678	0.669177	0.973641	0.197086	0.937741	-0.05761	-0.05563	0.071595	-0.07919	0.353503	0.358317	0.677898	0.302553
GLB1L2	-0.25894	-0.11401	0.033652	-0.29999	0.051777	0.402772	0.80374	0.02338	-0.39096	-0.12566	-0.09645	-0.18741	0.00361	0.202679	0.264251	0.10616
TNFSF18	0.091691	-0.21008	0.091248	-0.22717	0.497551	0.120173	0.499643	0.08925	-0.00503	-0.21934	0.024989	-0.22414	0.486767	0.071519	0.564717	0.067131
KLC4	-0.13851	-0.10606	-0.0051	-0.26603	0.304167	0.436602	0.969969	0.045477	-0.39588	0.104768	-0.19185	-0.04557	0.003231	0.755823	0.103384	0.381804
C9orf140	0.02723	-0.1275	0.208261	-0.15516	0.840649	0.349051	0.120041	0.249122	0.01163	-0.37294	0.203619	-0.25412	0.530574	0.005346	0.910134	0.044174
NOL3	-0.12473	-0.06343	0.074178	-0.1319	0.355265	0.642358	0.583432	0.328066	-0.0255	-0.0744	-0.02571	-0.07667	0.433215	0.311566	0.433438	0.306266
KALRN	0.137988	-0.3368	0.315514	-0.21092	0.306019	0.011144	0.016815	0.115277	0.096113	-0.57169	0.128726	-0.38474	0.737417	1.66E-05	0.800312	0.004144
RSPRY1	-0.09653	0.344349	-0.2593	0.182545	0.475038	0.009356	0.051442	0.174113	-0.12888	0.45679	-0.20786	0.384378	0.199405	0.999195	0.087874	0.995432
ATPBD4	-0.02948	0.21173	-0.1635	0.078741	0.82768	0.117225	0.224274	0.560421	0.142148	0.376146	0.030091	0.194953	0.826995	0.995007	0.577781	0.902915

CDKL2	-0.03616	-0.15453	0.021497	-0.43112	0.789411	0.255478	0.873886	0.000814	-0.08971	-0.46324	0.042651	-0.26389	0.276624	0.000594	0.609565	0.038192
NAT1	-0.07924	0.10159	-0.11183	-0.17221	0.557938	0.456264	0.40754	0.20022	-0.11021	-0.0464	-0.04736	-0.06037	0.232964	0.379735	0.378683	0.345105
ACVR1	-0.06231	0.174338	0.027752	0.056468	0.648216	0.203017	0.839108	0.679338	-0.08358	0.283366	0.040364	0.117654	0.290386	0.971824	0.603823	0.781928
CCNG1	0.162858	0.176038	-0.17905	0.268122	0.226121	0.194357	0.182651	0.043746	0.253115	0.304614	-0.04987	0.263188	0.955173	0.980221	0.372457	0.961403
MIDN	-0.08769	0.120916	0.04075	-0.05648	0.516566	0.374697	0.76344	0.676459	0.053396	0.156795	-0.11054	-0.0563	0.637744	0.850974	0.234874	0.355075
HAP1	-0.0105	-0.17169	0.123882	-0.143	0.93822	0.205779	0.358559	0.288628	0.036904	-0.3381	0.174484	-0.21264	0.596186	0.010776	0.874177	0.077977
KIR3DX1	0.133235	-0.15874	0.12632	-0.05869	0.323136	0.242587	0.349108	0.66455	0.08556	-0.33145	-0.09451	-0.19346	0.714086	0.01222	0.268441	0.098836
SYT8	-0.16351	-0.15023	-0.04689	-0.10654	0.224229	0.269102	0.729083	0.430246	0.012154	0.11162	0.188914	-0.10637	0.531949	0.769901	0.893036	0.24085
F2RL3	0.078964	-0.23101	0.236762	-0.04435	0.559307	0.08672	0.076193	0.743227	0.119158	-0.33727	0.14107	-0.25581	0.784868	0.010948	0.822343	0.04309
UBE2CBP	-0.17533	-0.03851	0.042522	-0.07266	0.196186	0.780109	0.755672	0.594578	-0.18398	-0.16077	0.017927	-0.05982	0.11049	0.142901	0.546523	0.346459
FAM181A	-0.02103	-0.16102	0.233077	-0.22262	0.876618	0.2358	0.081015	0.096018	0.084499	-0.33683	0.146362	-0.21053	0.711689	0.01104	0.831315	0.0801
CCDC120	-0.00172	0.000513	0.118656	-0.12993	0.989872	0.997005	0.37935	0.335399	-0.0279	0.126806	-0.07451	-0.00426	0.426979	0.799481	0.313337	0.488796
LACRT	-0.05494	-0.17304	0.182981	-0.1424	0.684805	0.202196	0.173071	0.29065	0.104634	-0.43717	0.082597	-0.38186	0.755543	0.001191	0.705197	0.004414
ZNF30	0.1153	0.210882	0.155353	0.011837	0.393069	0.118736	0.248531	0.93036	-0.03416	-0.05343	-0.10532	0.083732	0.410846	0.36218	0.24556	0.709951
CCNG2	0.172726	0.145255	-0.17308	-0.01528	0.198848	0.285452	0.197927	0.910201	0.206286	0.182534	0.149525	0.091778	0.915503	0.887658	0.836542	0.72795
PHLDB2	0.159571	0.290202	-0.11583	0.313146	0.235758	0.030035	0.390899	0.017701	0.249987	0.463144	-0.06784	0.440741	0.953087	0.999405	0.328964	0.998914
VWA5B2	-0.09392	0.055946	0.120267	-0.23177	0.487125	0.682144	0.372864	0.082778	0.003757	-0.29493	0.065203	-0.24283	0.509886	0.023307	0.664779	0.051968
TSR2	0.184461	-0.06082	-0.00523	0.066415	0.169561	0.656118	0.969197	0.62353	-0.09863	0.38141	-0.11629	0.28024	0.257152	0.995543	0.223399	0.970377
TAF1C	-0.01088	-0.1661	0.145477	-0.01763	0.935958	0.221151	0.280252	0.896446	-0.02753	0.029028	-0.06328	0.025169	0.427943	0.575933	0.339824	0.565934
KCNH7	0.005051	-0.30745	0.196326	-0.40098	0.970526	0.02241	0.147006	0.002194	-0.10116	-0.32942	-0.02524	-0.38952	0.251766	0.012689	0.434639	0.003728
BTBD6	0.122247	0.216004	0.187175	-0.12064	0.364986	0.109841	0.163259	0.371365	0.244637	0.060666	0.048192	-0.14958	0.949346	0.655607	0.623378	0.160553
TSPAN18	0.375489	-0.15411	0.2246	0.278599	0.003999	0.256785	0.093024	0.035859	0.245358	-0.02437	0.196266	0.195833	0.949864	0.436141	0.901847	0.903939
TAF1B	-0.00329	0.199935	-0.25611	0.044048	0.980613	0.13957	0.054483	0.744922	-0.09593	0.393711	-0.02975	0.301287	0.262989	0.996606	0.423082	0.979062
C14orf143	-0.11424	0.009409	-0.11912	-0.25901	0.397472	0.94513	0.377468	0.051717	-0.3211	0.014892	-0.15375	0.042927	0.014784	0.539125	0.156642	0.611513
TAF1A	-0.02192	0.165927	-0.12641	0.056388	0.871448	0.221641	0.348771	0.676959	-0.17584	0.345959	-0.15707	0.371018	0.121214	0.99074	0.151407	0.994433
SLC25A14	-0.1062	0.038075	-0.04214	-0.12556	0.431714	0.78055	0.755641	0.352019	-0.22465	-0.11311	0.065904	-0.11864	0.06668	0.22709	0.666447	0.216149
HS6ST2	0.009243	0.282197	-0.25318	-0.42947	0.946095	0.036853	0.059737	0.000956	-0.22702	0.255305	-0.26963	0.117398	0.064606	0.95659	0.036635	0.781424
FRMD7	-0.05157	-0.07134	0.035324	-0.27022	0.703207	0.601341	0.794198	0.042064	0.085903	-0.28863	0.259664	-0.24026	0.714861	0.025869	0.957515	0.053881
EMILIN3	0.079186	-0.08313	0.281207	-0.19939	0.5582	0.542428	0.034091	0.137012	0.180413	-0.33562	0.182921	-0.23465	0.884895	0.011296	0.885458	0.058247
MPZL1	0.060814	-0.00613	0.049196	0.20821	0.653158	0.96425	0.716297	0.120134	0.252595	0.239522	0.025089	0.276407	0.954831	0.94556	0.564975	0.968522
SYS1	-0.04699	0.072141	0.019706	-0.00844	0.728518	0.597243	0.88432	0.950298	-0.31123	0.040676	-0.18599	0.076293	0.01763	0.605804	0.110614	0.692849
WFDC8	-0.03468	-0.1444	0.016179	-0.10737	0.799716	0.292864	0.90579	0.430896	0.069382	-0.43035	0.065263	-0.38018	0.676586	0.001417	0.664921	0.004578
CCNH	0.075045	0.030934	-0.13982	0.129652	0.579028	0.820951	0.299595	0.336437	0.18971	0.051209	-0.04845	-0.00201	0.894017	0.630838	0.377405	0.494771
MAP3K14	-0.03737	-0.09313	0.210295	0.154536	0.78258	0.494789	0.116385	0.251059	-0.21561	0.158618	-0.26311	0.22811	0.075061	0.853801	0.040387	0.936335
SNX21	0.066636	-0.15591	0.213217	-0.13918	0.622371	0.251198	0.111282	0.301826	0.101434	-0.43047	0.093795	-0.27176	0.746337	0.00158	0.727608	0.035467
ZSWIM1	-0.13258	0.130038	-0.37021	-0.22835	0.32556	0.339461	0.004589	0.087551	-0.22725	0.46528	-0.1949	0.151399	0.064402	0.999439	0.099755	0.842403
SOCS3	0.032953	-0.15003	0.11323	0.194389	0.807741	0.269755	0.401677	0.147351	0.092319	0.004078	-0.02082	0.063685	0.729139	0.51073	0.445998	0.662931
CLIC3	-0.12892	0.077754	-0.13361	-0.0575	0.339183	0.568949	0.32176	0.670964	-0.12954	0.240817	-0.11061	0.079409	0.195431	0.946539	0.234741	0.700065
UCN2	-0.00554	0.087504	0.167707	-0.04873	0.967373	0.521338	0.212411	0.718851	-0.05644	0.170749	-0.14936	-0.12044	0.354751	0.87172	0.163728	0.212638
CH25H	0.001265	0.110227	-0.18776	0.216406	0.992549	0.418672	0.161914	0.10591	-0.24395	0.547125	-0.1743	0.557	0.051151	0.999958	0.126075	0.999971
KIAA2013	0.125244	-0.13406	0.359839	-0.16079	0.353261	0.324607	0.005972	0.232152	0.128593	-0.25302	0.062301	-0.32423	0.80281	0.044891	0.657835	0.013964
ZNF551	0.015131	0.230358	-0.40235	0.088996	0.911055	0.087633	0.001918	0.510326	0.059242	0.164555	-0.2539	-0.02146	0.652132	0.862765	0.046188	0.443717
BRSK2	0.008697	-0.13176	0.209726	-0.1519	0.948803	0.333031	0.117399	0.259324	0.220314	-0.26673	0.219928	-0.29617	0.92939	0.036578	0.9267	0.022831
UNC5A	0.069638	-0.19164	0.373089	-0.19529	0.606738	0.157102	0.004258	0.145447	0.141121	-0.46583	0.301376	-0.34301	0.82523	0.000552	0.977882	0.009806
RNF8	-0.17862	0.445324	-0.27036	-0.00049	0.183724	0.000583	0.041949	0.997128	-0.17576	0.4767	-0.40572	0.267861	0.121327	0.999595	0.002845	0.964052
HIP1R	-0.09007	-0.2333	0.09463	-0.13892	0.505222	0.083546	0.48381	0.302716	-0.13862	-0.18648	0.054496	-0.24314	0.17911	0.10732	0.638911	0.051739
FAM105B	0.10679	0.102709	0.043569	0.402005	0.433413	0.45129	0.749847	0.002132	0.114351	0.357987	-0.32535	0.285811	0.775387	0.992712	0.014598	0.972916
NAT8	-0.07528	0.04613	-0.00492	-0.1412	0.581368	0.738053	0.971305	0.299252	0.234311	-0.19178	0.177055	-0.34081	0.941483	0.100838	0.87769	0.010232
CEACAM21	-0.11716	0.080849	0.173729	-0.00032	0.385413	0.55362	0.196212	0.998126	-0.04354	-0.25585	0.274479	-0.13824	0.386925	0.043064	0.965974	0.179778
RHBDL1	0.03061	-0.09967	0.217042	-0.19142	0.821173	0.464875	0.104862	0.153754	-0.04779	-0.05331	-0.05424	-0.06985	0.377619	0.363998	0.363276	0.324214

C3orf25	-0.18216	-0.18631	0.078174	-0.24566	0.175028	0.169178	0.563255	0.065485	-0.18886	-0.30768	0.061564	-0.25801	0.104374	0.018758	0.656063	0.041705
KLHL13	0.016264	-0.08359	-0.15514	-0.24193	0.904423	0.540225	0.249178	0.06981	-0.30331	0.042748	-0.07322	0.156728	0.020226	0.611059	0.316337	0.850871
BAZ1B	0.136875	0.280372	-0.19294	0.134493	0.309973	0.036352	0.150455	0.318547	0.158438	0.285853	0.033821	0.160101	0.853523	0.972935	0.58728	0.856075
TP53I13	-0.0405	-0.15274	0.16255	-0.16342	0.764826	0.261089	0.227011	0.224487	0.022053	-0.22326	0.137139	-0.28757	0.55783	0.067924	0.815494	0.026317
ZNF616	0.063755	0.201109	-0.21878	-0.02971	0.637529	0.137213	0.102049	0.826367	-0.02708	0.374728	-0.07383	0.160518	0.42912	0.994853	0.314914	0.85671
TM4SF5	0.065894	-0.02139	0.294873	-0.16428	0.626263	0.875649	0.025968	0.222042	0.22953	-0.3288	0.187359	-0.39983	0.937544	0.012838	0.891104	0.002953
ZNF766	-0.11587	0.171798	-0.24809	0.057726	0.390705	0.205492	0.062782	0.669729	-0.01259	0.330642	-0.08228	0.196655	0.466909	0.987595	0.295522	0.904886
CCDC97	-0.1027	-0.10105	0.084389	-0.01906	0.447131	0.45867	0.532548	0.888085	-0.2377	0.274159	0.026632	0.160372	0.055841	0.967391	0.568933	0.856488
THAP3	-0.04444	-0.03284	0.027499	-0.2354	0.742725	0.810143	0.839097	0.077954	0.13729	-0.13123	0.075054	-0.19038	0.818546	0.192344	0.687934	0.102519
PKD2L1	-0.05802	-0.16497	0.189627	-0.2921	0.668117	0.224346	0.157717	0.027469	-0.07324	-0.31691	0.218428	-0.29957	0.314299	0.015942	0.925278	0.021558
EXOC3L2	0.002702	-0.06906	0.236035	-0.03475	0.984086	0.613027	0.077126	0.797461	0.109751	-0.19089	0.190708	-0.09469	0.766105	0.101906	0.895236	0.265673
ZNF468	-0.0001	0.261902	-0.21875	0.125133	0.999396	0.051191	0.102093	0.353689	-0.07634	0.436517	-0.2341	0.278746	0.307053	0.998789	0.060839	0.969665
ZNF160	0.095817	0.123835	0.019997	0.094557	0.478319	0.363192	0.882625	0.48415	0.223222	0.00215	0.056308	0.037792	0.932044	0.505658	0.643335	0.598456
CCRL2	-0.09499	-0.1667	-0.03106	0.253075	0.482137	0.219455	0.818604	0.057513	0.093461	0.073092	0.021456	0.105408	0.729286	0.683376	0.554976	0.754627
FER1L5	-0.39183	-0.14383	0.04052	-0.21599	0.002576	0.290263	0.76474	0.106602	-0.29643	-0.35775	-0.02802	-0.20328	0.022729	0.007323	0.427522	0.08771
ATPBD3	-0.14692	-0.15727	0.132098	-0.12547	0.275463	0.247031	0.327323	0.35239	0.107865	-0.31605	0.073105	-0.22918	0.762242	0.016188	0.683406	0.062752
C5orf30	-0.23058	0.292907	-0.21561	-0.11369	0.084421	0.028468	0.107225	0.399748	-0.34721	0.188435	-0.09647	0.154261	0.009035	0.895102	0.264218	0.846988
FAM110B	0.22647	-0.19607	0.31972	0.074083	0.090262	0.147544	0.015335	0.583917	0.251683	-0.37051	0.19819	-0.15412	0.952322	0.006115	0.901411	0.156044
SEMA5A	0.205191	0.097724	-0.02873	0.11311	0.125725	0.47367	0.831979	0.40218	-0.06217	0.285666	-0.01138	0.292579	0.34075	0.972852	0.470436	0.975762
SAMD1	-0.05027	-0.00047	0.250485	-0.16984	0.710355	0.997231	0.060202	0.206569	0.049357	-0.2099	0.082409	-0.26868	0.626264	0.083196	0.702571	0.037163
LOC90379	0.044794	-0.00406	-0.00196	-0.02482	0.743055	0.976522	0.988553	0.855941	-0.05578	0.345422	-0.01449	0.131659	0.357963	0.989937	0.462808	0.805685
TAAR5	-0.03044	0.172649	0.199976	-0.15592	0.823785	0.207495	0.139488	0.251154	0.008333	-0.22967	0.005524	-0.26457	0.521916	0.06234	0.514364	0.0378
C15orf42	-0.02191	0.12117	0.030045	-0.13218	0.872652	0.378193	0.826013	0.331509	-0.05449	0.453853	-0.1766	0.251963	0.361107	0.99913	0.122924	0.952512
UBA3	-0.07669	0.217013	-0.23479	0.170172	0.570732	0.108151	0.078745	0.20567	-0.02998	0.385416	-0.04633	0.328766	0.421598	0.995917	0.381254	0.987155
MED30	0.121375	-0.25441	-0.10383	-0.20997	0.368444	0.058474	0.442131	0.116967	0.035587	-0.27557	0.099651	-0.34472	0.592817	0.031894	0.742571	0.009485
CCNT1	0.196314	0.162026	-0.21334	0.20515	0.143307	0.232852	0.11107	0.125802	0.146277	0.505953	0.009339	0.30697	0.831173	0.999804	0.523987	0.979871
UBE2M	-0.1591	-0.19402	0.158888	-0.09114	0.237172	0.151906	0.237795	0.500138	-0.05458	-0.30926	-0.03268	-0.28319	0.359319	0.018248	0.415611	0.028254
TMEM41A	0.079817	0.296606	-0.17017	0.262998	0.555061	0.026436	0.205677	0.048093	-0.00993	0.538391	-0.17326	0.346514	0.473891	0.999943	0.127519	0.99084
IFT20	-0.14906	0.059217	-0.07672	-0.16816	0.272898	0.667593	0.574099	0.215398	-0.18278	-0.20713	-0.12978	-0.1556	0.114731	0.086089	0.200558	0.153709
MCFD2	0.310768	-0.03944	0.040669	0.305466	0.01863	0.772911	0.763896	0.020852	0.278551	0.129965	-0.1016	0.174804	0.969571	0.805344	0.25332	0.877367
C15orf57	0.041736	-0.34073	0.120156	-0.14359	0.757889	0.01018	0.373308	0.286594	-0.13528	-0.20181	0.080587	-0.28749	0.185025	0.089316	0.700639	0.026355
C15orf23	-0.26427	0.151625	-0.24242	0.077184	0.049051	0.269136	0.07184	0.571794	-0.26972	0.643165	-0.35829	0.385038	0.034934	0.999999	0.007831	0.995883
ATP6V1E2	-0.19697	0.003798	-0.05835	-0.25203	0.141947	0.977839	0.666364	0.058587	-0.23317	-0.0812	0.084543	0.008432	0.059438	0.295831	0.709582	0.522175
BMF	-0.07256	-0.10573	0.199267	0.055475	0.591686	0.437998	0.137265	0.681904	0.017236	-0.07629	0.138763	-0.12569	0.545258	0.307153	0.818342	0.202605
SPAG9	0.206361	-0.07078	-0.13151	0.170757	0.123535	0.604189	0.329491	0.204094	0.371918	-0.21663	0.108562	-0.0956	0.994537	0.074085	0.761106	0.263699
BTAF1	-0.01449	0.228524	-0.22895	0.224818	0.914781	0.090256	0.086694	0.092698	0.202699	0.321463	-0.05668	0.206126	0.911654	0.985314	0.355761	0.915334
ZNF622	0.003978	0.238261	-0.14387	0.1481	0.976573	0.077005	0.285647	0.271578	-0.01717	0.297724	-0.10361	0.163098	0.454916	0.977759	0.249116	0.860598
RPL14	0.086313	0.23836	-0.25938	0.313739	0.523208	0.07688	0.051365	0.017476	0.080665	0.524909	-0.11924	0.387729	0.702951	0.99991	0.217639	0.99612
ERI1	-0.07724	0.12408	-0.20311	0.128941	0.567935	0.362234	0.129697	0.339114	-0.04079	0.139858	-0.1073	0.202595	0.393907	0.823044	0.241465	0.91154
DOK2	-0.08789	-0.24419	0.194917	0.14005	0.515631	0.069728	0.146233	0.298777	-0.00032	-0.38936	0.182299	-0.22803	0.499164	0.003741	0.88465	0.063737
ZNF605	0.017065	0.217186	0.051117	-0.13493	0.899735	0.107863	0.70571	0.316978	0.043917	0.199509	0.035261	0.177285	0.614016	0.908127	0.590937	0.880737
SH2D2A	-0.00185	-0.02213	0.217176	0.275541	0.989099	0.871382	0.104642	0.038029	-0.04422	-0.12474	0.027928	0.042145	0.385216	0.204416	0.572253	0.609533
ARTN	-0.06757	0.006314	0.174875	-0.25983	0.617465	0.963163	0.193232	0.050957	0.006994	-0.35219	0.116511	-0.36444	0.518397	0.008189	0.777026	0.006387
GADD45GII	-0.02793	-0.14152	0.209444	-0.15683	0.836623	0.29815	0.117903	0.244014	0.092573	-0.43708	0.091391	-0.42609	0.727352	0.001341	0.722406	0.001759
ZNF835	-0.01431	-0.08896	0.321709	-0.18028	0.915846	0.514407	0.014675	0.179611	0.097462	-0.42212	0.146734	-0.37797	0.740331	0.001739	0.831935	0.004802
C12orf23	0.117517	0.130021	-0.02716	0.041768	0.383972	0.339526	0.841045	0.757709	0.188165	0.028359	0.129318	0.155541	0.894769	0.574202	0.801404	0.84901
AIP	0.002117	-0.14645	-0.09446	0.254006	0.98753	0.281462	0.48462	0.05657	-0.01642	0.156386	-0.15367	0.165533	0.456865	0.850335	0.156763	0.864204
CCNT2	-0.04836	0.279409	-0.20919	0.254409	0.72092	0.037026	0.118361	0.056166	0.192179	0.306031	-0.15729	0.219291	0.899642	0.980699	0.151062	0.928439
PSTPIP2	-0.04535	0.023528	-0.09607	0.408854	0.739978	0.864615	0.481201	0.001757	-0.06839	0.003448	0.079572	-0.05633	0.325775	0.509073	0.698326	0.355004
LRRC46	-0.10349	-0.23266	0.093237	-0.19844	0.443614	0.084429	0.4903	0.138938	-0.13301	-0.27881	0.080769	-0.2298	0.189094	0.030307	0.701053	0.062225

SCRN2	-0.0477	-0.15394	0.129721	-0.01794	0.724584	0.257305	0.336178	0.894602	-0.06353	-0.10196	0.018233	-0.15351	0.337455	0.25008	0.547314	0.154206
PSTPIP1	-0.04886	-0.32012	0.179973	0.293638	0.718177	0.016163	0.180366	0.026628	0.106958	-0.20118	0.21162	-0.04131	0.760371	0.090016	0.918569	0.392592
GPRC5A	-0.00822	0.48012	-0.14178	0.113423	0.951589	0.000181	0.29277	0.400871	0.111329	0.653801	-0.06723	0.303258	0.769312	1	0.330408	0.979755
YIF1B	-0.05723	-0.11257	0.051178	-0.0062	0.672399	0.408793	0.705377	0.963477	-0.2504	0.217293	-0.26194	0.275288	0.046636	0.926553	0.04109	0.967963
C6orf142	-0.01229	-0.21066	-0.03238	-0.32868	0.928352	0.122638	0.812715	0.013389	-0.04362	-0.22467	0.070386	-0.26758	0.386724	0.066661	0.677043	0.036102
SHF	0.035698	-0.15291	0.194924	-0.17699	0.792068	0.260555	0.146218	0.187817	0.080928	-0.38743	0.178764	-0.26727	0.703556	0.003905	0.879989	0.036273
DUOXA1	-0.26613	0.262429	-0.17563	-0.273	0.047417	0.052917	0.195405	0.04178	-0.26758	0.465558	-0.27031	0.21584	0.036102	0.999444	0.036259	0.925159
C1orf201	-0.14835	-0.06311	-0.03178	-0.22392	0.270762	0.644014	0.814464	0.094046	-0.2451	-0.21554	0.014747	-0.13822	0.050318	0.075134	0.538297	0.179812
MAP7	-0.18691	0.272774	-0.16641	-0.29761	0.163877	0.041955	0.216033	0.024554	-0.18048	0.169814	-0.18704	-0.12177	0.11502	0.870394	0.109296	0.21008
NFS1	-0.01827	0.321062	-0.16653	-0.07556	0.892727	0.015836	0.215691	0.57641	-0.00318	0.334637	-0.0611	0.273971	0.491738	0.987675	0.346788	0.965708
PRC1	-0.01612	0.220758	-0.11277	-0.11241	0.906141	0.105312	0.407958	0.409454	-0.19945	0.65338	-0.25736	0.350631	0.091938	1	0.043939	0.991554
CCDC109A	-0.25671	0.388372	-0.39294	-0.02847	0.0539	0.003098	0.002498	0.833495	-0.02529	0.514577	-0.24317	0.301766	0.43451	0.999851	0.055853	0.978026
SLC7A7	-0.06013	-0.44253	0.095901	0.130316	0.662764	0.000806	0.48612	0.342973	-0.00433	-0.41616	0.137195	-0.21041	0.488599	0.00201	0.815593	0.080228
SLC7A6	-0.05873	-0.10557	0.101625	-0.03626	0.664316	0.438734	0.451928	0.788881	-0.00865	-0.17472	0.094842	-0.10574	0.477256	0.12275	0.732278	0.242158
ZNF799	0.078247	-0.01529	-0.1311	0.030749	0.562893	0.910949	0.331018	0.820377	-0.10715	-0.08387	-0.05416	-0.02405	0.239237	0.289726	0.361911	0.436981
SLC13A2	0.134265	-0.29282	0.166936	0.173626	0.319378	0.028515	0.21455	0.196481	0.221456	-0.26523	0.153004	-0.21228	0.930442	0.03742	0.842172	0.078336
C19orf52	-0.15669	0.105071	0.029062	-0.10385	0.244434	0.440897	0.83008	0.442033	-0.03342	-0.19372	-0.10622	-0.26807	0.413746	0.101146	0.246287	0.037502
ZNF625	0.02308	0.012496	0.101706	-0.25468	0.864683	0.927168	0.451564	0.055892	-0.00892	0.132376	-0.06488	0.378922	0.476547	0.809751	0.335999	0.995296
ZNF700	0.129837	0.223117	-0.02184	-0.00202	0.335742	0.098351	0.871906	0.988085	0.323406	0.032679	-0.03958	-0.15226	0.985824	0.58535	0.398149	0.156215
ZNF439	0.130397	0.109933	0.088981	-0.10058	0.333643	0.419923	0.5104	0.456598	0.114601	-0.20195	0.102081	-0.11379	0.775887	0.089163	0.747695	0.22573
PAPSS2	0.384785	-0.29345	0.166572	0.169182	0.003123	0.028162	0.215566	0.208359	0.347549	-0.12675	0.297751	0.016085	0.990339	0.203349	0.975176	0.541762
PAPSS1	0.085916	0.078247	-0.24314	-0.02855	0.525129	0.566496	0.068389	0.833033	-0.06954	0.320286	-0.09056	0.130655	0.323043	0.984998	0.277058	0.806611
LYRM7	0.109289	0.070927	-0.12754	0.012833	0.418365	0.603442	0.344439	0.924516	-0.02487	0.053781	0.059926	0.058733	0.434852	0.638698	0.652114	0.650889
STARD13	0.356195	-0.22537	0.189676	0.298649	0.006539	0.094912	0.157608	0.024035	0.46835	-0.19012	0.32583	-0.06053	0.999486	0.10284	0.985527	0.344734
PIAS2	-0.00436	0.173494	-0.10963	0.032124	0.974312	0.200984	0.416898	0.812487	0.130221	0.157299	-0.07229	0.136133	0.805816	0.85176	0.318504	0.816498
N4BP2L1	0.121501	-0.14312	0.064099	0.150333	0.367944	0.292677	0.635711	0.264337	0.207161	-0.20757	0.21334	-0.13133	0.916423	0.083153	0.920304	0.192153
ZFAND2A	0.004893	0.068217	-0.08898	0.432193	0.971186	0.617387	0.510424	0.000787	0.155244	0.257528	-0.3217	0.093506	0.848543	0.957992	0.015584	0.731743
COX19	-0.13922	0.243154	-0.03328	0.03804	0.301678	0.070955	0.805872	0.778762	-0.29734	0.267926	-0.32497	0.024613	0.022387	0.964087	0.014699	0.56449
MAP3K6	-0.06471	0.085557	-0.0764	0.138285	0.632483	0.530683	0.572176	0.304967	0.027633	0.426538	-0.20253	0.299185	0.572325	0.998441	0.091064	0.978301
ZNF486	0.000646	0.105154	-0.16481	0.042403	0.996196	0.440534	0.220534	0.75414	0.008388	0.104396	0.063417	0.044935	0.522059	0.755045	0.660511	0.616587
SYT7	0.10643	-0.34226	0.298952	-0.04848	0.430714	0.009824	0.023886	0.720267	0.189159	-0.40888	0.184119	-0.31435	0.895991	0.002392	0.887002	0.016684
TBL1Y	0.018929	0.142682	-0.17864	-0.14804	0.88885	0.294162	0.183671	0.271765	0.034332	0.172366	-0.12594	0.029411	0.58858	0.87123	0.207648	0.576045
LRRC16B	0.061749	-0.11226	0.276289	-0.23674	0.651201	0.414492	0.03928	0.078965	-0.01209	-0.27904	0.057434	-0.2764	0.468232	0.030196	0.646077	0.03148
LRSAM1	-0.07519	0.126321	-0.03102	-0.06354	0.578271	0.353562	0.818816	0.63867	0.05369	0.175144	-0.19397	0.06085	0.638472	0.877832	0.100852	0.656054
ANGPTL1	0.231093	-0.20807	0.175186	0.039994	0.086598	0.127409	0.19656	0.769786	0.383418	-0.4658	0.204813	-0.22258	0.995734	0.000552	0.911431	0.068533
CLDN12	-0.00921	0.274957	-0.22861	0.027454	0.945779	0.040277	0.087183	0.839353	-0.08883	0.433681	-0.08156	0.324588	0.278584	0.998698	0.297157	0.986127
CCDC126	0.015451	0.145174	-0.21174	0.074629	0.909177	0.285725	0.113833	0.581137	-0.00925	-0.01318	0.058086	0.05597	0.475683	0.46535	0.647659	0.644103
ASH2L	-0.0291	0.266303	-0.31751	0.15543	0.829872	0.047271	0.016097	0.248292	-0.09068	0.516887	-0.15082	0.412307	0.274474	0.999882	0.161344	0.997795
SEC11C	0.09439	0.092428	0.066552	0.207572	0.484927	0.498077	0.622812	0.1213	-0.07275	0.257533	-0.12225	0.291105	0.315454	0.957995	0.211845	0.975164
CLDN10	-0.14383	0.459412	-0.14922	-0.04978	0.285791	0.000368	0.267945	0.713053	-0.22148	0.380735	-0.25794	0.236343	0.069541	0.995477	0.043566	0.9431
CLDN8	-0.02895	0.063659	-0.2149	-0.41163	0.830741	0.641135	0.108417	0.001467	-0.12062	-0.02502	0.004935	-0.26036	0.212292	0.434449	0.512834	0.040272
FAM104B	-0.02324	-0.0423	0.031913	-0.3532	0.863745	0.756884	0.813698	0.007038	-0.33792	-0.19892	-0.01691	-0.13591	0.010815	0.092536	0.456101	0.183894
PAGE5	0.039645	-0.0869	0.230338	-0.23431	0.769677	0.524251	0.084753	0.07937	0.151714	-0.49158	0.166233	-0.35162	0.842911	0.000261	0.862442	0.008282
CLDN6	-0.03159	-0.17502	0.098895	-0.14231	0.815537	0.196991	0.464232	0.290957	-0.0438	-0.27146	0.076363	-0.28459	0.386287	0.03401	0.69096	0.027623
CLDN2	0.082017	-0.12381	0.218544	-0.04314	0.54417	0.36327	0.102422	0.750025	-0.08718	-0.34646	0.172033	-0.15077	0.28228	0.009169	0.870763	0.15862
CLDN1	0.305978	0.245408	-0.04605	0.127142	0.021825	0.068298	0.736081	0.350417	-0.02121	0.627402	-0.0983	0.530055	0.444364	0.999998	0.260303	0.999924
DIRAS3	0.138486	-0.01571	0.160658	0.101576	0.304261	0.908484	0.23254	0.452146	0.152389	-0.21836	0.057654	-0.25714	0.841185	0.074789	0.644955	0.04408
PYGO2	0.029028	-0.02488	0.086955	-0.08538	0.83182	0.856937	0.523968	0.53153	0.034129	0.070834	-0.12094	0.082165	0.588062	0.678095	0.217097	0.70422
LDB2	0.315679	-0.15917	0.196511	0.243346	0.018888	0.250299	0.150447	0.073411	0.18072	-0.08878	0.288806	0.249624	0.885298	0.278692	0.972827	0.952841
CCDC45	0.020429	0.104285	-0.06933	-0.10168	0.880104	0.444342	0.608322	0.451688	0.047371	-0.03846	0.031596	0.017261	0.622716	0.399834	0.58162	0.545325

CCT6A	-0.00638	0.324034	-0.30408	0.086622	0.962413	0.014839	0.021469	0.521717	0.007751	0.52842	-0.16371	0.386776	0.520388	0.99992	0.141285	0.996038
CLDN9	-0.10044	-0.30897	0.188337	-0.30933	0.457249	0.020507	0.160617	0.019211	-0.04308	-0.40944	-0.00694	-0.40877	0.388111	0.00236	0.481967	0.002398
ANGEL2	0.014963	0.259392	-0.15274	0.221136	0.912034	0.053543	0.256686	0.098313	0.167434	0.3364	-0.00498	0.31896	0.866977	0.988869	0.487056	0.984635
TMEM55B	-0.10493	-0.0147	-0.10933	-0.09069	0.437294	0.914374	0.418173	0.502283	-0.2764	-0.06426	0.106605	-0.13217	0.033035	0.337474	0.754509	0.193385
LOC90826	0.263599	0.06506	-0.20604	0.020173	0.047565	0.633795	0.124139	0.881597	0.236411	0.276095	0.112381	0.205223	0.943153	0.968367	0.768829	0.914375
ZNF479	0.080223	-0.10578	0.13761	-0.10045	0.556705	0.442114	0.311838	0.461339	0.104695	-0.26721	0.265281	-0.31278	0.75567	0.03631	0.960897	0.017156
LOC90835	-0.24378	-0.20616	0.035528	-0.26952	0.06764	0.127411	0.793035	0.04262	-0.24904	-0.30744	-0.05269	-0.26413	0.04756	0.018836	0.365511	0.038051
TCEAL8	0.123974	0.021423	-0.0223	0.01872	0.358201	0.875468	0.86921	0.890072	-0.09469	0.356805	0.018684	0.572026	0.265668	0.992535	0.548478	0.999984
ZNF598	-0.01334	-0.04883	0.25922	-0.03561	0.921542	0.720815	0.051518	0.792572	0.118694	-0.2073	0.100569	-0.17131	0.783965	0.083427	0.744513	0.127494
SPOCD1	-0.03077	-0.18967	0.141956	-0.17245	0.820228	0.161493	0.292182	0.199588	0.126552	-0.45848	0.206786	-0.34843	0.799006	0.000677	0.913545	0.008822
EIF1AY	-0.03059	0.124642	-0.23073	0.05199	0.82131	0.360047	0.084212	0.70092	0.196217	0.208076	-0.02258	0.119279	0.904382	0.917377	0.441477	0.785105
HN1L	-0.27318	-0.08752	-0.0992	-0.27631	0.039778	0.521284	0.46284	0.037473	-0.3267	0.021183	-0.07515	0.009783	0.013346	0.555564	0.31185	0.525724
SPSB3	-0.07899	-0.03642	0.078154	-0.07868	0.559165	0.789879	0.563357	0.560722	0.073197	-0.03972	0.026424	-0.12865	0.685605	0.396629	0.5684	0.197084
IL33	-0.01472	0.065224	-0.08125	0.316069	0.913471	0.632942	0.547972	0.016613	-0.13617	0.550521	-0.08877	0.652918	0.183428	0.999963	0.280996	1
TMSB4Y	0.012431	-0.04122	0.062139	-0.05129	0.926877	0.762913	0.6461	0.704774	0.072895	-0.46945	0.284344	-0.29316	0.684895	0.000499	0.970824	0.024004
C9orf123	-0.26758	0.153829	-0.20235	-0.10167	0.044188	0.25766	0.131173	0.451748	-0.45632	0.466864	-0.54657	0.194942	0.000718	0.999464	5.13E-05	0.902903
ZNF697	0.062814	-0.12214	0.281684	-0.23131	0.642515	0.369839	0.033775	0.083413	0.074836	-0.28901	0.115637	-0.34211	0.689449	0.025709	0.775305	0.009978
PKMYT1	0.046107	0.008735	0.126267	-0.33994	0.73579	0.949532	0.353769	0.010367	0.010874	0.131397	0.010929	-0.05618	0.52859	0.807969	0.528401	0.355375
CD1A	-0.03055	-0.10144	0.098721	-0.1975	0.823165	0.461164	0.469147	0.144552	-0.03692	-0.24277	0.058087	-0.14164	0.403771	0.052011	0.647662	0.17388
PIGQ	-0.1645	-0.19349	0.019378	-0.17916	0.221412	0.153057	0.886235	0.182373	-0.38784	0.073181	0.129789	0.105523	0.004644	0.681568	0.796596	0.752291
SART1	0.009898	-0.11007	0.07005	-0.07572	0.941748	0.419354	0.60461	0.575625	-0.00418	0.02396	0.077679	-0.07807	0.488993	0.562794	0.693989	0.303032
DNAJA3	0.042813	0.150436	-0.17043	0.025907	0.754052	0.272951	0.209165	0.849677	-0.11114	0.589119	-0.24876	0.330319	0.231068	0.999992	0.049699	0.98752
TRIM41	-0.19687	-0.05236	0.003121	-0.17452	0.142157	0.701507	0.981615	0.194155	-0.32895	0.18354	-0.14298	-0.06513	0.012803	0.888953	0.174378	0.333574
UNC119	0.015359	-0.10987	0.116202	0.028404	0.909716	0.420189	0.389353	0.833872	0.071739	-0.09139	0.128708	-0.29132	0.680214	0.275235	0.797478	0.026094
TBX19	0.019209	-0.00855	0.152533	-0.06424	0.887218	0.950145	0.257329	0.634964	0.109297	-0.4138	0.21045	-0.3327	0.765178	0.002127	0.917373	0.011936
ESAM	0.3288	-0.20641	0.264049	0.277807	0.012516	0.126945	0.047174	0.036411	0.299563	-0.20288	0.20891	0.004672	0.978439	0.088154	0.915779	0.512292
ADCK2	-0.25192	0.020971	-0.21411	-0.09929	0.058705	0.878076	0.109758	0.462421	-0.41407	0.371676	-0.27417	0.250698	0.002113	0.994509	0.034186	0.953568
DHX57	-0.1207	-0.01768	-0.14308	-0.24876	0.371147	0.897082	0.288328	0.062053	-0.23266	-0.02645	0.02181	-0.00713	0.059859	0.43074	0.556542	0.48125
TBX18	0.242654	-0.15621	0.252614	0.205965	0.071556	0.254741	0.060334	0.127779	0.050874	-0.06288	0.294856	0.092476	0.631477	0.339012	0.975365	0.729485
USP14	0.03274	0.390191	-0.23407	0.208454	0.808956	0.00295	0.079689	0.119691	0.000395	0.530666	-0.18172	0.395816	0.501039	0.999926	0.116106	0.996764
USP6	0.159986	-0.09214	0.184079	-0.2158	0.247842	0.51171	0.182707	0.117062	-0.05253	-0.40676	0.147159	-0.47413	0.364393	0.002514	0.832642	0.000436
ZNF251	0.188674	-0.13754	0.139226	0.139254	0.159856	0.31208	0.301657	0.30156	-0.05831	-0.03309	0.017176	0.242126	0.350146	0.413582	0.544584	0.947514
USP2	-0.09849	-0.26485	0.133346	-0.34065	0.466093	0.048539	0.322732	0.009517	-0.19184	-0.42752	0.090455	-0.28053	0.100766	0.001521	0.722716	0.029484
KIFC2	-0.05075	-0.13001	0.207636	-0.09027	0.707717	0.339558	0.121181	0.504286	-0.04363	-0.24199	0.084394	-0.15951	0.3867	0.05259	0.709248	0.144822
CREB3L1	-0.05446	0.093038	0.091031	-0.05539	0.690137	0.499288	0.504621	0.685131	-0.01738	0.320979	-0.10283	0.061743	0.454374	0.985184	0.250733	0.658225
ACVR1B	-0.16654	0.181482	-0.3144	-0.14037	0.215659	0.1807	0.017227	0.297672	-0.27612	0.297777	-0.2987	-0.03065	0.031621	0.977779	0.023123	0.419866
CD1B	-0.09398	-0.02661	0.008707	-0.15896	0.486813	0.845621	0.948747	0.23757	-0.17645	-0.32906	-0.16163	-0.24016	0.12039	0.012776	0.1444	0.053953
USP10	-0.15029	0.316257	-0.2552	0.083093	0.264474	0.017569	0.055375	0.538883	-0.11764	0.444281	-0.11611	0.352497	0.218097	0.99901	0.223755	0.991861
USP8	-0.06246	0.24148	-0.19173	-0.05175	0.644402	0.072981	0.153078	0.702246	-0.15525	0.276431	-0.00824	0.175877	0.151444	0.968534	0.478573	0.878832
FMNL3	0.213762	-0.2952	0.134719	0.473696	0.110349	0.027196	0.317728	0.000198	0.275657	-0.16978	0.196404	0.13238	0.968148	0.129656	0.902009	0.809758
LASS5	0.089553	0.152708	-0.28929	0.319579	0.507674	0.261185	0.029067	0.015383	0.111698	0.413895	-0.29122	0.309256	0.770059	0.997878	0.026136	0.98175
DPP9	0.020818	0.12062	0.089547	0.099294	0.87784	0.375876	0.507703	0.462421	0.028206	0.331007	-0.19472	0.183127	0.573807	0.987679	0.099957	0.888422
RGN	0.30153	-0.18676	0.17233	0.088423	0.022643	0.168135	0.199894	0.513065	0.191286	-0.15203	0.129519	-0.05065	0.898572	0.156573	0.801773	0.36909
CCDC149	0.098192	-0.074	0.172922	0.119998	0.471541	0.5878	0.202497	0.378361	0.255512	-0.14096	0.081188	-0.14207	0.956722	0.17505	0.702006	0.173135
DKFZp761E	-0.06847	-0.02759	-0.00393	0.0697	0.612778	0.840039	0.976834	0.606417	-0.09237	-0.01466	-0.06198	-0.10477	0.270758	0.461487	0.342929	0.244178
CCDC34	-0.17944	-0.06958	-0.18537	-0.40695	0.181687	0.610347	0.167426	0.001681	-0.46274	-0.03259	-0.21192	-0.13612	0.000602	0.414875	0.081129	0.183528
MTMR6	0.149555	-0.02419	-0.12359	0.091627	0.266845	0.859523	0.35969	0.497853	-0.13538	0.205935	-0.09094	0.142526	0.184848	0.915132	0.276209	0.827642
ANKRD30A	0.232372	-0.32111	0.304076	-0.2275	0.084822	0.01683	0.022701	0.091756	-0.21446	-0.25618	0.143677	-0.16788	0.076185	0.042855	0.826798	0.132372
MTMR7	0.147938	-0.08881	0.072253	-0.40877	0.27211	0.515106	0.593263	0.001594	0.359103	-0.4772	0.138185	-0.45729	0.992875	0.000399	0.817331	0.000699
CD1C	-0.02529	0.225363	-0.20736	-0.22981	0.853203	0.098065	0.125164	0.088408	-0.20306	-0.15665	0.043164	-0.09666	0.087952	0.149256	0.61085	0.261402

MTMR4	0.023349	0.097823	-0.00586	0.244578	0.863125	0.473217	0.965512	0.066718	0.007175	0.500453	-0.21171	0.417049	0.518872	0.999801	0.081341	0.998033
TRIM47	0.035828	-0.11216	0.136937	0.025236	0.791326	0.410527	0.309751	0.852179	0.145615	0.106501	0.076047	0.153798	0.832876	0.759424	0.690229	0.846252
NMI	-0.05153	0.031619	-0.16846	0.30401	0.703439	0.817055	0.210334	0.0215	-0.2709	0.203162	-0.05977	0.324593	0.035933	0.909635	0.349961	0.985202
MTA1	-0.12892	-0.02994	0.092749	-0.06317	0.339182	0.8266	0.492584	0.640635	-0.01603	0.045786	-0.04624	0.046742	0.457884	0.618732	0.381482	0.621136
ZNF682	0.119658	0.118931	-0.01319	-0.13157	0.375307	0.382649	0.922441	0.32927	-0.3459	0.229517	-0.3134	0.132435	0.00997	0.935323	0.019154	0.807092
LATS1	0.12427	0.256955	-0.09835	0.276446	0.357047	0.05591	0.46669	0.037375	0.195098	0.333864	0.012689	0.278689	0.903085	0.988322	0.532965	0.969637
L3MBTL4	0.103978	0.040305	0.106077	0.149589	0.441468	0.768047	0.432254	0.266734	0.096931	0.030925	0.06104	0.058746	0.739186	0.580831	0.654803	0.650919
SLC25A46	0.091417	0.272349	-0.13991	0.345165	0.498843	0.042288	0.299266	0.00855	0.047211	0.487999	-0.03975	0.475896	0.622314	0.999709	0.39772	0.999585
ATP6VOD1	-0.12335	0.097174	-0.20029	0.117987	0.360633	0.476172	0.135228	0.382062	-0.33165	0.460909	-0.18573	0.333876	0.012174	0.999367	0.110945	0.988324
TMEM67	-0.1143	-0.08689	-0.04168	-0.13287	0.397234	0.524257	0.758204	0.324482	-0.1755	-0.24222	0.071041	-0.14578	0.121677	0.052413	0.67858	0.166845
TIGD7	0.017448	0.081376	-0.14518	-0.10881	0.897499	0.551031	0.281239	0.420437	0.009979	-0.12283	-0.00812	-0.11593	0.52624	0.208035	0.478882	0.221471
IGFN1	-0.07115	-0.18014	0.108948	-0.24652	0.598938	0.183995	0.419826	0.064517	0.053915	-0.45277	0.09439	-0.38914	0.639029	0.00079	0.7313	0.00376
SEC22C	0.05974	-0.06439	-0.00748	0.225702	0.661852	0.64048	0.956388	0.094413	0.070925	0.086838	-0.10324	0.22163	0.680247	0.716963	0.249882	0.930601
SCARF2	0.009849	-0.20841	0.263667	-0.15928	0.942565	0.123213	0.049588	0.240965	0.217234	-0.46452	0.210121	-0.40509	0.926497	0.000573	0.917034	0.002614
INA	-0.07674	0.117246	0.151679	-0.2245	0.570443	0.389474	0.260032	0.093178	0.020759	-0.12045	-0.02942	-0.10487	0.553834	0.2153	0.424827	0.246482
NUP210L	0.192576	-0.10035	0.158945	-0.19924	0.155041	0.46604	0.241976	0.140981	-0.07661	-0.34163	0.13762	-0.08574	0.308471	0.010814	0.813491	0.287745
KRT75	0.143883	0.09142	0.152506	-0.0861	0.285612	0.502792	0.257412	0.524225	0.015704	-0.07504	0.12573	-0.17378	0.541251	0.310064	0.794735	0.124048
CD1D	-0.06656	-0.15563	0.151023	0.056394	0.622762	0.252055	0.262125	0.676923	0.139757	-0.44569	0.338726	-0.29523	0.822868	0.000954	0.988578	0.023191
SLC16A6	-0.18863	0.219701	-0.33287	0.264171	0.159957	0.103746	0.011405	0.047067	0.045568	0.046283	0.058663	-0.06904	0.618182	0.619982	0.64906	0.324234
SLC16A5	-0.17978	0.077533	-0.19209	-0.25048	0.180853	0.570051	0.152288	0.060212	-0.397	0.241671	-0.27735	0.097503	0.00315	0.947176	0.032552	0.74042
SLC16A4	0.285337	-0.14779	0.062958	0.325091	0.031439	0.277032	0.641749	0.013608	0.381606	-0.11557	0.325806	0.077246	0.995562	0.222182	0.985521	0.695063
GGTLC2	0.07426	0.03376	0.129298	0.154994	0.583015	0.804904	0.337769	0.249637	0.05281	0.084503	0.078251	-0.01098	0.63629	0.711699	0.695302	0.471139
SLC16A3	-0.17798	0.031456	-0.1034	-0.00225	0.185314	0.817978	0.444045	0.986753	-0.12305	0.298406	-0.14821	0.054129	0.207618	0.978013	0.165614	0.639557
PDLIM1	-0.16537	0.378361	-0.32706	0.38211	0.218957	0.004037	0.013019	0.003356	-0.21797	0.727812	-0.22988	0.56933	0.072808	1	0.064368	0.999982
RQCD1	-0.19074	0.249606	-0.23675	0.019099	0.15524	0.063562	0.076212	0.887861	-0.21577	0.528184	-0.29192	0.286973	0.074909	0.999919	0.025841	0.973423
SLC39A13	0.096526	-0.16795	0.234614	0.065362	0.475055	0.21598	0.078975	0.629056	0.08157	-0.29218	0.093939	-0.20172	0.705026	0.024398	0.730322	0.08942
SMC3	0.028143	0.182121	-0.28456	0.147593	0.835381	0.179143	0.031924	0.273242	-0.08933	0.420217	-0.05907	0.369377	0.277466	0.998179	0.349961	0.994237
P2RX6	-0.17844	-0.13468	0.120962	-0.26615	0.184167	0.322342	0.370087	0.045377	-0.08605	-0.43092	-0.00315	-0.33123	0.284803	0.001396	0.491801	0.01227
BOD1	0.28782	0.199997	0.073012	0.114389	0.02993	0.139444	0.58938	0.396842	0.369006	0.265976	-0.06379	0.173942	0.994192	0.963001	0.3386	0.87618
PRPF4	0.05492	0.370231	-0.21656	0.196699	0.687671	0.005398	0.108906	0.146224	0.015231	0.487082	-0.26999	0.305869	0.540012	0.999701	0.036436	0.980644
C9orf30	0.113756	0.202283	-0.15791	0.075512	0.399478	0.134887	0.240745	0.57666	0.123395	0.244635	-0.10823	0.151687	0.793036	0.949345	0.239568	0.842868
LMF2	-0.02631	0.079203	-0.04171	0.238701	0.84595	0.561748	0.758036	0.073748	-0.01372	0.410458	-0.19198	0.251525	0.463937	0.997696	0.103229	0.954122
PRPF3	0.023542	0.023916	-0.01998	0.104641	0.862002	0.861112	0.882695	0.438546	0.210754	-0.09852	0.074794	-0.1376	0.917684	0.259824	0.685281	0.183704
C12orf29	-0.06586	0.083012	-0.32341	0.072273	0.6296	0.54682	0.015043	0.596571	0.086516	0.38725	-0.34613	0.131639	0.716239	0.996079	0.009927	0.80841
CD1E	-0.00603	-0.13234	0.04165	-0.11084	0.96451	0.330916	0.758371	0.411741	-0.09451	-0.30734	0.173007	-0.21247	0.266071	0.018868	0.872126	0.078152
FAM50A	-0.00848	-0.24851	0.103586	-0.15326	0.95007	0.064772	0.443203	0.255048	-0.02068	-0.38518	0.124349	-0.20595	0.445745	0.004104	0.792135	0.084848
C19orf22	-0.18324	0.007905	-0.0444	-0.08097	0.172447	0.95389	0.742934	0.549319	-0.23066	0.081491	-0.21304	0.015276	0.063701	0.702692	0.082501	0.539667
C19orf6	-0.04829	0.018729	0.046296	0.1414	0.721329	0.891026	0.732378	0.294096	0.010248	0.272518	-0.12018	0.153768	0.526946	0.966546	0.215831	0.846204
AIFM1	-0.02824	0.233806	-0.2569	0.13604	0.834801	0.082864	0.053721	0.312961	-0.17054	0.467045	-0.1587	0.294768	0.12858	0.999466	0.148886	0.976628
DERL3	-0.07769	-0.19538	0.140645	0.447819	0.565686	0.149002	0.296706	0.000478	-0.10499	0.133893	0.0327	0.271815	0.243715	0.812492	0.584432	0.966179
KCNQ4	0.014617	-0.04738	0.009194	-0.05012	0.914852	0.728794	0.946382	0.713758	0.134453	-0.43073	0.204257	-0.35806	0.813499	0.001403	0.910829	0.007277
CCNB2	-0.11069	0.316508	-0.17995	-0.14103	0.416692	0.01856	0.18446	0.29984	-0.14984	0.656021	-0.24935	0.342473	0.160124	1	0.049287	0.990091
CCNE2	-0.00421	0.276653	-0.0951	0.061967	0.975454	0.040886	0.485683	0.650048	-0.11406	0.563927	-0.149	0.308525	0.2252	0.999978	0.164316	0.981516
RABEP1	0.072484	0.117465	-0.13137	0.056868	0.592079	0.388583	0.330013	0.674362	0.180534	-0.04344	0.045018	-0.0439	0.885055	0.387179	0.615484	0.386029
DDX60L	-0.0421	-0.17624	0.016789	0.379748	0.755843	0.193836	0.901351	0.003574	-0.01731	-0.11885	0.127789	0.013536	0.455068	0.218398	0.795783	0.535161
IGLL3	-0.11631	0.124803	0.027475	0.197193	0.3933	0.363953	0.840693	0.145193	-0.18095	0.296897	-0.04958	0.287965	0.114396	0.977447	0.373191	0.97385
LRP5L	0.185622	-0.12215	0.324614	-0.02528	0.166844	0.369822	0.013755	0.851933	0.228121	-0.25835	0.125936	-0.25619	0.936345	0.041499	0.795122	0.042848
RRP9	-0.05351	0.159558	0.096842	-0.08864	0.695296	0.244585	0.477688	0.515913	-0.2123	0.078241	-0.14262	-0.06552	0.078317	0.697368	0.175006	0.332652
CDKN2AIP1	0.064166	-0.03856	-0.00174	0.156278	0.635358	0.777816	0.989727	0.24569	0.018396	0.310765	-0.17309	0.361305	0.54829	0.982226	0.127762	0.993188
ANKRD40	0.166021	-0.03035	0.201645	0.264947	0.217111	0.824286	0.132542	0.046399	0.297884	-0.05951	-0.17269	0.121492	0.977819	0.347218	0.128313	0.78939

UAP1L1	0.065471	-0.20397	0.278456	-0.00462	0.628484	0.131591	0.035958	0.972783	0.148528	-0.38606	0.207021	-0.2486	0.837717	0.004025	0.913794	0.047861
ARHGEF1	-0.00982	-0.236	0.155216	0.218752	0.942192	0.079933	0.248953	0.102087	0.047616	-0.21965	0.102776	-0.07791	0.623329	0.071229	0.749152	0.303404
CBFA2T2	-0.0334	0.319677	0.035794	0.140872	0.805173	0.01632	0.791518	0.295921	-0.06879	0.487431	0.07886	0.375483	0.324822	0.999704	0.696697	0.994936
ZNF502	-0.08848	0.06299	-0.20568	0.117239	0.512789	0.644655	0.124805	0.385106	-0.10123	0.213256	-0.27434	0.086659	0.251627	0.922632	0.034098	0.71656
CD2	-0.13541	-0.06067	-0.08193	0.686036	0.315229	0.6569	0.544583	3.87E-09	-0.42044	-0.00654	-0.06183	0.336453	0.002016	0.482992	0.345063	0.988084
ATG12	0.092751	0.054246	0.065273	-0.00081	0.496569	0.69406	0.632684	0.995287	0.245126	0.002071	0.21121	-0.06418	0.949698	0.50545	0.91815	0.335869
SESTD1	-0.03005	0.054395	-0.1263	0.072265	0.824389	0.690504	0.349174	0.593205	0.228171	0.026239	0.024829	-0.05913	0.936388	0.56871	0.564307	0.348135
PDCD5	-0.07797	-0.12527	0.181869	-0.04082	0.564292	0.357625	0.175742	0.763029	0.080798	-0.30372	0.127866	-0.18993	0.703258	0.020086	0.798719	0.103068
XRCC6BP1	-0.05504	0.466872	-0.33223	0.088262	0.684267	0.000286	0.011573	0.513836	0.072345	0.395813	-0.15428	0.325207	0.683601	0.996764	0.155802	0.986283
CXorf1	-0.03773	-0.05191	0.08951	-0.19484	0.782485	0.706651	0.511795	0.150143	0.073617	-0.30035	0.150307	-0.21847	0.686592	0.021275	0.837818	0.072332
SYNGR3	-0.07014	-0.10535	0.23928	-0.11072	0.604133	0.439664	0.07303	0.412249	0.176066	-0.23751	0.115422	-0.22976	0.879089	0.055985	0.774879	0.06226
LOC91431	0.040809	0.031888	-0.09717	-0.05126	0.763108	0.815526	0.472115	0.70495	-0.25659	0.183102	-0.31903	0.051748	0.042594	0.888389	0.016338	0.633653
RCCD1	-0.0897	0.074197	0.084639	0.057021	0.50697	0.586807	0.531327	0.673535	-0.00504	0.092163	0.043355	0.000175	0.486733	0.728796	0.611328	0.500461
SYNGR2	0.020663	0.228494	0.009483	0.171249	0.879851	0.093364	0.944697	0.206965	0.01226	0.427455	-0.30972	0.264494	0.532225	0.998477	0.019205	0.962158
C19orf40	0.052414	0.059889	0.114059	-0.11119	0.698597	0.661059	0.398218	0.410248	-0.0401	-0.17617	0.036972	-0.18048	0.395672	0.120766	0.595269	0.115014
RNF185	0.084282	-0.20227	-0.02806	0.069818	0.536851	0.138616	0.837364	0.609132	0.076492	0.066065	-0.0459	-0.07041	0.691257	0.666831	0.383676	0.322895
SYNGR1	0.126567	-0.14412	0.086532	-0.00515	0.348157	0.289269	0.522155	0.969658	0.112334	-0.00417	-0.05675	0.027414	0.771342	0.489035	0.35558	0.571757
ACBD5	-0.05259	0.28719	-0.27714	0.064779	0.697613	0.031866	0.036879	0.632124	-0.2298	0.436356	-0.13917	0.359896	0.062229	0.998784	0.180951	0.992989
HGS	-0.25157	-0.04754	-0.03524	-0.17721	0.059063	0.727886	0.794668	0.187261	-0.06578	-0.04868	0.012649	-0.1515	0.333853	0.375413	0.532474	0.160249
SGK493	0.274995	-0.32754	0.33087	0.034254	0.038427	0.013731	0.01194	0.800304	0.379262	-0.42277	0.329884	-0.26712	0.995331	0.001711	0.986552	0.036359
ISX	-0.00296	-0.23265	0.262947	-0.06555	0.982732	0.087397	0.050237	0.631255	0.256124	-0.27137	0.254464	-0.28636	0.957111	0.034058	0.954184	0.026845
SDCCAG1	-0.0541	0.276623	-0.27414	0.112023	0.689393	0.039034	0.039055	0.406746	0.088449	0.297693	-0.03609	0.226448	0.720568	0.977747	0.406964	0.9349
NEURL	0.007364	-0.20909	0.20535	-0.27824	0.956644	0.121965	0.125426	0.036106	0.026551	-0.27209	0.106079	-0.35467	0.569519	0.033678	0.756013	0.007792
DYRK1B	-0.23745	-0.16868	0.141711	-0.2565	0.075323	0.213965	0.293026	0.05411	-0.19552	-0.30258	0.004275	-0.2935	0.09642	0.020481	0.511116	0.023869
CD3D	-0.1469	-0.16958	-0.04209	0.610606	0.275522	0.211503	0.755904	4.57E-07	-0.31731	-0.20254	-0.10675	0.047726	0.016838	0.091048	0.245186	0.622222
CTDP1	-0.16827	-0.10657	0.165138	-0.13786	0.210851	0.434369	0.219602	0.306459	-0.31351	-0.03484	-0.08901	-0.23573	0.016935	0.409103	0.280469	0.057381
SLC6A5	0.019418	-0.13763	0.228455	-0.14064	0.885998	0.311751	0.0874	0.296735	0.027816	-0.33015	0.084347	-0.25574	0.572798	0.01252	0.709141	0.043134
COL23A1	0.023622	-0.21626	0.250111	-0.06752	0.861539	0.109414	0.0606	0.617757	0.191036	-0.41023	0.243546	-0.29259	0.898271	0.002316	0.946537	0.024233
FAM113B	-0.03887	-0.2081	0.166855	0.12605	0.774084	0.123799	0.214776	0.350146	0.037757	-0.27902	0.147329	-0.21167	0.598368	0.030202	0.832924	0.078952
ANKRD44	0.056589	-0.26229	0.088972	0.349796	0.678686	0.053043	0.514348	0.008226	-0.03168	-0.34374	0.081874	-0.19513	0.41721	0.009669	0.703561	0.09688
SLC28A2	-0.01501	-0.25649	0.16335	-0.3605	0.911784	0.056374	0.224703	0.005875	-0.16513	-0.49959	0.09936	-0.38524	0.136381	0.000204	0.741955	0.004099
SLC28A1	-0.05763	-0.13458	0.23836	-0.23415	0.670234	0.322705	0.074174	0.079584	0.05769	-0.46902	0.165794	-0.38608	0.648331	0.000505	0.861799	0.004024
RSAD2	-0.16488	-0.33503	0.106472	0.132753	0.224625	0.01241	0.434794	0.329387	-0.34299	-0.27745	0.032237	-0.02567	0.011327	0.034124	0.581299	0.434315
UBXN11	-0.18378	-0.24478	0.077871	-0.32168	0.171179	0.069026	0.564775	0.014685	-0.28111	-0.3709	0.012711	-0.31453	0.029215	0.005582	0.533023	0.01663
EXO1	-0.02104	0.265776	-0.03428	-0.13011	0.877698	0.049855	0.80198	0.339199	-0.05468	0.463045	0.056619	0.2142	0.360648	0.99932	0.642463	0.921161
C12orf65	0.059053	-0.20234	0.157125	-0.122	0.662589	0.134765	0.243108	0.365975	0.22025	-0.47041	0.290115	-0.35951	0.929331	0.000485	0.973394	0.007066
FIBP	-0.1701	0.035909	-0.12775	0.095877	0.205855	0.79275	0.343639	0.478043	-0.30783	0.349791	-0.30714	0.197161	0.019836	0.990748	0.02128	0.902885
RPS19BP1	-0.01204	0.023689	0.049376	0.21548	0.929151	0.862414	0.715301	0.107447	-0.03829	0.185454	-0.08206	0.210671	0.400285	0.891386	0.296009	0.92004
PLXNA4	0.037703	-0.04149	0.215627	0.146435	0.780672	0.761417	0.107202	0.277064	0.336781	-0.44915	0.147158	-0.35226	0.988949	0.000871	0.832641	0.008177
PCSK7	-0.0548	-0.06181	-0.05633	0.169683	0.685588	0.650899	0.677243	0.206996	-0.01969	0.23642	-0.16908	0.168958	0.448318	0.94316	0.133436	0.869172
CD3E	0.001839	-0.19894	0.095468	0.567597	0.989167	0.141584	0.479928	4.14E-06	-0.19487	-0.30143	0.002565	0.046159	0.099781	0.0221	0.506593	0.618327
ZNF830	-0.03683	0.25767	-0.27379	0.179752	0.785612	0.055207	0.039316	0.18091	0.096458	0.140037	-0.12859	0.063369	0.738164	0.823355	0.199943	0.662167
SLFN11	0.16768	-0.16485	0.137865	0.314151	0.212485	0.224712	0.306452	0.01732	-0.0133	0.026179	0.071914	0.274499	0.465048	0.568555	0.680625	0.967564
RASL10B	0.023549	-0.16617	0.21146	-0.10982	0.861965	0.220951	0.114329	0.416107	0.13963	-0.45844	0.200479	-0.39866	0.819852	0.00077	0.904026	0.003339
CHURC1	-0.00868	0.102606	-0.21013	0.141927	0.948877	0.451748	0.116684	0.292283	0.088844	0.119524	-0.05129	0.156	0.721448	0.785582	0.368963	0.849732
DEPDC7	0.239747	0.030257	-0.03268	0.054122	0.075126	0.826427	0.811014	0.691981	0.077837	0.152773	-0.0716	0.037966	0.696433	0.844615	0.320101	0.598899
DGKI	0.238203	-0.12368	0.232352	-0.37368	0.074369	0.363806	0.081992	0.004193	0.177257	-0.46484	0.339625	-0.5188	0.880699	0.000568	0.988769	0.00011
NEXN	0.380147	-0.27726	0.202361	0.00808	0.003853	0.040425	0.134733	0.952869	0.352451	-0.52854	0.361276	-0.37122	0.991854	7.98E-05	0.992622	0.005544
TDRD12	0.094379	-0.07096	0.113924	-0.02118	0.489011	0.606688	0.403141	0.876848	0.046652	-0.06073	0.048567	-0.00524	0.620909	0.344227	0.624309	0.486211
ATPAF2	-0.10981	-0.00276	-0.19667	0.156996	0.42046	0.984061	0.146278	0.247873	-0.16729	0.369856	-0.08998	0.036639	0.133238	0.994295	0.278336	0.595509

BOC	0.46101	-0.15882	0.322343	0.096775	0.000349	0.246805	0.015399	0.477996	0.497071	-0.21437	0.291287	-0.10679	0.999779	0.076269	0.973892	0.239971
EBAG9	0.120292	0.181885	-0.228	-0.09266	0.372765	0.179718	0.088046	0.492991	0.14013	0.066708	0.008185	0.124044	0.823516	0.670205	0.521279	0.794271
NLRP12	-0.10731	-0.39678	0.090293	-0.23502	0.426905	0.002465	0.504157	0.078444	0.01968	-0.49789	0.106732	-0.45241	0.551051	0.000251	0.754768	0.000904
MYADM	0.168507	-0.13448	0.016183	0.061382	0.210206	0.323085	0.904893	0.650129	0.427504	-0.15726	0.23611	-0.1886	0.9983	0.151104	0.938584	0.107358
ZNF845	-0.02614	0.408261	-0.23904	0.163547	0.846926	0.001787	0.073332	0.224138	-0.07216	0.478887	-0.09875	0.38296	0.31684	0.99962	0.259342	0.995691
COX7A2L	0.024524	0.027437	-0.23738	0.062221	0.856304	0.84091	0.075412	0.645664	-0.20711	0.309858	-0.33757	0.236796	0.083632	0.981941	0.011671	0.943455
TMSB10	-0.08967	0.031832	-0.06227	0.519686	0.507128	0.81584	0.645394	3.43E-05	-0.11664	0.497616	-0.19329	0.50705	0.220072	0.999783	0.10166	0.999839
SYT12	-0.08572	-0.01726	0.035092	-0.0408	0.526074	0.899507	0.795521	0.763174	0.003142	0.004801	0.09479	-0.06189	0.508267	0.51263	0.732164	0.341428
CENPL	-0.20848	0.139867	-0.3314	0.10156	0.123087	0.308453	0.012597	0.456396	-0.06965	0.477249	-0.24955	0.150935	0.322771	0.999601	0.049148	0.841652
C22orf32	-0.04512	0.059943	-0.14643	-0.08713	0.738921	0.660771	0.277091	0.519281	-0.32733	0.186344	-0.36068	0.117382	0.013191	0.892505	0.007467	0.781392
SFRS2IP	-0.00541	0.176736	-0.25439	0.176951	0.968156	0.192566	0.056183	0.187914	0.05877	0.340177	-0.04061	0.253359	0.650978	0.989643	0.395559	0.955332
LONRF1	0.261469	0.099595	-0.06989	0.117358	0.049456	0.465199	0.605455	0.384621	0.415251	0.045258	-0.07463	-0.06726	0.997946	0.6174	0.313039	0.328465
RRP7B	-0.0214	-0.25886	0.120164	-0.08904	0.874439	0.054052	0.373277	0.510118	0.06485	-0.18506	0.087751	-0.09209	0.665741	0.109108	0.716743	0.271358
CD3G	-0.12665	-0.06315	-0.12992	0.554642	0.347851	0.643834	0.335446	7.57E-06	-0.307	-0.1433	-0.08494	0.041518	0.020119	0.173848	0.291781	0.606723
LPAR2	-0.19606	0.001206	-0.07213	0.025873	0.143828	0.992963	0.593892	0.848491	-0.27011	-0.02447	-0.13746	-0.1555	0.034727	0.435875	0.183939	0.151048
ACY3	-0.09616	-0.235	0.282545	0.229709	0.476732	0.08126	0.033212	0.085631	-0.04233	-0.17148	0.267729	-0.07181	0.389999	0.127251	0.962303	0.317667
MYOM2	0.366523	-0.16286	0.29643	-0.05541	0.005044	0.230415	0.025156	0.682243	0.152068	-0.34254	0.258473	-0.15964	0.840668	0.01063	0.954875	0.147442
IL1RL1	0.185483	-0.05556	0.083203	0.407374	0.167168	0.684203	0.538344	0.00166	-0.12103	0.263426	-0.12473	0.523206	0.211501	0.961542	0.207137	0.999905
IDI2	-0.11504	-0.12349	0.126911	-0.19129	0.394163	0.364556	0.346839	0.154044	-0.17585	-0.38081	0.039292	-0.28198	0.121208	0.004515	0.601124	0.028812
YTHDC1	0.109645	0.134487	-0.12297	0.099828	0.416841	0.323051	0.362127	0.460008	0.054981	0.171149	0.051799	0.147377	0.641664	0.872285	0.63229	0.835814
C14orf43	0.226934	-0.06471	0.306013	0.006626	0.089587	0.635632	0.020613	0.960984	0.175667	-0.04679	0.260988	-0.13067	0.878546	0.378756	0.958332	0.193362
KIAA1919	-0.09771	0.085463	-0.14084	0.151315	0.469639	0.531139	0.296039	0.261192	-0.20261	0.295125	-0.26537	0.268922	0.088445	0.976767	0.039051	0.964633
MAP3K13	-0.14104	-0.06404	0.105564	-0.17441	0.295356	0.639163	0.434496	0.194427	-0.24615	-0.03045	0.009658	-0.05211	0.049573	0.420406	0.525104	0.365438
LIN52	0.085364	0.04664	0.120076	0.001333	0.527806	0.732853	0.37363	0.992148	0.160999	-0.2355	0.210217	-0.22545	0.85744	0.057568	0.917133	0.065973
ZNF804A	-0.0293	-0.23999	0.195438	-0.11086	0.828704	0.074817	0.145138	0.411651	0.04667	-0.49337	0.238034	-0.31454	0.620955	0.000247	0.942323	0.016628
NEK9	0.064148	-0.03869	-0.05053	0.078147	0.635454	0.777114	0.708925	0.563394	0.089253	0.027443	-0.05212	0.101909	0.720068	0.57101	0.36844	0.747334
CABLES1	0.018642	-0.11435	0.071093	0.142195	0.890525	0.401389	0.599228	0.291362	0.12109	-0.0651	0.247046	0.031356	0.788616	0.333649	0.949088	0.581942
HTR3B	0.012596	-0.02524	0.004132	-0.38257	0.925911	0.853532	0.975667	0.003314	-0.06459	-0.28321	0.19359	-0.30601	0.33488	0.028245	0.898702	0.019308
FAM55C	0.198052	-0.09119	0.035553	0.390242	0.139728	0.503882	0.792894	0.002691	0.2573	-0.20914	0.096506	-0.02243	0.95785	0.08152	0.735861	0.44118
CHMP7	-0.06334	0.238867	-0.19565	0.431622	0.642814	0.079034	0.148436	0.000896	0.11637	0.205219	-0.11596	0.175709	0.779398	0.91437	0.224063	0.878603
AP4M1	-0.15195	-0.24367	-0.09939	-0.16217	0.263583	0.073015	0.466116	0.232436	-0.33631	0.030409	-0.18942	-0.09874	0.01115	0.579499	0.106335	0.256916
OSMR	0.055137	0.060066	-0.0807	0.493203	0.68374	0.660114	0.550686	9.70E-05	0.345441	0.32755	0.027021	0.330797	0.990646	0.986862	0.569928	0.987631
ALKBH8	0.109854	0.09399	-0.16148	0.019379	0.41595	0.490811	0.230117	0.886228	0.040426	0.044223	0.173419	0.088102	0.605168	0.61479	0.872701	0.719792
MYLK3	-0.00046	-0.16249	0.23809	-0.38343	0.997299	0.231504	0.074511	0.003239	-0.07043	-0.47567	0.153514	-0.33777	0.320917	0.000417	0.842986	0.010845
ARHGEF2	-0.07266	-0.17556	-0.07484	0.150275	0.591155	0.195597	0.58007	0.264521	0.142589	-0.07027	0.172618	-0.12577	0.82775	0.321295	0.871584	0.202461
RASSF9	0.125948	0.211735	-0.19982	-0.09501	0.350539	0.117218	0.136164	0.482071	-0.28084	0.494019	-0.10504	0.448515	0.029339	0.999758	0.246143	0.999114
ZW10	-0.03409	0.332365	-0.31248	0.087184	0.801239	0.012325	0.017956	0.519011	-0.0488	0.444951	-0.19493	0.19596	0.373705	0.999027	0.099709	0.904086
WDR20	-0.1907	0.229602	-0.1993	0.061	0.155334	0.088708	0.137207	0.652167	0.091097	0.158252	-0.12095	0.024768	0.726446	0.853236	0.214349	0.564892
BUB3	-0.07904	0.335449	-0.26244	0.236474	0.558904	0.011493	0.048587	0.076561	-0.02178	0.576214	-0.11508	0.340032	0.442893	0.999986	0.225792	0.989614
REPS2	0.082758	-0.13741	0.070033	-0.32662	0.540526	0.312543	0.604694	0.01315	0.176554	-0.29459	0.059164	-0.41728	0.87975	0.023442	0.650271	0.001956
CHRD1	0.316169	-0.30926	0.143852	0.355417	0.016577	0.02038	0.28572	0.006666	0.188356	-0.11034	0.355522	0.252026	0.895005	0.232696	0.991728	0.954455
CALML4	-0.17874	-0.15063	-0.04891	-0.18497	0.183419	0.267798	0.717883	0.16837	-0.35369	-0.05951	-0.01557	-0.01947	0.007947	0.347202	0.459581	0.448914
MARVELD3	-0.18627	0.047035	-0.01313	-0.00184	0.165344	0.730672	0.92278	0.989167	-0.30909	0.187794	-0.21503	-0.03769	0.018301	0.894311	0.078014	0.401806
RFT1	0.057469	0.272249	-0.19318	0.169208	0.671111	0.042368	0.149942	0.208288	-0.11997	0.442338	-0.34457	0.306607	0.213557	0.998958	0.010229	0.98089
SLC24A1	-0.12566	0.197616	-0.13854	-0.406	0.351661	0.144315	0.304062	0.001728	-0.42692	0.169476	-0.06482	0.14706	0.001544	0.869913	0.336125	0.835288
TTC5	-0.07557	-0.0652	-0.08358	-0.25266	0.576352	0.633071	0.536491	0.057937	-0.29714	-0.05155	-0.11195	-0.075	0.022461	0.366835	0.23204	0.310179
DDX21	-0.04418	0.346903	-0.24564	0.301039	0.746433	0.009466	0.068032	0.024162	-0.02983	0.559315	-0.22783	0.41036	0.422007	0.999973	0.066135	0.997691
FDXACB1	-0.14727	0.285131	-0.26838	0.073674	0.274316	0.033169	0.043533	0.586	-0.14847	0.383039	-0.12641	0.244897	0.162373	0.995699	0.203995	0.949534
C11orf52	-0.1956	-0.10497	0.015489	-0.38366	0.14479	0.441352	0.908955	0.003219	-0.27423	-0.24444	0.023377	-0.30937	0.03257	0.050792	0.560574	0.018213
CD247	-0.1046	-0.35892	0.147087	0.136338	0.438748	0.006598	0.274906	0.311894	-0.0147	-0.35469	0.014025	-0.30306	0.461827	0.008408	0.536	0.021503

DEDD	0.040539	0.012965	-0.06901	0.04774	0.764629	0.924447	0.609973	0.724352	0.231738	0.013626	-0.04669	-0.03619	0.939387	0.535808	0.380358	0.40564
TIMD4	0.090242	-0.27879	0.207147	-0.30474	0.508335	0.039293	0.12556	0.022391	-0.07736	-0.37822	0.193778	-0.36924	0.304681	0.004775	0.898926	0.005779
SLC16A7	0.026217	0.347245	-0.22548	0.246892	0.846502	0.008739	0.091715	0.064102	0.023276	0.57067	-0.14364	0.363913	0.561015	0.999983	0.173264	0.993543
NDUFAF2	-0.00989	-0.12583	-0.05729	-0.0819	0.941797	0.355455	0.672089	0.544737	-0.02195	-0.32855	0.056444	-0.30277	0.442432	0.012896	0.643667	0.020415
ARRDC4	-0.09855	0.455866	-0.38782	-0.10802	0.46579	0.000414	0.002876	0.423842	-0.16277	0.459951	-0.34722	0.207369	0.139887	0.99935	0.009723	0.916641
COG7	-0.22908	0.06284	-0.17892	-0.14182	0.089455	0.648547	0.187032	0.297128	-0.39208	0.310307	-0.17575	0.137623	0.003521	0.982083	0.124082	0.819133
KCNAB3	-0.17269	0.029431	0.14158	-0.05164	0.198935	0.829519	0.293475	0.70283	-0.21279	-0.12994	0.083298	-0.15034	0.077827	0.194694	0.70678	0.159318
CXorf40A	-0.01452	0.253462	0.00721	-0.02052	0.914625	0.059448	0.957548	0.879601	-0.02155	0.204083	-0.34337	0.072402	0.443469	0.913154	0.010464	0.683736
SLC33A1	0.007004	0.188937	-0.1494	0.283672	0.958759	0.163142	0.267344	0.032487	0.075098	0.370992	-0.05701	0.323708	0.690062	0.994429	0.354956	0.985901
ZNF300	0.005385	0.358008	-0.31153	0.08209	0.96829	0.006747	0.01833	0.543811	0.084677	0.415741	-0.13894	0.322336	0.712093	0.99797	0.18135	0.985545
MYOZ3	-0.06433	-0.23283	0.139192	-0.06006	0.634483	0.084192	0.301777	0.657168	-0.01884	-0.33589	0.126452	-0.17762	0.450561	0.011239	0.796086	0.118819
C19orf20	0.028731	-0.02935	0.257299	-0.14836	0.831989	0.830006	0.053335	0.270744	0.064586	-0.56942	0.098838	-0.50482	0.663306	2.23E-05	0.738364	0.000203
ACVR2A	0.049988	0.35358	-0.24506	0.14866	0.711925	0.007513	0.066164	0.26975	0.01868	0.527078	-0.1686	0.331157	0.549032	0.999916	0.134117	0.987714
CD4	-0.19319	-0.23306	0.007221	0.219551	0.153697	0.086823	0.957876	0.103989	-0.33199	-0.20204	0.008206	0.035509	0.012096	0.089064	0.521333	0.592617
PTPLA	0.233095	0.018933	0.017652	0.173458	0.08099	0.889846	0.896306	0.196922	0.348191	-0.07501	0.094919	-0.07635	0.991137	0.310145	0.732444	0.307026
FAM58A	0.069269	0.164559	0.391348	-0.05805	0.608651	0.22553	0.002611	0.668	0.099434	0.032808	0.259019	-0.11586	0.74456	0.58568	0.957112	0.22162
DCLK1	0.099363	0.050776	0.027243	0.150653	0.466245	0.71276	0.842025	0.267735	0.075522	0.111838	0.124265	0.327035	0.69105	0.770343	0.791976	0.986737
MCART1	-0.06427	-0.25976	0.215779	-0.29245	0.634801	0.053191	0.106949	0.027276	0.009549	-0.30907	0.341825	-0.19066	0.525111	0.018309	0.989225	0.102189
SNX29	-0.13764	-0.09627	-0.03058	-0.24504	0.307261	0.48032	0.82132	0.066193	-0.41704	-0.00115	-0.02726	0.007322	0.001968	0.496965	0.429454	0.519258
ZMYM4	-0.05896	0.21503	-0.16639	0.173127	0.663065	0.111491	0.216083	0.197791	-0.00372	0.334079	-0.0677	0.332741	0.490225	0.988369	0.329298	0.988073
ZMYM3	-0.20261	0.091527	-0.11069	-0.26119	0.130663	0.502292	0.412378	0.049707	-0.4253	0.124222	-0.07755	0.112665	0.001607	0.79461	0.306308	0.77201
ZMYM6	-0.14396	0.238185	-0.17863	0.251022	0.285364	0.077103	0.183683	0.059637	0.148169	0.262316	-0.03507	0.20544	0.837125	0.960892	0.409555	0.914607
ZMYM5	-0.07302	0.284478	-0.24103	0.164102	0.589352	0.033591	0.070889	0.222547	-0.03223	0.402599	-0.16246	0.284757	0.415818	0.99723	0.143158	0.97245
C4orf42	0.037036	0.155179	0.01068	0.192382	0.78446	0.253456	0.937151	0.151657	-0.00186	0.423741	-0.03173	0.300924	0.495095	0.99833	0.418041	0.978932
LRRFIP1	0.023629	0.035015	-0.13532	-0.09912	0.861499	0.797798	0.31554	0.463199	0.074412	-0.03536	0.103937	-0.13246	0.686446	0.408824	0.749021	0.192858
GGTLC1	0.164642	-0.19748	0.30268	-0.3278	0.221009	0.144588	0.022107	0.012802	0.012568	-0.34732	0.105066	-0.30358	0.533033	0.009017	0.753919	0.020132
LRRFIP2	0.042702	0.261235	-0.2046	0.000625	0.752463	0.051808	0.126836	0.99632	0.139852	0.253035	0.061392	0.124214	0.823033	0.955121	0.655649	0.794595
ZC3HAV1L	0.184465	-0.12647	0.121949	0.025606	0.169551	0.352972	0.366166	0.85004	0.263898	0.120189	0.182912	0.026443	0.961815	0.786873	0.885446	0.56924
CD5	-0.0257	-0.28103	0.216832	0.380981	0.849469	0.0359	0.105207	0.003458	-0.0333	-0.07452	-0.01076	0.099154	0.413057	0.311296	0.472031	0.743961
BMP15	-0.02858	-0.19676	0.199351	-0.35327	0.832884	0.146104	0.137097	0.007027	0.055522	-0.54263	0.222366	-0.37342	0.643	4.89E-05	0.928968	0.005291
TTC30A	-0.1996	0.055855	-0.05067	-0.18242	0.136595	0.682634	0.708181	0.174404	-0.17291	-0.17468	-0.00073	-0.02912	0.125242	0.122797	0.498095	0.423819
INTS4	0.056745	0.142161	-0.15409	0.116318	0.675022	0.295948	0.252456	0.388877	-0.11743	0.218475	-0.21934	0.342159	0.218509	0.927673	0.073859	0.990031
OXNAD1	-0.19265	0.227985	-0.23052	0.217004	0.151078	0.091039	0.0845	0.104925	-0.11786	0.313958	-0.11271	0.212032	0.217661	0.983199	0.230522	0.921412
LGI1	0.028371	-0.15051	0.131634	-0.15574	0.834064	0.26818	0.329039	0.247331	-0.23696	-0.23347	0.140718	-0.23132	0.058525	0.061354	0.818877	0.063146
AURKB	-0.09568	0.13921	-0.09575	-0.1111	0.478965	0.30619	0.478648	0.410665	-0.09626	0.283662	-0.12942	0.204084	0.262269	0.971958	0.198411	0.913155
DSEL	0.235445	0.002639	0.040651	0.184428	0.07789	0.984602	0.763997	0.169638	0.338686	0.131378	0.218854	0.128155	0.989343	0.807933	0.925684	0.801997
RIPPLY1	-0.01625	-0.25237	0.194929	-0.43472	0.905359	0.063048	0.149961	0.000814	0.226585	-0.38799	0.249202	-0.42453	0.935019	0.003857	0.950612	0.001638
XPR1	-0.15226	0.306457	-0.1643	0.263446	0.258185	0.021609	0.221973	0.047699	-0.13059	0.419967	-0.05282	0.359292	0.193503	0.998167	0.365191	0.992902
FAIM3	-0.12512	-0.27901	-0.04789	0.370834	0.358182	0.039129	0.725944	0.0049	-0.07766	-0.29303	-0.02577	-0.16473	0.306045	0.025379	0.434057	0.139766
MTDH	0.0509	0.246892	-0.20332	0.341932	0.706906	0.066593	0.129292	0.009233	0.136521	0.468422	0.010359	0.407633	0.817187	0.999487	0.526923	0.997537
LARGE	0.090038	-0.15283	0.218901	0.158307	0.505369	0.260794	0.101848	0.239536	0.227728	-0.23707	0.193479	-0.18614	0.936007	0.056334	0.89857	0.107747
MTSS1L	-0.07419	-0.08968	0.023439	-0.36093	0.583349	0.511001	0.862599	0.005812	-0.22871	-0.15337	-0.02975	-0.1974	0.063151	0.154426	0.423082	0.094264
TMEM88	0.269327	-0.11981	0.248651	0.051744	0.042772	0.379119	0.062168	0.702268	0.34458	-0.33958	0.277095	-0.23952	0.990488	0.010477	0.967319	0.054442
VAPB	0.036835	0.194298	-0.13317	0.070768	0.785602	0.15131	0.323359	0.6009	-0.0325	0.364901	-0.04591	0.277758	0.415124	0.993674	0.382303	0.969186
MTG1	-0.15378	0.056848	0.089919	0.111016	0.253412	0.677299	0.505932	0.411002	0.037168	0.290775	-0.14066	0.067169	0.596862	0.975028	0.178365	0.671307
VAPA	-0.10622	0.218774	-0.29673	0.068445	0.43161	0.105249	0.025004	0.612934	-0.08365	0.344387	-0.09027	0.235381	0.290237	0.990452	0.277689	0.942338
UBTD2	0.06246	0.156357	-0.24382	0.151285	0.64439	0.249825	0.067592	0.261289	0.136674	0.23142	0.076409	0.13546	0.817457	0.939124	0.691067	0.8153
MTA2	0.002786	0.303084	-0.13379	0.369998	0.983739	0.024494	0.325585	0.005005	0.019195	0.651547	-0.23935	0.476338	0.550378	1	0.056648	0.999591
DAPL1	-0.03189	0.396298	-0.19852	-0.22305	0.815524	0.002743	0.142457	0.098452	-0.26801	0.510521	-0.28864	0.213578	0.035867	0.999855	0.027246	0.92295
CD5L	-0.05002	-0.04281	0.185438	-0.23704	0.711736	0.754083	0.167274	0.075836	0.046892	-0.47539	0.242119	-0.32691	0.621511	0.000421	0.945469	0.013293

TIAF1	0.059306	0.224891	-0.0787	0.250059	0.661228	0.095636	0.560647	0.060655	-0.02086	0.322095	-0.1758	0.234373	0.445265	0.985481	0.124017	0.941533
NOLC1	-0.1253	0.227445	-0.16348	0.177587	0.357491	0.09492	0.228626	0.190399	-0.05237	0.504691	-0.12823	0.312238	0.364804	0.999826	0.200612	0.982681
PCDH21	-0.07331	0.149925	-0.13925	-0.23099	0.591284	0.274602	0.30604	0.086744	0.159368	0.076115	0.06727	-0.19635	0.854954	0.692432	0.669692	0.095463
MAGI1	0.096808	-0.13372	0.071526	-0.467	0.477845	0.330405	0.600383	0.000285	-0.16644	0.131488	-0.08537	-0.08481	0.137258	0.805374	0.290831	0.289828
DUSP27	0.266617	-0.15103	0.307406	-0.2051	0.044988	0.266513	0.020014	0.125897	0.200871	-0.49598	0.276488	-0.41091	0.909644	0.000228	0.967011	0.002279
RCS1D1	0.086754	-0.39801	0.24435	0.32629	0.521082	0.002383	0.06698	0.013247	0.265743	-0.46453	0.265894	-0.24722	0.96287	0.000573	0.961253	0.048822
LMBRD2	0.085697	0.172509	-0.18584	0.120651	0.526193	0.203595	0.166344	0.37133	-0.00621	0.436812	-0.15453	0.310189	0.483671	0.998798	0.155405	0.982046
MRPS36	-0.11892	0.233464	-0.17591	-0.13567	0.378273	0.083327	0.190577	0.314287	-0.17741	0.102352	-0.1857	0.101805	0.119095	0.750754	0.110985	0.749597
LRAT	0.020186	0.192229	-0.08675	0.02962	0.881525	0.155799	0.521102	0.82687	-0.12627	0.280233	-0.14971	0.272213	0.201523	0.970374	0.163151	0.966387
LOC92270	-0.16327	-0.00402	0.038841	-0.23569	0.224938	0.976548	0.774223	0.077576	-0.05293	-0.13997	0.001661	-0.14471	0.363418	0.176771	0.504321	0.168644
DLGAP2	0.006747	-0.13511	0.233075	-0.29947	0.960274	0.320785	0.081018	0.023632	0.134823	-0.27155	0.136992	-0.28885	0.814161	0.033963	0.815234	0.025773
ZNF461	0.017901	0.164332	-0.08761	0.001493	0.894853	0.22618	0.516983	0.991204	0.085525	0.135751	0.001437	0.040396	0.714009	0.815819	0.503738	0.605091
ZNF585B	-0.08393	0.165362	-0.209	-0.04456	0.534766	0.223241	0.11871	0.742072	-0.06331	0.182128	-0.09646	0.095377	0.337982	0.887133	0.264235	0.73582
DLGAP1	-0.00207	-0.003	0.041002	-0.05865	0.987822	0.982472	0.762019	0.664739	0.112585	-0.15397	0.137814	-0.20691	0.771848	0.153472	0.816681	0.083839
CAPN13	-0.11561	-0.13859	0.071061	0.283587	0.391779	0.308355	0.599391	0.032541	-0.17703	0.021301	0.047763	0.091808	0.119608	0.555871	0.622315	0.728015
GLYATL1	0.073734	-0.31192	0.18683	-0.06465	0.589152	0.019268	0.167972	0.635963	0.280311	-0.57939	0.107805	-0.35305	0.970411	1.23E-05	0.75956	0.00805
TMEM132C	0.201805	-0.03588	0.071868	0.18069	0.135829	0.794832	0.598636	0.182643	-0.01545	0.050844	0.240852	0.060717	0.459427	0.631401	0.944508	0.65573
CD6	-0.02527	-0.17326	0.223612	0.370177	0.851963	0.201608	0.094509	0.004593	-0.07984	-0.09036	0.119748	0.108278	0.298941	0.27519	0.783338	0.76309
RAB11B	-0.04062	0.008124	0.022085	0.022831	0.764178	0.952615	0.870467	0.866131	-0.26213	0.368645	-0.13956	0.226028	0.039215	0.994148	0.180273	0.934533
SCGB3A1	0.116422	-0.42821	0.315911	0.191346	0.38845	0.000994	0.016671	0.153915	0.123282	-0.37498	0.238932	-0.20845	0.792821	0.005119	0.943026	0.082236
TMEM129	0.093923	-0.02274	0.08646	0.02267	0.491122	0.869094	0.526339	0.868284	0.044003	0.253203	0.054492	0.097403	0.612949	0.953347	0.637324	0.737783
DLG5	-0.09918	0.195112	-0.03596	0.082069	0.462919	0.149572	0.790569	0.543914	-0.20049	0.493248	-0.26199	0.240506	0.090774	0.999752	0.04106	0.946304
PTTG1	-0.05166	0.29193	-0.09418	-0.04002	0.70533	0.030569	0.489935	0.769639	-0.2237	0.61919	-0.25633	0.439701	0.067531	0.999998	0.044597	0.998884
STRADA	-0.20444	0.076485	-0.02618	-0.32979	0.127141	0.575295	0.846722	0.012236	-0.33807	-0.01773	-0.09518	-0.14423	0.010783	0.453462	0.266999	0.169459
C1orf156	-0.15925	0.176936	-0.32304	0.215559	0.236708	0.192055	0.014246	0.107316	-0.1096	0.24349	-0.01586	0.19829	0.234204	0.948516	0.458808	0.906752
GORAB	0.235604	0.163359	-0.07654	0.262953	0.077683	0.228978	0.571466	0.048132	0.253958	0.322248	0.004185	0.269144	0.955723	0.985522	0.510883	0.964753
NAF1	-0.01768	-0.01951	-0.14485	-0.08153	0.896142	0.886536	0.282349	0.546565	0.004074	-0.06834	-0.21706	-0.08877	0.510718	0.325907	0.076039	0.278706
C1orf105	0.082846	-0.12151	0.060451	-0.26008	0.540093	0.372335	0.655097	0.050722	0.09036	-0.34924	0.099645	-0.33407	0.722507	0.009351	0.740066	0.012454
IL32	-0.10337	-0.22605	0.115707	0.440046	0.444143	0.09389	0.39139	0.000614	-0.09518	-0.11397	0.068838	0.017919	0.264614	0.225377	0.673399	0.547044
CRB3	-0.11186	-0.08915	0.127471	-0.21776	0.407446	0.513499	0.344698	0.103695	-0.1015	-0.0808	0.041877	-0.14083	0.251053	0.296749	0.607625	0.17527
CCPG1	-0.03212	0.270986	-0.2142	0.031912	0.812534	0.043372	0.109598	0.813703	-0.04504	0.311844	-0.05233	0.199448	0.38315	0.98256	0.366401	0.908058
SPSB4	0.052687	-0.22759	0.282929	-0.20213	0.697103	0.091624	0.032964	0.131588	0.066383	-0.27025	0.170116	-0.22533	0.669426	0.03465	0.868052	0.06608
ACPL2	0.170392	0.116396	0.125659	0.096331	0.213589	0.401933	0.360643	0.484158	0.568632	-0.24052	0.307419	-0.21068	0.999977	0.055745	0.978818	0.082396
TBRG4	-0.05714	0.120819	-0.13192	0.155094	0.672901	0.375083	0.327975	0.24933	0.041108	0.412073	-0.23517	0.220759	0.6069	0.997783	0.059965	0.929801
MRRF	-0.26228	0.49003	-0.3084	-0.09421	0.048725	0.000126	0.019598	0.48578	-0.10916	0.361475	-0.28925	0.240608	0.235096	0.993212	0.026981	0.946381
CD7	-0.01629	-0.18899	0.264049	0.060023	0.904288	0.163031	0.047174	0.657386	0.221371	-0.35412	0.123652	-0.27179	0.930364	0.007878	0.790815	0.033832
PNMA1	-0.0659	-0.36462	0.068213	-0.24146	0.626244	0.005731	0.614139	0.070374	-0.13227	-0.37638	0.165005	-0.16683	0.190448	0.004968	0.860637	0.133905
RBM18	-0.02502	0.326023	-0.31235	0.090376	0.853405	0.014202	0.018007	0.503767	-0.20218	0.454442	-0.29193	0.33477	0.088914	0.999245	0.025836	0.98852
NOG	0.132922	-0.26612	0.207537	-0.24763	0.328765	0.04955	0.124833	0.065756	0.028612	-0.40671	0.315736	-0.32608	0.574003	0.002781	0.981592	0.014408
MSC	0.042193	-0.0389	0.240101	0.31654	0.75532	0.775908	0.072022	0.016444	0.219122	-0.1358	0.28598	-0.01775	0.928281	0.184092	0.971572	0.453391
CHMP4C	-0.16487	0.30699	-0.35314	-0.03293	0.220348	0.021371	0.007049	0.807894	-0.22583	0.459448	-0.23088	0.028665	0.065638	0.999341	0.06352	0.574993
CRLF1	-0.04988	-0.20495	0.079301	-0.27474	0.712532	0.1297	0.557628	0.038618	0.080084	-0.40241	0.109968	-0.3363	0.701617	0.002782	0.763965	0.011152
GCNT3	0.127878	-0.00589	0.02504	0.075479	0.343145	0.965626	0.853317	0.576826	0.20967	0.200081	-0.00869	-0.05104	0.919021	0.908766	0.477405	0.368112
UBE2L6	-0.14337	-0.22453	0.220775	0.506863	0.29183	0.099352	0.102025	6.71E-05	-0.02988	-0.1276	0.105268	0.122861	0.422758	0.201777	0.751768	0.789311
GCM2	0.12408	-0.17038	0.260308	-0.2484	0.362235	0.213628	0.052674	0.064891	0.13076	-0.23568	0.090671	-0.28386	0.806805	0.057423	0.72319	0.027951
GPR50	-0.06348	0.07903	0.111554	-0.14067	0.638992	0.562604	0.408727	0.296628	-0.0303	-0.14594	-0.05666	-0.24504	0.420787	0.166585	0.355803	0.050362
LDHAL6B	0.006352	-0.1057	0.199625	-0.32862	0.962599	0.43813	0.136546	0.012567	0.027984	-0.33158	0.087667	-0.33567	0.573233	0.01219	0.716556	0.011287
DHRS3	-0.15754	0.259796	-0.21991	0.041682	0.241839	0.053159	0.100238	0.758193	-0.28066	0.585707	-0.29996	0.383954	0.029424	0.99999	0.022645	0.995784
CD8A	-0.15655	-0.1766	0.040581	0.463941	0.244868	0.192925	0.764392	0.000278	-0.35621	-0.14014	-0.02067	0.134089	0.008161	0.179266	0.447027	0.810072
RPS6KA5	-0.02524	0.002889	-0.10466	-0.19652	0.85217	0.983138	0.43845	0.142874	-0.22138	-0.08475	-0.08175	-0.15258	0.069632	0.287743	0.296709	0.155692

CYTSB	-0.10921	0.210691	-0.03158	-0.22884	0.418691	0.119077	0.81563	0.086848	0.118059	-0.03706	-0.04184	-0.20026	0.782721	0.403422	0.392478	0.091033
NUMBL	-0.05451	-0.30582	0.156191	-0.35106	0.687143	0.021898	0.245954	0.007416	0.005985	-0.57945	0.179299	-0.45535	0.515744	1.22E-05	0.880703	0.000737
CACNA2D2	0.049694	-0.14647	0.244861	-0.23791	0.713549	0.281408	0.066393	0.074734	0.053129	-0.45547	0.066608	-0.3261	0.637082	0.000735	0.668121	0.013493
SCYE1	0.136567	0.160562	-0.23085	0.136448	0.311073	0.237157	0.084042	0.311501	0.013106	0.300236	-0.08184	0.127292	0.534445	0.978684	0.296519	0.800389
ATXN3L	0.02349	0.029203	0.108124	-0.27	0.863563	0.832383	0.42766	0.04417	0.16822	-0.2836	0.294186	-0.34711	0.865333	0.029519	0.973711	0.009743
CCDC64	-0.29262	0.119409	-0.08158	-0.16113	0.027181	0.380723	0.546302	0.231154	-0.22922	-0.06811	-0.05379	-0.15515	0.062723	0.326445	0.362817	0.151614
BZRAP1	-0.14845	-0.25475	0.132742	-0.31029	0.27044	0.058127	0.324946	0.018822	-0.07813	-0.39184	0.085268	-0.37608	0.302881	0.00354	0.711206	0.005
FANK1	-0.12078	-0.1544	0.048444	-0.17565	0.370812	0.255868	0.720456	0.191224	-0.14751	-0.26369	0.074871	-0.20711	0.16396	0.038308	0.687511	0.083633
G6PC3	-0.00305	0.013006	0.073681	-0.08719	0.982028	0.924207	0.58596	0.51896	-0.20954	0.297862	-0.1692	0.100721	0.083572	0.976553	0.136111	0.744834
MFHAS1	0.034873	0.23241	-0.06896	0.252731	0.79677	0.084769	0.610272	0.057865	-0.03464	0.397711	-0.20183	0.240973	0.409612	0.996901	0.091837	0.946656
ASB16	0.008356	-0.15259	0.227745	-0.30993	0.950812	0.261568	0.088416	0.018965	0.099745	-0.34052	0.29094	-0.42306	0.745223	0.010289	0.973745	0.001699
ZNF764	-0.08734	-0.14271	0.224329	-0.03772	0.518277	0.294066	0.09343	0.780597	-0.17994	-0.20655	-0.01686	-0.16523	0.115728	0.084221	0.456241	0.136241
MOBK1A	0.082679	0.058046	-0.18398	0.077189	0.540912	0.670881	0.170689	0.568201	-0.02416	0.067461	0.02366	0.102224	0.436681	0.672006	0.561302	0.750483
CD8B	0.057018	-0.01453	0.218975	0.155366	0.67355	0.915343	0.101729	0.248489	-0.07252	-0.27071	0.10149	-0.24388	0.315989	0.034408	0.746454	0.0512
PDLIM7	0.350661	-0.12772	0.43842	-0.0845	0.008058	0.352745	0.000726	0.535789	0.469176	-0.45055	0.278862	-0.34803	0.999498	0.000839	0.968203	0.008892
TIMM50	-0.05038	0.04335	-0.12118	-0.0128	0.70974	0.751066	0.36921	0.924715	-0.23336	0.482639	-0.43999	0.249477	0.061444	0.999607	0.001401	0.950803
MAPKAPK2	-0.10049	0.106668	0.026573	0.180381	0.457022	0.433943	0.844445	0.179362	0.006888	0.169364	0.111498	0.095655	0.518119	0.869753	0.767054	0.736425
TIFA	0.10661	0.049185	-0.09766	0.252983	0.429932	0.71886	0.469869	0.057607	0.103562	0.247559	-0.06395	0.125306	0.753298	0.951417	0.338224	0.796661
STK17B	0.03194	0.059108	-0.15418	0.499278	0.813544	0.665212	0.252152	7.70E-05	0.005512	0.471247	-0.08932	0.461894	0.514501	0.999526	0.279784	0.999384
STK17A	-0.14736	0.151827	-0.30144	0.308399	0.274009	0.263978	0.022684	0.019597	-0.15627	0.431662	-0.10311	0.3373	0.149849	0.998629	0.250159	0.989057
CYTH3	0.296759	-0.27617	0.163055	0.237641	0.024987	0.039371	0.225551	0.075076	0.289699	-0.11795	0.327122	0.058483	0.974582	0.217496	0.98586	0.650276
CYTH2	-0.24691	0.076806	-0.10267	-0.05617	0.06408	0.573686	0.447269	0.678129	-0.24928	0.258635	-0.2041	0.024786	0.047398	0.958677	0.089342	0.564939
C20orf72	-0.06582	0.421292	-0.26104	0.221896	0.626663	0.001223	0.04984	0.097133	-0.10825	0.67511	-0.23151	0.445896	0.236965	1	0.062984	0.999051
CYTH1	-0.24424	0.297203	-0.20672	0.076432	0.067103	0.02612	0.12286	0.572012	-0.16029	0.268043	-0.10236	0.147328	0.146438	0.96248	0.254254	0.832923
DTD1	-0.12052	-0.13809	-0.04709	-0.0454	0.371834	0.310144	0.727938	0.737383	0.023415	-0.16739	-0.18696	-0.10427	0.560673	0.135871	0.11215	0.247738
FAM114A1	0.039923	0.240923	-0.04022	-0.19339	0.768105	0.073665	0.766427	0.149476	0.021108	0.273047	0.077813	0.141488	0.55537	0.96682	0.694297	0.825862
TMEM169	-0.03519	-0.18846	0.219544	-0.25447	0.796838	0.168228	0.103999	0.058414	0.157774	-0.38524	0.189638	-0.27815	0.852497	0.004099	0.893928	0.030622
ITGB1BP1	0.100202	0.088865	-0.18351	0.17283	0.45832	0.514853	0.171805	0.198572	0.05884	0.134476	-0.11402	0.221872	0.651149	0.81354	0.227903	0.930821
PIWIL1	0.045114	-0.16352	0.218312	-0.27743	0.738961	0.228514	0.102796	0.036673	0.033584	-0.23359	-0.00508	-0.29561	0.587675	0.059098	0.48679	0.023044
ARRDC1	-0.19247	0.029559	0.058136	-0.09624	0.151463	0.828789	0.667517	0.476354	-0.17522	0.187294	-0.17344	-0.03416	0.122063	0.89369	0.127268	0.410853
WDR85	-0.14182	0.012287	-0.08637	0.051392	0.292666	0.928386	0.522921	0.704202	-0.0172	0.031129	-0.1518	-0.16568	0.455368	0.58043	0.162639	0.138371
OTOP2	0.019522	-0.04901	0.170451	-0.14191	0.885391	0.719841	0.204917	0.292355	-0.06829	-0.34293	-0.02814	-0.24739	0.326018	0.009822	0.427204	0.0487
DNER	-0.3103	-0.05867	-0.07094	-0.24753	0.018819	0.667554	0.6	0.063392	-0.26937	-0.23716	0.050175	-0.11937	0.035122	0.05626	0.628287	0.214722
BCL7C	0.053696	0.044884	0.082722	-0.18346	0.691585	0.742554	0.540705	0.171933	0.136	-0.06456	-0.00479	-0.09144	0.813479	0.336753	0.487684	0.275114
SLC38A5	0.157824	0.008865	-0.04734	0.330823	0.245355	0.948784	0.729004	0.012761	0.138149	0.46882	0.021124	0.438996	0.820058	0.999492	0.554774	0.998864
C20orf114	0.084149	0.062152	0.051938	-0.13163	0.541322	0.655258	0.70648	0.3381	0.060535	-0.19063	-0.01438	-0.13717	0.651859	0.107587	0.46353	0.187301
C2orf39	-0.08681	-0.20087	0.036934	-0.23521	0.520818	0.137699	0.785037	0.078201	-0.20316	-0.30567	0.063241	-0.21316	0.087846	0.019422	0.660091	0.077468
BCL7B	-0.10486	0.239367	0.003544	-0.18858	0.437566	0.075603	0.979125	0.160065	-0.28282	0.291194	-0.0388	0.198363	0.028425	0.9752	0.400127	0.906835
COPB2	0.051447	0.192884	-0.19432	0.130298	0.703901	0.154368	0.147501	0.334015	-0.15769	0.387353	-0.17676	0.306785	0.147636	0.996088	0.122704	0.980949
WDR46	-0.09446	-0.0038	-0.11041	0.118605	0.484613	0.977825	0.413576	0.379554	0.000826	0.271274	-0.12874	0.276244	0.502175	0.965894	0.199664	0.968441
ZBTB22	0.030157	-0.2332	0.211658	-0.22496	0.823781	0.08368	0.113982	0.092482	0.11708	-0.42753	0.168315	-0.27603	0.780798	0.00152	0.865469	0.031665
HELB	-0.05197	0.015995	-0.0755	0.354812	0.701042	0.906856	0.576708	0.006766	-0.00468	0.195681	-0.13829	0.179561	0.487692	0.903762	0.18249	0.883773
SHKBP1	0.006521	-0.05263	0.049436	0.060983	0.961603	0.700066	0.714973	0.652254	-0.08176	0.137962	-0.00346	0.001118	0.294541	0.819729	0.491008	0.502942
CD9	0.022693	0.31119	-0.27921	0.062488	0.868151	0.020746	0.037164	0.647299	-0.20811	0.685089	-0.31445	0.440535	0.082591	1	0.017701	0.998908
MGC16385	-0.18793	0.163416	-0.22171	-0.10692	0.161548	0.228814	0.097418	0.428577	-0.11957	0.267011	-0.06253	0.16238	0.21432	0.963581	0.341613	0.859523
HIST3H2A	-0.31809	-0.13241	-0.23276	-0.14507	0.015894	0.33066	0.081443	0.28162	-0.41143	0.380147	-0.33103	0.357718	0.002494	0.995	0.014086	0.992079
MED14	0.083654	0.292751	-0.27347	0.17929	0.536137	0.028557	0.039559	0.182053	0.050062	0.510392	-0.1075	0.421839	0.629452	0.999855	0.241067	0.99825
ZNF276	-0.03185	-0.13045	0.086779	0.157645	0.814068	0.337932	0.520963	0.241533	0.026324	0.026871	-0.01595	-0.00797	0.568932	0.570348	0.45858	0.479045
GPR37L1	0.034135	-0.26422	0.261844	-0.18805	0.800979	0.049097	0.049118	0.16126	0.033911	-0.2977	0.109432	-0.26166	0.588516	0.022249	0.762877	0.039497
REEP6	-0.21621	0.064239	-0.04898	-0.42914	0.106235	0.638092	0.717465	0.000865	-0.13218	-0.06622	-0.06714	-0.27884	0.190605	0.330973	0.330618	0.030288

IMP4	-0.09757	0.160266	-0.07713	0.271663	0.470281	0.238032	0.568484	0.040935	0.033023	0.48167	-0.23837	0.330895	0.586233	0.999649	0.057415	0.987653
TAAR2	0.176402	-0.14185	0.188196	-0.33762	0.189311	0.297002	0.160935	0.010217	0.142494	-0.3927	0.204644	-0.29072	0.827588	0.003472	0.911249	0.024994
GPR56	-0.11659	0.235716	-0.16982	-0.12026	0.396611	0.086182	0.215148	0.38179	-0.19332	0.407239	-0.24109	0.206437	0.099007	0.997514	0.055311	0.915662
CD14	-0.06989	-0.37027	0.141532	0.36967	0.605445	0.004971	0.293639	0.004653	0.030314	-0.34853	0.174523	-0.15899	0.579255	0.008804	0.874231	0.145626
GPR55	-0.0805	-0.17251	0.088802	0.105518	0.551654	0.2036	0.511254	0.434697	0.090575	-0.3331	0.064271	-0.19657	0.725293	0.011847	0.662554	0.09521
HNRPLL	-0.02328	0.143888	-0.18084	0.073412	0.863517	0.290059	0.178246	0.587335	-0.04851	0.224796	-0.10245	0.262174	0.374439	0.933449	0.25152	0.960809
UBE2Q2	-0.05438	0.340169	-0.20901	0.198264	0.687846	0.010312	0.118688	0.139297	0.124608	0.182338	-0.08835	0.308759	0.795342	0.887405	0.281925	0.981592
CCDC102A	0.129467	-0.22228	0.349957	-0.35554	0.337134	0.099653	0.007618	0.006646	-0.15096	-0.28858	0.241253	-0.29004	0.161117	0.027272	0.942674	0.026638
GPR52	0.116861	0.160661	-0.05706	0.147698	0.386653	0.236862	0.673298	0.272895	0.218294	0.235677	0.076952	0.078071	0.927503	0.942573	0.692317	0.696976
MARS2	-0.15398	0.439334	-0.43094	0.199911	0.252796	0.000705	0.000818	0.135974	-0.12452	0.629065	-0.38758	0.318088	0.204823	0.999999	0.004263	0.984392
S1PR2	0.001288	-0.07195	0.327524	-0.1714	0.992414	0.598204	0.012883	0.202364	0.181219	-0.41344	0.17355	-0.29334	0.885951	0.002146	0.872883	0.023933
ADAMTSL1	0.325737	-0.2427	0.40232	0.103973	0.013413	0.071497	0.00192	0.441491	0.196698	-0.25898	0.286118	-0.15563	0.904936	0.041109	0.971634	0.150847
SFRS11	0.063849	0.194871	-0.0219	0.129118	0.637033	0.150085	0.87154	0.338449	0.352841	-0.11556	0.130842	-0.12526	0.991917	0.222202	0.804197	0.203432
ATP6V1F	-0.09789	-0.00011	-0.0535	-0.03537	0.468803	0.999332	0.692665	0.793912	0.001207	0.168347	-0.2154	0.031618	0.503177	0.868295	0.077659	0.582617
PEX11G	-0.15798	-0.11192	0.175573	-0.31476	0.240522	0.41153	0.191431	0.017094	-0.01361	-0.57729	0.055046	-0.51428	0.464635	1.65E-05	0.638664	0.000151
SNORD29	-0.0483	0.100262	-0.09026	0.472077	0.721227	0.462204	0.504321	0.000209	0.01421	0.404274	0.001912	0.399862	0.537337	0.997336	0.504974	0.99705
MARCH9	0.048317	0.04429	0.067111	-0.3826	0.723622	0.748155	0.623113	0.003612	-0.16032	0.05774	0.164841	-0.11292	0.143588	0.648454	0.860394	0.227483
SNORD31	0.004819	0.365966	-0.18555	0.417359	0.971618	0.005541	0.167008	0.001238	0.169324	0.41683	-0.06417	0.242156	0.869696	0.998022	0.337683	0.947536
SNORD30	-0.06317	0.248915	-0.24041	0.317701	0.640601	0.064323	0.071646	0.016031	0.081348	0.425862	-0.0959	0.198208	0.704516	0.998415	0.26544	0.906659
ZBTB47	0.182204	-0.18219	0.363446	-0.01271	0.174935	0.178982	0.005455	0.925233	0.269069	-0.35101	0.304118	-0.24841	0.964712	0.008383	0.978876	0.047991
ACVR2B	0.036106	-0.00978	0.134886	-0.28979	0.789743	0.942954	0.317125	0.028773	-0.21065	0.233359	-0.03006	0.055444	0.079982	0.940715	0.422296	0.642806
CD19	-0.07428	-0.29574	0.171522	0.151738	0.582916	0.026901	0.202043	0.259844	0.072796	-0.35429	0.211347	-0.1351	0.684664	0.007852	0.918291	0.185339
SNORD28	-0.01262	0.278467	-0.05767	0.35408	0.925746	0.037695	0.67002	0.006889	0.239289	0.409392	0.008997	0.234223	0.945382	0.997637	0.523386	0.941412
SNORD27	-0.01518	0.290071	-0.15114	0.394906	0.910759	0.030113	0.261758	0.002366	0.014474	0.526857	-0.07867	0.369504	0.53803	0.999916	0.303749	0.994252
B3GNT7	-0.07619	-0.07388	0.093381	-0.2016	0.573223	0.588395	0.489624	0.132623	-0.17018	0.084981	-0.09829	-0.03565	0.131853	0.710564	0.262802	0.40807
SNORD26	-0.02212	0.328512	-0.10822	0.469214	0.870292	0.013438	0.422966	0.000232	0.234628	0.46344	-0.04963	0.353296	0.941738	0.99941	0.373069	0.99199
SNORD25	-0.08927	0.375207	-0.28049	0.509184	0.509014	0.004381	0.034566	5.24E-05	0.134006	0.410834	0.015785	0.321982	0.812696	0.997717	0.540985	0.985452
NT5C1B	0.087731	-0.18882	0.203139	-0.36346	0.520257	0.167388	0.133207	0.005899	0.029012	-0.45711	0.230593	-0.36295	0.57589	0.000703	0.93624	0.006585
PKHD1L1	0.19766	-0.17352	0.198193	0.137432	0.144224	0.205184	0.143124	0.31247	0.302816	-0.35292	0.355141	-0.3116	0.979601	0.008069	0.991666	0.017515
SNORD22	0.143106	-0.109	0.014566	0.319161	0.292717	0.428257	0.915147	0.016504	0.006352	0.225096	0.019283	0.058246	0.516709	0.933714	0.550024	0.649696
COQ10A	-0.12563	-0.18114	-0.01536	-0.14714	0.351756	0.181548	0.909731	0.274735	-0.21263	-0.28523	0.034294	-0.26836	0.077989	0.027338	0.588482	0.035675
SOCS6	-0.02973	0.115438	-0.26937	0.055029	0.827812	0.401325	0.044686	0.687081	-0.03785	0.427771	-0.23795	0.110965	0.401408	0.998489	0.057741	0.768574
CD83	0.168006	-0.31135	0.124901	0.176372	0.215824	0.020677	0.359043	0.193498	0.12763	-0.30566	0.217737	-0.16318	0.798281	0.02058	0.922171	0.142071
C13orf27	0.043789	0.228105	-0.27633	0.233952	0.746368	0.090865	0.037459	0.079848	-0.14333	0.563981	-0.27255	0.374563	0.170988	0.999978	0.035047	0.994835
NEURL3	0.157249	-0.18006	0.272468	-0.00806	0.242731	0.184199	0.040317	0.952539	-0.02629	-0.33667	0.23171	-0.20442	0.431146	0.011075	0.937183	0.086481
DMKN	-0.19924	-0.05977	-0.1532	-0.48919	0.137328	0.661697	0.255214	0.000113	-0.29598	-0.25695	-0.10505	-0.35569	0.022903	0.04237	0.246104	0.007634
MS4A1	-0.18608	-0.17828	-0.12025	0.422626	0.169725	0.192834	0.377358	0.001175	0.014526	-0.5885	0.098416	-0.49127	0.537725	1.06E-05	0.737472	0.000305
ZNF235	-0.02567	0.135091	-0.06511	0.233588	0.849689	0.320863	0.630359	0.080333	0.177435	0.029701	0.131572	0.075448	0.880938	0.577673	0.805526	0.690878
NAPRT1	-0.06483	0.072815	-0.16674	-0.10217	0.631846	0.593814	0.215092	0.44948	-0.0569	0.241425	-0.18007	0.009201	0.353603	0.946993	0.118271	0.524197
KCNG4	-0.02142	0.04686	0.181449	-0.21106	0.874351	0.731639	0.176758	0.115033	0.216877	-0.26152	0.195418	-0.23003	0.926156	0.039579	0.900859	0.062032
TMEM44	-0.13723	0.095425	0.033505	-0.26973	0.308722	0.484183	0.804579	0.042453	-0.20881	0.189257	-0.13078	-0.01656	0.081858	0.896112	0.195915	0.456497
ACCN3	-0.04111	-0.14421	0.215497	-0.286	0.761438	0.28896	0.107419	0.03103	-0.07936	-0.45051	-0.0194	-0.34496	0.302163	0.00095	0.450273	0.010153
KCNB2	0.047103	0.016851	0.196179	-0.09119	0.727889	0.901896	0.143587	0.499935	0.136053	-0.27999	0.058106	-0.1619	0.816356	0.029741	0.647707	0.141202
ORAI3	0.150309	0.052604	0.206789	-0.18071	0.26884	0.702885	0.126229	0.182596	0.011102	0.191398	0.251041	-0.01689	0.528852	0.896073	0.949883	0.456161
MMP20	0.106536	-0.13796	0.290338	-0.23824	0.430251	0.310601	0.028461	0.07432	0.05333	-0.32576	0.165578	-0.21312	0.63758	0.013579	0.861482	0.077506
ZNF561	-0.22488	0.25908	-0.26452	-0.02463	0.092599	0.053842	0.046767	0.855716	0.068209	0.408932	-0.13563	0.163956	0.673793	0.997612	0.187183	0.861877
KLF4	0.003561	0.142262	-0.19631	-0.05573	0.979219	0.300158	0.147032	0.683303	-0.03764	0.490271	-0.16563	0.292971	0.401927	0.999729	0.138442	0.975919
OLFM2	0.118174	0.011968	0.172756	-0.0134	0.3813	0.930241	0.198768	0.921185	0.026029	-0.01057	0.054017	0.101776	0.568167	0.4722	0.637739	0.749537
HTR7P	-0.04107	-0.14284	0.046985	-0.12237	0.761652	0.293614	0.728544	0.364484	-0.03694	-0.26281	0.005016	-0.21356	0.404812	0.040564	0.512888	0.079472
PRDM6	0.363734	-0.29541	0.341818	0.10516	0.005415	0.027077	0.009257	0.436268	0.396707	-0.51932	0.41841	-0.18503	0.996829	0.000109	0.997884	0.10915

PTER	-0.19208	0.279223	-0.32532	0.142953	0.156123	0.038973	0.014423	0.29324	-0.1574	0.437128	-0.05854	0.419475	0.148089	0.998808	0.351246	0.998145
COPS2	0.017371	0.2612	-0.28022	0.16246	0.89795	0.05184	0.034751	0.227272	0.077102	0.415896	-0.09998	0.347796	0.694729	0.997977	0.256727	0.991068
PIGM	0.063358	0.293662	-0.07056	0.306047	0.642719	0.029551	0.605307	0.021794	0.082638	0.418781	-0.01318	0.333716	0.707463	0.998114	0.465761	0.988289
IGSF8	-0.02914	-0.13923	0.175003	-0.07374	0.829633	0.306103	0.192901	0.58565	0.062665	-0.18638	0.077547	-0.1864	0.660461	0.10745	0.693686	0.107422
TRIP13	-0.18637	0.014337	-0.19074	-0.31272	0.165102	0.916477	0.155247	0.017864	-0.39404	0.207794	-0.28025	0.062657	0.003368	0.917084	0.031118	0.660443
C1orf158	-0.13765	-0.19209	0.034981	-0.26283	0.307223	0.1561	0.796153	0.048239	-0.21174	-0.264	0.075434	-0.20311	0.078881	0.038126	0.688814	0.087901
MS4A3	-0.03579	-0.15403	-0.00943	-0.29381	0.791522	0.257046	0.944474	0.026537	-0.02672	-0.3939	-0.0123	-0.3838	0.430032	0.003379	0.468048	0.004231
TRIP12	0.024139	0.263599	-0.2415	0.13276	0.858539	0.04965	0.070331	0.324882	-0.0049	0.389187	-0.09936	0.311816	0.487117	0.996244	0.258047	0.982551
TRIP11	0.066396	0.179121	-0.15816	0.068907	0.623628	0.186535	0.239986	0.610529	0.014958	0.282507	0.016488	0.170855	0.539297	0.971432	0.542804	0.87187
PERLD1	0.04159	-0.03986	0.093964	-0.00473	0.758709	0.770518	0.486906	0.97217	-0.02241	0.232542	-0.18542	0.044861	0.441238	0.940048	0.111335	0.616398
TRIP10	0.022723	0.295536	-0.23438	0.195604	0.866762	0.027011	0.079281	0.144789	0.18517	0.432757	-0.06156	0.319937	0.891027	0.998667	0.34394	0.984903
CCDC114	-0.10241	-0.29059	0.052959	-0.27534	0.448415	0.029809	0.695615	0.038175	-0.18033	-0.33281	-0.01543	-0.29028	0.115209	0.011913	0.459943	0.025176
HMG3	-0.08446	-0.08206	-0.01788	-0.09352	0.532222	0.547658	0.894951	0.488981	-0.44745	-0.08049	-0.12018	0.000803	0.001029	0.299583	0.21856	0.502087
TRIP4	-0.19331	0.280055	-0.36751	0.167271	0.149646	0.036572	0.004918	0.21362	-0.2358	0.442846	-0.22046	0.266799	0.057327	0.998972	0.072801	0.963463
ZNHIT3	0.032196	0.136548	-0.36325	0.184997	0.812075	0.315623	0.005482	0.168303	0.122868	0.430146	-0.14829	0.314287	0.79203	0.998576	0.165489	0.983297
LEMD1	-0.24235	0.088818	-0.1296	-0.13993	0.071917	0.519033	0.341115	0.303653	-0.09297	-0.12502	0.03857	-0.11419	0.269422	0.203873	0.599305	0.224937
GTF3C5	-0.13975	0.167069	0.023639	-0.10683	0.304298	0.222788	0.862706	0.43326	-0.42731	0.367476	-0.20166	0.15108	0.001529	0.994003	0.092025	0.841887
GTF3C4	-0.05876	0.302733	-0.29517	0.245515	0.664143	0.023338	0.025809	0.065649	0.025071	0.512215	-0.09956	0.363948	0.56568	0.999863	0.257625	0.993548
CD22	0.042421	-0.17891	0.189959	0.277309	0.756232	0.191249	0.160835	0.038531	0.169277	-0.51718	0.186343	-0.25726	0.866853	0.000138	0.887075	0.043998
GTF3C3	-0.05653	0.246807	-0.25086	0.051724	0.676183	0.066689	0.059811	0.702378	-0.21167	0.399937	-0.12392	0.268503	0.07895	0.997055	0.208674	0.964404
B4GALT6	-0.18691	0.241239	-0.17831	0.243175	0.163876	0.073276	0.1845	0.068345	-0.37275	0.463834	-0.29427	0.248457	0.005839	0.999334	0.026256	0.950089
CD163	-0.13478	-0.23288	0.096943	0.503551	0.317518	0.084128	0.473137	6.53E-05	-0.07308	-0.10036	0.120478	0.186813	0.316644	0.255924	0.782009	0.89042
HICE1	0.01694	-0.07626	-0.17804	-0.01167	0.900467	0.576407	0.185178	0.93135	-0.30844	0.476641	-0.3509	0.277288	0.018512	0.999594	0.009055	0.968956
TGM5	-0.0112	0.056455	0.14474	-0.25476	0.934702	0.682254	0.287183	0.058111	0.00742	0.08002	-0.05005	-0.10922	0.519516	0.701471	0.372014	0.234974
B4GALT5	-0.31565	0.40531	-0.29801	0.254405	0.0178	0.002142	0.025696	0.058475	-0.22134	0.741143	-0.29389	0.490356	0.069668	1	0.025025	0.999729
FAM125A	-0.13959	0.276465	-0.00223	-0.11465	0.304864	0.041029	0.986999	0.400123	-0.29223	0.466811	-0.12916	0.012323	0.025711	0.999387	0.201683	0.532018
SP140L	-0.09627	-0.02112	0.127304	0.320919	0.476212	0.877199	0.345333	0.014934	-0.21108	0.049035	-0.19666	0.209963	0.081979	0.625467	0.100361	0.916871
CNOT8	-0.0034	0.080305	-0.25341	0.298907	0.979987	0.556299	0.057177	0.023908	0.070087	0.430767	-0.10272	0.282507	0.678261	0.998598	0.250974	0.971432
OPALIN	0.046514	-0.05334	0.179445	-0.107	0.733547	0.698917	0.185727	0.432485	0.230004	-0.378	0.134855	-0.25775	0.937943	0.004798	0.811442	0.041872
TCEAL1	-0.04728	-0.05182	-0.02901	-0.17239	0.726922	0.704475	0.830362	0.199747	0.202559	-0.51266	0.195462	-0.24104	0.911501	0.000135	0.90091	0.053296
MMGT1	0.095609	0.220657	-0.13512	0.198415	0.479278	0.102214	0.316274	0.138989	0.085883	0.354754	-0.16085	0.264661	0.712583	0.991602	0.148467	0.960534
GLP2R	0.140714	-0.23912	0.046321	-0.36157	0.300942	0.078705	0.734613	0.006181	0.073219	-0.31191	0.194453	-0.32289	0.685658	0.017419	0.899724	0.014309
MYL10	-0.02848	-0.04928	0.075568	-0.31732	0.833426	0.718346	0.576378	0.016166	0.218837	-0.37009	0.128628	-0.39124	0.925667	0.006169	0.797331	0.003936
VAMP3	0.125488	0.278115	-0.18739	0.182195	0.352317	0.037948	0.162762	0.174956	0.136537	0.377837	-0.03314	0.350072	0.817214	0.995185	0.414457	0.99146
SNAP29	-0.1912	0.042017	-0.12395	0.054387	0.154237	0.758484	0.3583	0.687819	-0.22092	0.136892	-0.04601	0.064878	0.070052	0.817844	0.382041	0.665808
SYCE1	-0.03848	0.028338	0.063547	-0.30092	0.776282	0.835758	0.638628	0.022933	0.246001	-0.41461	0.201356	-0.41984	0.950321	0.002086	0.90764	0.001838
EFTUD2	-0.14015	0.2322	-0.31578	0.191685	0.298435	0.085059	0.01672	0.153174	-0.22884	0.600415	-0.35815	0.387895	0.06304	0.999995	0.007854	0.996135
LOC93432	0.140288	-0.32285	0.181321	-0.01138	0.297949	0.015229	0.177069	0.933025	0.165394	-0.40692	0.199961	-0.32872	0.861211	0.002768	0.903438	0.013736
ARMC6	-0.03732	0.178654	-0.06944	-0.07514	0.78286	0.187706	0.607773	0.578526	-0.22386	0.47324	-0.29968	0.250274	0.067381	0.999552	0.022753	0.953282
TAOK2	-0.07593	-0.13034	-0.00883	-0.0656	0.574556	0.338318	0.948053	0.627804	-0.06482	0.246058	-0.01165	0.251325	0.334339	0.950362	0.469738	0.953989
ZNF670	-0.0075	0.217569	-0.318	-0.08649	0.955837	0.107229	0.015928	0.522337	0.101552	0.175547	-0.10425	-0.01424	0.749062	0.878383	0.247777	0.462582
NDST3	0.157968	-0.32595	0.120503	-0.24769	0.240556	0.014224	0.37192	0.063216	-0.01194	-0.323	0.070912	-0.23179	0.46861	0.014281	0.678278	0.060567
MAPK1IP11	0.041327	0.364049	-0.17968	0.290417	0.760193	0.005812	0.18109	0.028416	0.335648	0.449019	-0.07842	0.285595	0.988709	0.999126	0.304309	0.972821
RPL23	0.099957	0.321365	-0.22227	0.201553	0.459426	0.015732	0.096553	0.132721	0.144173	0.31712	-0.13916	0.344281	0.830445	0.984119	0.180969	0.990432
TPTE2	0.013281	-0.07258	-0.09114	-0.01348	0.921891	0.595024	0.50017	0.920746	0.072143	-0.04203	0.120106	-0.04935	0.683125	0.390769	0.78403	0.372332
CER1	0.069401	-0.21415	0.167177	-0.20068	0.60797	0.112997	0.213882	0.134447	0.082776	-0.3961	0.164897	-0.33197	0.707778	0.003215	0.860477	0.012101
SLC9A3R2	0.005725	-0.08097	0.260439	-0.08513	0.966289	0.553046	0.050392	0.528958	0.076056	-0.21558	0.17618	-0.14424	0.692297	0.075094	0.876503	0.169435
SDR42E1	-0.00209	0.437708	-0.28453	0.20796	0.987696	0.000742	0.031946	0.12059	-0.12815	0.611296	-0.23269	0.340788	0.198011	0.999997	0.061996	0.989764
TXNL1	0.023709	0.297847	-0.28192	0.146748	0.861035	0.025782	0.033622	0.276026	-0.07732	0.43102	-0.18749	0.330939	0.304766	0.998607	0.108727	0.987664
SLIT2	0.321153	-0.26769	0.130522	0.082344	0.014857	0.046084	0.333176	0.542559	0.110473	-0.1758	0.191392	-0.01611	0.764988	0.12402	0.89335	0.45817

UBE4A	0.051639	0.300792	-0.16011	0.067626	0.702847	0.024285	0.234168	0.617197	0.026099	0.419218	-0.10437	0.282027	0.568349	0.998134	0.247532	0.971212
LHX2	-0.06494	-0.09338	0.167475	-0.15981	0.631285	0.493661	0.213054	0.235054	-0.00779	-0.2948	0.013833	-0.28015	0.479517	0.023359	0.535932	0.029667
ANUBL1	-0.11976	0.082961	-0.15735	-0.04334	0.374898	0.543274	0.242432	0.748859	-0.20084	0.078408	-0.11012	0.034618	0.090385	0.697755	0.235729	0.590331
SLC22A6	0.007268	-0.07872	0.1911	-0.2574	0.957209	0.564161	0.154455	0.053239	0.185316	-0.37302	0.226939	-0.39371	0.891212	0.005337	0.933083	0.003394
ITGBL1	0.285896	-0.2291	0.182643	0.364799	0.031094	0.089428	0.17388	0.005271	0.3597	-0.32552	0.353188	-0.13145	0.992961	0.013638	0.99134	0.19194
RG9MTD2	-0.08632	0.080656	-0.14403	-0.19584	0.523159	0.554573	0.285126	0.144299	-0.13208	-0.00382	0.024292	-0.07569	0.190781	0.48994	0.562925	0.308565
CACNA2D4	-0.06448	-0.14726	0.208944	-0.11348	0.633724	0.278773	0.118804	0.400621	0.132591	-0.43025	0.272523	-0.35242	0.81014	0.00142	0.964941	0.008151
WDR67	-0.12576	0.191784	-0.24139	-0.04616	0.351268	0.156777	0.07046	0.733109	-0.17263	0.03553	-0.10492	0.139669	0.125646	0.592669	0.246388	0.822715
PPIG	0.121678	0.173357	-0.18344	-0.00072	0.367241	0.201346	0.171983	0.99575	0.100217	0.193123	0.066098	0.061566	0.74623	0.900765	0.66691	0.657796
LONP1	-0.06225	-0.11392	0.085391	-0.02077	0.645496	0.403137	0.527673	0.878149	-0.23418	0.143106	-0.03332	-0.02172	0.058624	0.828632	0.413983	0.44303
FBXO44	0.068978	-0.09137	0.25617	-0.06609	0.610162	0.503046	0.054427	0.625233	0.222873	-0.32945	0.123218	-0.32918	0.93173	0.012682	0.789992	0.012746
CPNE6	0.070682	-0.15187	0.235425	-0.27025	0.601343	0.263855	0.077915	0.042038	0.168032	-0.32389	0.171817	-0.33293	0.867841	0.014051	0.870459	0.011885
MRFAP1	0.061884	0.088734	-0.26877	0.231343	0.647453	0.515477	0.043223	0.083366	0.004001	0.456982	-0.19319	0.315326	0.510527	0.999295	0.101771	0.983602
LOC93622	-0.09963	0.233103	-0.04824	-0.0347	0.460887	0.083819	0.721596	0.797738	-0.13753	0.208866	-0.1855	0.048116	0.181026	0.918195	0.111238	0.624583
TADA2B	0.110678	0.145821	-0.0276	-0.11862	0.41244	0.283558	0.838492	0.379491	0.21013	-0.07381	0.001199	-0.32155	0.919491	0.312957	0.503118	0.014662
TBCKL	0.02574	0.306693	-0.16742	0.093545	0.849266	0.021504	0.213216	0.48886	0.147541	0.437677	-0.03462	0.310802	0.836086	0.998824	0.410682	0.982238
RAB33A	-0.16794	-0.10084	0.168006	-0.08542	0.21176	0.459619	0.211585	0.527548	-0.0062	-0.19405	0.064369	-0.32575	0.48369	0.09814	0.662789	0.013581
RAB28	-0.06173	0.126728	-0.1169	-0.00864	0.648296	0.352001	0.386473	0.949115	-0.02901	0.143416	-0.16067	0.05846	0.424121	0.829161	0.145858	0.65022
TJAP1	0.012948	-0.05386	0.139937	-0.18595	0.923841	0.693381	0.299169	0.166078	0.094595	0.115607	-0.05902	-0.02396	0.73412	0.777886	0.35007	0.437206
MYOCD	0.334732	-0.12391	0.265281	0.045968	0.010926	0.362897	0.046115	0.734199	0.353785	-0.44179	0.320698	-0.31928	0.992068	0.001057	0.984137	0.015276
KL	0.309992	-0.25664	0.241943	0.046048	0.018942	0.056226	0.0698	0.733758	0.14989	-0.39358	0.199618	-0.21796	0.839952	0.003404	0.905691	0.072813
ACPT	0.071989	-0.16412	0.234716	-0.16776	0.594619	0.226798	0.078842	0.212256	0.158919	-0.25811	0.210209	-0.23156	0.854264	0.041649	0.917125	0.060759
RAB9P1	0.092024	-0.0705	0.314913	-0.07707	0.495985	0.605621	0.017037	0.568787	0.231586	-0.36797	0.143217	-0.28991	0.939262	0.005935	0.826017	0.025328
CAPZA3	0.065752	-0.19148	0.091424	-0.25827	0.627008	0.157438	0.498812	0.052414	-0.06964	-0.283	-0.1239	-0.18321	0.322796	0.028342	0.208722	0.111477
ARHGAP18	-0.09175	-0.11085	-0.05862	-0.11719	0.497253	0.416051	0.664892	0.385307	-0.2157	-0.13663	0.06523	-0.08219	0.074976	0.18262	0.664843	0.293564
CADPS2	0.230241	-0.1078	0.182113	0.167585	0.084888	0.429051	0.175153	0.21275	0.242908	-0.18052	0.13912	-0.06035	0.94809	0.114968	0.818964	0.345167
RAB9A	0.048282	0.040747	-0.2166	0.088935	0.723811	0.767711	0.108842	0.514525	-0.04829	0.335445	-0.15213	0.050646	0.374973	0.988665	0.159231	0.630909
SLC9A3R1	-0.12114	0.241439	-0.12162	-0.1584	0.369366	0.073032	0.367477	0.239269	-0.31263	0.559555	-0.31756	0.196165	0.0172	0.999974	0.016766	0.904321
NRXN3	0.193007	-0.1108	0.105262	-0.06858	0.150306	0.416247	0.435818	0.612227	0.143378	-0.31154	0.24678	-0.23204	0.829096	0.017533	0.948897	0.060363
ADIPOQ	-0.02065	-0.08864	0.230105	-0.03325	0.879944	0.519896	0.087991	0.807815	0.06485	-0.33219	0.066833	-0.29805	0.663937	0.012893	0.666781	0.023373
KIF3B	-0.26392	-0.14461	-0.01974	-0.34755	0.047288	0.287606	0.884143	0.008073	-0.31986	-0.27624	0.108215	-0.13142	0.015118	0.031563	0.760398	0.191992
ZFYVE9	0.110629	0.122556	-0.2342	0.077487	0.421353	0.37731	0.085255	0.573905	0.111258	0.336306	-0.14825	0.208506	0.769168	0.988849	0.165549	0.917823
PLAA	-0.01889	0.260413	-0.39458	0.16649	0.8891	0.052576	0.002387	0.215795	-0.17236	0.559399	-0.26157	0.398096	0.126019	0.999973	0.041313	0.996928
PPT2	0.110897	0.05235	-0.10976	-0.09098	0.411508	0.701587	0.416346	0.500904	-0.01283	0.242177	-0.0717	0.063702	0.466275	0.947551	0.31988	0.662972
TM9SF2	-0.02388	0.246568	-0.2617	0.094116	0.860038	0.066962	0.049252	0.486202	-0.18283	0.423505	-0.20331	0.349914	0.111957	0.99832	0.090202	0.991433
SLC22A8	0.007375	-0.26616	0.218183	-0.20453	0.956976	0.049516	0.106217	0.130505	0.12437	-0.36634	0.253302	-0.21911	0.794891	0.00614	0.953413	0.071733
COX5A	-0.04595	0.335753	-0.10389	-0.10373	0.736656	0.01221	0.446095	0.446766	-0.30809	0.604871	-0.23317	0.326756	0.018623	0.999996	0.061602	0.986668
NRXN1	0.100587	-0.07628	-0.03809	0.187073	0.456584	0.576312	0.778471	0.163495	0.208509	-0.2854	0.172605	-0.17018	0.917826	0.027266	0.871565	0.12908
NRXN2	-0.0197	-0.21573	0.168135	-0.10674	0.884383	0.110299	0.211229	0.429359	0.112308	-0.40405	0.155123	-0.29776	0.771291	0.002678	0.84554	0.022228
GRHPR	0.093506	0.03806	-0.0543	0.254938	0.493056	0.782641	0.691039	0.057932	-0.0361	0.534419	-0.26786	0.358147	0.405882	0.999935	0.037621	0.992735
OTOF	-0.0523	-0.16311	0.16749	-0.138	0.699244	0.229707	0.213012	0.305981	0.182044	-0.42872	0.138013	-0.3134	0.887024	0.001476	0.817031	0.016967
COG1	-0.21265	0.067337	-0.12504	-0.106	0.115597	0.625219	0.358508	0.436842	-0.07153	-0.09474	0.00711	-0.22441	0.318328	0.26557	0.518485	0.066895
LIPG	0.089925	-0.1644	0.298342	0.037468	0.509833	0.230363	0.025525	0.783962	0.132259	-0.38829	0.108173	-0.15328	0.809538	0.003832	0.760312	0.154568
SLC22A14	-0.04644	0.027599	0.144731	-0.1944	0.731561	0.839986	0.282752	0.147322	0.229878	-0.29443	0.303331	-0.32926	0.937837	0.023502	0.978594	0.012729
CD27	-0.00443	-0.15452	-0.0169	0.611248	0.973917	0.255495	0.900715	4.41E-07	-0.04909	0.091996	0.060347	0.388181	0.374391	0.726092	0.65141	0.995792
SLC22A13	0.10463	-0.07688	0.198638	-0.00229	0.442826	0.576907	0.142209	0.986658	0.09168	-0.21626	0.113946	-0.1088	0.727733	0.074437	0.771953	0.235838
CIAO1	-0.21993	0.000855	-0.2813	0.214117	0.100207	0.995012	0.034027	0.109744	-0.25228	0.386152	-0.25168	0.297436	0.045379	0.995983	0.047678	0.977651
TGFBRAP1	0.00977	0.327014	-0.07627	0.38625	0.943029	0.014813	0.576369	0.003279	-0.07279	0.643897	-0.15141	0.389519	0.315343	0.999999	0.160386	0.996272
HS6ST1	-0.11019	-0.0331	0.005149	-0.05296	0.41885	0.810424	0.969954	0.698297	0.149664	0.133157	-0.00029	0.079561	0.83677	0.808396	0.499262	0.698301
ACRC	-0.03098	0.082566	0.047	0.275487	0.819035	0.5452	0.728463	0.038068	0.098405	-0.09763	0.121133	-0.08952	0.742357	0.259316	0.786006	0.277054

NMT2	0.195229	0.251954	0.003397	0.228963	0.145577	0.061031	0.979994	0.086681	0.295601	0.157848	-0.01847	0.085131	0.975664	0.849804	0.452636	0.7109
ACTR8	0.081732	0.248339	-0.2086	0.165568	0.545573	0.064963	0.119417	0.218386	-0.06931	0.450878	-0.17446	0.356144	0.323585	0.999169	0.12585	0.992435
ATPIF1	-0.33668	-0.04935	-0.16319	-0.26357	0.010444	0.717978	0.225162	0.04759	-0.30185	-0.08516	-0.16728	-0.10673	0.020738	0.286806	0.136032	0.240109
CLEC6A	0.042066	-0.17078	0.157842	-0.02413	0.76041	0.216942	0.249759	0.861183	0.1025	-0.35464	0.153669	-0.23267	0.748574	0.008417	0.840354	0.062016
CPA5	-0.01094	-0.01172	0.147953	-0.17854	0.935611	0.931675	0.272059	0.183915	0.073696	-0.25655	0.033375	-0.19113	0.686777	0.042623	0.586147	0.10162
IGSF2	-0.06523	0.086809	0.131236	0.314597	0.629726	0.524665	0.330514	0.017154	-0.08367	0.256529	-0.10938	0.149389	0.290198	0.957366	0.237219	0.839132
FOXP2	-0.07716	0.227781	-0.18523	-0.22748	0.568337	0.091337	0.167759	0.088797	-0.01536	0.144601	-0.05414	0.027612	0.460112	0.828361	0.363526	0.571442
STOML1	-0.07629	-0.21216	0.12586	0.106064	0.572704	0.116459	0.350879	0.432309	-0.0201	0.048639	-0.01752	-0.02682	0.447264	0.625893	0.454518	0.429781
ACVRL1	0.119256	-0.21426	0.266855	0.110081	0.381338	0.11623	0.046797	0.419292	0.272309	-0.24125	0.360998	0.007274	0.966437	0.053139	0.99258	0.519132
CD28	0.057971	-0.13551	0.049557	0.299012	0.668409	0.319353	0.714306	0.023856	0.101624	-0.23707	0.06104	-0.13777	0.749215	0.056328	0.654802	0.180602
RECQL5	0.017444	0.034104	0.150562	-0.26226	0.897523	0.802951	0.263601	0.048744	0.074727	0.199149	-0.07413	-0.02966	0.689193	0.907722	0.314203	0.422424
PIGS	-0.18253	0.112327	-0.28195	0.055833	0.174146	0.409809	0.033599	0.679962	-0.26168	0.577545	-0.32386	0.266207	0.039485	0.999987	0.014995	0.963131
SERHL	-0.03308	0.078158	0.078841	-0.14023	0.807023	0.566939	0.559921	0.298153	0.008491	-0.07547	-0.01155	-0.26047	0.522331	0.30907	0.469993	0.040204
RECQL4	-0.03409	0.134276	0.070973	-0.17847	0.801265	0.323817	0.599845	0.184094	-0.0071	-0.11185	-0.03746	-0.16475	0.481322	0.229631	0.403486	0.136946
TTYH2	0.074936	-0.20552	0.266983	0.170511	0.579578	0.128632	0.044684	0.204754	0.177646	-0.34953	0.164232	-0.19058	0.881222	0.008633	0.859492	0.102279
GRAP2	-0.00951	-0.43781	0.081843	0.438077	0.944552	0.00083	0.548739	0.000734	-0.19743	-0.3446	0.030073	-0.10951	0.094229	0.009508	0.577736	0.234381
MUC16	-0.24592	0.252073	-0.06034	-0.05729	0.067701	0.06337	0.658663	0.674945	-0.24356	0.181985	-0.11008	0.007625	0.051431	0.886947	0.23581	0.520055
POM121L2	-0.01474	-0.02037	0.263171	-0.17039	0.913363	0.88154	0.04794	0.20509	-0.05925	-0.20733	0.253932	-0.18872	0.347859	0.083403	0.953832	0.104547
CGB7	-0.20363	-0.04831	0.116835	-0.16897	0.128686	0.723681	0.386757	0.208929	-0.15458	-0.00726	-0.15712	-0.06757	0.155319	0.481133	0.154201	0.329608
Sep-15	0.111946	0.216956	-0.13267	0.283904	0.407071	0.108246	0.325218	0.032339	-0.10899	0.504711	-0.18969	0.466951	0.235441	0.999826	0.106007	0.999465
LRRC4B	-0.04932	-0.026	0.227576	-0.19276	0.715613	0.849123	0.088658	0.150845	0.075423	-0.45668	0.077561	-0.35087	0.688788	0.000807	0.691611	0.009061
HTRA3	0.268595	-0.35858	0.316875	0.182413	0.043361	0.006653	0.016324	0.174431	0.193826	-0.26642	0.272299	-0.06933	0.901595	0.036749	0.964821	0.323544
CAMK2N2	0.055385	-0.07876	0.296659	-0.19524	0.682392	0.563932	0.025038	0.145549	0.126708	-0.42186	0.223836	-0.32499	0.799297	0.001749	0.930311	0.013772
FTMT	-0.02909	-0.03203	0.061236	-0.17452	0.831474	0.81473	0.653912	0.1983	0.076495	-0.46415	0.077908	-0.30439	0.693318	0.000579	0.694515	0.019856
ZNF101	-0.15351	-0.02458	-0.03602	0.497092	0.254245	0.857311	0.790247	8.37E-05	0.165982	0.194832	-0.0061	0.222321	0.864863	0.902775	0.484148	0.93123
LPXN	-0.06304	-0.14004	0.054024	0.545055	0.641339	0.30328	0.689801	1.17E-05	-0.00237	-0.0083	0.078265	0.238957	0.493762	0.478179	0.695335	0.945128
SYAP1	-0.00631	0.109752	-0.12205	-0.20776	0.96286	0.420692	0.365749	0.120951	-0.29261	0.191849	-0.03579	0.123985	0.024226	0.899248	0.407712	0.794159
LENG9	-0.08604	-0.17283	0.135752	-0.14133	0.524521	0.20273	0.313997	0.294343	0.000165	-0.24731	0.143597	-0.27246	0.500435	0.048756	0.826663	0.033486
ZRANB2	0.110393	0.055757	-0.01019	0.147836	0.413648	0.683162	0.940026	0.272444	0.447642	-0.08239	0.181916	-0.01442	0.999094	0.293094	0.884151	0.462107
TMPRSS11l	0.02294	0.503096	-0.37383	0.010808	0.865502	7.75E-05	0.004177	0.936403	-0.16762	0.663677	-0.25353	0.322613	0.132753	1	0.046434	0.985617
SFXN1	-0.0358	0.45118	-0.31396	0.192276	0.793364	0.000546	0.018455	0.155697	-0.15659	0.704808	-0.31003	0.465087	0.149345	1	0.019105	0.999436
HSPB9	-0.04967	-0.07134	0.243597	-0.14973	0.716221	0.604745	0.070426	0.270709	0.107145	-0.13675	0.175863	-0.14488	0.760756	0.182404	0.87607	0.168364
PEX16	0.026292	-0.09	0.238156	-0.15785	0.84747	0.513472	0.077139	0.245278	-0.18181	-0.04874	-0.15992	-0.23872	0.11328	0.373844	0.147009	0.05505
SFXN5	-0.03538	-0.21639	0.107208	0.060553	0.793873	0.109191	0.427336	0.65455	-0.14422	0.09137	0.079771	0.081855	0.169474	0.727049	0.69878	0.705676
CD80	0.053637	-0.07242	0.183108	0.362781	0.694604	0.599268	0.176759	0.005998	0.111162	-0.07036	0.181603	0.035601	0.766378	0.323025	0.880957	0.591797
SNRNP40	0.037078	0.285415	-0.24513	0.054556	0.78422	0.032986	0.066088	0.686904	0.039713	0.477536	-0.14899	0.225107	0.603354	0.999605	0.164337	0.933724
ORMDL1	0.071599	0.207275	-0.1019	0.186343	0.596624	0.12532	0.450679	0.165174	0.204342	0.259321	0.025032	0.148456	0.913433	0.959097	0.564827	0.8376
ORMDL3	0.083379	-0.08019	0.228952	0.133092	0.53748	0.55688	0.086696	0.323662	0.042431	0.095027	0.011612	0.127941	0.610256	0.735061	0.530174	0.801599
C21orf66	-0.13662	0.312897	-0.21353	0.02206	0.310901	0.018875	0.110744	0.870616	-0.08634	0.112776	-0.33692	0.133374	0.286392	0.769619	0.012665	0.808787
TMEM203	-0.10902	0.291965	-0.17598	0.169219	0.419515	0.029006	0.190397	0.208258	-0.16083	0.482445	-0.38171	0.388783	0.142818	0.999657	0.004836	0.99621
ARHGAP29	0.26383	-0.0959	0.068448	0.279279	0.047364	0.48198	0.612916	0.035391	0.484983	0.010804	0.187841	0.176122	0.999682	0.528406	0.891706	0.879166
MED21	-0.01205	0.153531	-0.28773	0.286255	0.929125	0.258593	0.029986	0.030874	0.080288	0.337596	-0.09679	0.311949	0.702086	0.989119	0.26353	0.982592
SYTL3	-0.13846	-0.19474	0.032065	-0.21204	0.304356	0.150371	0.812826	0.113308	-0.24177	-0.28946	0.073096	-0.25317	0.05275	0.025519	0.683385	0.044791
SYTL4	-0.04639	0.377511	-0.21102	-0.18218	0.731854	0.004127	0.115098	0.17498	0.11154	0.332643	-0.07153	0.061664	0.76974	0.988051	0.320269	0.658034
SYTL5	-0.12581	0.390816	-0.14946	-0.13934	0.351063	0.002901	0.267138	0.301246	-0.29137	0.506587	-0.17264	0.287371	0.024728	0.999836	0.12838	0.973595
C9orf61	0.203675	-0.19856	0.21811	-0.04643	0.128605	0.142364	0.103122	0.731603	-0.00993	-0.06	0.168233	0.05804	0.474183	0.347699	0.862498	0.647548
ARHGAP12	-0.02119	0.213681	-0.18986	0.120277	0.875685	0.11381	0.157198	0.372823	0.03961	0.369645	-0.03537	0.195332	0.603093	0.994269	0.408776	0.903357
RP1L1	0.00071	-0.16834	0.267016	-0.24014	0.995817	0.214888	0.044656	0.071973	0.049012	-0.40791	0.167965	-0.42464	0.626826	0.002447	0.864963	0.001634
TJP2	-0.12804	0.401488	-0.27466	-0.17318	0.342517	0.002163	0.038671	0.197651	-0.17694	0.511841	-0.22839	0.26225	0.12246	0.999837	0.067965	0.959099
FADS2	0.239102	-0.27732	0.384624	0.207832	0.07325	0.038524	0.003136	0.120823	0.267644	-0.1152	0.474433	0.177404	0.963932	0.22293	0.999504	0.880897

DDX23	-0.24569	0.157483	-0.34344	0.021028	0.065445	0.246389	0.008908	0.876619	-0.33029	0.498153	-0.21977	0.242663	0.012486	0.999787	0.073451	0.94791
ABCC12	0.039587	-0.09287	0.188464	-0.28001	0.770004	0.496018	0.16033	0.034895	0.056809	-0.30567	0.207327	-0.31095	0.646168	0.019421	0.914118	0.017715
SNORD46	0.035701	-0.01363	0.224073	0.08188	0.79205	0.920571	0.093813	0.544847	0.067254	0.143708	-0.00357	-0.06848	0.669653	0.826852	0.490831	0.327445
SNORD38A	-0.02209	0.141191	0.061242	0.367169	0.871626	0.30385	0.653878	0.005376	-0.06657	0.192648	0.076301	0.165213	0.330129	0.900201	0.690816	0.863735
SNORD38B	0.056483	0.153433	0.055259	0.326228	0.67644	0.258903	0.683078	0.013265	-0.31813	0.353219	-0.11361	0.328226	0.015598	0.991978	0.22872	0.987025
CRIP1	-0.0133	0.188683	-0.11384	0.026388	0.921754	0.163718	0.399136	0.845516	0.18637	0.065035	0.158269	0.044674	0.892538	0.666187	0.850454	0.615926
CD86	-0.09236	-0.14542	0.00277	0.386952	0.498388	0.289459	0.983836	0.003218	-0.24325	-0.16094	0.177403	0.194705	0.053683	0.145452	0.875349	0.900021
CYP7B1	0.161261	0.013452	0.069131	0.446385	0.230768	0.921617	0.609365	0.000501	-0.10267	0.344736	0.005867	0.499324	0.248585	0.990517	0.515256	0.999794
HAND1	-0.03111	-0.07389	0.310455	-0.21484	0.818309	0.58837	0.018756	0.108516	0.03866	-0.41627	0.166142	-0.36028	0.600671	0.002005	0.86231	0.006956
ZNF264	-0.13989	-0.04901	-0.09027	-0.03941	0.299324	0.719829	0.504248	0.771031	-0.15874	0.099908	-0.17283	0.00707	0.146009	0.745572	0.128118	0.518597
NTN1	-0.04399	-0.08172	0.034499	-0.00745	0.745252	0.549355	0.798902	0.956109	-0.01687	0.030675	-0.15413	0.020712	0.455695	0.580187	0.15604	0.554336
OPN4	0.049504	-0.18063	0.287967	-0.18969	0.714598	0.182782	0.029842	0.157571	0.234937	-0.41221	0.276764	-0.31804	0.941985	0.002209	0.967151	0.015622
FOXQ1	-0.00863	0.130028	-0.00446	-0.05148	0.949218	0.339498	0.973728	0.703741	0.232063	0.128607	0.031032	-0.01025	0.939655	0.802836	0.580181	0.473038
GNG8	0.00053	-0.01378	0.276521	-0.14683	0.996877	0.919723	0.037322	0.275752	0.127936	-0.37487	0.119251	-0.47002	0.79885	0.005587	0.779648	0.000561
H2AFV	0.05197	0.138468	-0.23916	0.165992	0.701031	0.308801	0.073183	0.217192	0.172188	0.409589	-0.03195	0.316845	0.873744	0.997648	0.417474	0.984041
KCNK6	0.006845	0.179438	0.099027	-0.02446	0.959699	0.185744	0.463633	0.856662	0.123798	0.253784	-0.0568	-0.02574	0.793805	0.95561	0.355474	0.432575
EPST11	-0.26217	-0.17134	0.093901	0.612902	0.050944	0.211005	0.491224	5.14E-07	-0.0806	-0.07871	0.208021	0.170608	0.299339	0.303643	0.912293	0.868751
TP53INP1	-0.11059	0.004513	-0.08873	0.073509	0.41281	0.973667	0.511585	0.586837	-0.34668	0.171838	-0.02588	0.103941	0.00913	0.873253	0.432988	0.754094
CDYL	-0.25027	-0.07707	0.000544	-0.06435	0.060426	0.572376	0.996797	0.634394	-0.01731	-0.16397	0.106384	-0.20205	0.454542	0.138098	0.756642	0.089061
ECEL1	0.087409	-0.17733	0.206976	-0.32256	0.517928	0.19104	0.122396	0.014401	0.061771	-0.36867	0.083372	-0.43713	0.656562	0.006351	0.704727	0.001339
PPP1R14A	0.31343	-0.31587	0.312542	-0.03528	0.017593	0.017717	0.017933	0.794476	0.474286	-0.60365	0.386231	-0.43047	0.999566	4.48E-06	0.995611	0.001412
ABCG2	0.225931	0.048099	-0.1036	0.143264	0.09105	0.724819	0.443144	0.287714	0.1697	-0.19569	0.216082	-0.05732	0.870233	0.096222	0.923014	0.352577
TNFRSF8	0.002416	-0.18902	0.234462	-0.22358	0.985772	0.162949	0.079175	0.094557	0.244168	-0.48859	0.28904	-0.36988	0.949008	0.000285	0.972929	0.005703
CHST2	-0.07117	-0.06684	0.227498	0.145221	0.598817	0.624526	0.088772	0.281108	0.174641	-0.24179	0.277843	-0.13387	0.877142	0.052738	0.967695	0.187558
NCR2	-0.01273	-0.09008	0.221118	-0.19265	0.925102	0.509079	0.098341	0.151084	0.195206	-0.35983	0.305421	-0.32438	0.903211	0.007021	0.979335	0.013926
NCR1	0.036004	-0.2648	0.292542	-0.14756	0.790328	0.04858	0.027226	0.273341	0.190872	-0.55332	0.257827	-0.38942	0.898073	3.33E-05	0.956361	0.003736
MED23	0.076826	0.183665	-0.13625	0.176067	0.570028	0.175422	0.312225	0.190166	0.050618	0.361916	-0.10646	0.300396	0.630839	0.993273	0.243204	0.978742
TNFSF8	0.013863	-0.15661	0.120959	0.026212	0.918478	0.249049	0.3701	0.846531	-0.01217	-0.46975	0.152039	-0.46913	0.46801	0.000494	0.840622	0.000503
MED17	0.0008	0.260684	-0.26555	0.233308	0.995288	0.052321	0.045883	0.080706	-0.06115	0.417202	-0.30505	0.336824	0.343223	0.99804	0.020796	0.988958
MED26	-0.00238	-0.14624	0.187954	-0.25301	0.986139	0.286695	0.165382	0.05992	0.034302	-0.48587	0.218753	-0.3633	0.588504	0.000358	0.923155	0.007084
MED27	0.120005	0.08374	0.040281	0.085126	0.373914	0.539479	0.766089	0.528963	-0.14743	0.273877	-0.00782	0.1596	0.164101	0.967247	0.479678	0.85531
MED7	-0.05656	0.25379	-0.27989	0.098825	0.675999	0.059108	0.034972	0.464548	0.002186	0.24899	-0.0511	0.166245	0.505752	0.952407	0.369442	0.865247
QKI	0.121952	0.067814	-0.07844	0.287052	0.366154	0.61947	0.561931	0.03039	0.369282	-0.04498	0.181258	0.132375	0.994226	0.38329	0.883291	0.809749
ITM2B	0.077153	0.290654	-0.25785	0.227437	0.568382	0.029769	0.052805	0.088859	0.015724	0.498642	-0.13395	0.42965	0.541303	0.99979	0.190174	0.998558
GSTO1	0.020788	0.118316	-0.18448	0.123563	0.878015	0.385131	0.16951	0.359807	0.002095	0.322307	-0.08394	0.280026	0.505512	0.985537	0.291772	0.970276
AIM2	0.036608	-0.14254	0.028591	0.529347	0.788806	0.299214	0.834312	2.73E-05	0.105058	-0.07882	0.023949	-0.08384	0.751335	0.305515	0.56058	0.294239
MAP4K4	-0.17853	0.014446	-0.23524	-0.09777	0.183935	0.915844	0.07815	0.469362	-0.19112	-0.03989	-0.07453	-0.05597	0.101627	0.39619	0.313288	0.35589
CD33	-0.01547	-0.2421	0.117477	-0.11283	0.909043	0.072223	0.384135	0.403366	-0.10152	-0.31836	0.161923	-0.14962	0.253475	0.016532	0.853165	0.163305
LY86	-0.20421	-0.31734	-0.01444	0.297913	0.127588	0.017164	0.915107	0.024402	-0.22745	-0.21699	0.128352	-0.01441	0.064229	0.073733	0.799621	0.462135
EIF2AK3	0.027659	0.367695	-0.15466	0.142768	0.838171	0.005305	0.250663	0.289402	0.133747	0.515861	-0.15712	0.282768	0.812229	0.999878	0.151335	0.971552
ITM2A	0.379901	-0.33238	0.039281	0.167427	0.003559	0.012321	0.771732	0.213186	0.159734	-0.20399	-0.03076	0.071722	0.849834	0.092055	0.422389	0.678192
GGPS1	0.044818	0.249991	-0.10515	0.058103	0.740617	0.063142	0.436307	0.667696	-0.08432	0.398826	-0.18816	0.272149	0.288707	0.996979	0.107904	0.966354
HOMER3	-0.15724	-0.0443	0.014317	-0.01054	0.242755	0.745777	0.915817	0.937955	0.061018	-0.20193	0.157042	-0.16196	0.656465	0.089183	0.84855	0.141115
HOMER2	0.020958	0.061769	0.025601	-0.22893	0.877026	0.651093	0.850068	0.086724	0.245519	-0.19277	0.007612	-0.42861	0.949978	0.099649	0.519789	0.00148
HOMER1	-0.04694	0.302825	-0.28421	-0.01986	0.731178	0.024622	0.033763	0.884474	-0.06457	0.357762	-0.39589	0.14489	0.33674	0.992086	0.003906	0.828849
FHL5	0.266201	-0.25888	0.121935	0.189675	0.045336	0.054035	0.366221	0.157611	0.233759	-0.30858	0.143214	-0.09878	0.941038	0.018467	0.826013	0.256844
ARHGEF6	0.108421	-0.16094	0.125852	0.361749	0.422094	0.236052	0.350909	0.005693	0.161676	-0.14777	0.257742	0.18376	0.858464	0.163536	0.956307	0.889234
SIGLEC6	0.003289	-0.36224	0.060813	0.117211	0.980627	0.00608	0.653165	0.385221	-0.10075	-0.22121	0.014949	0.030643	0.252629	0.069787	0.53882	0.580103
RASAL2	-0.00335	0.358252	-0.27511	-0.21667	0.980289	0.006707	0.038342	0.105466	-0.21698	0.497091	-0.24957	0.272238	0.073743	0.99978	0.049132	0.9664
PICK1	-0.14004	-0.06813	0.050718	-0.07386	0.298826	0.617829	0.707903	0.585073	-0.23966	0.057831	-0.17228	-0.08079	0.054338	0.648677	0.128894	0.296752

HAND2	-0.00125	-0.06254	0.097235	-0.14452	0.99263	0.647031	0.471801	0.283467	0.175293	-0.32399	0.173097	-0.41678	0.878036	0.014025	0.872252	0.00198
AKAP7	0.039124	-0.04786	0.06814	0.07228	0.77262	0.726109	0.614521	0.593125	0.193892	-0.39512	0.112673	-0.19695	0.901673	0.003288	0.769414	0.094781
IL27RA	-0.02724	-0.24517	0.054613	0.250176	0.840585	0.068573	0.686589	0.060531	-0.16504	-0.06645	-0.08574	-0.02836	0.136517	0.330421	0.287739	0.425786
SH3BP5	0.301147	-0.07652	0.151954	0.157749	0.022824	0.575097	0.259161	0.241216	0.441518	-0.33173	0.256764	-0.22387	0.998936	0.012155	0.955682	0.067375
PCYT1B	-0.21663	-0.21376	-0.01708	-0.32577	0.105543	0.113665	0.899666	0.013403	-0.29777	-0.35091	0.011863	-0.2195	0.022224	0.0084	0.530825	0.071362
CHST3	0.147177	-0.055	0.201448	-0.20401	0.279056	0.690041	0.136538	0.131507	0.338468	-0.00209	0.021329	-0.10748	0.988523	0.494552	0.554653	0.241108
CD34	0.351764	-0.2672	0.187423	0.097035	0.008449	0.050791	0.170619	0.480957	0.318296	-0.16299	0.285122	0.098964	0.98445	0.139555	0.971182	0.743555
EIF4E2	-0.16796	0.455968	-0.03864	0.10606	0.211719	0.000413	0.775382	0.432329	-0.10748	0.581008	-0.23962	0.411234	0.23856	0.999989	0.05644	0.997738
AKAP6	-0.01267	-0.0935	0.107881	-0.1719	0.925487	0.493065	0.424423	0.20104	-0.03783	-0.31203	0.172758	-0.16884	0.401434	0.017383	0.871779	0.131001
C1orf38	-0.07805	-0.26326	0.073361	0.51149	0.563895	0.049954	0.587597	4.78E-05	-0.21691	-0.08394	0.053404	-0.02724	0.076185	0.291773	0.634686	0.4295
ATG5	-0.05815	0.230139	-0.22449	0.203692	0.667466	0.087943	0.093186	0.128573	-0.13547	0.479494	-0.25385	0.386827	0.184689	0.999626	0.046223	0.996042
ROCK2	0.196913	0.013461	0.006021	0.184259	0.142066	0.921566	0.964544	0.170037	0.309373	-0.08446	0.214902	0.040047	0.981788	0.288398	0.921855	0.604204
NAPSA	0.071722	-0.22739	0.282858	-0.07995	0.595992	0.091908	0.03301	0.554391	0.069226	-0.37566	0.189335	-0.24671	0.676216	0.005045	0.893556	0.04918
MED20	-0.12641	0.316328	-0.33938	-0.01684	0.348742	0.017542	0.009804	0.90107	-0.13951	0.607993	-0.2961	0.285968	0.177567	0.999996	0.024136	0.972985
CABP1	-0.02935	-0.16117	0.281247	-0.11097	0.829983	0.239795	0.035748	0.415503	0.024965	-0.37874	0.208676	-0.28151	0.565405	0.004722	0.915535	0.029027
MAPK8IP1	-0.1704	0.123749	0.000182	-0.263	0.205044	0.363525	0.99893	0.048095	-0.26202	-0.02253	-0.14378	-0.00328	0.041037	0.441595	0.175901	0.491467
CD36	0.208142	-0.14514	-0.0322	0.22268	0.120257	0.285853	0.812077	0.095927	0.305041	-0.40356	0.348351	-0.19427	0.980366	0.002709	0.990487	0.09788
ONECUT2	-0.03201	-0.06132	0.203464	-0.171	0.813144	0.653465	0.12901	0.203438	0.135757	-0.46431	0.256466	-0.39982	0.815829	0.000576	0.95549	0.002953
SLC25A27	0.26198	-0.16457	0.153246	-0.19371	0.048997	0.22549	0.255083	0.148803	0.41816	-0.37454	0.287132	-0.33069	0.998085	0.005167	0.972089	0.012394
STX8	-0.09279	0.068941	-0.29943	-0.0262	0.492394	0.61365	0.023649	0.846619	-0.2016	0.119992	-0.21252	0.061964	0.08955	0.786492	0.080521	0.658762
CHST10	0.144288	-0.30083	0.305357	0.157774	0.288705	0.025629	0.022108	0.245508	0.2956	-0.2495	0.207196	-0.06392	0.976951	0.047243	0.913979	0.336503
PIGL	-0.12069	0.259294	-0.02692	0.080232	0.371175	0.053636	0.842461	0.552998	0.020104	0.140093	0.031051	0.172079	0.55275	0.823451	0.580231	0.873591
PIGB	0.03423	0.308462	-0.27313	0.100632	0.800438	0.020724	0.039817	0.456383	7.72E-05	0.453451	-0.113	0.283466	0.500203	0.999224	0.229929	0.97187
PGS1	-0.11279	-0.03971	-0.07345	0.142149	0.403535	0.771393	0.587152	0.291519	-0.16683	0.142442	-0.23208	0.027268	0.133904	0.827499	0.062508	0.571379
SCARB1	0.325558	-0.11457	0.285983	0.072752	0.013467	0.400476	0.03104	0.590707	0.286863	-0.15234	0.278033	0.080668	0.973376	0.156082	0.96779	0.702959
PSMF1	0.044622	0.123093	-0.07918	0.348824	0.744005	0.370613	0.561848	0.008419	0.137417	0.253267	-0.02042	0.131862	0.818771	0.955273	0.447043	0.808816
KIF23	0.007761	0.298784	-0.15083	-0.2201	0.954728	0.026703	0.267158	0.103103	-0.15845	0.606376	-0.17702	0.380353	0.146455	0.999996	0.122353	0.99544
AKAP5	-0.05287	-0.15114	-0.03048	0.119097	0.696087	0.266175	0.821907	0.377566	-0.02798	-0.17934	0.209958	-0.03476	0.426768	0.116519	0.916866	0.4093
TBX4	0.359355	-0.19949	0.398011	0.140671	0.006528	0.144231	0.002383	0.301091	0.425669	-0.46556	0.377918	-0.1658	0.998407	0.000556	0.994759	0.1354
SLC4A7	0.026806	0.115816	-0.09289	0.415236	0.843099	0.395324	0.491933	0.001319	0.249708	0.030469	-0.12985	0.028185	0.952898	0.579655	0.197623	0.573752
SLC4A8	0.036107	-0.0778	0.194691	-0.19059	0.789738	0.568703	0.146711	0.15558	-0.14719	-0.22646	-0.01322	-0.22904	0.1645	0.065091	0.465663	0.062869
MYOT	0.021332	0.171055	-0.14488	0.054383	0.874847	0.207489	0.282255	0.687844	0.085057	0.083509	-0.0746	-0.04965	0.712952	0.709445	0.313122	0.371586
ACY1	-0.09782	0.105982	-0.16826	0.037528	0.469136	0.436922	0.21089	0.781667	-0.25431	0.442298	-0.32633	0.295432	0.044047	0.998957	0.014343	0.976886
SCARB2	0.286941	0.077942	0.021025	0.302242	0.030457	0.568014	0.876637	0.02231	0.195753	0.293168	0.039561	0.322688	0.903845	0.975998	0.601802	0.985637
MAGED1	0.039933	0.240648	-0.03028	-0.11531	0.768048	0.074005	0.823076	0.393033	-0.24927	0.389189	-0.16574	0.289569	0.047403	0.996244	0.138284	0.974528
RPH3AL	-0.04722	-0.00279	0.149332	-0.1742	0.727266	0.983699	0.267565	0.194974	-0.19717	0.027271	-0.06225	0.030525	0.09452	0.571387	0.342287	0.5798
PAGE4	0.093627	-0.02214	0.175816	-0.24822	0.488478	0.871306	0.190809	0.062632	-0.00199	-0.35841	0.051156	-0.35458	0.494763	0.007225	0.630707	0.007807
ADAMTS4	0.188559	-0.1536	0.25454	0.120026	0.160115	0.258372	0.056035	0.373829	0.102643	-0.20734	0.177494	-0.0728	0.751366	0.08339	0.878283	0.315326
ADAMTS3	0.006987	-0.16639	0.006378	-0.17833	0.959237	0.2247	0.962792	0.188516	0.079377	-0.06701	0.036869	-0.03378	0.699991	0.329066	0.595008	0.411832
ADAMTS2	0.138857	-0.18694	0.315294	0.083694	0.302953	0.167712	0.016896	0.535937	0.359392	-0.33452	0.303067	-0.20007	0.992917	0.011534	0.978499	0.091241
CD37	-0.07013	-0.44812	0.07806	0.486228	0.607509	0.000602	0.567425	0.000145	-0.09546	-0.39433	-0.03814	-0.1693	0.266397	0.003677	0.402915	0.133117
ADAMTS1	0.32351	-0.04965	0.263029	0.315767	0.015984	0.721452	0.052357	0.018853	0.298301	-0.33527	0.140427	-0.13376	0.977974	0.011372	0.821233	0.187745
PMPCB	-0.05369	0.263343	-0.33656	0.16992	0.691627	0.04988	0.010472	0.206352	-0.06843	0.492122	-0.20908	0.293446	0.325682	0.999743	0.084047	0.976108
FXR2	0.077071	0.039371	-0.05747	-0.05004	0.568791	0.773274	0.671092	0.711644	-0.09927	0.400649	-0.1012	0.077131	0.255785	0.997103	0.254159	0.694797
GAL3ST1	0.009669	-0.16213	0.222565	-0.28728	0.94309	0.232552	0.096104	0.030255	0.05337	-0.43115	0.135482	-0.2899	0.637679	0.001389	0.812559	0.025332
STXBPSL	0.214983	-0.0999	0.159247	-0.19007	0.111572	0.468048	0.241071	0.16058	0.184801	-0.45878	0.086278	-0.39403	0.89056	0.000671	0.713466	0.003369
LITAF	-0.12103	0.095612	-0.22433	0.388521	0.374244	0.487441	0.096494	0.003086	0.076914	0.023693	0.119312	-0.00911	0.694291	0.562098	0.782493	0.476035
SPTLC2	-0.03676	0.045759	-0.22104	0.185304	0.786049	0.737716	0.098469	0.167585	-0.11787	0.323072	0.023606	0.30371	0.220318	0.984793	0.560446	0.97873
GDF15	0.091102	0.136634	0.031271	-0.20728	0.504285	0.319878	0.819031	0.125308	-0.09399	0.366902	-0.07075	0.278071	0.269572	0.993415	0.324071	0.967809
TBPL1	-0.08184	0.099868	-0.25444	0.030398	0.545041	0.463971	0.056133	0.822393	-0.0647	0.04097	0.050662	0.231393	0.334629	0.60655	0.629488	0.939102

CD38	-0.18646	-0.25468	-0.00402	0.106303	0.164905	0.058192	0.976342	0.431268	-0.1188	-0.05621	0.073137	0.074335	0.215837	0.355317	0.68348	0.688275
NPEPPS	-0.0141	0.278091	-0.32721	-0.0029	0.91708	0.037965	0.012975	0.982894	-0.0413	0.355641	-0.1356	0.190984	0.392607	0.992358	0.187235	0.898209
EEF1E1	-0.04121	0.196578	-0.21973	0.122094	0.76083	0.146478	0.100527	0.365593	-0.09958	0.28681	-0.19644	0.188977	0.255132	0.973352	0.097947	0.895768
SCAMP1	0.061918	0.184341	-0.19503	-0.06697	0.647274	0.173811	0.14599	0.620649	0.074453	0.173665	0.005814	0.057391	0.688553	0.875799	0.515117	0.647598
GPSN2	-0.09158	0.211352	-0.13854	-0.12287	0.502047	0.121387	0.308548	0.36696	-0.15134	0.51207	-0.22997	0.280215	0.160508	0.999838	0.066584	0.968866
VPS4B	-0.13323	0.342601	-0.34955	0.111939	0.32762	0.010454	0.008274	0.411437	-0.1844	0.592636	-0.24738	0.355138	0.10995	0.999993	0.050676	0.99228
MPDU1	-0.132	0.214221	-0.22098	0.089945	0.332155	0.116298	0.101695	0.509741	-0.30101	0.516623	-0.30332	0.344405	0.021037	0.999881	0.021411	0.990456
GOSR1	-0.03364	0.326683	-0.19508	0.127045	0.803814	0.013996	0.14589	0.346323	0.006973	0.466138	-0.17574	0.318998	0.518343	0.999453	0.124104	0.984645
TMEM59	0.008055	0.179068	-0.20332	0.097242	0.952582	0.186669	0.129282	0.471767	-0.11257	0.270317	-0.1627	0.14159	0.228185	0.965385	0.1428	0.826038
BAG5	-0.13489	0.489189	-0.28585	0.079376	0.317125	0.00013	0.031121	0.557251	0.05032	0.367703	-0.12148	0.160799	0.630095	0.994032	0.213321	0.857136
ENTPD1	0.238409	-0.14583	0.114642	0.443764	0.074112	0.283546	0.395795	0.000545	0.353623	-0.15504	0.285756	0.053404	0.992042	0.151776	0.971471	0.637763
BAG4	0.023709	0.211832	-0.10265	0.078198	0.861032	0.117045	0.447363	0.563136	-0.18199	0.500817	-0.33507	0.242149	0.115746	0.999771	0.013097	0.945491
BAG3	0.088422	0.259328	0.043308	-0.05132	0.51696	0.055889	0.751299	0.707177	0.085873	0.535203	-0.11834	0.339025	0.714792	0.999937	0.21939	0.989412
BAG2	0.170393	-0.14456	0.031584	0.142788	0.209279	0.292336	0.817252	0.2938	0.285045	-0.36892	0.233933	-0.30268	0.972578	0.005819	0.939027	0.020445
POLR1C	-0.27822	0.325843	-0.29205	0.043099	0.036121	0.014259	0.027497	0.750236	-0.37869	0.502695	-0.31114	0.314409	0.004727	0.999815	0.018745	0.983333
ZNF254	-0.03739	0.221962	-0.15077	-0.13375	0.782463	0.100149	0.262923	0.321254	0.035991	0.075086	-0.02702	0.118018	0.593852	0.690033	0.430061	0.782641
GMFG	-0.0727	-0.43986	0.019947	0.495733	0.590972	0.000694	0.882918	8.82E-05	-0.08158	-0.39791	0.068321	-0.08736	0.294954	0.003085	0.672178	0.281878
PTGES	-0.04199	0.007514	0.002167	0.179521	0.758637	0.956578	0.987354	0.185536	-0.20243	0.550561	-0.12603	0.371314	0.091167	0.999955	0.207479	0.993985
TP53I11	0.101955	0.223184	0.083034	-0.1262	0.450452	0.098246	0.53917	0.349553	-0.08256	0.355539	0.083702	0.071057	0.292721	0.992342	0.707692	0.680558
EI24	-0.14492	0.422098	-0.24156	0.256213	0.291119	0.001477	0.075613	0.059008	-0.20279	0.746718	-0.38925	0.552683	0.088247	1	0.004111	0.999966
ENTPD2	-0.13557	-0.14117	0.198562	-0.12781	0.314658	0.29935	0.13869	0.34339	0.194128	-0.3157	0.229483	-0.27477	0.90195	0.016288	0.935293	0.032297
TP53I3	-0.08921	0.264089	-0.28867	0.089993	0.509303	0.049211	0.029426	0.505584	-0.12288	0.67467	-0.25707	0.279636	0.207943	1	0.044123	0.970091
CIR	-0.03647	0.018079	-0.0139	-0.15846	0.787683	0.894784	0.918257	0.239089	-0.15562	-0.0467	0.16533	-0.1057	0.150868	0.378967	0.861116	0.242229
NRG2	0.017404	-0.2353	0.144452	-0.05933	0.897759	0.080866	0.283694	0.661125	-0.00833	-0.11594	0.078705	0.012035	0.47809	0.221456	0.696343	0.531635
IGDCC3	-0.04433	0.025239	0.134315	-0.17871	0.743365	0.853512	0.319194	0.1835	0.108737	-0.29465	0.179534	-0.21993	0.764032	0.023418	0.881016	0.070966
RAB3D	0.065924	0.067181	0.121871	-0.04309	0.626101	0.622752	0.366474	0.75026	0.027609	0.262411	-0.17553	-0.01508	0.572261	0.960948	0.124386	0.460383
APBA3	-0.13833	-0.07869	0.072091	0.061182	0.304818	0.564299	0.594096	0.651196	0.03159	-0.02425	0.026903	-0.02764	0.582545	0.436458	0.569627	0.42765
CXCL14	0.279322	-0.0196	0.079749	0.321913	0.037087	0.887057	0.559046	0.015545	0.125968	0.434811	0.147711	0.454899	0.795181	0.998581	0.830681	0.999154
ENTPD6	-0.06818	-0.08791	0.092805	0.112702	0.617556	0.52333	0.496317	0.408234	0.196366	0.150343	-0.02688	-0.04448	0.904554	0.84069	0.430436	0.38457
ATP6V1G1	-0.07154	0.021609	-0.11895	0.183627	0.596941	0.874398	0.37816	0.171532	-0.34837	0.337322	-0.32058	0.167275	0.008831	0.989062	0.015895	0.866747
ATP5J2	-0.02315	0.154741	-0.08843	-0.10367	0.865538	0.259304	0.516917	0.447046	-0.30178	0.474957	-0.40622	0.229196	0.020764	0.999574	0.002813	0.937261
SPAG7	0.009287	-0.14775	0.065261	-0.43754	0.945339	0.277179	0.629587	0.000665	-0.3629	-0.04099	-0.16843	-0.11777	0.006593	0.393406	0.134362	0.217843
MRPL33	-0.05881	-0.284	0.016437	-0.1287	0.666804	0.033905	0.904298	0.344501	0.09391	-0.3004	-0.0775	-0.0531	0.732625	0.021255	0.306414	0.362984
SEC22B	0.039303	0.209517	-0.05651	0.110704	0.771612	0.121195	0.676295	0.412329	0.260239	0.105295	0.024606	0.080219	0.959654	0.75692	0.563734	0.701927
H2AFY	-0.16832	0.413674	-0.34692	0.040852	0.210724	0.001529	0.008198	0.762866	-0.26614	0.683448	-0.29219	0.460686	0.036906	1	0.025729	0.999363
C14orf2	-0.09534	0.012567	-0.18472	0.177827	0.48868	0.928137	0.176989	0.193982	-0.19151	0.462515	-0.48856	0.316835	0.101155	0.999394	0.000331	0.984038
CHD1L	-0.3078	0.133607	-0.27015	-0.04825	0.019846	0.326256	0.042118	0.721531	-0.40097	0.326632	-0.35693	0.248949	0.002876	0.986638	0.008046	0.952379
VPS26A	-0.00477	0.335569	-0.34183	0.164474	0.971899	0.011461	0.009255	0.221485	0.017191	0.481033	-0.1036	0.325219	0.54514	0.999643	0.249119	0.986286
ENTPD3	0.006646	0.323434	-0.14176	-0.00061	0.960869	0.015036	0.29285	0.996408	-0.18248	0.46448	-0.20448	0.215459	0.112415	0.999427	0.088926	0.92479
MINPP1	-0.01328	0.276972	-0.23771	0.104069	0.921895	0.038777	0.074988	0.441066	-0.04326	0.279377	-0.1387	0.236353	0.387648	0.969967	0.181765	0.943107
H6PD	-0.03207	0.027222	0.081412	0.169141	0.812804	0.842142	0.547155	0.20847	-0.00279	0.220511	-0.14299	0.161264	0.492651	0.929573	0.174365	0.857842
BCAR1	-0.02783	-0.10572	0.03213	0.061668	0.837181	0.438058	0.812454	0.648604	0.032898	0.133123	-0.12916	0.035457	0.585914	0.811103	0.19888	0.592482
GTPBP1	-0.07253	-0.21992	0.115414	0.048832	0.591854	0.103391	0.392598	0.718308	-0.10772	0.005418	-0.11387	0.015006	0.238059	0.514253	0.228205	0.539423
GABBR2	-0.02471	-0.32128	0.27962	-0.10486	0.855233	0.015759	0.035158	0.437592	0.017282	-0.43225	0.101386	-0.27953	0.545378	0.00135	0.746236	0.029958
TSGA14	-0.21034	-0.11743	-0.09624	-0.248	0.116302	0.388722	0.476372	0.062884	-0.30878	-0.14664	-0.02375	0.003188	0.018401	0.165407	0.438456	0.508387
GTF2IRD1	-0.1278	0.202049	-0.14386	-0.31371	0.343441	0.135347	0.285677	0.017487	-0.29822	0.405908	-0.28641	0.182391	0.022055	0.997436	0.028233	0.887474
ENTPD5	-0.09536	0.393891	-0.19618	-0.19565	0.480416	0.002668	0.143592	0.144689	-0.13463	0.254169	-0.03082	0.149406	0.186184	0.955859	0.420353	0.839159
GOSR2	0.142632	0.135554	-0.0265	0.335435	0.289865	0.319192	0.844858	0.010749	0.213526	0.105732	-0.12381	0.088181	0.922899	0.757829	0.208889	0.71997
NR1D1	-0.02008	-0.05812	0.038662	0.012737	0.882164	0.670494	0.775235	0.925082	0.079717	-0.09596	0.08478	-0.14645	0.700774	0.262924	0.710113	0.165726
GDF3	-0.09619	-0.25633	0.1345	-0.14343	0.4766	0.056531	0.318522	0.287134	-0.04271	-0.23531	0.213682	-0.27082	0.389048	0.057715	0.920645	0.034348

CLOCK	-0.0203	0.359888	-0.28007	0.039675	0.88085	0.006443	0.034855	0.769506	0.023171	0.532611	-0.13136	0.347862	0.560742	0.999931	0.194861	0.991079
SPAG6	-0.04609	-0.18133	0.055579	-0.15417	0.733523	0.181067	0.681343	0.252206	-0.12219	-0.27524	0.152766	-0.19444	0.209262	0.032061	0.84179	0.097681
BRE	0.018164	0.321386	-0.15461	0.013085	0.893315	0.015725	0.250828	0.923038	0.019385	0.381177	-0.05043	0.272821	0.550873	0.995521	0.371089	0.966704
CDC42BPB	-0.08571	0.299204	-0.11672	0.036094	0.529946	0.02648	0.391611	0.791705	-0.06585	0.404713	-0.20239	0.203285	0.331864	0.997363	0.091218	0.912292
CD40	0.124782	-0.356	0.242028	0.467305	0.355051	0.007086	0.069699	0.000248	-0.10289	0.113067	0.020607	0.416746	0.250611	0.770202	0.552812	0.997799
SOX13	-0.0034	-0.1042	0.057275	-0.30372	0.979974	0.444716	0.672159	0.021631	0.082152	0.132839	0.129599	-0.03786	0.706354	0.810589	0.80192	0.401367
PREPL	0.050257	0.070118	-0.04425	-0.0191	0.710445	0.607593	0.743776	0.887833	0.140195	0.009363	0.079728	0.059964	0.823629	0.524621	0.698681	0.653897
APOBEC3B	0.252139	0.170982	0.2069	-0.09503	0.063298	0.216391	0.129616	0.490113	-0.23564	0.481326	-0.24574	0.286463	0.059587	0.999592	0.053926	0.97179
ENTPD4	-0.0483	0.445625	-0.0964	0.360949	0.721226	0.000578	0.475647	0.005809	0.117146	0.487398	-0.15067	0.301592	0.780928	0.999704	0.16159	0.97917
RBM39	0.050371	0.195743	-0.20819	0.227314	0.709817	0.148234	0.120175	0.089036	0.162374	0.273868	-0.0939	0.220595	0.859515	0.967243	0.269768	0.92965
KIF20B	0.119339	0.131907	-0.21518	0.175865	0.381004	0.337065	0.111244	0.194803	-0.08348	0.59874	-0.16449	0.365352	0.290621	0.999994	0.140126	0.993733
CREB5	0.033909	-0.21458	0.060287	-0.0588	0.802272	0.112267	0.655973	0.663944	0.244883	-0.59892	0.185418	-0.54574	0.949523	5.48E-06	0.888659	4.38E-05
MAD2L1BP	-0.11808	0.215261	-0.20469	0.238384	0.381663	0.111098	0.126675	0.074143	-0.22062	0.457887	-0.36556	0.161521	0.070331	0.999312	0.006767	0.858229
PRDX6	0.120249	-0.06599	-0.14188	0.168587	0.377359	0.632152	0.29692	0.214219	-0.02837	0.035663	-0.0642	0.043543	0.425762	0.593012	0.337618	0.61307
WTAP	0.090725	0.223909	-0.17139	0.243067	0.50211	0.097131	0.2024	0.068472	0.154919	0.282669	-0.20056	0.142925	0.848029	0.971507	0.093248	0.828324
CD40LG	-0.02607	-0.14559	-0.0004	0.250252	0.847358	0.284322	0.997657	0.06045	0.066884	-0.22496	0.143947	-0.02049	0.670626	0.066402	0.827256	0.446248
AKAP12	0.282684	-0.11295	0.087642	0.329242	0.033122	0.407184	0.51681	0.012391	0.304534	-0.18342	0.319413	0.065205	0.980194	0.111196	0.983773	0.666595
IER2	0.218727	-0.14681	0.036638	0.015247	0.102127	0.280256	0.786717	0.91037	0.160344	0.119108	-0.02067	0.097658	0.856445	0.784773	0.446388	0.740751
CYTIP	0.061885	-0.20258	0.018222	0.60746	0.64745	0.134304	0.892981	5.43E-07	-0.1941	-0.08427	0.008352	0.093178	0.098078	0.288838	0.521712	0.731024
SMAD5OS	-0.24403	-0.0462	-0.05655	-0.18465	0.069914	0.73769	0.678902	0.173081	0.086335	-0.35184	0.064833	-0.25583	0.713592	0.008891	0.662068	0.044924
CD44	0.004873	0.422937	-0.19839	0.241462	0.971568	0.001296	0.142709	0.073002	-0.02792	0.740634	-0.19906	0.516527	0.426929	1	0.094944	0.999881
PITPNM1	-0.17531	-0.10382	-0.08128	-0.2749	0.192121	0.4464	0.547792	0.038497	-0.30215	0.001253	-0.07059	-0.04759	0.020634	0.503298	0.32248	0.376734
PDIA4	-0.10225	0.102756	0.030215	0.163666	0.44912	0.451084	0.823448	0.223796	-0.35862	0.448502	-0.23255	0.377616	0.007196	0.999114	0.062117	0.995162
NFE2L3	-0.06571	0.264374	-0.22083	0.359998	0.627229	0.048958	0.098792	0.005949	-0.09562	0.399339	-0.14833	0.442709	0.263651	0.997014	0.165428	0.998968
RNF14	0.026253	0.226087	-0.15738	0.162307	0.846297	0.093838	0.242323	0.227716	0.058269	0.176986	-0.02132	0.134329	0.649751	0.880335	0.444715	0.813276
C16orf7	-0.11518	0.006345	0.069719	-0.06865	0.393572	0.962985	0.606322	0.611845	-0.05259	0.045976	-0.06811	-0.02912	0.364255	0.619209	0.328322	0.42382
CARTPT	-0.055	-0.1305	0.156514	-0.14509	0.687213	0.34229	0.249343	0.28602	0.158152	-0.41859	0.184931	-0.41493	0.853083	0.001895	0.888039	0.00207
RAB36	-0.18727	-0.17258	0.046259	-0.25669	0.163032	0.203394	0.732582	0.053922	-0.27052	-0.28411	0.008482	-0.17149	0.034505	0.02784	0.52205	0.127237
CD47	0.031994	0.033687	-0.06821	0.412462	0.813233	0.805315	0.614159	0.001431	0.219387	0.105964	0.021726	0.219814	0.92619	0.755776	0.555664	0.926593
RIN1	-0.08937	0.125666	0.010176	-0.05373	0.508554	0.356083	0.940117	0.691397	0.076726	0.182042	0.029761	0.086755	0.693855	0.887022	0.576938	0.716775
NCOR1	0.02596	0.274785	-0.16806	0.026959	0.84799	0.040408	0.211445	0.842216	0.115362	0.24636	-0.09565	0.131925	0.7774	0.950576	0.265981	0.80893
NCOR2	0.089216	-0.13449	0.159218	-0.05795	0.509279	0.323031	0.236809	0.668501	0.227565	-0.122	0.254725	-0.21952	0.933632	0.212327	0.952408	0.073689
GDA	-0.26641	0.018177	-0.21118	0.02995	0.045165	0.894221	0.114827	0.82497	-0.30853	0.106466	-0.2378	-0.08793	0.018484	0.759353	0.05786	0.280594
RNF7	-0.11414	0.301392	-0.31911	0.019404	0.397863	0.023989	0.015543	0.886081	-0.22343	0.304244	-0.49251	0.257316	0.070055	0.978921	0.000342	0.956035
MTRF1	-0.10859	0.232146	-0.30082	-0.03682	0.421354	0.085134	0.02298	0.785693	-0.12395	0.236945	-0.17263	0.195037	0.205908	0.943572	0.128404	0.903014
TRAF4	-0.20587	-0.11214	0.005989	-0.13462	0.124457	0.410578	0.964732	0.318072	-0.28937	0.110862	-0.29602	-0.02167	0.025555	0.768365	0.024171	0.443171
ABCG1	0.095389	-0.1437	0.047306	-0.0269	0.48435	0.295252	0.729179	0.843972	-0.05141	0.368915	-0.06598	0.271172	0.367176	0.994181	0.333373	0.96584
CD48	-0.06391	-0.2006	-0.08442	0.580534	0.636699	0.138226	0.532391	2.20E-06	-0.15104	-0.09362	-0.12217	0.121524	0.158175	0.268018	0.212013	0.789451
CELSR1	-0.17454	0.07779	-0.09887	-0.14173	0.194091	0.568772	0.464357	0.292966	-0.35072	0.223146	-0.1767	0.115567	0.008432	0.931975	0.122791	0.777808
KLK4	0.044751	-0.23502	0.200055	-0.13488	0.740991	0.081232	0.135685	0.317134	0.142644	-0.25947	0.174139	-0.30069	0.825042	0.042607	0.87087	0.022372
TCL1B	-0.03766	-0.12733	0.25945	-0.15576	0.780892	0.349694	0.051305	0.247289	0.000466	-0.3692	0.185024	-0.29996	0.501227	0.005785	0.888158	0.021416
AATK	-0.02166	-0.17103	0.22009	-0.17568	0.87292	0.207556	0.099956	0.191167	0.121946	-0.52918	0.307249	-0.45181	0.790263	7.81E-05	0.979966	0.000811
GUCA1C	0.002817	-0.14528	0.05151	-0.33038	0.983559	0.289921	0.70616	0.012887	-0.06268	-0.44809	-0.11142	-0.40933	0.339493	0.000896	0.2331	0.002366
SNCAIP	-0.13478	-0.10538	0.023162	-0.16316	0.317492	0.439558	0.864211	0.225237	-0.25988	-0.23493	-0.04805	-0.13913	0.040562	0.058021	0.376977	0.17823
RGS6	0.001247	-0.17436	0.168755	-0.06868	0.992652	0.198723	0.209526	0.611724	0.057459	-0.42957	0.266077	-0.38082	0.647766	0.001445	0.961359	0.004515
CLCA3P	-0.0107	-0.0738	-0.02325	-0.23193	0.937041	0.588839	0.86371	0.082562	-0.07678	-0.19126	-0.05233	-0.20695	0.308068	0.104093	0.367935	0.086283
CD53	-0.04198	-0.33271	-0.01958	0.555242	0.756501	0.012229	0.88504	7.37E-06	-0.24591	-0.15528	0.029997	0.120327	0.049747	0.151393	0.577541	0.78714
GNA14	-0.1981	-0.1369	0.049173	-0.07503	0.139623	0.314378	0.716426	0.579105	-0.33122	-0.08153	0.045889	0.057818	0.012272	0.295076	0.617656	0.648646
NUP155	0.042449	0.300399	-0.35668	0.190416	0.753881	0.02448	0.006461	0.155965	-0.09342	0.565276	-0.22441	0.496884	0.26844	0.999979	0.069172	0.999778
SEC24C	0.025511	0.287401	-0.17332	0.335092	0.853324	0.035099	0.205702	0.012391	-0.02304	0.561059	-0.17595	0.367949	0.43959	0.999975	0.123814	0.994062

MTL5	-0.07436	-0.171	0.053451	-0.23597	0.585973	0.211929	0.695612	0.079969	-0.08631	-0.35626	0.219779	-0.22602	0.284233	0.007547	0.92656	0.065478
CLCA2	0.194312	0.349017	-0.2452	0.022535	0.155158	0.009012	0.071174	0.870275	-0.07712	0.489579	-0.25687	0.328964	0.307295	0.999679	0.046166	0.986325
ISG15	-0.16584	-0.25994	0.139887	-0.12946	0.221879	0.055291	0.303821	0.341635	0.022401	-0.15165	0.094035	-0.11486	0.558063	0.160012	0.728123	0.226226
FEZ2	-0.12306	0.179533	-0.14076	0.250585	0.361769	0.185506	0.296323	0.060097	-0.05816	0.146375	-0.15945	0.192134	0.350518	0.834147	0.147728	0.899588
FEZ1	0.272034	-0.19705	0.224133	0.285427	0.040649	0.145483	0.093724	0.031384	0.267115	-0.25093	0.231362	-0.04049	0.963639	0.046275	0.93689	0.394676
ARHGEF10	0.282828	-0.1982	0.177785	0.272205	0.033029	0.143116	0.18581	0.040518	0.38729	-0.14451	0.231223	-0.03697	0.996083	0.168979	0.936773	0.40364
ZNF592	-0.16546	-0.03024	-0.06083	0.116176	0.21868	0.824876	0.65309	0.389458	-0.00804	0.059974	-0.13267	-0.03117	0.478852	0.653921	0.192486	0.418527
IKBKE	-0.21155	0.109867	-0.0468	0.273093	0.114172	0.420203	0.729584	0.039843	-0.20785	0.49806	-0.22292	0.26317	0.082858	0.999786	0.070525	0.961392
MORF4L2	-0.07591	0.083043	-0.19975	-0.07535	0.574637	0.542875	0.136288	0.577481	-0.02076	0.157229	-0.08538	0.111536	0.445545	0.851651	0.288543	0.769732
SH3PXD2A	-0.05957	0.40653	-0.19334	-0.18203	0.659831	0.001877	0.149585	0.17535	-0.06937	0.587915	-0.26513	0.257919	0.323439	0.999991	0.039193	0.958235
MICAL2	-0.28244	-0.04015	-0.0745	0.357137	0.033281	0.768906	0.581816	0.006388	0.024969	-0.30223	0.045492	-0.17519	0.565414	0.020604	0.616667	0.122105
FNIP1	0.116198	0.062223	-0.09771	0.215583	0.38937	0.648694	0.469623	0.107276	0.199729	0.011221	-0.03725	0.020829	0.905815	0.52916	0.405136	0.554014
CTR9	0.050285	0.275202	-0.26697	0.089113	0.710292	0.040092	0.044695	0.509769	-0.09585	0.438805	-0.07055	0.35189	0.26316	0.998858	0.322571	0.991762
PPM1F	0.075526	-0.28581	0.091125	0.135973	0.576589	0.032734	0.500223	0.313204	0.023588	-0.19877	0.014515	-0.10702	0.561826	0.092709	0.537697	0.239507
GCC2	-0.10772	0.076904	-0.13797	-0.08271	0.4251	0.573195	0.306074	0.540776	-0.0469	-0.06585	0.110986	0.019896	0.378459	0.331858	0.766024	0.552207
RALGPS1	-0.3163	0.216064	-0.0625	-0.24134	0.017552	0.113115	0.647254	0.073149	-0.27051	-0.06835	-0.01345	-0.0967	0.036151	0.327758	0.465472	0.263719
CD58	-0.10277	0.396262	-0.37499	0.2316	0.446826	0.0025	0.004052	0.083014	-0.05983	0.514087	-0.20681	0.348059	0.346423	0.999871	0.086431	0.991114
MTFR1	-0.01705	0.34215	-0.2325	0.047162	0.899822	0.009849	0.081788	0.72756	-0.06295	0.510505	-0.25337	0.296824	0.338851	0.999855	0.04654	0.977419
PLCH2	0.023611	0.025285	0.149288	-0.17422	0.861603	0.853248	0.26771	0.194935	0.021695	0.16508	0.130062	0.062315	0.556245	0.860748	0.79996	0.657868
TTC37	0.055711	0.2985	-0.21287	0.101901	0.680626	0.025443	0.111883	0.450693	0.116214	0.285758	-0.02496	0.261763	0.77909	0.972893	0.435349	0.960566
HS2ST1	0.08685	0.139195	-0.18319	0.143309	0.520617	0.306241	0.172572	0.287561	-0.01374	0.292099	0.03756	0.286574	0.463906	0.975568	0.596754	0.97325
TTLL4	-0.38898	0.1405	-0.27412	-0.16428	0.003048	0.306246	0.040914	0.226314	-0.38456	0.051474	-0.22986	-0.07259	0.00416	0.63297	0.064383	0.315821
SOCS5	0.055218	0.088324	-0.00239	0.138378	0.683301	0.517428	0.98593	0.304638	0.1889	-0.11993	0.146282	-0.00435	0.895674	0.213625	0.831181	0.488552
MDC1	0.181427	-0.34977	0.170723	0.092538	0.176811	0.008231	0.204184	0.493573	0.051101	-0.15572	0.037805	-0.10997	0.630571	0.153523	0.596244	0.236031
IQCB1	-0.12553	0.140933	-0.10434	0.060045	0.352143	0.300183	0.439872	0.657266	-0.33033	0.219531	-0.10946	0.162135	0.012478	0.928663	0.237063	0.859155
ZNF516	-0.19706	-0.01944	-0.11825	-0.1773	0.141756	0.886931	0.38101	0.187044	-0.29356	0.122933	-0.19249	-0.04986	0.023848	0.792155	0.102613	0.371042
PDE4DIP	0.255282	-0.45262	0.32575	-0.33718	0.059967	0.00059	0.015227	0.011823	0.290726	-0.65039	0.332126	-0.61581	0.973655	6.63E-07	0.986188	3.36E-06
TBC1D27	0.129317	-0.1506	0.194866	0.02991	0.337698	0.26789	0.14634	0.8252	0.225041	-0.35023	0.257393	-0.15046	0.933666	0.008513	0.956084	0.159117
CD59	-0.11555	-0.16207	-0.06997	-0.00442	0.392051	0.232718	0.605045	0.973976	-0.21744	-0.07714	-0.07822	-0.00482	0.073306	0.305188	0.304766	0.487312
CEP135	-0.10458	0.076233	-0.10745	-0.04006	0.438807	0.576557	0.426301	0.767357	-0.22427	0.059495	0.036527	0.122593	0.067017	0.652752	0.594142	0.791505
LPIN2	-0.00056	-0.19398	0.113379	-0.0435	0.996708	0.151993	0.401054	0.748	-0.00722	-0.49303	0.295829	-0.26534	0.481018	0.00025	0.975755	0.037357
KIAA0430	0.084876	0.096378	-0.09927	0.074686	0.530176	0.479811	0.46255	0.58085	0.156554	0.018396	0.055272	0.013111	0.850599	0.54829	0.640808	0.534458
DZIP3	-0.06498	-0.05295	-0.02459	-0.14138	0.631089	0.698352	0.855918	0.294174	-0.17827	-0.16027	0.108498	-0.03918	0.117939	0.143668	0.760975	0.398002
SAFB2	0.001115	-0.11007	0.051161	0.129815	0.993435	0.419331	0.705471	0.335825	0.037898	0.025009	-0.03616	-0.07321	0.598727	0.565519	0.406789	0.314371
ZNF432	-0.17546	0.110977	-0.22651	0.129249	0.191715	0.415494	0.090208	0.337952	-0.07317	0.006858	-0.13017	0.091429	0.314466	0.518041	0.197041	0.727179
EIF5B	0.075519	0.226435	-0.17839	0.079921	0.576623	0.09332	0.184289	0.554541	0.098979	0.232491	-0.03013	0.216158	0.743586	0.940006	0.422111	0.925466
CD63	0.153779	0.095308	0.06506	0.167707	0.253417	0.484723	0.630647	0.21241	-0.13786	0.492323	-0.22119	0.384453	0.180457	0.999745	0.072121	0.99583
IPO13	-0.16653	0.100811	-0.1816	-0.03415	0.215675	0.459741	0.176401	0.800923	-0.40994	0.466701	-0.35194	0.313217	0.002332	0.999461	0.008873	0.982977
WSCD2	0.220153	-0.13733	0.248888	-0.06077	0.103019	0.317393	0.064354	0.656387	0.376487	-0.37113	0.257491	-0.3276	0.994599	0.006039	0.954239	0.014017
SDC3	0.077313	-0.1002	0.13255	0.292333	0.57115	0.466677	0.330131	0.028795	0.247683	0.133381	0.11667	0.051327	0.949542	0.808799	0.774637	0.63113
SLC25A44	-0.02673	0.375227	-0.19483	0.020162	0.843523	0.004378	0.146425	0.881662	0.000741	0.412979	0.100523	0.058392	0.501949	0.997831	0.744416	0.650054
KIAA0040	0.099185	-0.16282	0.038415	0.214964	0.462916	0.230537	0.776635	0.108314	0.341046	-0.39972	0.290007	-0.25545	0.989815	0.00296	0.973347	0.043319
KIAA0406	-0.00512	0.205065	-0.08599	-0.04989	0.970104	0.133128	0.528623	0.714987	-0.18246	0.160639	-0.21473	0.090097	0.115141	0.854091	0.080793	0.721928
TGS1	-0.02731	0.264487	-0.37753	0.144577	0.840188	0.048858	0.00379	0.28327	-0.05859	0.581265	-0.24982	0.418286	0.349465	0.999989	0.048958	0.998091
HISPPD2A	-0.22541	0.108096	-0.01926	0.085309	0.094859	0.432131	0.887946	0.531884	-0.23671	0.441434	-0.36488	0.298026	0.056611	0.998933	0.006861	0.977872
PHF14	0.093798	0.156663	-0.14962	0.119451	0.48768	0.248887	0.266644	0.376141	0.128663	0.238729	-0.00488	0.201571	0.802941	0.944954	0.487308	0.910418
FAM53B	-0.13775	-0.02343	-0.01517	0.075012	0.311329	0.86517	0.911664	0.582693	-0.12671	0.249651	-0.14758	0.142262	0.200693	0.952859	0.166665	0.827192
CD68	-0.16476	-0.0405	-0.05024	0.307753	0.220676	0.766962	0.71055	0.019868	-0.14876	0.087461	-0.04009	0.107906	0.161898	0.71836	0.396866	0.762325
DEPDC5	-0.11625	0.210496	-0.26086	0.064903	0.389171	0.119427	0.050008	0.631472	-0.08522	0.472436	-0.22895	0.405688	0.2889	0.999475	0.067467	0.997153
JMJD2A	-0.17695	0.189466	-0.17018	-0.21555	0.187928	0.161945	0.205659	0.107329	-0.45488	0.409033	-0.22792	0.225997	0.000746	0.997617	0.066056	0.934506

N4BP1	-0.09067	0.42455	-0.29586	0.019334	0.502376	0.00111	0.025449	0.886487	0.116591	0.472185	0.016266	0.283273	0.779834	0.999539	0.542229	0.971782
LRRC14	-0.04065	-0.01797	0.144597	-0.03342	0.763989	0.895424	0.283205	0.805073	0.026045	-0.00104	-0.04002	-0.08039	0.568208	0.497262	0.397049	0.297687
CLINT1	-0.10054	0.441215	-0.31687	0.002926	0.456805	0.000665	0.016324	0.982765	-0.1063	0.509786	-0.18885	0.243426	0.241002	0.999852	0.107045	0.948469
VGLL4	-0.02406	-0.07404	-0.0666	-0.13004	0.859019	0.587598	0.622553	0.334986	0.05603	0.117395	-0.0506	-0.06733	0.644252	0.781418	0.370675	0.3283
GREB1	-0.00338	-0.05674	0.245636	-0.13443	0.980068	0.677875	0.065511	0.318765	0.148784	-0.32055	0.16045	-0.37108	0.838138	0.014932	0.853803	0.005561
NUP93	0.047461	0.295336	-0.30689	0.082515	0.725901	0.027119	0.020236	0.54172	-0.34667	0.655992	-0.21994	0.474156	0.009132	1	0.073287	0.999564
BZW1	-0.05399	0.324982	-0.36254	0.123165	0.690002	0.014532	0.00558	0.361372	-0.0499	0.439432	-0.22547	0.366909	0.370964	0.998876	0.068222	0.993932
CD69	0.023558	-0.19231	0.058613	0.442629	0.861911	0.155623	0.664952	0.000565	-0.14252	0.006686	-0.0532	0.091982	0.175167	0.517385	0.365808	0.726063
UBE3C	-0.03356	0.384247	-0.28746	0.347202	0.804287	0.003459	0.030143	0.008142	0.004183	0.580414	-0.1777	0.421249	0.511006	0.999988	0.121435	0.998224
KIAA0391	-0.08948	0.334879	-0.3344	0.066982	0.508034	0.011643	0.01101	0.62056	-0.17909	0.462472	-0.25311	0.295299	0.116846	0.999394	0.046715	0.976835
RAPGEF2	0.142947	0.034611	-0.10359	0.008575	0.288791	0.800082	0.443206	0.949521	0.383084	-0.14757	-0.04052	-0.04236	0.995703	0.163873	0.39578	0.389921
TTC35	-0.052	0.011437	-0.23834	0.065243	0.700855	0.933325	0.0742	0.629679	-0.08685	0.197544	-0.06558	0.160306	0.283008	0.905905	0.33432	0.856387
EDEM1	0.061807	0.223556	-0.01389	0.476196	0.650892	0.100861	0.919048	0.000208	0.167915	0.474922	-0.0231	0.409001	0.867672	0.999574	0.440149	0.997616
CROCC	-0.15259	-0.26681	0.11121	-0.32287	0.257163	0.046831	0.410183	0.0143	-0.1232	-0.47595	0.078968	-0.45132	0.207334	0.000414	0.696944	0.000822
TRAM2	0.241757	0.014136	0.132977	0.572555	0.072643	0.918414	0.328563	4.01E-06	0.123241	0.340854	0.089361	0.391591	0.792744	0.989777	0.720306	0.99644
PUM1	-0.03132	0.293884	-0.31252	0.171186	0.817073	0.027919	0.017942	0.202942	-0.07402	0.53867	-0.19402	0.356749	0.312472	0.999944	0.100789	0.992527
RIMS2	0.032246	0.20831	-0.06077	-0.41908	0.811788	0.123403	0.653384	0.001176	0.027927	-0.11498	0.071503	-0.25509	0.573086	0.223356	0.679663	0.043546
ACYP1	-0.09464	-0.05404	-0.07551	-0.18195	0.483751	0.692413	0.576649	0.175541	-0.3396	-0.04534	-0.23854	0.027948	0.010471	0.382398	0.057279	0.573139
CD70	-0.04644	-0.16106	0.16638	-0.05057	0.73157	0.235675	0.216105	0.708711	0.096969	-0.23214	0.10503	-0.1257	0.739268	0.06028	0.753845	0.202596
ESPL1	-0.0152	0.081578	0.136991	-0.27176	0.912303	0.557589	0.318605	0.044743	0.066536	0.324114	0.077673	0.087335	0.666081	0.984078	0.691867	0.713525
SAPS2	-0.0701	-0.09101	0.011101	0.056723	0.604329	0.504704	0.934679	0.675144	-0.13045	0.148801	-0.26565	0.048038	0.193759	0.838167	0.038886	0.624388
CEP57	-0.01534	0.17793	-0.29467	0.061074	0.909822	0.189529	0.026076	0.651771	-0.01802	0.301091	0.014166	0.247405	0.452693	0.978991	0.536793	0.951309
KIAA0100	-0.21022	0.360738	-0.27546	0.243361	0.11993	0.006818	0.039902	0.070707	-0.21576	0.606136	-0.36269	0.45574	0.074914	0.999996	0.007172	0.999271
DHX34	-0.10666	-0.12198	0.095262	-0.05303	0.429724	0.370482	0.480883	0.695203	0.028447	-0.24589	-0.00305	-0.24738	0.57443	0.049759	0.492067	0.048704
ST18	-0.04952	0.232443	-0.07502	-0.32789	0.714521	0.084724	0.579144	0.012778	-0.15131	0.152801	-0.06279	0.075078	0.157745	0.844659	0.340979	0.690015
ULK2	0.045503	-0.06074	-0.08029	-0.30225	0.736795	0.656514	0.552733	0.022308	-0.06461	-0.14766	0.138523	-0.14558	0.33483	0.163724	0.817923	0.167185
PCDHGA8	0.12843	0.028419	-0.02449	-0.18215	0.341048	0.835297	0.856522	0.175062	0.155854	-0.12408	0.222172	-0.11703	0.849503	0.205655	0.92879	0.219307
HERPUD1	0.180951	-0.08263	0.098843	0.448187	0.177968	0.544906	0.464466	0.000472	0.148518	0.211704	-0.01249	0.225895	0.837702	0.921084	0.467557	0.934417
CD72	-0.21593	-0.3478	0.210717	-0.11718	0.109965	0.008626	0.119031	0.389741	-0.10063	-0.51322	0.187086	-0.34291	0.252884	0.000132	0.890763	0.009825
KIAA0355	0.388012	0.116428	0.116127	0.054419	0.003128	0.397272	0.394044	0.690378	0.300992	-0.06409	0.132347	-0.0087	0.978956	0.336087	0.806932	0.477118
KIAA0226	0.132202	0.009677	0.158645	0.46071	0.326938	0.943567	0.238521	0.000311	0.213937	0.1807	0.060667	0.211531	0.923304	0.885272	0.653903	0.92091
USP6NL	-0.19051	0.311757	-0.30385	0.104508	0.155746	0.019337	0.021574	0.439133	0.051801	0.269332	-0.02604	0.334283	0.633783	0.964855	0.432581	0.988414
FAM131B	-0.09053	0.068483	-0.01735	-0.26482	0.503025	0.61601	0.898087	0.046509	0.126656	-0.17654	-0.04642	-0.21982	0.7992	0.120269	0.381016	0.071071
AQR	0.015032	0.253402	-0.25057	0.167231	0.911631	0.05951	0.060115	0.213729	-0.09701	0.444116	-0.08321	0.353738	0.260646	0.999005	0.293416	0.992061
SEC14L5	-0.14166	-0.08798	0.12545	-0.43921	0.293202	0.519074	0.352462	0.000631	-0.10441	-0.43383	0.107419	-0.46269	0.244936	0.001297	0.758769	0.000603
ECE2	-0.05589	-0.08935	0.155433	-0.19472	0.679648	0.512577	0.248283	0.146641	0.096971	-0.18464	0.075241	-0.16515	0.739273	0.109644	0.688367	0.136353
ADAMTSL2	0.1223	-0.25111	0.249789	-0.10537	0.364777	0.061928	0.060943	0.435325	0.169217	-0.33333	0.286153	-0.12898	0.869542	0.011796	0.97165	0.19648
CD74	0.008103	-0.2933	0.249009	0.582864	0.9523	0.028247	0.061781	1.96E-06	-0.16389	0.083034	0.049476	0.373778	0.138221	0.708366	0.62656	0.994748
GPRIN2	-0.06492	-0.07157	0.264935	-0.0259	0.631369	0.600134	0.04641	0.84836	0.076474	-0.39011	0.105647	-0.3511	0.69327	0.003679	0.755121	0.008368
NOS1AP	-0.06019	0.042839	0.21886	-0.26291	0.656479	0.753907	0.101914	0.04817	-0.03043	-0.13253	0.084378	-0.23654	0.420453	0.18997	0.709211	0.056748
SEMA3E	0.220579	-0.36333	0.114049	-0.25824	0.102338	0.006402	0.402619	0.054649	0.24978	-0.48554	-0.12797	-0.4822	0.951014	0.000361	0.203883	0.000398
UTP14C	0.002046	0.316592	-0.14839	-0.02295	0.987949	0.017443	0.270623	0.865418	0.088953	0.248852	0.011632	0.186391	0.721691	0.952312	0.530225	0.892563
TMEM63A	-0.07619	-0.19772	0.128759	0.133952	0.576764	0.147894	0.344273	0.324999	0.127743	-0.21626	-0.01784	-0.31405	0.801231	0.074439	0.453701	0.016774
ZNF646	-0.16176	-0.02326	-0.06041	0.035996	0.229312	0.864866	0.655329	0.790372	-0.03322	0.076634	-0.00067	0.013269	0.413252	0.693641	0.498249	0.534872
RAB11FIP3	0.007602	-0.12121	0.226866	-0.10221	0.955242	0.373542	0.089685	0.44932	0.042846	-0.32927	0.077019	-0.32197	0.611307	0.012726	0.692471	0.014551
SECISBP2L	0.01865	-0.1293	-0.01054	-0.13139	0.890478	0.342248	0.937972	0.329959	-0.03936	-0.17889	0.073794	-0.13673	0.397543	0.117116	0.68501	0.182438
KIAA0408	0.197831	-0.26267	0.127381	0.031256	0.14018	0.050491	0.345041	0.817466	0.338866	-0.35259	0.230378	-0.30467	0.98938	0.008124	0.936057	0.019759
CD79A	-0.04899	-0.162	0.024214	0.637364	0.717409	0.232941	0.858106	9.76E-08	-0.05018	-0.13197	0.096712	0.163037	0.371697	0.193755	0.733855	0.857711
VPRBP	-0.0986	0.332345	-0.40067	0.180993	0.469691	0.013174	0.002213	0.181898	-0.06554	0.495377	-0.1441	0.272329	0.332599	0.999768	0.17248	0.966448
KIAA0562	0.033609	0.076779	0.127509	-0.31642	0.803987	0.57382	0.344552	0.016486	-0.30442	-0.04218	-0.04661	-0.06783	0.019847	0.39037	0.380546	0.327116

DOCK4	0.017281	-0.2138	0.120229	0.226126	0.898473	0.113605	0.373017	0.090765	0.002586	-0.14816	0.077533	-0.00577	0.506804	0.162892	0.693653	0.484818
SART3	-0.03523	0.20086	-0.28761	0.163828	0.794712	0.137711	0.030056	0.223331	-0.17785	0.457815	-0.16804	0.243509	0.118504	0.999311	0.134923	0.94853
HDAC9	-0.08496	-0.02363	0.058856	0.248005	0.529786	0.862777	0.663646	0.062872	-0.32494	0.110917	0.144797	0.244487	0.013784	0.768477	0.828692	0.949239
KNTC1	-0.00175	0.330818	-0.29738	0.343776	0.989673	0.012762	0.02467	0.008837	-0.12913	0.618243	-0.24715	0.507786	0.196189	0.999998	0.05084	0.999842
USP34	0.034703	0.226604	-0.22024	0.201218	0.797737	0.093069	0.099725	0.133381	0.172459	0.280033	-0.08765	0.249903	0.874123	0.970279	0.283492	0.95303
GPRASP1	0.348817	-0.12925	0.128753	0.099957	0.007831	0.342418	0.339828	0.459424	0.545987	-0.39592	0.249819	-0.20148	0.999957	0.003228	0.951041	0.08968
CP110	-0.1764	-0.03436	-0.11449	-0.12099	0.189325	0.801508	0.396404	0.369996	-0.17616	-0.07901	0.008773	-0.01418	0.120788	0.300862	0.522805	0.46275
SETD1A	-0.03238	-0.08175	0.191524	-0.04687	0.811039	0.549191	0.153525	0.729196	0.080049	-0.16084	0.09715	-0.26932	0.701538	0.142803	0.737243	0.035152
CD79B	0.093049	-0.27472	0.344989	0.255198	0.495182	0.042378	0.009217	0.057668	0.266942	-0.35747	0.274409	-0.23976	0.961855	0.00796	0.964274	0.056332
LAPTM4A	0.12013	0.17166	-0.20541	0.164395	0.373414	0.205861	0.125314	0.221711	-0.04514	0.342121	-0.10828	0.383827	0.382904	0.990024	0.239478	0.995772
IFT140	-0.21163	-0.14511	-0.00211	-0.30423	0.114026	0.285954	0.987569	0.021403	-0.32138	-0.21052	-0.01526	-0.18165	0.014709	0.080115	0.460383	0.113492
RICS	-0.16863	0.374205	-0.14335	-0.24849	0.209863	0.004495	0.287417	0.062346	-0.29035	0.478911	-0.29167	0.246938	0.025148	0.99962	0.025946	0.950983
ACAP1	-0.01179	-0.32376	0.180306	0.564724	0.930639	0.014929	0.179546	4.74E-06	-0.14674	-0.14377	0.079822	0.124824	0.165242	0.170235	0.698896	0.79575
ZNF536	0.184959	0.048469	0.148448	0.034798	0.168393	0.722789	0.27044	0.797199	0.236366	-0.09515	0.222161	-0.09293	0.943117	0.264674	0.92878	0.269524
CLSTN3	0.053694	0.032657	0.086067	0.462338	0.694296	0.812894	0.528228	0.000334	-0.00781	0.27007	-0.0293	0.395172	0.479469	0.965252	0.424246	0.996716
FAM115A	0.124288	-0.21813	0.11779	0.090073	0.356975	0.106306	0.382862	0.505201	-0.14738	0.110261	0.022747	0.035955	0.164185	0.767144	0.558954	0.59376
SLK	-0.11675	0.457515	-0.27297	-0.09105	0.391502	0.000445	0.0418	0.504518	-0.07442	0.576767	-0.17151	0.290201	0.311517	0.999986	0.129979	0.974791
PHACTR2	0.098959	0.100301	-0.11035	-0.20069	0.463943	0.462028	0.413825	0.13442	0.200359	0.170925	-0.00426	0.168676	0.909076	0.871969	0.488933	0.868768
CD81	0.108159	-0.06215	-0.06592	0.347015	0.423221	0.649097	0.626145	0.008179	0.015186	0.465714	-0.20013	0.392922	0.539894	0.999446	0.09373	0.996545
FAM65B	-0.12573	-0.52346	0.007176	0.075894	0.355853	4.12E-05	0.958138	0.57826	-0.24191	-0.46352	-0.01111	-0.28243	0.054686	0.000671	0.471471	0.030072
SNPH	-0.07775	-0.13468	0.230017	-0.11058	0.565387	0.322366	0.085199	0.412847	0.303215	-0.42352	0.143387	-0.29979	0.97974	0.001679	0.826307	0.021478
PCDHA9	-0.08705	-0.10233	0.01736	-0.24495	0.519646	0.452977	0.898014	0.066286	0.033584	-0.29354	0.233504	-0.16079	0.587677	0.023855	0.938674	0.14288
ZSCAN12	0.135217	0.040487	-0.04724	0.006261	0.315927	0.767025	0.727145	0.96313	0.128667	0.184504	-0.07376	0.138769	0.802948	0.890183	0.31508	0.821146
STARD8	0.260295	-0.11002	0.282967	0.23076	0.050525	0.419536	0.032939	0.084169	0.168551	-0.21666	0.206009	-0.06106	0.868589	0.07405	0.912717	0.343444
TBKBP1	0.084001	-0.23296	0.239685	-0.10908	0.53444	0.084019	0.072531	0.419239	0.157558	-0.36319	0.278514	-0.31719	0.852162	0.006553	0.96803	0.015862
MLL4	0.061087	-0.06214	0.208986	-0.05517	0.651699	0.649137	0.118728	0.683566	0.109703	-0.15414	0.031789	-0.20806	0.766006	0.153204	0.582111	0.082635
FRMPD4	0.091983	-0.2747	0.259334	-0.22307	0.496177	0.040472	0.051412	0.095332	-0.00211	-0.35215	0.14566	-0.3418	0.494454	0.008196	0.830142	0.010038
HDAC4	0.059355	-0.01346	0.160753	0.119469	0.660965	0.921577	0.232259	0.376069	0.051336	-0.01621	0.051132	-0.01619	0.632628	0.457433	0.630647	0.457486
CD97	-0.251	-0.25136	-0.10236	0.091236	0.059665	0.061666	0.448636	0.499696	-0.26192	-0.12	-0.1166	0.033056	0.03934	0.213493	0.222794	0.586319
TOX	0.262946	-0.40162	0.148586	0.001403	0.048138	0.002155	0.26999	0.991737	0.442605	-0.37519	0.229801	-0.31213	0.998835	0.00555	0.933272	0.018428
MLEC	-0.02991	0.124822	0.05832	0.05011	0.825179	0.359349	0.666528	0.711255	-0.05645	0.37302	-0.10575	0.292532	0.354723	0.994663	0.244669	0.975743
ProSAPiP1	0.067112	-0.32317	0.283736	-0.20932	0.61988	0.015122	0.032446	0.11812	0.147753	-0.47605	0.160484	-0.46478	0.836438	0.000413	0.853854	0.000568
KIAA0513	-0.03057	-0.04538	0.101013	-0.17422	0.82143	0.739836	0.454669	0.194936	-0.1894	-0.13836	-0.09349	-0.24619	0.10372	0.179576	0.270645	0.049545
ZFYVE16	-0.00122	0.15272	-0.17802	0.063012	0.992805	0.261147	0.185207	0.641466	0.018435	0.179785	0.077815	0.169165	0.548392	0.884069	0.694303	0.869468
KIAA0247	-0.25619	0.101544	-0.0236	0.173354	0.056668	0.460707	0.862925	0.201355	-0.27184	0.351367	-0.00202	0.244159	0.033809	0.991676	0.494745	0.949002
PHF16	0.165214	-0.07637	0.021681	-0.04036	0.219385	0.575862	0.872817	0.765662	0.197394	0.230634	0.164671	0.153996	0.905733	0.938471	0.860143	0.846567
KIAA0101	-0.13251	0.423691	-0.24605	-0.03712	0.33029	0.001267	0.067555	0.785924	-0.14773	0.662699	-0.24453	0.410987	0.163605	1	0.052737	0.997725
CD151	0.066426	0.009303	0.077527	0.18561	0.626676	0.946256	0.570082	0.170816	0.088608	0.309744	-0.16447	0.181136	0.720922	0.981905	0.140152	0.885843
RASSF2	0.063796	-0.47452	0.042225	0.455135	0.637311	0.00022	0.755138	0.000375	-0.00254	-0.4007	0.184535	-0.05092	0.493314	0.002894	0.887534	0.368415
RAPGEF5	0.217474	0.157984	-0.11839	0.40836	0.104155	0.24487	0.38041	0.001613	0.181409	0.35588	-0.06814	0.477721	0.886199	0.992395	0.328246	0.999607
KIAA0195	-0.14827	-0.00414	-0.04618	-0.29308	0.271008	0.975815	0.733043	0.026929	-0.39306	0.193687	-0.11428	0.112011	0.003444	0.901432	0.227375	0.770692
BCLAF1	-0.00557	0.14959	-0.18572	0.0441	0.967211	0.271163	0.166605	0.744631	0.022195	0.212346	-0.08973	0.183563	0.557534	0.919304	0.281204	0.886287
EIF4A3	0.04455	0.23672	-0.18265	0.255827	0.744407	0.081848	0.177863	0.057033	-0.24864	0.666099	-0.33649	0.525231	0.047836	1	0.011908	0.999911
KIAA0652	-0.01051	0.224698	-0.08168	0.168332	0.938124	0.095927	0.545828	0.210687	0.065927	0.324513	0.057329	0.198924	0.668331	0.986108	0.64582	0.907469
TM9SF4	-0.10103	0.537073	-0.27963	0.076964	0.458757	2.36E-05	0.036867	0.572897	-0.18833	0.603662	-0.32322	0.357218	0.105023	0.999996	0.015166	0.992597
KIAA0232	-0.10758	0.126527	-0.12106	-0.11655	0.425729	0.352771	0.369691	0.387922	-0.12757	-0.09377	-0.00452	-0.06993	0.199096	0.267674	0.48825	0.322107
TBC1D5	0.055022	0.156924	-0.19387	0.209453	0.684367	0.248093	0.148455	0.117887	-0.09956	0.402335	-0.13605	0.419511	0.25518	0.997213	0.186432	0.998147
CDA	0.008313	-0.32151	0.200414	-0.11349	0.951062	0.015681	0.134972	0.400598	0.118804	-0.44859	0.234779	-0.3308	0.784179	0.000884	0.939718	0.012369
FAM38A	0.182442	-0.12701	0.140377	0.290832	0.174362	0.350915	0.297639	0.02818	0.346478	0.071664	0.099009	0.055748	0.990834	0.681994	0.741209	0.643557
RNF144A	0.290941	-0.08125	0.283479	0.254736	0.028118	0.551655	0.03261	0.05584	0.295029	-0.00392	0.068746	0.07654	0.97673	0.489686	0.673181	0.693424

MATR3	0.026898	0.120784	-0.25556	0.028867	0.842569	0.375222	0.055025	0.831206	-0.06781	0.231697	-0.25926	0.26041	0.329029	0.937171	0.044623	0.957976
RIMS3	0.010498	0.081947	0.14588	-0.15346	0.938221	0.548228	0.278907	0.254428	0.161747	-0.14226	0.045301	-0.26375	0.858571	0.172812	0.616189	0.038272
SNX17	0.045848	0.054506	-0.08581	0.103124	0.734872	0.689904	0.525625	0.445248	-0.12496	0.371918	-0.23489	0.196621	0.203993	0.994537	0.060192	0.904848
DHX38	0.075736	-0.0579	0.027198	0.036428	0.575528	0.671674	0.840834	0.787912	-0.20362	0.284197	-0.05466	0.19225	0.087343	0.972199	0.360696	0.899726
KIAA0586	0.032419	0.149648	-0.13361	-0.01664	0.810799	0.270975	0.321757	0.902213	0.094948	0.180953	-0.01294	0.11047	0.734889	0.885603	0.466382	0.76757
DLGAP5	-0.05033	0.179826	-0.14372	-0.1127	0.712614	0.188936	0.290624	0.40826	-0.14438	0.567125	-0.21243	0.304436	0.169208	0.99998	0.080612	0.98016
MTSS1	-0.12501	0.20665	-0.25842	-0.23674	0.35863	0.130091	0.054474	0.078963	-0.10687	0.243309	-0.00792	-0.01744	0.242357	0.946361	0.47966	0.454728
BMS1	-0.13067	0.212293	-0.22347	0.152743	0.332641	0.116232	0.094729	0.256666	-0.14681	0.337589	-0.05299	0.292978	0.165133	0.989117	0.364777	0.975922
PTDSS1	0.178405	0.386184	-0.24377	0.2543	0.184254	0.003285	0.067652	0.056276	-0.11635	0.660114	-0.30557	0.463367	0.220647	1	0.020611	0.999409
SERTAD2	-0.06313	0.410058	-0.284	-0.09029	0.640842	0.001697	0.032278	0.504196	-0.01626	0.299819	-0.01381	0.210865	0.457291	0.978532	0.464127	0.920238
CKAP5	0.00294	0.311964	-0.36268	-0.02958	0.982683	0.019252	0.00556	0.827088	-0.17324	0.578696	-0.23843	0.40311	0.124788	0.999987	0.057367	0.997263
MAML1	0.01172	-0.20182	0.09715	-0.01648	0.931046	0.135798	0.47219	0.903154	0.219698	-0.25014	0.089935	-0.21417	0.928818	0.046809	0.721573	0.076464
PHYHIP	0.12639	0.207297	-0.05009	-0.3228	0.348838	0.125279	0.711373	0.014324	-0.01442	0.202502	0.116633	0.074421	0.462547	0.908909	0.774565	0.686465
TATDN2	0.080284	0.174423	-0.06561	0.449359	0.552737	0.198545	0.627742	0.000454	0.162265	0.462036	-0.04111	0.295615	0.859351	0.999386	0.394305	0.976957
KIAA0174	-0.02129	-0.10988	0.098941	-0.1069	0.87624	0.424512	0.468153	0.432927	0.245696	-0.20032	0.081991	-0.31875	0.948115	0.093519	0.701632	0.016417
ACYP2	-0.17709	0.247468	-0.16646	-0.00954	0.187553	0.06594	0.215889	0.943825	-0.23134	0.208871	-0.34956	0.022275	0.060942	0.9182	0.009293	0.55841
MRPL19	0.040625	0.20312	-0.28397	0.13773	0.764143	0.133244	0.032298	0.306931	-0.06083	0.455519	-0.14042	0.281408	0.344003	0.999266	0.178783	0.970925
DAZAP2	-0.09727	0.11516	-0.21176	-0.00495	0.47162	0.398023	0.113805	0.970843	-0.18997	0.105605	-0.00736	0.105081	0.103024	0.757565	0.480855	0.756474
TOMM20	-0.00212	0.256212	-0.32343	0.237295	0.987523	0.056648	0.014124	0.075514	0.001151	0.316076	-0.18069	0.196263	0.503028	0.98382	0.117449	0.904435
SCRN1	0.054241	-0.18847	-0.01527	-0.0135	0.691337	0.168203	0.911037	0.921359	0.181417	-0.3004	0.197878	-0.17425	0.886208	0.021256	0.903709	0.12339
SPOCK2	-0.11274	-0.16497	-0.02906	0.459637	0.408068	0.228745	0.83165	0.000366	-0.11559	0.042155	0.041997	0.206889	0.222146	0.609557	0.607927	0.916137
IP6K1	-0.22378	-0.00603	-0.08899	-0.08597	0.094248	0.964819	0.510378	0.524852	-0.28886	0.09562	-0.15719	0.053372	0.025771	0.73635	0.151217	0.637685
RNF40	-0.02574	-0.11943	-0.0585	-0.11197	0.849273	0.380659	0.665569	0.406963	-0.22821	-0.04776	-0.10836	-0.15905	0.063577	0.376301	0.239298	0.145534
KIAA0427	0.084892	-0.20965	0.259307	0.148674	0.533895	0.120961	0.053624	0.274142	0.302204	-0.48356	0.221167	-0.46762	0.979387	0.000332	0.927859	0.000525
KIAA0141	0.169101	-0.03521	0.125601	0.328278	0.212804	0.798563	0.356333	0.013509	0.075924	0.324541	-0.11545	0.356477	0.691989	0.986115	0.225063	0.992486
KIAA0494	0.038497	0.368042	-0.17631	0.172493	0.776169	0.005259	0.189556	0.199462	0.029472	0.43756	-0.1365	0.450389	0.577079	0.998821	0.185637	0.999158
SFI1	-0.20955	-0.25422	-0.07165	-0.22562	0.121144	0.061076	0.599728	0.09454	-0.18924	-0.38625	0.094067	-0.33444	0.103906	0.004008	0.730601	0.011552
GIT2	0.112728	-0.02769	-0.00282	0.469293	0.403781	0.83944	0.983407	0.000231	0.084682	0.137037	0.097588	0.203975	0.712105	0.818099	0.73818	0.913038
URB2	-0.14358	0.28996	-0.17815	0.255825	0.291101	0.031764	0.188964	0.057035	-0.2162	0.554707	-0.32942	0.324164	0.074494	0.999968	0.013563	0.986019
KEAP1	-0.06091	0.148029	-0.14728	0.109539	0.652661	0.276254	0.274267	0.417292	-0.11049	0.519212	-0.27758	0.331461	0.232388	0.999891	0.032437	0.987783
NUPL1	-0.03515	0.225459	-0.3053	0.16363	0.795205	0.094778	0.020926	0.223899	-0.01723	0.419253	-0.15782	0.206436	0.454754	0.998135	0.150241	0.915661
TSC22D2	0.163057	-0.15914	0.152058	-0.17712	0.225546	0.241394	0.258829	0.187497	0.269272	-0.30023	0.170361	-0.28985	0.964822	0.02132	0.868399	0.025356
CUL7	-0.02551	-0.08894	0.081863	-0.2669	0.850593	0.514506	0.544929	0.044749	-0.12771	-0.02592	0.21639	-0.22353	0.201575	0.432897	0.920852	0.069963
RB1CC1	-0.03788	0.102735	-0.16374	0.002394	0.779679	0.451175	0.223589	0.9859	-0.09257	0.17422	-0.00576	0.128748	0.270303	0.876564	0.485028	0.803097
ARMCX2	0.162712	-0.13649	0.251337	-0.0299	0.226542	0.315815	0.059308	0.825283	0.383917	-0.31335	0.176706	-0.05078	0.99578	0.016982	0.877217	0.368768
ARHGAP11	-0.16287	0.386062	-0.23475	0.092452	0.230389	0.003601	0.081593	0.497964	-0.1072	0.634933	-0.25998	0.350132	0.239135	0.999999	0.042291	0.99147
SPATA2	-0.0102	0.077714	0.069757	-0.15231	0.93996	0.569148	0.606122	0.258024	-0.0568	-0.25306	0.147861	-0.27788	0.35546	0.046746	0.830929	0.032284
ARHGEF11	0.005893	-0.12972	0.001094	-0.12434	0.965296	0.340651	0.993557	0.35679	-0.24398	0.373703	-0.20978	0.216268	0.053139	0.994275	0.085857	0.923195
RGP1	0.061264	-0.01157	0.100184	-0.03411	0.650754	0.932534	0.4584	0.801096	-0.06216	0.304628	0.075649	0.130268	0.340768	0.980226	0.689311	0.805902
ARHGEF17	0.155968	-0.24683	0.236259	-0.073	0.24664	0.066663	0.076837	0.589415	0.165625	-0.13234	0.123391	-0.05479	0.86434	0.190322	0.79032	0.358805
DNAJC6	-0.08563	0.026553	-0.04934	-0.33861	0.530328	0.8474	0.718027	0.010691	-0.13291	-0.39223	0.036328	-0.47133	0.192055	0.003852	0.592552	0.000541
CDC2	0.020991	0.122703	-0.19032	-0.05992	0.877961	0.372141	0.160019	0.660897	-0.20197	0.667701	-0.32524	0.384146	0.089146	1	0.014626	0.995802
TRIM14	-0.30358	0.168299	-0.00546	0.363522	0.022935	0.219351	0.968164	0.005889	-0.27479	0.596597	-0.16402	0.491158	0.032288	0.999994	0.14082	0.999736
ZNF623	-0.01642	0.345304	-0.20241	0.072838	0.903511	0.009149	0.131056	0.590267	0.101336	0.356148	0.064944	0.314459	0.748606	0.992436	0.664161	0.983348
JAKMIP2	-0.11261	0.088928	-0.07346	0.325957	0.404256	0.514556	0.587097	0.013346	0.165325	-0.17276	0.028842	-0.19923	0.863899	0.125462	0.57459	0.092184
MELK	-0.02966	0.341017	-0.16281	-0.02689	0.828229	0.010839	0.230579	0.844024	-0.14277	0.648242	-0.22045	0.407195	0.171946	0.999999	0.072811	0.997512
LCMT2	0.06377	0.399174	-0.28644	0.091564	0.63745	0.002307	0.030762	0.498151	-0.02624	0.612304	-0.14726	0.361806	0.431273	0.999997	0.167183	0.993257
GINS1	0.099805	0.200958	-0.17084	0.009196	0.464255	0.141247	0.20807	0.946371	-0.09922	0.631425	-0.21358	0.367094	0.255896	0.999999	0.079456	0.993955
ZEB2	0.256416	-0.08804	0.137936	0.416115	0.056444	0.522707	0.310681	0.001424	0.319074	-0.28587	0.250407	0.043736	0.984666	0.027058	0.951448	0.613558
CDC2L1	-0.15331	0.003136	-0.05941	-0.05956	0.254874	0.981697	0.660667	0.659873	0.086301	-0.17551	0.011883	-0.13647	0.713516	0.124411	0.530511	0.18568

KIAA0748	0.126176	-0.22238	0.069048	0.298718	0.349662	0.099502	0.609797	0.024001	0.135135	-0.3318	0.244217	-0.07974	0.81472	0.012141	0.947033	0.299177
ZBTB24	-0.05218	0.366257	-0.18831	0.194801	0.699884	0.0055	0.160672	0.146478	0.083203	0.243596	0.021707	0.241553	0.706565	0.946574	0.555615	0.945041
PLEKHM1	0.019223	0.192451	-0.03771	-0.32735	0.887137	0.155314	0.780604	0.012935	-0.03831	0.268678	-0.00732	0.076015	0.400214	0.9645	0.480979	0.6922
HEPH	0.342233	-0.13028	0.18347	0.234068	0.009167	0.338547	0.171906	0.079695	0.283692	-0.22074	0.296405	0.009682	0.971972	0.070216	0.975983	0.525459
ELMO1	0.282517	-0.27807	0.139081	0.482061	0.033231	0.03798	0.302166	0.000146	0.352183	-0.31763	0.248862	-0.07486	0.99181	0.015738	0.950374	0.310505
GAB2	0.108412	-0.4809	0.179406	-0.08653	0.422132	0.000176	0.181764	0.522186	0.120524	-0.64015	0.282771	-0.49177	0.787523	8.32E-07	0.97009	0.000259
KIAA0528	0.04379	0.149674	-0.07368	-0.06761	0.746361	0.270892	0.585973	0.617274	0.011632	0.162516	-0.05654	0.016121	0.530578	0.859727	0.356098	0.542341
MFAP3L	0.292432	-0.40438	0.162561	-0.39675	0.027286	0.001995	0.226979	0.002247	0.086066	-0.51878	0.19264	-0.42954	0.710723	0.000154	0.892074	0.001809
ZNF518A	0.042168	0.137704	-0.13296	0.063551	0.755458	0.311504	0.324162	0.638609	0.084566	0.236752	-0.03921	0.163755	0.711841	0.94342	0.399071	0.861578
KIAA0753	-0.16528	0.122978	-0.13859	-0.21659	0.219187	0.366548	0.303899	0.105608	-0.31703	-0.02998	-0.06991	-0.01958	0.015907	0.421607	0.32408	0.448616
EPM2AIP1	0.085437	0.144729	-0.14221	0.210108	0.527451	0.287221	0.291299	0.116717	0.228052	0.088406	0.032516	0.052483	0.936286	0.720472	0.583963	0.635478
RUSC2	0.226456	-0.22341	0.310723	-0.06104	0.090282	0.097899	0.018648	0.651964	0.253613	-0.3152	0.202903	-0.13346	0.955499	0.016434	0.90935	0.188293
C2CD2L	-0.19377	-0.22398	0.101239	-0.28207	0.14867	0.097017	0.453655	0.033522	-0.27805	-0.22827	-0.02604	-0.28772	0.030674	0.063531	0.432598	0.026255
FARP2	-0.19314	0.065052	-0.06369	-0.12024	0.157706	0.640257	0.644092	0.381876	-0.37414	0.215828	-0.18511	-0.01823	0.005211	0.925147	0.111731	0.452139
KIAA0319	-0.16675	-0.02586	0.041013	-0.37492	0.215083	0.849945	0.761961	0.00406	-0.28614	-0.27542	-0.00733	-0.18543	0.026937	0.03197	0.480949	0.108642
CEP350	0.106499	0.171355	-0.14459	0.093343	0.430415	0.206679	0.283221	0.489806	0.312566	0.115248	0.04811	-0.01867	0.98278	0.777174	0.623175	0.45099
KIAA0649	-0.16662	-0.15397	0.141127	-0.31749	0.215432	0.257223	0.295039	0.016106	0.010124	-0.40776	0.089929	-0.39555	0.526619	0.002455	0.721559	0.003255
CEP170	-0.10331	-0.09374	-0.17141	0.011166	0.444439	0.491954	0.202354	0.934299	-0.1107	0.023794	-0.02202	0.042006	0.231969	0.562361	0.442911	0.609178
LRIG2	0.032267	0.171775	-0.2343	0.293108	0.811666	0.205554	0.079391	0.026916	0.085183	0.348119	-0.0918	0.208063	0.713236	0.991124	0.274336	0.917363
PSMD6	-0.01511	0.26066	-0.31531	0.160636	0.911175	0.052344	0.016889	0.232604	-0.08181	0.424527	-0.16751	0.298903	0.294437	0.998362	0.13569	0.978197
MED24	-0.16097	0.04605	-0.00923	-0.00235	0.23162	0.736107	0.945674	0.986153	-0.31583	0.508397	-0.15127	0.224131	0.01625	0.999845	0.160616	0.932858
MAGI2	0.300968	-0.29242	0.295489	-0.08189	0.024197	0.030276	0.027036	0.548512	0.347156	-0.54227	0.372657	-0.40553	0.990955	4.96E-05	0.99415	0.002587
KIAA0644	0.03379	-0.15869	0.194787	-0.11056	0.802955	0.242734	0.146507	0.412951	0.274314	-0.26264	0.164321	-0.35119	0.967471	0.038919	0.859624	0.008353
TRIM66	0.118725	-0.04295	0.092251	-0.19886	0.379067	0.753299	0.494921	0.138087	-0.18638	0.115584	-0.02226	0.134588	0.107452	0.777841	0.442312	0.81374
PJA2	0.219475	0.070529	-0.07372	0.206319	0.100931	0.605483	0.585773	0.123613	0.214701	0.101944	0.133484	0.18242	0.924052	0.749892	0.808984	0.88751
TOMM70A	0.060388	0.261775	-0.30495	0.090864	0.655436	0.051308	0.021081	0.501454	0.032037	0.40058	-0.11682	0.3249	0.583696	0.997098	0.222359	0.986206
SETDB1	-0.22053	0.251572	-0.3369	0.119048	0.099262	0.061437	0.010389	0.377764	-0.08453	0.407468	-0.24461	0.31739	0.288245	0.997528	0.052678	0.984195
LRBA	-0.07548	0.210139	-0.24574	-0.10529	0.576821	0.12007	0.065389	0.435699	-0.04186	0.113137	-0.09076	0.037381	0.392419	0.770341	0.278961	0.596301
KIAA0317	-0.1478	0.313923	-0.19493	0.118885	0.27257	0.018468	0.146216	0.378422	-0.13393	0.543378	-0.17088	0.349042	0.187449	0.999952	0.130857	0.991284
SEC24D	0.070077	0.177054	0.000384	0.206205	0.604467	0.191755	0.997739	0.123825	0.063603	0.290644	-0.09408	0.221566	0.662732	0.974974	0.269368	0.930542
FCHSD2	0.034032	0.222085	-0.13347	0.422864	0.80157	0.099957	0.322273	0.001049	0.281988	0.326899	0.043108	0.404152	0.971194	0.986703	0.61071	0.997328
TLK1	0.053808	0.169816	-0.16841	0.158398	0.690978	0.210847	0.210467	0.239261	-0.02474	0.3397	-0.10043	0.342577	0.435187	0.989548	0.255772	0.990111
ZC3H11A	0.067835	0.161301	-0.00243	0.097204	0.616109	0.234975	0.98568	0.471942	0.088269	0.076488	0.055519	0.177984	0.717892	0.691248	0.639807	0.878944
TOX4	0.062568	0.183797	-0.21214	0.081225	0.643819	0.175108	0.113149	0.548075	-0.08359	0.25059	-0.07513	0.088764	0.290367	0.953495	0.311898	0.72127
DDX46	0.07377	0.295782	-0.19448	0.079352	0.585511	0.026878	0.147156	0.557374	0.08401	0.320929	-0.01352	0.175591	0.710582	0.985171	0.464881	0.878442
CDC5L	0.014897	0.191058	-0.2217	0.015843	0.912421	0.158383	0.097429	0.906882	-0.12766	0.362537	-0.05026	0.274199	0.198922	0.993358	0.371503	0.967412
ZBTB39	0.119719	0.228978	0.109799	0.179557	0.375063	0.089602	0.416182	0.181391	0.159662	0.144309	-0.13439	0.058095	0.852598	0.827869	0.192216	0.647681
LBA1	0.044623	-0.28257	0.17064	0.274767	0.741704	0.034855	0.204407	0.038594	-0.03444	-0.13201	0.069417	0.095471	0.410132	0.190913	0.674764	0.736026
TBC1D4	0.385023	-0.30297	0.32252	-0.01805	0.003103	0.023224	0.014413	0.893992	0.351003	-0.33603	0.319996	-0.20254	0.990963	0.012011	0.982893	0.091051
POM121	-0.01354	-0.08842	0.205309	-0.00338	0.920376	0.516953	0.125502	0.980094	0.222187	-0.14536	0.04788	-0.11936	0.931108	0.167549	0.622605	0.214743
OSBPL2	-0.12756	0.339163	-0.21275	-0.04973	0.344345	0.010555	0.11208	0.713335	-0.0756	0.470163	-0.17366	0.067133	0.308764	0.999511	0.126961	0.671221
RHOBTB1	0.044459	-0.10212	-0.02654	-0.197	0.744912	0.45814	0.846055	0.145605	0.090686	-0.33527	0.053943	-0.31529	0.723224	0.012181	0.635993	0.017443
SMG7	-0.24569	0.283991	-0.18118	-0.1521	0.065447	0.033909	0.177402	0.258688	-0.19246	0.129214	-0.21068	0.018789	0.102646	0.801212	0.084921	0.548751
ZBED4	-0.36884	0.287598	-0.30104	0.05331	0.004754	0.031612	0.022875	0.693695	-0.36128	0.458302	-0.4678	0.215903	0.006816	0.99932	0.000597	0.92522
Sep-07	0.170121	-0.0333	-0.09685	0.104951	0.205807	0.807487	0.473583	0.437183	0.177697	0.129656	0.010738	0.184484	0.881291	0.804776	0.527905	0.890158
LPPR4	0.318382	0.001891	0.156334	0.481981	0.015794	0.988966	0.24552	0.000147	-0.00637	0.306367	-0.01242	0.474254	0.48325	0.98081	0.467733	0.999565
NUAK1	0.237389	-0.28618	0.120491	0.103352	0.075395	0.032497	0.371969	0.444239	0.126973	-0.11225	0.221864	-0.00986	0.799794	0.22883	0.928506	0.474085
SNAP91	0.157914	-0.24538	0.112368	-0.31444	0.245083	0.070966	0.409634	0.018267	-0.05453	-0.3746	0.185404	-0.27601	0.359462	0.00516	0.888642	0.031674
TELO2	-0.07646	-0.13163	0.108495	-0.15459	0.57185	0.333548	0.421774	0.250897	-0.07487	-0.00928	0.000317	-0.16845	0.310475	0.475585	0.500824	0.131558
TECPR2	-0.03861	0.002305	0.07788	0.004223	0.777532	0.986673	0.568325	0.97536	0.035543	-0.20652	0.204886	-0.18343	0.592704	0.084249	0.911511	0.111194

FIG4	0.04225	0.224065	-0.23666	0.074094	0.754998	0.096892	0.076329	0.583856	-0.11797	0.359046	-0.11656	0.189937	0.217455	0.992867	0.222876	0.896941
KIAA0196	0.034263	0.313712	-0.32115	0.142537	0.802052	0.019684	0.015805	0.294661	-0.03523	0.537917	-0.13076	0.32721	0.408098	0.999942	0.195944	0.986779
UBAP2L	-0.03146	0.21205	-0.23767	-0.05758	0.816287	0.11666	0.075043	0.670508	-0.11854	0.457154	-0.13533	0.419814	0.216342	0.999298	0.187717	0.998161
SV2B	0.106679	-0.19787	-0.00472	-0.26294	0.433894	0.147585	0.97245	0.050245	0.11165	-0.36123	0.234547	-0.26959	0.769961	0.006822	0.93953	0.035007
CDC6	0.127663	0.22352	0.10114	0.021747	0.352976	0.104221	0.462503	0.874776	-0.1003	0.632793	-0.21746	0.445127	0.253588	0.999999	0.075654	0.999031
SV2A	0.242654	0.047043	0.053359	0.13745	0.068957	0.730631	0.693426	0.307926	0.299199	-0.063	0.215602	-0.00116	0.978306	0.338719	0.922544	0.496957
SRGAP3	-0.1449	0.063397	-0.00565	-0.32347	0.282193	0.642513	0.966699	0.01411	-0.17525	0.109651	-0.1043	-0.06924	0.122016	0.765901	0.247672	0.32375
MRC2	0.286471	-0.18035	0.06958	0.126563	0.032316	0.187634	0.610358	0.352635	0.128292	0.19736	0.102474	0.289744	0.802251	0.905694	0.748521	0.974601
KLHL21	0.104174	-0.23817	0.106231	-0.09873	0.440606	0.077115	0.431582	0.464977	0.113114	-0.00514	-0.11626	-0.1252	0.772912	0.486481	0.223469	0.20353
RBM19	-0.01464	-0.05756	0.100448	-0.07594	0.913931	0.673491	0.457212	0.574514	0.12761	-0.14588	0.081571	-0.28693	0.800984	0.166683	0.702875	0.026594
SGSM2	-0.02436	-0.01647	0.046926	-0.0809	0.857262	0.904086	0.728872	0.549689	-0.05534	0.061605	-0.06078	-0.01947	0.357448	0.65789	0.345831	0.448896
SLC35E2	-0.07655	0.194063	-0.11432	-0.00503	0.571402	0.151816	0.397133	0.97037	-0.00181	0.103853	0.093635	0.250783	0.495228	0.753909	0.729664	0.953625
KIAA0415	-0.05629	-0.09975	0.126598	0.054863	0.677501	0.464501	0.348037	0.68523	-0.05724	-0.04695	0.002814	-0.11138	0.352784	0.378335	0.507318	0.230587
G3BP2	0.061232	0.134688	-0.19461	0.115862	0.650926	0.322322	0.14688	0.390751	-0.02119	0.329152	-0.11216	0.213858	0.444421	0.987246	0.231608	0.923225
DENND4B	-0.01242	-0.07995	0.1327	0.167496	0.926931	0.558073	0.325101	0.212995	0.089118	-0.02825	0.111121	-0.12527	0.722059	0.426083	0.766296	0.203404
CDC20	0.083591	-0.02583	0.052868	-0.16003	0.540203	0.85149	0.698776	0.238739	-0.1739	0.543303	-0.22829	0.32712	0.12387	0.999952	0.065734	0.986757
RABGAP1L	-0.0816	0.082544	-0.11506	0.131723	0.546232	0.545309	0.394071	0.32871	-0.04424	0.337709	-0.06707	0.250475	0.385178	0.989142	0.330789	0.953418
TMCC2	-0.12132	-0.00493	-0.01073	-0.47734	0.373101	0.971503	0.93744	0.000199	-0.05761	-0.45206	0.099604	-0.31363	0.351852	0.000806	0.742471	0.0169
RICH2	-0.14264	-0.24678	0.072204	-0.28233	0.28983	0.066717	0.593515	0.033355	-0.15052	-0.34391	0.002443	-0.21818	0.159022	0.009637	0.506354	0.072602
SUPT7L	-0.08767	0.242633	-0.15512	0.008153	0.516664	0.07158	0.24925	0.952001	-0.06316	0.212695	-0.2026	0.245451	0.338335	0.922074	0.090982	0.94993
ATP2C2	-0.20539	0.058226	0.016143	-0.18827	0.125344	0.669918	0.90513	0.160767	-0.23903	-0.00796	-0.17859	-0.10044	0.056898	0.4793	0.123044	0.255753
ARNT2	0.166727	-0.25412	0.181391	0.080743	0.215133	0.058764	0.1769	0.550462	0.136872	-0.02416	0.219816	-0.0234	0.815023	0.437419	0.924174	0.439359
FAM20B	0.117444	0.140632	-0.18253	0.145108	0.38427	0.301228	0.17414	0.281489	0.126697	0.323619	-0.1511	0.414474	0.796545	0.984941	0.16378	0.997678
NCAPD2	-0.07984	0.262694	-0.25122	0.051315	0.558574	0.052669	0.061818	0.707221	-0.15221	0.660057	-0.27362	0.427411	0.156295	1	0.034476	0.998475
SEC16A	-0.05474	0.136976	0.155811	-0.05553	0.688659	0.318658	0.251504	0.684404	-0.04037	0.170247	-0.14817	0.043161	0.394985	0.871009	0.165685	0.612105
KBTBD11	0.016145	-0.14011	0.300767	-0.12594	0.905118	0.303038	0.023005	0.350569	0.066943	-0.45582	0.193105	-0.40567	0.670766	0.000728	0.898125	0.002579
RNF10	-0.05995	0.159165	-0.11756	0.16639	0.660742	0.245763	0.388204	0.220338	0.037295	0.471481	-0.20608	0.290042	0.596086	0.999461	0.08978	0.973362
IQSEC1	0.019963	-0.32669	0.08192	-0.21032	0.882819	0.013992	0.544647	0.116342	-0.01523	-0.56394	0.087246	-0.4794	0.459995	2.24E-05	0.715621	0.000375
ZBTB40	-0.02023	0.174047	-0.07996	0.274123	0.882351	0.203783	0.558021	0.040912	-0.00071	0.184537	-0.02669	0.181177	0.498143	0.887537	0.431738	0.883185
PAN2	-0.02867	0.14291	0.026078	0.324974	0.833882	0.297939	0.8487	0.014535	0.011176	0.175931	-0.07057	0.134858	0.529041	0.876162	0.324477	0.811446
ZBTB5	0.366812	0.132333	0.018887	0.273136	0.005424	0.330931	0.890112	0.041673	-0.0269	0.441783	-0.17985	0.305745	0.429588	0.998943	0.118567	0.980603
LPGAT1	-0.02023	0.112512	-0.21452	0.174584	0.88128	0.409033	0.109061	0.193986	-0.11606	0.281003	-0.13247	0.261564	0.221217	0.970736	0.19285	0.960447
MFN2	0.027845	0.20988	-0.17813	0.149189	0.83858	0.124062	0.189017	0.272465	-0.06791	0.71493	-0.24267	0.391289	0.326917	1	0.054117	0.996416
KIF14	-0.08377	0.143762	-0.10544	-0.20647	0.539312	0.295041	0.439286	0.126818	-0.12298	0.371357	0.113359	0.175523	0.210452	0.99399	0.768116	0.875605
JOSD1	0.238746	0.200281	-0.18247	0.135729	0.073692	0.138872	0.174295	0.31408	0.310053	0.466017	0.012394	0.211597	0.982003	0.999451	0.532201	0.920976
CDC25A	-0.01367	0.021315	0.111425	-0.0876	0.92036	0.877245	0.413601	0.520866	-0.02594	0.341633	-0.16455	-0.04357	0.432064	0.989929	0.140043	0.386867
HELZ	0.04805	0.074184	-0.14569	0.154048	0.722639	0.586875	0.279541	0.252575	0.039934	0.288428	-0.08131	0.191332	0.603916	0.974047	0.29771	0.898627
KIAA0020	-0.06137	0.407438	-0.22454	0.196113	0.650168	0.001829	0.093113	0.143725	-0.06334	0.442806	-0.22255	0.448211	0.337901	0.998971	0.070859	0.999107
P2RY14	-0.02418	-0.06879	-0.05524	0.205146	0.858301	0.614429	0.6832	0.12581	-0.0151	-0.19293	0.176414	0.054762	0.460326	0.099459	0.876821	0.641123
MAFB	-0.00574	0.083161	-0.05424	0.078478	0.966222	0.542299	0.688638	0.561735	0.004809	0.311025	0.090253	0.250508	0.512652	0.982307	0.722272	0.953439
CD302	0.18045	-0.04029	-0.02341	0.20267	0.179194	0.768103	0.862793	0.130542	0.366336	-0.2445	0.16372	-0.02007	0.993859	0.050755	0.85873	0.44733
DCLRE1A	-0.06719	0.390177	-0.22887	-0.0824	0.619495	0.002951	0.086811	0.542276	-0.22638	0.445701	-0.2209	0.225147	0.065163	0.999046	0.072391	0.933759
ARHGAP25	0.005901	-0.39797	0.068521	0.48327	0.965573	0.002621	0.615815	0.000161	-0.15992	-0.21602	0.124643	-0.06392	0.144194	0.074666	0.79269	0.336504
CDC25B	0.210473	-0.0957	0.048755	0.210151	0.119468	0.487023	0.721219	0.120047	0.237797	0.110909	0.106946	0.186625	0.944235	0.768462	0.757797	0.892856
DLEC1	-0.11675	-0.20921	0.079716	-0.27584	0.387107	0.121763	0.55556	0.037812	-0.11908	-0.35681	0.079476	-0.30118	0.215289	0.007464	0.698106	0.020976
EXOG	0.132666	0.253351	-0.17532	0.229476	0.325228	0.059563	0.192079	0.085957	0.071054	0.355784	-0.03832	0.303401	0.680552	0.99238	0.401329	0.979805
XYLB	0.106937	-0.01675	0.104802	-0.06414	0.428509	0.902486	0.437839	0.635474	0.130362	0.25092	0.050444	0.357117	0.806073	0.953717	0.628951	0.992582
OXSRI	0.004793	0.420707	-0.20188	0.188426	0.972031	0.001383	0.135689	0.164305	0.028559	0.590037	-0.21246	0.382594	0.57472	0.999992	0.080581	0.995657
GFPT2	0.245682	-0.31796	0.212501	0.130716	0.06546	0.016938	0.112515	0.332451	0.400578	-0.38902	0.235522	-0.26444	0.996802	0.004132	0.938103	0.039594
CRYZL1	0.072737	0.10817	-0.10229	-0.06072	0.590786	0.427462	0.448962	0.653647	-0.00821	0.053861	-0.01534	0.035335	0.478415	0.638895	0.460163	0.59217

MAGEC1	-0.1606	-0.18152	0.160118	-0.13638	0.232698	0.180616	0.234133	0.311747	0.021269	-0.36941	0.023725	-0.21309	0.555788	0.005758	0.561468	0.077532
WDR1	0.069153	-0.01812	-0.08723	0.074595	0.612557	0.895561	0.522652	0.584799	-0.02878	0.412846	-0.15047	0.19951	0.424707	0.997824	0.161923	0.908128
AMMECR1	-0.03396	0.423037	-0.18389	-0.01425	0.801954	0.001161	0.170912	0.916225	-0.0441	0.449218	-0.27839	0.316081	0.385513	0.999131	0.03203	0.983821
CDC25C	-0.02105	0.043832	0.014171	-0.22742	0.877614	0.750671	0.917437	0.09187	-0.18062	0.313527	-0.1917	0.150311	0.114832	0.98307	0.103559	0.840638
GOLGA5	-0.04438	0.225704	-0.14461	0.120894	0.743049	0.09441	0.283174	0.37036	0.022087	0.344391	-0.06419	0.221259	0.55792	0.990453	0.33764	0.930261
HS3ST4	-0.07965	-0.22929	0.149586	-0.2754	0.555892	0.089147	0.266744	0.038134	0.133775	-0.49402	0.110047	-0.3749	0.812281	0.000242	0.764125	0.005127
HS3ST3B1	0.068352	-0.01474	-0.07112	0.186947	0.613417	0.914146	0.599069	0.163783	0.13586	0.252904	0.145693	0.209741	0.813231	0.953147	0.827324	0.916642
HS3ST3A1	0.124509	0.107464	0.207625	-0.14147	0.360563	0.434842	0.124669	0.298327	0.142329	-0.08395	0.06426	-0.18609	0.824503	0.291751	0.660713	0.110485
HS3ST2	0.050503	-0.19365	0.187705	-0.13486	0.70909	0.1527	0.162051	0.317224	0.165567	-0.44257	0.062787	-0.41876	0.864255	0.001036	0.659001	0.001887
HS3ST1	-0.32157	0.186841	-0.1956	0.16793	0.014721	0.167948	0.144798	0.211794	-0.15593	0.381037	-0.16373	0.24997	0.150384	0.995507	0.141258	0.953076
USP15	-0.05256	0.110737	-0.23591	0.294872	0.697817	0.416509	0.077283	0.025969	0.137311	0.053109	-0.01099	0.079225	0.818583	0.637033	0.471436	0.699641
CDC27	0.095393	0.107918	-0.16459	0.182451	0.480274	0.428546	0.221165	0.174339	-4.95E-05	0.344203	-0.15246	0.316858	0.49987	0.990418	0.158702	0.984044
USP3	-0.04741	0.357485	-0.26646	0.142291	0.726189	0.006833	0.045118	0.291034	-0.00798	0.185243	-0.1237	0.072987	0.479009	0.891119	0.209089	0.685113
MVP	-0.27314	0.036341	-0.22427	0.053218	0.039809	0.790313	0.093516	0.694198	-0.32471	0.499112	-0.21729	0.276906	0.013841	0.999793	0.075816	0.968768
SLC23A2	0.081767	0.121144	-0.06136	0.086056	0.545404	0.373793	0.650254	0.52445	0.015142	0.007436	0.012536	0.095111	0.539322	0.519332	0.532184	0.732858
SLC23A1	-0.02358	-0.33167	0.070914	-0.34568	0.861764	0.012519	0.600147	0.008444	-0.07735	-0.46574	-0.0024	-0.37941	0.304685	0.000553	0.493755	0.004654
FGF19	-0.07569	-0.24068	0.272124	-0.17322	0.575779	0.073966	0.04058	0.197547	0.027915	-0.33891	0.272652	-0.28484	0.573053	0.010612	0.96501	0.027515
TNFSF15	0.009069	-0.02802	0.174719	0.377359	0.94662	0.837599	0.193634	0.003807	-0.28498	0.290417	-0.08348	0.503923	0.027449	0.974881	0.292805	0.999822
THRAP3	-0.07253	0.119103	-0.26686	-0.01331	0.591854	0.381956	0.044788	0.9217	-0.16406	0.290261	-0.10972	0.156153	0.137972	0.974816	0.236535	0.84997
MED12	-0.01193	-0.02995	-0.12302	0.155753	0.930469	0.828154	0.366392	0.251683	0.048092	0.139719	-0.05966	0.125523	0.62313	0.820006	0.350244	0.794347
MED13	-0.00012	0.311436	-0.24176	0.258708	0.9993	0.019468	0.070019	0.051998	0.193555	0.394748	-0.15756	0.313853	0.901276	0.996685	0.150637	0.983168
CDC34	-0.16048	-0.13215	-0.00013	0.036584	0.233071	0.331589	0.999264	0.787023	-0.10169	-0.19421	0.011462	-0.19369	0.250647	0.097953	0.529786	0.098563
NR1I3	-0.09821	-0.20146	0.155938	-0.28231	0.471444	0.140233	0.251112	0.035029	-0.06139	-0.39335	0.091819	-0.33178	0.344352	0.003758	0.723334	0.012989
NR1H4	0.042151	-0.1666	0.04404	-0.10467	0.757738	0.224102	0.747236	0.442657	0.10265	-0.10593	0.084049	-0.13939	0.751382	0.241757	0.708471	0.177768
NUP153	-0.09885	0.345826	-0.35489	0.092909	0.464429	0.009037	0.006752	0.491832	-0.09029	0.38772	-0.23738	0.23663	0.275348	0.99612	0.05819	0.943325
CCS	-0.00442	-0.17536	0.156939	0.078261	0.974193	0.200345	0.248046	0.566428	0.198082	-0.24731	0.295575	-0.02645	0.903943	0.050721	0.97429	0.431547
NR1D2	0.071549	0.118225	-0.22563	0.204599	0.596881	0.385497	0.091497	0.126844	-0.08593	0.187086	-0.11798	0.068029	0.285086	0.893431	0.220093	0.673363
CLEC2B	-0.0669	0.193581	-0.21848	0.365839	0.621007	0.152857	0.102518	0.005133	-0.20531	0.418161	-0.06455	0.407026	0.085527	0.998085	0.336777	0.997502
RBX1	0.041816	0.21535	-0.24954	0.168788	0.757442	0.110947	0.061204	0.209435	-0.07621	0.396832	-0.15005	0.362989	0.307357	0.996838	0.162595	0.993419
CDC42	0.004583	0.159432	-0.05777	-0.05384	0.973011	0.240515	0.669495	0.690805	0.180414	0.042211	0.146681	-0.11296	0.882181	0.608462	0.828974	0.230013
DOPEY2	0.015807	0.075262	-0.02816	-0.07589	0.907093	0.581436	0.835261	0.574768	0.012483	0.026367	-0.08764	-0.13188	0.532431	0.568253	0.285808	0.193922
FGFBP1	-0.09047	0.446889	-0.25418	-0.07114	0.503305	0.000555	0.056395	0.598999	0.096752	0.519562	-0.12738	0.217864	0.738799	0.999892	0.202191	0.927096
THOC1	-0.02431	0.267147	-0.2193	0.111095	0.857536	0.046548	0.101212	0.410668	0.245449	0.157523	-0.01948	0.057255	0.949929	0.852108	0.449461	0.647266
REC8	-0.1934	-0.30255	0.099697	-0.12248	0.14946	0.023426	0.460599	0.364063	-0.30403	-0.27974	0.038348	-0.16277	0.019977	0.029862	0.598743	0.139894
RCE1	-0.0612	0.163951	-0.07668	0.087419	0.651123	0.227273	0.570766	0.517878	-0.10513	0.408643	-0.25943	0.174124	0.243423	0.997595	0.04263	0.876431
HNRPDL	0.074286	0.191847	-0.13179	0.226558	0.582879	0.156638	0.328472	0.090133	0.282794	0.357045	-0.04653	0.30307	0.971564	0.992571	0.380739	0.97969
DMTF1	0.086644	0.165789	-0.04504	0.119364	0.521614	0.222033	0.739361	0.376489	0.139894	0.130035	0.13553	0.082075	0.82031	0.802721	0.809805	0.704017
PPP4R1	-0.02045	0.374978	-0.25288	0.021406	0.881101	0.004407	0.060052	0.875567	-0.20185	0.560467	-0.20535	0.323415	0.089275	0.999974	0.087986	0.985826
CDH1	-0.10278	0.203697	-0.18492	-0.12934	0.450957	0.135792	0.172443	0.342071	-0.25735	0.433173	-0.38283	0.170236	0.043942	0.998522	0.005161	0.868222
SLC12A6	-0.02475	0.37194	-0.26646	-0.17887	0.855018	0.004764	0.045118	0.183097	-0.24202	0.448683	-0.17023	0.216547	0.052568	0.999118	0.131792	0.925839
ROD1	-0.17639	0.435217	-0.37042	0.087403	0.189341	0.000802	0.004564	0.517956	-0.12776	0.55994	-0.23956	0.369247	0.198736	0.999974	0.056487	0.994221
KCNE2	0.104923	-0.14584	0.248611	-0.14938	0.437306	0.283493	0.062212	0.267418	0.080931	-0.30413	0.141623	-0.17799	0.703561	0.019943	0.823293	0.118311
DGCR2	0.067715	0.151078	-0.01869	0.091708	0.619983	0.270886	0.891224	0.501446	0.019562	0.46381	-0.11058	0.232985	0.551335	0.999416	0.234794	0.94041
CASP8AP2	0.008249	0.187194	-0.15055	0.188847	0.951442	0.16713	0.263624	0.159465	0.046718	0.18911	-0.03518	0.160787	0.621074	0.895931	0.40926	0.857118
SCO2	-0.22267	-0.0955	0.099697	0.052456	0.099043	0.48796	0.464743	0.701011	-0.15612	0.14021	-0.05295	0.066486	0.150078	0.823655	0.364877	0.669671

Table S2 Replication of Inhaled Corticosteroids in cross-sectional cohort of COPD patients with and without ICS treatment.

	chr	pos start	pos end	t-value	p-value
hsa-miR-320a	chr8	22102487	22102509	2.538	0.017
hsa-miR-320b-1	chr1	117214408	117214430	2.465	0.020
hsa-miR-320b-2	chr1	224444750	224444772	2.466	0.020
hsa-miR-320c-1	chr18	19263519	19263539	1.988	0.057
hsa-miR-320c-2	chr18	21901679	21901699	2.465	0.020
hsa-miR-320d	chr13	41301963	41301982	1.785	0.086

Abbreviations Chr=Chromosome, pos= position

Table S3. Top 20 Pathways associated with predicted miRNA gene targets

Pathway or process	p-value
miR-320d	
positive regulation of protein oligomerization	4 x 10 ⁻⁷
necrotic cell death	7 x 10 ⁻⁵
tumor necrosis factor-mediated signaling pathway	7 x 10 ⁻⁵
regulation of protein homooligomerization	10 x 10 ⁻⁵
regulation of protein oligomerization	10 x 10 ⁻⁵
cellular process involved in reproduction in multicellular organism	3 x 10 ⁻⁴
regulation of release of cytochrome c from mitochondria	4 x 10 ⁻⁴
regulation of JNK cascade	4 x 10 ⁻⁴
JNK cascade	4 x 10 ⁻⁴
release of cytochrome c from mitochondria	5 x 10 ⁻⁴
regulation of JUN kinase activity	5 x 10 ⁻⁴
positive regulation of release of cytochrome c from mitochondria	5 x 10 ⁻⁴
organ regeneration	9 x 10 ⁻⁴
positive regulation of JUN kinase activity	1 x 10 ⁻³
activation of pro-apoptotic gene products	1 x 10 ⁻³
regulation of protein serine/threonine kinase activity	2 x 10 ⁻³
regulation of stress-activated protein kinase signaling cascade	2 x 10 ⁻³
genitalia morphogenesis	2 x 10 ⁻³
chemokine production	2 x 10 ⁻³
suckling behavior	2 x 10 ⁻³
miR-339-3p	
positive regulation of transport	2 x 10 ⁻⁹
regulation of cellular localization	2 x 10 ⁻⁸
second-messenger-mediated signaling	2 x 10 ⁻⁸
cytosolic calcium ion transport	3 x 10 ⁻⁸
positive regulation of ion transport	4 x 10 ⁻⁸
calcium ion transport	4 x 10 ⁻⁸
calcium ion transport into cytosol	5 x 10 ⁻⁸

positive regulation of cell differentiation	6 x 10 ⁻⁸
regulation of secretion	6 x 10 ⁻⁸
elevation of cytosolic calcium ion concentration	7 x 10 ⁻⁸
negative regulation of transport	1 x 10 ⁻⁷
regulation of calcium ion transport	1 x 10 ⁻⁷
termination of signal transduction	1 x 10 ⁻⁷
regulation of homeostatic process	2 x 10 ⁻⁷
termination of G-protein coupled receptor signaling pathway	2 x 10 ⁻⁷
positive regulation of phosphorylation	2 x 10 ⁻⁷
negative regulation of G-protein coupled receptor protein signaling pathway	2 x 10 ⁻⁷
regulation of ion transport	2 x 10 ⁻⁷
positive regulation of protein phosphorylation	2 x 10 ⁻⁷
cytosolic calcium ion homeostasis	2 x 10 ⁻⁷

miR-708

calcium ion transport	6 x 10 ⁻²⁹
cellular ion homeostasis	7 x 10 ⁻²⁹
regulation of ion transport	1 x 10 ⁻²⁷
regulation of metal ion transport	5 x 10 ⁻²⁷
second-messenger-mediated signaling	8 x 10 ⁻²⁷
regulation of calcium ion transport	4 x 10 ⁻²⁶
regulation of phospholipase activity	4 x 10 ⁻²⁶
positive regulation of phospholipase C activity	2 x 10 ⁻²⁵
regulation of system process	5 x 10 ⁻²⁵
activation of phospholipase C activity	1 x 10 ⁻²⁴
positive regulation of lipase activity	2 x 10 ⁻²⁴
positive regulation of phospholipase activity	2 x 10 ⁻²⁴
regulation of lipase activity	3 x 10 ⁻²⁴
cellular metal ion homeostasis	1 x 10 ⁻²³
cellular calcium ion homeostasis	1 x 10 ⁻²³
cellular divalent inorganic cation homeostasis	2 x 10 ⁻²³
metal ion homeostasis	5 x 10 ⁻²³
divalent inorganic cation transport	1 x 10 ⁻²²
cAMP metabolic process	2 x 10 ⁻²²
blood circulation	3 x 10 ⁻²²

miR-155

viral reproduction	2 x 10 ⁻⁶³
nuclear transport	2 x 10 ⁻⁵⁹
nucleocytoplasmic transport	1 x 10 ⁻⁵⁸
protein targeting	8 x 10 ⁻⁵⁶
protein localization to organelle	2 x 10 ⁻⁵⁴
interspecies interaction between organisms	6 x 10 ⁻⁵⁴
positive regulation of I-kappaB kinase/NF-kappaB cascade	5 x 10 ⁻⁵³
regulation of I-kappaB kinase/NF-kappaB cascade	10 x 10 ⁻⁵³

negative regulation of cell cycle	3 x 10 ⁻⁵¹
viral reproductive process	5 x 10 ⁻⁵¹
I-kappaB kinase/NF-kappaB cascade	5 x 10 ⁻⁵⁰
regulation of cellular response to stress	2 x 10 ⁻⁴⁹
cell cycle arrest	1 x 10 ⁻⁴⁷
protein modification by small protein conjugation	1 x 10 ⁻⁴⁵
regulation of cell cycle arrest	1 x 10 ⁻⁴³
regulation of mitotic cell cycle	2 x 10 ⁻⁴³
regulation of cell cycle process	2 x 10 ⁻⁴³
RNA catabolic process	5 x 10 ⁻⁴²
protein modification by small protein conjugation or removal	7 x 10 ⁻⁴²
translation	1 x 10 ⁻⁴¹

Table S4. String pathway analysis

Pathway description	Observed gene count	false discovery rate
lipid metabolic process	16	0.000195
chronic inflammatory response	4	0.000614
cellular aldehyde metabolic process	5	0.000935
steroid metabolic process	8	0.000935
small molecule metabolic process	20	0.000935
arachidonic acid metabolic process	5	0.00203
response to organic cyclic compound	12	0.00257
neutral amino acid transport	4	0.00259
regulation of protein serine/threonine kinase activity	9	0.00421
terpenoid metabolic process	5	0.00431

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