

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

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

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

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

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

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

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

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

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

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

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

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

IL27	-0.44526519	0.01712498	-3.68793795	
DAPP1	0.44516543	0.01712498	3.68690750	yes
S1PR5	-0.44534242	0.01712498	-3.68873585	
FGF5	-0.44510225	0.01713169	-3.68625490	
POLR1B	0.44500792	0.01715579	3.68528077	
TMEM207	-0.44476285	0.01716144	-3.68275055	
ARID3A	-0.44474371	0.01716144	-3.68255307	
IFNGR1	0.44477022	0.01716144	3.68282665	
CAMK1G	-0.44489821	0.01716144	-3.68414794	
LOC645605	-0.44488948	0.01716144	-3.68405781	
UPRT	0.44461625	0.01720427	3.68123758	
SUCLG2	0.44455645	0.01720945	3.68062047	
SNORD116-15	-0.44449470	0.01721575	-3.67998338	
RAB39B	-0.44415127	0.01723970	-3.67644096	
ITIH3	-0.44415061	0.01723970	-3.67643416	
KCNA10	-0.44420104	0.01723970	-3.67695421	
BCL2L15	0.44437678	0.01723970	3.67876684	
PCBP2	0.44423171	0.01723970	3.67727052	
PRB4	-0.44428342	0.01723970	-3.67780379	
RASIP1	-0.44407340	0.01725493	-3.67563804	yes
LOC100132750	-0.44332531	0.01728437	-3.66792986	
TFG	0.44388827	0.01728437	3.67372959	
RPP38	0.44361307	0.01728437	3.67089374	
C1QTNF1	-0.44368543	0.01728437	-3.67163933	yes
TTC39B	0.44330825	0.01728437	3.66775412	yes
NMNAT2	-0.44349318	0.01728437	-3.66965868	
TMEM146	-0.44393046	0.01728437	-3.67416448	
LY6G6F	-0.44337858	0.01728437	-3.66847839	
LAMA1	-0.44370917	0.01728437	-3.67188389	
SPIN2B	-0.44328984	0.01728437	-3.66756456	
NFE2	-0.44375880	0.01728437	-3.67239530	yes
SEN2	0.44332754	0.01728437	3.66795277	
PAX8	-0.44328006	0.01728437	-3.66746384	
C8orf76	0.44340209	0.01728437	3.66872050	
SCRT2	-0.44347540	0.01728437	-3.66947557	
RBMXL2	-0.44312396	0.01732433	-3.66585676	
ZNF541	-0.44311098	0.01732433	-3.66572312	
LBX1	-0.44283396	0.01745240	-3.66287216	
OXSM	0.44274133	0.01747717	3.66191920	
EFNA2	-0.44268270	0.01748283	-3.66131606	
DNAJC5G	-0.44250460	0.01750128	-3.65948430	
LDHAL6B	-0.44252751	0.01750128	-3.65971986	
VPS4B	0.44257288	0.01750128	3.66018649	
ERCC3	0.44243065	0.01750224	3.65872389	
OR4F6	-0.44240633	0.01750224	-3.65847385	
ZNF213	-0.44227018	0.01755188	-3.65707407	
C19orf71	-0.44205478	0.01764661	-3.65486025	
UNQ6193	-0.44183859	0.01765110	-3.65263905	
CCDC42	-0.44190556	0.01765110	-3.65332707	
SLC35D3	-0.44185067	0.01765110	-3.65276318	

C5orf43	0.44195394	0.01765110	3.65382416	
ALPK1	0.44180711	0.01765110	3.65231574	yes
AMH	-0.44173504	0.01766491	-3.65157548	
RUNDC3A	-0.44160592	0.01768785	-3.65024945	
C14orf68	-0.44150703	0.01768785	-3.64923411	
LINGO4	-0.44150427	0.01768785	-3.64920586	
MARS2	0.44156299	0.01768785	3.64980867	
RP5-1022P6.2	0.44141544	0.01771138	3.64829390	
CLTA	0.44115103	0.01772019	3.64558033	
CRCP	0.44122951	0.01772019	3.64638559	
FEM1C	0.44128316	0.01772019	3.64693615	
KIAA1772	-0.44111667	0.01772019	-3.64522769	
FOXH1	-0.44131751	0.01772019	-3.64728872	
RAB9P1	-0.44117705	0.01772019	-3.64584725	
C17orf47	-0.44086705	0.01776746	-3.64266712	
C19orf31	-0.44079926	0.01776746	-3.64197195	
FLJ14100	-0.44080963	0.01776746	-3.64207828	
LRRC16B	-0.44090055	0.01776746	-3.64301069	
GABBR2	-0.44094824	0.01776746	-3.64349984	
LOC407835	-0.44069800	0.01777199	-3.64093361	
ACCN4	-0.44072174	0.01777199	-3.64117699	
PPP3R2	-0.44051072	0.01785227	-3.63901376	
TMEM85	0.44040046	0.01788874	3.63788365	
ADORA2B	0.44026124	0.01790031	3.63645715	
GSC	-0.44007634	0.01790031	-3.63456297	
DIMT1L	0.44004798	0.01790031	3.63427252	
KRT82	-0.44033220	0.01790031	-3.63718415	
ATR	0.43987257	0.01790031	3.63247615	
BTNL2	-0.43989599	0.01790031	-3.63271595	
TAF11	0.44011063	0.01790031	3.63491424	
COQ10B	0.43990691	0.01790031	3.63282786	
RETNLB	-0.43987846	0.01790031	-3.63253653	
ZNF835	-0.44023194	0.01790031	-3.63615691	
NEURL	-0.43988448	0.01790031	-3.63259815	
SNORD115-7	-0.43935368	0.01791091	-3.62716543	
SNORD115-32	-0.43949070	0.01791091	-3.62856733	
SLC36A2	-0.43979608	0.01791091	-3.63169300	
FOX51	-0.43952034	0.01791091	-3.62887072	
DDN	-0.43968361	0.01791091	-3.63054168	
RCOR2	-0.43946956	0.01791091	-3.62835110	yes
ERO1L	0.43948959	0.01791091	3.62855603	
LOC401296	-0.43942023	0.01791091	-3.62784627	
VWA5A	0.43959203	0.01791091	3.62960437	
CNOT6	0.43950985	0.01791091	3.62876328	yes
FAM62C	-0.43936305	0.01791091	-3.62726130	
MOCS3	0.43929253	0.01791516	3.62653983	yes
CECR6	-0.43925373	0.01791516	-3.62614298	
LOC492303	-0.43920865	0.01791516	-3.62568192	
POU3F3	-0.43912117	0.01791516	-3.62478724	
CD72	-0.43914518	0.01791516	-3.62503273	

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

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

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

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

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

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

MYADML	-0.42354713	0.02031777	-3.46749029	
GRM1	-0.42355567	0.02031777	-3.46757558	
KIAA1191	0.42324976	0.02046971	3.46452432	
ISL2	-0.42323629	0.02046971	-3.46438999	
IL31	-0.42303827	0.02057266	-3.46241574	
LOC100129858	-0.42144455	0.02058947	-3.44654802	
LOC100129890	-0.42202443	0.02058947	-3.45231703	
LOC100131763	-0.42112814	0.02058947	-3.44340234	
LOC100133131	-0.42281150	0.02058947	-3.46015547	
CDK7	0.42286840	0.02058947	3.46072253	
CHRM2	-0.42105495	0.02058947	-3.44267491	
FAM24A	-0.42232306	0.02058947	-3.45528993	
WFIKK2	-0.42162680	0.02058947	-3.44836059	
OSCAR	-0.42178010	0.02058947	-3.44988565	
UROC1	-0.42169855	0.02058947	-3.44907428	
OR2A14	-0.42201593	0.02058947	-3.45223239	
LDLRAD3	-0.42190869	0.02058947	-3.45116513	
MESP2	-0.42172781	0.02058947	-3.44936538	
ARL6IP6	0.42232487	0.02058947	3.45530796	
CCDC140	-0.42240338	0.02058947	-3.45608980	
GDF7	-0.42225959	0.02058947	-3.45465802	
FLJ36031	-0.42237396	0.02058947	-3.45579680	
FAM9A	-0.42137338	0.02058947	-3.44584033	
DYNC11I	-0.42164328	0.02058947	-3.44852450	
EDN1	-0.42115243	0.02058947	-3.44364372	yes
METTL7B	-0.42269188	0.02058947	-3.45896361	yes
GGN	-0.42115969	0.02058947	-3.44371592	
SLFNL1	-0.42176072	0.02058947	-3.44969280	
RANBP3L	-0.42285944	0.02058947	-3.46063325	
OR8J1	-0.42163237	0.02058947	-3.44841594	
FGL1	-0.42182535	0.02058947	-3.45033585	
RPIA	0.42277434	0.02058947	3.45978525	
FOXD2	-0.42178274	0.02058947	-3.44991194	
FBXO8	0.42110309	0.02058947	3.44315339	
GATA6	-0.42175773	0.02058947	-3.44966309	
GPR27	-0.42207845	0.02058947	-3.45285466	
TBK1	0.42099335	0.02058947	3.44206272	
GUCA2A	-0.42212304	0.02058947	-3.45329853	
ZAR1	-0.42148048	0.02058947	-3.44690526	
KLK3	-0.42155597	0.02058947	-3.44765609	
KRTAP10-1	-0.42239303	0.02058947	-3.45598670	
SPDYC	-0.42176890	0.02058947	-3.44977424	
RPL7P48	-0.42229774	0.02058947	-3.45503789	
FLJ44817	-0.42110055	0.02058947	-3.44312806	
C5orf40	-0.42276196	0.02058947	-3.45966185	
ART1	-0.42172980	0.02058947	-3.44938518	
ATIC	0.42125946	0.02058947	3.44470772	
TMED7	0.42107541	0.02058947	3.44287826	
APTX	0.42208361	0.02058947	3.45290602	yes
WDR70	0.42155263	0.02058947	3.44762284	

ANO1	-0.42199572	0.02058947	-3.45203121	
PSMA1	0.42161566	0.02058947	3.44824981	
MEIS3	-0.42134232	0.02058947	-3.44553153	
PSMC5	0.42186575	0.02058947	3.45073787	
KIAA1239	-0.42096926	0.02058947	-3.44182339	
SNORA3	-0.42173196	0.02058947	-3.44940670	
RTN2	-0.42098557	0.02058947	-3.44198544	
CARD9	-0.42207361	0.02058947	-3.45280655	
LCAP	-0.42203135	0.02058947	-3.45238583	
FABP12	-0.42253626	0.02058947	-3.45741325	
ST6GAL1	0.42170095	0.02058947	3.44909816	
SMO	-0.42099077	0.02058947	-3.44203708	
VIPR2	-0.42130644	0.02058947	-3.44517480	
FRMD1	-0.42125121	0.02058947	-3.44462568	
CALN1	-0.42194136	0.02058947	-3.45149022	
SCARF1	-0.42293358	0.02058947	-3.46137217	
MCART1	-0.42255473	0.02058947	-3.45759727	
STXBP5L	-0.42281096	0.02058947	-3.46015018	
SETDB1	0.42107258	0.02058947	3.44285016	
ANGPT4	-0.42091412	0.02060446	-3.44127544	
DENND1B	0.42085802	0.02060957	3.44071811	
ELOVL5	0.42081297	0.02060957	3.44027046	
AMMECR1L	0.42081583	0.02060957	3.44029894	
FAM175B	0.42066060	0.02066589	3.43875695	
TULP1	-0.42066215	0.02066589	-3.43877239	
NPAS1	-0.42062245	0.02067042	-3.43837807	
CHRN3	-0.42043950	0.02072602	-3.43656133	
COL5A1	-0.42028930	0.02072602	-3.43507020	yes
ANKRD1	-0.42040978	0.02072602	-3.43626619	
GPD1	-0.42043923	0.02072602	-3.43655858	yes
RAX	-0.42037776	0.02072602	-3.43594831	
ESSPL	-0.42024687	0.02072602	-3.43464904	
GALNTL6	-0.42022581	0.02072602	-3.43443992	
PSMB1	0.42042144	0.02072602	3.43638201	
RHO	-0.42025924	0.02072602	-3.43477176	
MGC13057	-0.42033037	0.02072602	-3.43547790	
RPS7P4	-0.42006259	0.02077063	-3.43282013	
EFHA1	0.42007873	0.02077063	3.43298022	
TPT1	0.42007524	0.02077063	3.43294562	
RPSA	0.41998177	0.02078299	3.43201815	
OR14J1	-0.42000885	0.02078299	-3.43228687	
LASS1	-0.41958177	0.02082605	-3.42805063	
LILRA3	-0.41942935	0.02082605	-3.42653943	
CHRM4	-0.41939786	0.02082605	-3.42622729	
ABHD3	0.41973805	0.02082605	3.42960048	
ITGB3BP	0.41961833	0.02082605	3.42841313	
GLI1	-0.41985604	0.02082605	-3.43077080	yes
GPR3	-0.41939812	0.02082605	-3.42622984	
HSD3B1	-0.41981014	0.02082605	-3.43031546	
LYN	0.41945761	0.02082605	3.42681957	

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

PSRC1	-0.41753943	0.02119433	-3.40783064	
DPYSL4	-0.41743853	0.02121792	-3.40683331	
C1orf65	-0.41740713	0.02121792	-3.40652299	
UPK3A	-0.41738582	0.02121792	-3.40631235	
KCNH6	-0.41741719	0.02121792	-3.40662232	
SYDE1	-0.41734783	0.02122359	-3.40593695	yes
CARKD	0.41724985	0.02126730	3.40496875	
CPLX1	-0.41717868	0.02127195	-3.40426560	
ZNF385C	-0.41715561	0.02127195	-3.40403759	
EVX1	-0.41720603	0.02127195	-3.40453577	
LRRC9	-0.41712324	0.02127414	-3.40371787	
C1orf161	-0.41691538	0.02127470	-3.40166472	
CSN1S1	-0.41688454	0.02127470	-3.40136022	
RNF149	0.41692687	0.02127470	3.40177825	
TLX2	-0.41689303	0.02127470	-3.40144405	
KRTDAP	-0.41686302	0.02127470	-3.40114769	
FXD3	0.41706037	0.02127470	3.40309676	
C1orf56	-0.41702275	0.02127470	-3.40272517	
NECAB1	-0.41690300	0.02127470	-3.40154247	
HTR3B	-0.41694129	0.02127470	-3.40192069	
ARPM1	-0.41681525	0.02128679	-3.40067599	
GPC2	-0.41673169	0.02130342	-3.39985095	
MRPS35	0.41675140	0.02130342	3.40004553	
RAPGEF3	-0.41655033	0.02134804	-3.39806067	yes
ZDHHC8P	-0.41652403	0.02134804	-3.39780108	
PNPLA5	-0.41644689	0.02134804	-3.39703974	
FAAH2	0.41647791	0.02134804	3.39734584	
QPRT	-0.41643284	0.02134804	-3.39690111	
PLSCR1	0.41648289	0.02134804	3.39739501	
IL20RA	0.41652701	0.02134804	3.39783048	
JHDM1D	0.41659521	0.02134804	3.39850365	yes
F7	-0.41637338	0.02136774	-3.39631428	
DLGAP4	-0.41617221	0.02138729	-3.39432960	
EGLN1	-0.41620606	0.02138729	-3.39466352	
PPM2C	0.41623057	0.02138729	3.39490530	
SLC6A2	-0.41618461	0.02138729	-3.39445189	
NRSN2	-0.41628364	0.02138729	-3.39542884	
CHST1	-0.41620358	0.02138729	-3.39463898	
CHL1	0.41601609	0.02146867	3.39278971	
SLC17A2	-0.41522677	0.02150550	-3.38500985	
C3orf24	-0.41511398	0.02150550	-3.38389890	
CNGA2	-0.41520359	0.02150550	-3.38478143	
RLBP1L2	-0.41557228	0.02150550	-3.38841411	
IRX2	-0.41535230	0.02150550	-3.38624645	
ADAMTS16	-0.41583784	0.02150550	-3.39103194	
LRRC55	-0.41550047	0.02150550	-3.38770642	
EFR3A	0.41569248	0.02150550	3.38959891	
KIAA1024	-0.41509019	0.02150550	-3.38366458	
LYSMD2	-0.41514482	0.02150550	-3.38420259	
FBXO10	-0.41588715	0.02150550	-3.39151813	yes

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

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

GYPB	-0.41199683	0.02209171	-3.35327000	
UROS	0.41196653	0.02209437	3.35297297	
NTRK2	-0.41190688	0.02211608	-3.35238831	
LRRC8B	0.41187385	0.02212054	3.35206459	yes
ATP6AP2	0.41182098	0.02213789	3.35154640	
FAM47A	-0.41165454	0.02219516	-3.34991534	
GDF2	-0.41165820	0.02219516	-3.34995127	
LIPA	0.41170625	0.02219516	3.35042206	
FBRSL1	-0.41162825	0.02219529	-3.34965782	yes
LOC100130557	-0.41153374	0.02220713	-3.34873185	
LOC390282	-0.41152131	0.02220713	-3.34861011	
NEUROD1	-0.41152268	0.02220713	-3.34862354	
ACN9	0.41150043	0.02220713	3.34840553	
SALL2	-0.41147990	0.02220713	-3.34820448	
ETF1	0.41144306	0.02221420	3.34784361	
TUBGCP3	0.41133746	0.02224762	3.34680937	
KCNK15	-0.41131391	0.02224762	-3.34657867	
ADAM17	0.41132626	0.02224762	3.34669970	
PHOX2A	-0.41127506	0.02225164	-3.34619828	
MGC50273	-0.41125591	0.02225164	-3.34601076	
SCAND3	-0.41108319	0.02228548	-3.34431966	
TRIM71	-0.41110109	0.02228548	-3.34449484	
KLHL34	-0.41107479	0.02228548	-3.34423744	yes
CHMP2B	0.41114431	0.02228548	3.34491800	yes
ASCL5	-0.41111722	0.02228548	-3.34465283	
CCDC85A	-0.41090314	0.02230908	-3.34255719	
OR52E2	-0.41100267	0.02230908	-3.34353143	
OR52J3	-0.41093376	0.02230908	-3.34285690	
PDHA2	-0.41088410	0.02230908	-3.34237083	
SOX2	0.41089080	0.02230908	3.34243648	
OLFM2	-0.41092568	0.02230908	-3.34277779	
FIGN	-0.41084407	0.02231843	-3.34197916	
P2RX3	-0.41078491	0.02234030	-3.34140019	
PRKAG3	-0.41071897	0.02234986	-3.34075493	
ADAMTSL2	-0.41072518	0.02234986	-3.34081578	
LRRN2	-0.41052510	0.02239872	-3.33885832	
DLAT	0.41060782	0.02239872	3.33966748	yes
RNF215	-0.41041416	0.02239872	-3.33777327	
IFNA8	-0.41046070	0.02239872	-3.33822838	
KRTAP26-1	-0.41050077	0.02239872	-3.33862036	
RGS7	-0.41047585	0.02239872	-3.33837658	
RPS6KA3	0.41054467	0.02239872	3.33904973	
TRIM46	-0.41043728	0.02239872	-3.33799932	
RNF34	0.41050413	0.02239872	3.33865322	
NUPL2	0.41033838	0.02240438	3.33703219	
ASB13	0.41032910	0.02240438	3.33694145	
MIXL1	-0.41037251	0.02240438	-3.33736587	
APC2	-0.40993939	0.02248132	-3.33313156	
UBE2E3	-0.40992411	0.02248132	-3.33298230	
DLL3	-0.40989214	0.02248132	-3.33266984	

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

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

FLJ10404	-0.40729555	0.02284680	-3.30734314	yes
PPM1B	0.40670580	0.02284680	3.30160431	
MRPS10	0.40675755	0.02284680	3.30210764	yes
PAK7	-0.40727679	0.02284680	-3.30716052	
KCNT1	-0.40733297	0.02284680	-3.30770749	
NKX2-4	-0.40712422	0.02284680	-3.30567547	
SLC4A3	-0.40679788	0.02284680	-3.30249995	
TCEB1	0.40695542	0.02284680	3.30403270	
UBE2A	0.40669168	0.02284680	3.30146693	
RAB7A	0.40738241	0.02284680	3.30818883	
YIPF5	0.40699362	0.02284680	3.30440445	
SLCO5A1	-0.40709473	0.02284680	-3.30538839	
OR1A1	-0.40739972	0.02284680	-3.30835731	
NEURL3	-0.40712473	0.02284680	-3.30568035	
CNOT8	0.40719968	0.02284680	3.30640986	
CLINT1	0.40691182	0.02284680	3.30360852	
KIAA0427	-0.40673015	0.02284680	-3.30184110	yes
MFAP3L	-0.40709188	0.02284680	-3.30536070	
GCHFR	-0.40663461	0.02286890	-3.30091187	
PSMB11	-0.40650753	0.02292173	-3.29967598	
C7orf61	-0.40651389	0.02292173	-3.29973787	
LINS1	0.40647448	0.02292800	3.29935462	
PIWIL1	-0.40640870	0.02295596	-3.29871508	
ZNRF3	-0.40637493	0.02296274	-3.29838673	
VAX1	-0.40634524	0.02296368	-3.29809816	
MKRN2	0.40631673	0.02296368	3.29782095	
LCN10	-0.40630298	0.02296368	-3.29768730	yes
LOC100133367	-0.40609072	0.02296726	-3.29562420	
DNM1L	0.40604871	0.02296726	3.29521591	
CDO1	-0.40581774	0.02296726	-3.29297191	
CHRNA2	-0.40576327	0.02296726	-3.29244274	
FAM55A	-0.40555318	0.02296726	-3.29040239	
C7orf31	-0.40577859	0.02296726	-3.29259159	
CD300LG	-0.40598524	0.02296726	-3.29459923	
PATE1	-0.40562317	0.02296726	-3.29108203	
GRASP	-0.40574518	0.02296726	-3.29226708	yes
DTX1	-0.40568744	0.02296726	-3.29170626	
FCN2	-0.40565139	0.02296726	-3.29135610	
KIAA0802	-0.40585716	0.02296726	-3.29335486	
STX12	0.40614142	0.02296726	3.29611696	
REXO2	0.40578394	0.02296726	3.29264356	
SULT1C4	-0.40587651	0.02296726	-3.29354278	
GRIK2	0.40579275	0.02296726	3.29272909	
HBQ1	-0.40589665	0.02296726	-3.29373851	
SMTNL2	-0.40609333	0.02296726	-3.29564957	
ZACN	-0.40593565	0.02296726	-3.29411734	
LPL	-0.40616492	0.02296726	-3.29634528	
CERCAM	-0.40557606	0.02296726	-3.29062455	
TBCCD1	0.40593046	0.02296726	3.29406698	
MRS2	0.40589200	0.02296726	3.29369333	

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

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

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

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

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

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

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

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

PSG9	-0.39322705	0.02576963	-3.17176264	
TMBIM6	0.39332781	0.02576963	3.17272407	
LOC727726	0.39325333	0.02576963	3.17201334	
HIST1H2BN	-0.39321382	0.02576963	-3.17163642	
B4GALT5	0.39320943	0.02576963	3.17159447	
CD33	-0.39342203	0.02576963	-3.17362323	
MTNR1B	-0.39317399	0.02577660	-3.17125640	
WBSCR17	-0.39314076	0.02578682	-3.17093936	
LOC285550	0.39311850	0.02578921	3.17072700	
DBNDD1	-0.39309267	0.02579415	-3.17048054	
ASB2	-0.39304652	0.02581363	-3.17004032	
FOXO4	-0.39302313	0.02581684	-3.16981717	
APOBEC2	-0.39286744	0.02582759	-3.16833231	
COPB1	0.39294293	0.02582759	3.16905227	
LOC441179	-0.39289783	0.02582759	-3.16862209	
PARD6A	-0.39287976	0.02582759	-3.16844984	
LOC100133422	0.39297654	0.02582759	3.16937285	yes
AAACL1	0.39296661	0.02582759	3.16927812	
hCG_1781062	0.39285724	0.02582759	3.16823503	
SLC30A2	-0.39289451	0.02582759	-3.16859051	
DUSP8	-0.39279186	0.02586089	-3.16761161	
PRDM14	-0.39276900	0.02586379	-3.16739360	
PSMC6	0.39269240	0.02587607	3.16666327	
RAB3A	-0.39269318	0.02587607	-3.16667068	
TMEM121	-0.39267668	0.02587607	-3.16651335	
C12orf65	-0.39269125	0.02587607	-3.16665231	
FGF19	-0.39261705	0.02590534	-3.16594484	
SEMA3A	0.39258452	0.02591520	3.16563478	yes
ACTL7B	-0.39252721	0.02592211	-3.16508850	
IDI1	0.39251281	0.02592211	3.16495118	
RPGRIP1	-0.39254065	0.02592211	-3.16521657	
CGNL1	-0.39249992	0.02592211	-3.16482829	
B3GNT2	0.39236322	0.02595519	3.16352552	
GNB1	0.39237651	0.02595519	3.16365216	
LOC100133408	-0.39238642	0.02595519	-3.16374662	
C21orf125	-0.39239296	0.02595519	-3.16380888	
DYNLT3	0.39236026	0.02595519	3.16349728	
MAN1A2	0.39230400	0.02597294	3.16296111	
LRIT1	-0.39229816	0.02597294	-3.16290546	
C21orf93	-0.39221632	0.02598971	-3.16212569	
ANXA2	0.39218353	0.02598971	3.16181326	yes
LOC375295	-0.39225290	0.02598971	-3.16247426	yes
PIPOX	-0.39223527	0.02598971	-3.16230620	
CDC23	0.39218155	0.02598971	3.16179445	
ACTL7A	-0.39215958	0.02599211	-3.16158513	
ZNF780A	0.39210295	0.02599270	3.16104557	
POMC	-0.39211977	0.02599270	-3.16120580	
KIAA0391	0.39210827	0.02599270	3.16109630	
RBM14	0.39200773	0.02602716	3.16013854	
PURG	-0.39199651	0.02602716	-3.16003169	

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

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

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

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

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

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

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

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

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

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

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

VASN	-0.37831254	0.02936418	-3.03090391	yes
FLT3LG	-0.37832081	0.02936418	-3.03098125	
PDE6H	-0.37830468	0.02936418	-3.03083048	
C1orf200	-0.37835064	0.02936418	-3.03126019	
HMGA1	-0.37828916	0.02936451	-3.03068536	
JDP2	-0.37823378	0.02937081	-3.03016758	
GPR110	0.37822076	0.02937081	3.03004592	
SCD5	-0.37824514	0.02937081	-3.03027379	
OR6K2	-0.37826273	0.02937081	-3.03043828	
OR5F1	-0.37818461	0.02938721	-3.02970796	
VWCE	-0.37812794	0.02939822	-3.02917817	
ADAM2	-0.37812530	0.02939822	-3.02915355	
PTH	-0.37815398	0.02939822	-3.02942161	
RNF6	0.37809561	0.02940961	3.02887599	yes
H2BFM	-0.37803506	0.02943737	-3.02831001	
WFDC1	-0.37801485	0.02943737	-3.02812121	yes
SILV	-0.37802831	0.02943737	-3.02824698	
TARDBP	0.37797181	0.02945919	3.02771892	
PDE4DIP	-0.37794412	0.02946907	-3.02746010	
SNORA38B	-0.37784428	0.02951850	-3.02652723	
HEATR5A	0.37783678	0.02951850	3.02645710	
SCN2B	-0.37783569	0.02951850	-3.02644696	
PAR6B	0.37781775	0.02952080	3.02627929	yes
TXNIP	0.37773606	0.02953616	3.02551603	
UNQ6490	-0.37772055	0.02953616	-3.02537112	
YY2	-0.37769320	0.02953616	-3.02511564	
LOC728450	-0.37770001	0.02953616	-3.02517923	
ZNF146	0.37771193	0.02953616	3.02529063	
ADAM12	-0.37776547	0.02953616	-3.02579084	
HAND1	-0.37775101	0.02953616	-3.02565568	
MATN1	-0.37767514	0.02953858	-3.02494689	
BEND6	-0.37759938	0.02958607	-3.02423921	
TFAP2B	-0.37757630	0.02959242	-3.02402358	
CDH16	-0.37755358	0.02959849	-3.02381142	
OR52K2	-0.37751067	0.02962037	-3.02341060	
SLC2A7	-0.37747044	0.02964015	-3.02303493	
IRAK3	0.37740683	0.02964350	3.02244087	
TMPRSS6	-0.37739154	0.02964350	-3.02229807	
LCE2C	-0.37740245	0.02964350	-3.02239995	
CNOT2	0.37743207	0.02964350	3.02267658	
SOAT2	-0.37744484	0.02964350	-3.02279578	
NPY1R	-0.37736987	0.02964879	-3.02209565	
GPHA2	-0.37727177	0.02966254	-3.02117967	
SNORD57	-0.37726295	0.02966254	-3.02109734	
RPS12P23	-0.37729859	0.02966254	-3.02143006	
APOC2	-0.37728064	0.02966254	-3.02126247	
FSCB	-0.37731540	0.02966254	-3.02158703	
CLOCK	0.37729872	0.02966254	3.02143130	
C3orf43	-0.37716865	0.02969643	-3.02021693	
SERPINC1	-0.37718913	0.02969643	-3.02040810	

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

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

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

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

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

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

ANO7	-0.37038523	0.03170190	-2.95716948	
CASS4	-0.37039226	0.03170190	-2.95723451	
FUBP1	0.37042525	0.03170190	2.95753982	
TMEM160	-0.37036389	0.03170826	-2.95697202	
SLC19A1	-0.37034377	0.03171364	-2.95678580	
OR9G4	-0.37027199	0.03173913	-2.95612168	
TNR	-0.37028659	0.03173913	-2.95625675	
CHST10	-0.37028081	0.03173913	-2.95620334	yes
SCFD1	0.37024220	0.03174134	2.95584605	
MRPL34	-0.37024763	0.03174134	-2.95589629	
RNF139	0.37020676	0.03174760	2.95551819	
ADAMTS15	-0.37019804	0.03174760	-2.95543756	
FANCF	0.37019394	0.03174760	2.95539961	yes
COL22A1	-0.37012822	0.03177039	-2.95479167	
MYOD1	-0.37014434	0.03177039	-2.95494079	
FZD8	-0.37012557	0.03177039	-2.95476714	
HBS1L	0.37010597	0.03177538	2.95458580	
BSND	-0.37007689	0.03178815	-2.95431686	
CLEC4D	-0.37004869	0.03180020	-2.95405604	
LCN9	-0.37002333	0.03180993	-2.95382144	
OR4C3	-0.36992901	0.03181788	-2.95294907	
IFNAR2	0.36992527	0.03181788	2.95291448	
FAM49B	0.36989764	0.03181788	2.95265897	
LOC55908	-0.36987215	0.03181788	-2.95242328	
CHST7	-0.36995665	0.03181788	-2.95320473	
MRPS14	0.36998432	0.03181788	2.95346059	
SEL1L	0.36991335	0.03181788	2.95280424	
CREB3L2	-0.36985187	0.03181788	-2.95223576	
SPIB	-0.36985281	0.03181788	-2.95224440	
BRD3	-0.36986392	0.03181788	-2.95234721	
ABHD13	0.36991395	0.03181788	2.95280986	
RNF7	0.36985748	0.03181788	2.95228762	
MED4	0.36982645	0.03182771	2.95200065	
SC65	-0.36981072	0.03182958	-2.95185521	
IVNS1ABP	0.36968836	0.03183393	2.95072387	yes
TRIM9	-0.36968123	0.03183393	-2.95065800	
C3orf45	-0.36966944	0.03183393	-2.95054899	
AGER	-0.36971687	0.03183393	-2.95098750	
OR1C1	-0.36973026	0.03183393	-2.95111128	
PKLR	-0.36963450	0.03183393	-2.95022600	
C10orf18	0.36963093	0.03183393	2.95019298	
ACSM5	-0.36973794	0.03183393	-2.95118233	
BEGAIN	-0.36977694	0.03183393	-2.95154291	
CLRN1	-0.36966982	0.03183393	-2.95055248	
RUFY1	0.36963162	0.03183393	2.95019933	
LGI1	-0.36965535	0.03183393	-2.95041869	
KIAA0196	0.36979144	0.03183393	2.95167695	
LOC100128364	-0.36956907	0.03185570	-2.94962116	
PDIK1L	0.36955287	0.03185570	2.94947136	yes
C14orf100	0.36958123	0.03185570	2.94973349	

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

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

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

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

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

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

CD164	0.36269161	0.03438712	2.88632513	
GABBR1	-0.36267886	0.03438744	-2.88620828	
CYBASC3	0.36264340	0.03440747	2.88588334	
UCP1	-0.36258244	0.03444965	-2.88532481	
RPL23AP12	-0.36256021	0.03445822	-2.88512112	
HES2	-0.36253362	0.03447057	-2.88487749	
MAST1	-0.36250727	0.03448272	-2.88463614	
HNRNPA0	0.36244818	0.03449110	2.88409478	
ANK3	0.36248126	0.03449110	2.88439777	yes
SUPT4H1	0.36244998	0.03449110	2.88411122	
VAMP2	-0.36245219	0.03449110	-2.88413153	
ESRRA	-0.36232933	0.03458381	-2.88300613	
GTF3A	0.36228595	0.03459590	2.88260877	
GAL3ST3	-0.36229284	0.03459590	-2.88267193	
RFT1	0.36227841	0.03459590	2.88253973	
OR4K15	-0.36226234	0.03459915	-2.88239250	
TM6SF2	-0.36212148	0.03471134	-2.88110256	
COL4A3BP	0.36208593	0.03473163	2.88077705	
GLRX3	0.36207301	0.03473213	2.88065878	
PDILT	-0.36204493	0.03474590	-2.88040161	
LOC100133075	-0.36203097	0.03474732	-2.88027380	
WDR41	0.36200570	0.03475864	2.88004244	
TBR1	-0.36182386	0.03478177	-2.87837784	
MASP2	-0.36183487	0.03478177	-2.87847858	
IL17RE	-0.36193288	0.03478177	-2.87937580	
OR8K5	-0.36190784	0.03478177	-2.87914651	
C17orf88	-0.36191193	0.03478177	-2.87918397	
ATP2C1	0.36185205	0.03478177	2.87863585	
OR51V1	-0.36183656	0.03478177	-2.87849402	
YIPF1	0.36184561	0.03478177	2.87857688	
RBP4	-0.36195731	0.03478177	-2.87959942	
CTXN3	-0.36189747	0.03478177	-2.87905161	
LOC619207	-0.36187366	0.03478177	-2.87883364	
TROVE2	0.36181924	0.03478177	2.87833550	
CUL5	0.36190277	0.03478177	2.87910013	
FLJ20464	-0.36180103	0.03478695	-2.87816880	
RBM47	0.36174299	0.03482240	2.87763760	
MRPL49	0.36173598	0.03482240	2.87757340	
COL9A2	-0.36170199	0.03484142	-2.87726239	
LGI4	-0.36166303	0.03485405	-2.87690581	
MFGE8	-0.36166736	0.03485405	-2.87694540	
NCR1	-0.36163528	0.03486762	-2.87665182	
NRGN	-0.36158250	0.03489240	-2.87616879	yes
RAB5A	0.36158560	0.03489240	2.87619723	
NXP2	-0.36149344	0.03490874	-2.87535391	
PLAC8L1	-0.36149569	0.03490874	-2.87537447	
TRIM65	-0.36153481	0.03490874	-2.87573249	
ERAP1	0.36151024	0.03490874	2.87550759	
GHDC	-0.36149035	0.03490874	-2.87532561	
BAG5	0.36150338	0.03490874	2.87544489	

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

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

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

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

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

DDX20	0.35598123	0.03717238	2.82509036	
C20orf160	-0.35597201	0.03717238	-2.82500657	yes
BCL9L	-0.35592443	0.03720547	-2.82457421	
KIAA1012	0.35584214	0.03727054	2.82382643	yes
BET3L	-0.35578181	0.03727522	-2.82327828	
SEP12	-0.35572163	0.03727522	-2.82273154	
ARG1	-0.35575390	0.03727522	-2.82302476	
OR5T3	-0.35578854	0.03727522	-2.82333945	
MAN2A1	0.35573006	0.03727522	2.82280816	
PNLIPRP1	-0.35575994	0.03727522	-2.82307960	
HIF1AN	0.35578508	0.03727522	2.82330805	
FAM135A	0.35580945	0.03727522	2.82352940	
SFTP8	-0.35573559	0.03727522	-2.82285840	
C8G	-0.35577442	0.03727522	-2.82321115	
VPS29	0.35569475	0.03728935	2.82248734	
MMP21	-0.35560640	0.03729042	-2.82168479	
CNOT1	0.35560658	0.03729042	2.82168645	yes
ZCCHC16	-0.35564649	0.03729042	-2.82204894	
MPP2	-0.35565209	0.03729042	-2.82209988	yes
SNTG1	-0.35561701	0.03729042	-2.82178116	
TCEB1P3	-0.35565265	0.03729042	-2.82210494	
CCT6A	0.35560146	0.03729042	2.82163992	
S1PR2	-0.35561283	0.03729042	-2.82174320	
RNASEH1	0.35556047	0.03729639	2.82126762	
SLC13A5	-0.35556223	0.03729639	-2.82128362	
HCRTR2	-0.35557821	0.03729639	-2.82142873	
NOL9	0.35553720	0.03730724	2.82105623	
LOC552889	0.35547961	0.03733911	2.82053315	yes
WDR12	0.35548396	0.03733911	2.82057266	
ACOT9	0.35544892	0.03735680	2.82025444	
ZNF234	0.35543605	0.03735808	2.82013755	
SLC29A1	-0.35537709	0.03735833	-2.81960217	
ERCC6	0.35535995	0.03735833	2.81944654	
CHRD12	-0.35539826	0.03735833	-2.81979439	
AMHR2	-0.35536234	0.03735833	-2.81946823	
KPNA3	0.35538982	0.03735833	2.81971775	
LTF	-0.35535546	0.03735833	-2.81940574	
SFMBT1	0.35536710	0.03735833	2.81951140	yes
NBR1	0.35533232	0.03735852	2.81919565	
RBM4	0.35533494	0.03735852	2.81921940	
ASB7	0.35530224	0.03736513	2.81892251	
C17orf50	-0.35530785	0.03736513	-2.81897344	
STK35	0.35525097	0.03736967	2.81845691	
ZNF784	-0.35527834	0.03736967	-2.81870545	
RCAN1	-0.35523963	0.03736967	-2.81835394	
GCH1	0.35523957	0.03736967	2.81835344	
VAT1L	-0.35524888	0.03736967	-2.81843797	
SMURF2	0.35522865	0.03736967	2.81825431	
C14orf126	0.35519963	0.03737534	2.81799080	
LPPR2	-0.35520536	0.03737534	-2.81804287	

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

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

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

PGF	-0.35259839	0.03822003	-2.79441143	yes
PRSS21	-0.35249142	0.03823910	-2.79344340	
ENPEP	-0.35252388	0.03823910	-2.79373713	yes
MRGPRX1	-0.35254105	0.03823910	-2.79389249	
CHIC2	0.35250166	0.03823910	2.79353601	
SAMD7	-0.35248340	0.03823910	-2.79337082	
ANKRD34C	-0.35252421	0.03823910	-2.79374014	
MUC6	-0.35250202	0.03823910	-2.79353928	
MOBKL1B	0.35253096	0.03823910	2.79380121	
STC2	-0.35245720	0.03825328	-2.79313372	
FRS3	-0.35242062	0.03827718	-2.79280273	
FAR1	0.35237402	0.03831047	2.79238107	
IRX1	-0.35235066	0.03832201	-2.79216972	
PTH2	-0.35225925	0.03838700	-2.79134272	
NUDT12	0.35225960	0.03838700	2.79134589	
DNMT3L	-0.35222747	0.03840647	-2.79105518	
IQCA1L	-0.35220260	0.03841946	-2.79083027	
HOXD8	-0.35215115	0.03845742	-2.79036480	
CCDC124	-0.35211630	0.03846632	-2.79004964	
DECR1	0.35208660	0.03846632	2.78978101	
KIAA1383	-0.35210228	0.03846632	-2.78992276	
NSMAF	0.35209905	0.03846632	2.78989361	
GALR3	-0.35209366	0.03846632	-2.78984483	
FTMT	-0.35207143	0.03847024	-2.78964373	
UTP3	0.35203777	0.03849152	2.78933935	
CCDC28B	-0.35201316	0.03850432	-2.78911671	
LAMC3	-0.35184023	0.03850902	-2.78755291	
USH1G	-0.35191322	0.03850902	-2.78821295	
ADAM3A	-0.35184666	0.03850902	-2.78761104	
UGT3A2	-0.35187637	0.03850902	-2.78787976	
GABRD	-0.35188298	0.03850902	-2.78793946	
GRM4	-0.35197148	0.03850902	-2.78873983	
CLEC4G	-0.35193609	0.03850902	-2.78841974	
LOC389895	-0.35186440	0.03850902	-2.78777144	
TRIM61	-0.35192384	0.03850902	-2.78830896	
ZNF701	0.35197765	0.03850902	2.78879562	
FOXL2	-0.35194355	0.03850902	-2.78848721	
SYP	-0.35185696	0.03850902	-2.78770416	
SNORD6	0.35196760	0.03850902	2.78870466	
TMEM87B	0.35185303	0.03850902	2.78766866	
TAF1B	0.35184562	0.03850902	2.78760162	
SFRS2IP	0.35183249	0.03850902	2.78748296	
PROKR1	-0.35182007	0.03851040	-2.78737063	
HS3ST2	-0.35180765	0.03851177	-2.78725834	
C11orf73	0.35175764	0.03854848	2.78680615	
C15orf32	-0.35161991	0.03866782	-2.78556104	
ASB17	-0.35159759	0.03867854	-2.78535923	
CLDN18	-0.35157924	0.03868423	-2.78519336	
NUP54	0.35156966	0.03868423	2.78510680	
CLUU1OS	-0.35153237	0.03870907	-2.78476973	

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

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

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

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

FLJ33544	-0.34721209	0.04080220	-2.74582053	
NAT6	-0.34717843	0.04081246	-2.74551789	
SLITRK1	-0.34714840	0.04082765	-2.74524783	
FLJ25404	-0.34714191	0.04082765	-2.74518948	
OBP2A	-0.34712523	0.04083369	-2.74503950	
TPP2	0.34710510	0.04084312	2.74485854	
OR10G2	-0.34705496	0.04086138	-2.74440768	
NSUN3	0.34706318	0.04086138	2.74448161	
VGf	-0.34705860	0.04086138	-2.74444042	
SPINK5L2	-0.34702709	0.04087843	-2.74415718	
UBE2D1	0.34701373	0.04088123	2.74403700	
ADAMTS18	-0.34698670	0.04088169	-2.74379407	
IMPAD1	0.34697125	0.04088169	2.74365510	
PPP2R5B	-0.34697213	0.04088169	-2.74366308	
ERBB2IP	0.34698836	0.04088169	2.74380894	
HHAT	0.34693360	0.04090837	2.74331663	
SLC17A3	-0.34688327	0.04092689	-2.74286427	
OR5R1	-0.34689375	0.04092689	-2.74295843	
PDZD4	-0.34690266	0.04092689	-2.74303856	
STK32B	-0.34686305	0.04093646	-2.74268247	
ZNF766	0.34682741	0.04096119	2.74236212	
OR12D2	-0.34674659	0.04103043	-2.74163577	
CHRNA1	-0.34672470	0.04104166	-2.74143904	
CCT7	0.34662272	0.04106987	2.74052260	
HACL1	0.34664657	0.04106987	2.74073690	
ANGPT2	-0.34664686	0.04106987	-2.74073950	
PEX1	0.34665993	0.04106987	2.74085694	
SDF2	0.34665536	0.04106987	2.74081589	
BRDT	-0.34662792	0.04106987	-2.74056929	
SNORD30	0.34663895	0.04106987	2.74066847	
DYRK1A	0.34647676	0.04120361	2.73921110	yes
MAS1	-0.34642143	0.04123582	-2.73871398	
RP11-35N6.1	-0.34642433	0.04123582	-2.73874005	
CLEC3B	-0.34641278	0.04123582	-2.73863630	yes
ITGA2	0.34637409	0.04126373	2.73828875	
SDR42E1	0.34634685	0.04128034	2.73804402	
OR4K2	-0.34633347	0.04128322	-2.73792388	
DPF3	-0.34630137	0.04130465	-2.73763550	yes
TRIM59	0.34624437	0.04134040	2.73712350	
SKP2	0.34625314	0.04134040	2.73720224	yes
C3orf23	0.34621063	0.04135696	2.73682043	
PRDM8	-0.34618585	0.04135696	-2.73659788	
C21orf122	-0.34620198	0.04135696	-2.73674275	
WDR73	0.34618746	0.04135696	2.73661237	
CAP1	0.34617463	0.04135773	2.73649708	
PAQR3	0.34615291	0.04135854	2.73630208	
MFSD7	-0.34616158	0.04135854	-2.73637996	
USP46	0.34612913	0.04136582	2.73608850	yes
RNF103	0.34612469	0.04136582	2.73604864	
MGC33407	-0.34603686	0.04144260	-2.73525990	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CBLN2	-0.33012458	0.05007910	-2.59367779
TMPRSS4	0.33009269	0.05010507	2.59339659
ABT1	0.33005060	0.05014270	2.59302548
CCDC129	-0.33003265	0.05015276	-2.59286725
SLC38A8	-0.33001727	0.05015990	-2.59273162
DHDH	-0.33000775	0.05016034	-2.59264771
UNC84A	0.32999066	0.05016943	2.59249706
GALP	-0.32997938	0.05017188	-2.59239758
CHRN1	-0.32991971	0.05018919	-2.59187155
KIAA0146	0.32991210	0.05018919	2.59180446
GRK4	-0.32990643	0.05018919	-2.59175451
MALAT1	0.32992306	0.05018919	2.59190110
SDHA	0.32992948	0.05018919	2.59195764
SLC6A5	-0.32995301	0.05018919	-2.59216514
ACYP2	0.32990035	0.05018919	2.59170084
POU2F3	-0.32987494	0.05020781	-2.59147689
SERPINA11	-0.32980983	0.05026065	-2.59090294
CTRB2	-0.32981116	0.05026065	-2.59091470
HIST2H2BF	0.32980140	0.05026065	2.59082860
KRTAP10-9	-0.32979061	0.05026255	-2.59073354
WDR42B	-0.32977789	0.05026274	-2.59062137
HGFAC	-0.32977222	0.05026274	-2.59057146
CFHR3	-0.32971662	0.05028099	-2.59008140
CYLD	0.32970359	0.05028099	2.58996655
OR8U1	-0.32972096	0.05028099	-2.59011967
GFOD1	-0.32971013	0.05028099	-2.59002420
MRRF	0.32972995	0.05028099	2.59019886
SLC22A8	-0.32970164	0.05028099	-2.58994931
ZNF396	0.32969198	0.05028143	2.58986426
PAX4	-0.32967395	0.05028143	-2.58970532
SERPIN3	0.32968044	0.05028143	2.58976249
STIL	0.32965783	0.05028290	2.58956324
UTF1	-0.32964625	0.05028290	-2.58946116
SNX21	-0.32964538	0.05028290	-2.58945353
FSHB	-0.32960722	0.05031617	-2.58911722
KCTD3	0.32959713	0.05031731	2.58902830
LTA4H	0.32958174	0.05032452	2.58889270
ZNF488	-0.32953109	0.05037213	-2.58844638
HTR7	-0.32946996	0.05043179	-2.58790773
LOC221442	0.32945467	0.05043891	2.58777294
KCNJ14	-0.32943557	0.05045039	-2.58760468
PSMC4	0.32940137	0.05047921	2.58730340
AMELY	-0.32937909	0.05049436	-2.58710709
GPR112	-0.32923292	0.05055800	-2.58581940
DR1	0.32923601	0.05055800	2.58584658
MED19	-0.32923418	0.05055800	-2.58583048
FAM181B	-0.32923491	0.05055800	-2.58583689
FOXO1	-0.32926830	0.05055800	-2.58613107
LACE1	0.32928625	0.05055800	2.58628917
TAS2R39	-0.32923920	0.05055800	-2.58587473

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

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

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

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

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

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

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

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

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

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

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

C6orf122	-0.31985500	0.05604243	-2.50363276	
NEURL2	-0.31979786	0.05608726	-2.50313454	
CSTF2	0.31979358	0.05608726	2.50309717	
TMEFF2	-0.31980006	0.05608726	-2.50315367	
FBLN7	-0.31974162	0.05612040	-2.50264423	
RPS6KA6	0.31975341	0.05612040	2.50274702	
COPS2	0.31974677	0.05612040	2.50268908	
AGRP	-0.31971944	0.05612182	-2.50245078	
IL18	0.31969855	0.05612182	2.50226870	
MUDENG	0.31971299	0.05612182	2.50239455	yes
PSG4	-0.31970142	0.05612182	-2.50229372	
ZMYM6	0.31971469	0.05612182	2.50240943	
CRLF1	-0.31964700	0.05617526	-2.50181933	
ZNF175	0.31962652	0.05619025	2.50164075	
AKAP10	0.31961549	0.05619087	2.50154458	
COPB2	0.31960927	0.05619087	2.50149036	
NVL	0.31950485	0.05629954	2.50058018	
MED13	0.31950735	0.05629954	2.50060200	
TUSC1	-0.31946965	0.05633282	-2.50027342	
LOC100133419	-0.31944158	0.05635727	-2.50002874	
ZSCAN10	-0.31941936	0.05637446	-2.49983510	
C11orf1	0.31933296	0.05647144	2.49908213	
C1orf49	-0.31931589	0.05648226	-2.49893337	
ATP2A2	0.31927316	0.05652501	2.49856095	
COMMD9	0.31925758	0.05653397	2.49842526	
PCBP4	-0.31922791	0.05656050	-2.49816668	yes
PLEKHA2	0.31921943	0.05656063	2.49809279	
RPL31P4	-0.31919571	0.05657974	-2.49788615	
CAMSAP1	0.31918617	0.05658120	2.49780302	
ERAS	-0.31916813	0.05659325	-2.49764582	
ACER1	-0.31911481	0.05664929	-2.49718121	
UQCRC2	0.31903494	0.05673849	2.49648537	
EMR1	-0.31896588	0.05679349	-2.49588376	
LYZ	-0.31896580	0.05679349	-2.49588310	
GNPAT	0.31897275	0.05679349	2.49594365	
TMEM108	-0.31895407	0.05679770	-2.49578088	
NRXN2	-0.31893192	0.05681493	-2.49558796	
SLC25A13	0.31891447	0.05682629	2.49543593	
ELP2	0.31889974	0.05683425	2.49530763	
GFPT2	-0.31888125	0.05684691	-2.49514660	
LILRA5	-0.31885479	0.05685909	-2.49491613	
MRPL51	0.31885559	0.05685909	2.49492311	
HMGN4	0.31884540	0.05686038	2.49483436	
TRA2A	0.31882161	0.05687968	2.49462713	
LOC100131170	-0.31871886	0.05690377	-2.49373225	
SLC24A4	-0.31872388	0.05690377	-2.49377591	
MSI2	0.31872546	0.05690377	2.49378966	
DDX3X	0.31873480	0.05690377	2.49387104	yes
PRPS1L1	-0.31876923	0.05690377	-2.49417094	
LOC440733	-0.31873598	0.05690377	-2.49388129	

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

SCARNA22	-0.31781299	0.05755054	-2.48584691	
BHLHA9	-0.31779760	0.05755950	-2.48571297	
SLC22A25	-0.31774333	0.05761664	-2.48524084	
P2RX7	-0.31773272	0.05761664	-2.48514853	
MRPL1	0.31772744	0.05761664	2.48510259	
C4orf3	0.31769417	0.05763771	2.48481318	
LOC729173	-0.31769938	0.05763771	-2.48485850	
SCGB1C1	-0.31765215	0.05764404	-2.48444763	
SEN5	0.31768044	0.05764404	2.48469368	
RPL13P12	-0.31766092	0.05764404	-2.48452393	
RIT2	-0.31765968	0.05764404	-2.48451309	
MANEA	0.31764774	0.05764404	2.48440922	
CTTN	0.31761983	0.05766883	2.48416643	
LRDD	-0.31759983	0.05768363	-2.48399249	
ANKRD5	0.31757057	0.05771014	2.48373794	
OR2B11	-0.31753428	0.05771705	-2.48342234	yes
KIFC3	-0.31752895	0.05771705	-2.48337595	
LIG4	0.31752372	0.05771705	2.48333042	
TBC1D7	0.31752970	0.05771705	2.48338249	
RNASEL	0.31752731	0.05771705	2.48336168	
SOST	-0.31751518	0.05771738	-2.48325617	
ASCL2	-0.31749870	0.05772775	-2.48311287	
DYNC2LI1	0.31747680	0.05774498	2.48292239	
LIPM	-0.31744015	0.05778087	-2.48260365	
C7orf52	-0.31742112	0.05778402	-2.48243812	
SLC14A2	-0.31742177	0.05778402	-2.48244380	
PIK3CA	0.31738648	0.05780867	2.48213685	
ARMC5	-0.31738510	0.05780867	-2.48212490	
TWIST1	-0.31737070	0.05781644	-2.48199963	
TSC22D1	0.31736109	0.05781815	2.48191602	
PHIP	0.31725124	0.05794682	2.48096081	
COL4A2	-0.31719665	0.05796344	-2.48048614	yes
KCNS1	-0.31720495	0.05796344	-2.48055835	
TACSTD2	0.31719558	0.05796344	2.48047681	
MSH3	0.31721797	0.05796344	2.48067153	
ARID4B	0.31719764	0.05796344	2.48049475	
C14orf132	-0.31718856	0.05796344	-2.48041583	
UPK1A	-0.31716346	0.05796650	-2.48019760	
AK2	0.31717576	0.05796650	2.48030452	
RASA1	0.31716138	0.05796650	2.48017950	
ZNF792	-0.31712802	0.05796990	-2.47988941	
OTOP1	-0.31713994	0.05796990	-2.47999304	
ALDH1A1	0.31710976	0.05796990	2.47973073	
ATP1A1	0.31712009	0.05796990	2.47982048	
KCNAB1	-0.31710920	0.05796990	-2.47972581	
SLC10A3	-0.31713823	0.05796990	-2.47997823	
C20orf79	-0.31705558	0.05801699	-2.47925963	
SLC25A3	0.31705631	0.05801699	2.47926600	
TFB1M	0.31700046	0.05807648	2.47878051	
FAM160B1	0.31696295	0.05811365	2.47845439	

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

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

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

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

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

CHAD	-0.31244769	0.06130529	-2.43929764	
DKC1	0.31245995	0.06130529	2.43940369	
NLGN2	-0.31244506	0.06130529	-2.43927487	
GCC2	0.31240571	0.06134672	2.43893439	
C10orf55	-0.31237850	0.06137212	-2.43869898	
C5orf32	0.31233965	0.06141291	2.43836296	
C11orf58	0.31232843	0.06141549	2.43826590	
ITPRIPL1	-0.31231371	0.06141549	-2.43813854	
CHDH	-0.31231915	0.06141549	-2.43818559	
A4GNT	-0.31228441	0.06143497	-2.43788509	
HPDL	-0.31228300	0.06143497	-2.43787287	
GPR124	-0.31226702	0.06143886	-2.43773464	yes
KIAA1310	0.31226408	0.06143886	2.43770922	
CSAG1	-0.31224003	0.06144953	-2.43750122	
C5orf36	0.31224639	0.06144953	2.43755624	
CYorf15B	0.31221147	0.06147677	2.43725414	
SULT2A1	-0.31216712	0.06150706	-2.43687057	
PROK1	-0.31216463	0.06150706	-2.43684898	
DLK1	-0.31217250	0.06150706	-2.43691709	
DENND4A	0.31211192	0.06154637	2.43639314	
DSC1	-0.31211100	0.06154637	-2.43638514	
VBP1	0.31211653	0.06154637	2.43643303	
NUP160	0.31209195	0.06156103	2.43622047	
EIF2S3	0.31205485	0.06159320	2.43589956	
MAF	-0.31205171	0.06159320	-2.43587245	
MAGEA3	0.31203009	0.06161130	2.43568542	
LOC100129899	-0.31199738	0.06164409	-2.43540255	
PNMT	-0.31196666	0.06167426	-2.43513694	
LOC100129581	-0.31195686	0.06167668	-2.43505215	
APEX1	0.31190807	0.06172026	2.43463029	
TEX101	-0.31191491	0.06172026	-2.43468944	
OR5M10	-0.31189906	0.06172164	-2.43455240	
OR9K2	-0.31189059	0.06172229	-2.43447919	
FBXL3	0.31183569	0.06178463	2.43400445	
FUCA1	0.31182618	0.06178667	2.43392222	
STRADB	-0.31178966	0.06182462	-2.43360645	
GTPBP4	0.31175721	0.06183270	2.43332594	
LOC340900	-0.31173665	0.06183270	-2.43314817	
ACOX1	0.31176762	0.06183270	2.43341597	
NMD3	0.31173692	0.06183270	2.43315055	
PRKRIP1	-0.31173577	0.06183270	-2.43314060	
FAHD1	0.31176689	0.06183270	2.43340966	
P2RX1	-0.31172195	0.06184048	-2.43302112	
SRXN1	0.31168622	0.06186580	2.43271221	
PRL	-0.31167902	0.06186580	-2.43265002	
PIGO	0.31168689	0.06186580	2.43271802	
HNRNP3	0.31165406	0.06188842	2.43243417	
RNGTT	0.31163528	0.06190281	2.43227188	
PTGR2	0.31161947	0.06191326	2.43213519	
LOC388387	-0.31156202	0.06193678	-2.43163860	

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

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

SNORA13	-0.30971197	0.06339637	-2.41566253	
RNF113B	-0.30967940	0.06342370	-2.41538155	
ITGA7	-0.30963276	0.06347623	-2.41497920	yes
C13orf16	-0.30962109	0.06348139	-2.41487852	
RAB1F	0.30959831	0.06350160	2.41468207	
PLD4	-0.30957078	0.06352827	-2.41444456	
BMP3	0.30955632	0.06353722	2.41431979	
TRIM42	-0.30953284	0.06354773	-2.41411729	
RYR3	-0.30953313	0.06354773	-2.41411975	
GDAP2	0.30950717	0.06357189	2.41389588	
AGXT2	-0.30949288	0.06358062	-2.41377260	
MPST	-0.30939724	0.06369609	-2.41294772	
MAP1LC3C	-0.30939213	0.06369609	-2.41290367	
KIAA2026	0.30935170	0.06373673	2.41255494	
SRPK1	0.30934651	0.06373673	2.41251026	
FAM179B	0.30931946	0.06375215	2.41227691	
C6orf100	-0.30932467	0.06375215	-2.41232189	
ACTC1	-0.30927327	0.06380430	-2.41187863	
OR51I1	-0.30922365	0.06385770	-2.41145078	
MCCC1	0.30921047	0.06385770	2.41133710	
SET	0.30921157	0.06385770	2.41134654	
C19orf40	-0.30920215	0.06385834	-2.41126533	
DNAJB3	-0.30918280	0.06386330	-2.41109851	
SLC8A3	-0.30918895	0.06386330	-2.41115152	
LSM5	0.30916722	0.06387382	2.41096419	
PP2672	-0.30914593	0.06388829	-2.41078057	
IL1F10	-0.30914090	0.06388829	-2.41073727	
GNMT	-0.30912747	0.06389589	-2.41062143	
ZNF837	-0.30910685	0.06391330	-2.41044365	
TMEM224	-0.30908044	0.06391721	-2.41021596	
LMO7	0.30909605	0.06391721	2.41035052	
ACR	-0.30908740	0.06391721	-2.41027598	
C1orf25	0.30903850	0.06396368	2.40985435	yes
C3orf44	-0.30900763	0.06399507	-2.40958825	
SORL1	0.30897686	0.06402635	2.40932298	
AP1GBP1	0.30894734	0.06404063	2.40906850	
CPNE8	0.30894588	0.06404063	2.40905586	
CENPO	0.30894287	0.06404063	2.40902997	
HMP19	-0.30891517	0.06406774	-2.40879113	
NOS1AP	-0.30890567	0.06407001	-2.40870925	
TNFRSF13C	-0.30887908	0.06407427	-2.40848007	
NME2	-0.30888272	0.06407427	-2.40851147	
SOLH	-0.30887904	0.06407427	-2.40847970	
DUS2L	0.30882703	0.06413459	2.40803139	
EPHA8	-0.30878798	0.06413795	-2.40769487	
RS1	-0.30878541	0.06413795	-2.40767267	
GRINL1A	-0.30879400	0.06413795	-2.40774675	
TMEM14B	0.30879587	0.06413795	2.40776285	yes
RECQL4	-0.30880191	0.06413795	-2.40781490	
RNMT	0.30876942	0.06414910	2.40753483	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PARP10	-0.29313573	0.07776315	-2.27384069	
NAT1	0.29310683	0.07776315	2.27359543	
TSHB	-0.29306766	0.07781347	-2.27326308	
CHRNA6	-0.29305006	0.07782984	-2.27311374	
DOC2BL	-0.29302935	0.07785111	-2.27293798	
PEX26	-0.29301612	0.07786061	-2.27282568	
C20orf185	-0.29296944	0.07791146	-2.27242964	
HILS1	-0.29297193	0.07791146	-2.27245075	
C1orf89	-0.29295749	0.07791894	-2.27232824	
TAS1R2	-0.29294999	0.07791941	-2.27226457	
LMOD2	-0.29292002	0.07795530	-2.27201035	
ICHTHYIN	-0.29288628	0.07798581	-2.27172402	
AQP7	-0.29288662	0.07798581	-2.27172696	
C10orf57	0.29285096	0.07803017	2.27142438	yes
MNDA	-0.29282842	0.07805439	-2.27123315	
HCRTR1	-0.29282090	0.07805489	-2.27116937	
TKTL1	-0.29280910	0.07806215	-2.27106925	
KCNJ10	-0.29280126	0.07806315	-2.27100277	
RBBP5	0.29275010	0.07813258	2.27056878	
TMEM217	-0.29270096	0.07819886	-2.27015195	
BCLAF1	0.29269023	0.07820444	2.27006093	
HSD3B2	-0.29267477	0.07821751	-2.26992978	
EID1	0.29264311	0.07822204	2.26966125	
GARNL1	0.29264574	0.07822204	2.26968356	
POR	0.29266004	0.07822204	2.26980480	
TCL1A	-0.29264600	0.07822204	-2.26968574	
LOC57228	0.29260722	0.07826743	2.26935680	
GS85	-0.29259272	0.07827143	-2.26923379	
C9orf85	0.29259030	0.07827143	2.26921331	
RCHY1	0.29255431	0.07831346	2.26890804	
TRIM37	0.29254935	0.07831346	2.26886600	yes
LOC645139	0.29253724	0.07832125	2.26876325	
ERP29	-0.29250675	0.07834111	-2.26850470	
GLCC1	0.29249891	0.07834111	2.26843816	
OR4K5	-0.29249594	0.07834111	-2.26841294	
SAP30L	0.29250725	0.07834111	2.26850890	
KRT75	-0.29248773	0.07834271	-2.26834338	
AFF4	0.29245362	0.07837395	2.26805411	
KRTAP13-3	-0.29245820	0.07837395	-2.26809291	
IFT52	0.29242707	0.07840463	2.26782890	yes
DMWD	-0.29238100	0.07844351	-2.26743825	
SRL	-0.29238097	0.07844351	-2.26743795	
OR4C15	-0.29238405	0.07844351	-2.26746408	
MYO22	-0.29236643	0.07845516	-2.26731468	
DDX21	0.29234389	0.07847949	2.26712358	
TRIP11	0.29231338	0.07851647	2.26686486	
CDKN2D	-0.29229610	0.07853084	-2.26671830	
C20orf106	-0.29228299	0.07853084	-2.26660716	
TP53BP2	0.29228277	0.07853084	2.26660532	
DBX1	-0.29223529	0.07859033	-2.26620269	

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

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

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

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

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

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

OSBPL9	0.28652521	0.08441091	2.21791916
N-PAC	0.28652383	0.08441091	2.21790757
CD46	0.28646307	0.08449128	2.21739517
MTFR1	0.28646179	0.08449128	2.21738434
FBXO11	0.28644965	0.08449986	2.21728204
LOC389203	0.28642578	0.08452809	2.21708072
RBM46	-0.28640640	0.08453707	-2.21691735
LOC388796	0.28640709	0.08453707	2.21692315
SNORD15B	-0.28637242	0.08457053	-2.21663079
PTCHD3	-0.28637771	0.08457053	-2.21667540
LACTB2	0.28635977	0.08457998	2.21652413
EPC2	0.28635217	0.08458099	2.21646003
OTOL1	-0.28633205	0.08459123	-2.21629042
KIAA1147	0.28633763	0.08459123	2.21633744
NEUROD6	-0.28631512	0.08460786	-2.21614770
OR13C4	-0.28630447	0.08461398	-2.21605785
SERPINB8	0.28629008	0.08462184	2.21593657
INO80B	-0.28628578	0.08462184	-2.21590030
LOC100129488	-0.28627796	0.08462322	-2.21583435
C1QBP	0.28626320	0.08463623	2.21570991
LBR	0.28612451	0.08484538	2.21454071
TPH1	0.28612658	0.08484538	2.21455813
ELL3	0.28611622	0.08484756	2.21447076
ALKBH3	0.28610516	0.08484784	2.21437758
GSR	0.28610206	0.08484784	2.21435141
PLA2G12B	-0.28608214	0.08485779	-2.21418354
CYTH1	0.28608839	0.08485779	2.21423619
TFEB	-0.28605024	0.08489961	-2.21391465
LOX	0.28598748	0.08496982	2.21338559
LRRCS2	-0.28599447	0.08496982	-2.21344454
P2RY12	-0.28598952	0.08496982	-2.21340283
TREML3	-0.28596684	0.08497766	-2.21321160
TAF3	-0.28596605	0.08497766	-2.21320498
SYVN1	-0.28596184	0.08497766	-2.21316949
SH2D5	-0.28592657	0.08502519	-2.21287226
GATA4	-0.28589092	0.08507341	-2.21257173
MYH8	-0.28586549	0.08510443	-2.21235744
RP11-90M2.3	-0.28582808	0.08512146	-2.21204214
ZCCHC12	-0.28584648	0.08512146	-2.21219725
SMAD5	0.28582742	0.08512146	2.21203659
TBC1D14	0.28584003	0.08512146	2.21214288
ARPC3	0.28581240	0.08512978	2.21190997
OSTM1	0.28580851	0.08512978	2.21187719
TMEM167B	0.28578813	0.08515232	2.21170544
CNTNAP2	-0.28573559	0.08518821	-2.21126274
ACOXL	-0.28573528	0.08518821	-2.21126009
LANCL2	0.28573283	0.08518821	2.21123949
RSRC2	0.28574009	0.08518821	2.21130066
KRT37	-0.28573189	0.08518821	-2.21123155
RBM41	0.28571554	0.08520398	2.21109380

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

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

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

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

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

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

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

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

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

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

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

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

C9orf156	0.27372673	0.09926704	2.11062164
CREBZF	0.27371522	0.09926704	2.11052573
IFT74	0.27369344	0.09929547	2.11034419
STX18	0.27366748	0.09933179	2.11012784
MOBK12C	-0.27365323	0.09934604	-2.11000901
ADAM20	0.27355955	0.09951026	2.10922826
LOC100133337	0.27350444	0.09958474	2.10876898
C21orf84	-0.27350733	0.09958474	-2.10879307
ICOSLG	-0.27349250	0.09958474	-2.10866950
LOC348840	-0.27347992	0.09958474	-2.10856467
EIF3E	0.27349427	0.09958474	2.10868427
LPXN	0.27348527	0.09958474	2.10860926
CLNS1A	0.27344905	0.09961776	2.10830741
WIZ	-0.27345341	0.09961776	-2.10834378
THEM5	-0.27331274	0.09986306	-2.10717162
SCARA3	-0.27328366	0.09987526	-2.10692927
EXOSC4	-0.27327950	0.09987526	-2.10689462
ZNF143	0.27329354	0.09987526	2.10701161
ALG2	0.27328626	0.09987526	2.10695098
C10orf31	-0.27327086	0.09987893	-2.10682266
LEAP2	-0.27319296	0.10000998	-2.10617364
BMP2	-0.27318832	0.10000998	-2.10613501
SLC35D2	0.27315229	0.10001481	2.10583480
OR4N5	-0.27317383	0.10001481	-2.10601427
MRE11A	0.27315416	0.10001481	2.10585037
PRPH	-0.27315489	0.10001481	-2.10585643
NR1I2	-0.27316035	0.10001481	-2.10590196
PALM	-0.27312032	0.10006275	-2.10556846
DNAJA1	0.27305854	0.10016728	2.10505385
CRY1	0.27303414	0.10020090	2.10485059
C11orf85	-0.27294842	0.10035108	-2.10413655
HADH	0.27288103	0.10045380	2.10357520
MLLT10	0.27288378	0.10045380	2.10359811
FCHSD2	0.27280290	0.10058982	2.10292446
CYP4V2	0.27276959	0.10064052	2.10264709
SLC22A14	-0.27276213	0.10064197	-2.10258497
DDB1	0.27275457	0.10064361	2.10252201
HSP90AA1	0.27274007	0.10065849	2.10240122
CHCHD2	0.27270821	0.10070645	2.10213594
NUDT17	-0.27269820	0.10071279	-2.10205252
FOXO4	-0.27268361	0.10072489	-2.10193103
DMRTA2	-0.27267846	0.10072489	-2.10188815
SLC37A2	-0.27267008	0.10072811	-2.10181838
ACTRT1	-0.27266222	0.10073034	-2.10175289
PLAGL2	0.27263620	0.10074441	2.10153626
BTD	0.27263476	0.10074441	2.10152429
CBLN1	-0.27264634	0.10074441	-2.10162066
NKIRAS1	0.27261092	0.10077713	2.10132571
CDK5R1	-0.27259229	0.10079989	-2.10117064
NET1	0.27251347	0.10090555	2.10051430

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

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

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

ZNF510	0.26998184	0.10388318	2.07945876
OR5T1	-0.26996139	0.10391014	-2.07928885
C6orf146	-0.26993109	0.10395631	-2.07903712
FLJ45455	-0.26991653	0.10397179	-2.07891618
MRPL14	0.26985766	0.10407375	2.07842711
TRAIP	-0.26984376	0.10408795	-2.07831167
BMPR1B	0.26982951	0.10410285	2.07819330
OSTC	0.26980474	0.10413828	2.07798756
ARHGFE3	0.26979565	0.10414311	2.07791207
SNORD74	0.26974524	0.10422095	2.07749330
PIGB	0.26974256	0.10422095	2.07747112
ECM1	-0.26972734	0.10422484	-2.07734465
GSTM5	-0.26972932	0.10422484	-2.07736110
CBX5	0.26970322	0.10424157	2.07714434
LOC390424	-0.26969447	0.10424157	-2.07707163
ATP1A2	-0.26969231	0.10424157	-2.07705375
SKIL	0.26969489	0.10424157	2.07707515
BCO2	0.26968545	0.10424206	2.07699676
KIF2A	0.26967579	0.10424801	2.07691651
ERBB4	-0.26964207	0.10426223	-2.07663642
OR5A2	-0.26965402	0.10426223	-2.07673567
LOC338797	-0.26966136	0.10426223	-2.07679663
TNFSF8	-0.26964530	0.10426223	-2.07666330
THYN1	0.26960157	0.10430262	2.07630012
SCARNA8	-0.26961001	0.10430262	-2.07637016
OGT	0.26960421	0.10430262	2.07632200
SLC7A14	-0.26959492	0.10430271	-2.07624486
OR4C16	-0.26958283	0.10430664	-2.07614441
TMEM145	-0.26957969	0.10430664	-2.07611839
TOPBP1	0.26951857	0.10437544	2.07561075
REEP3	0.26951808	0.10437544	2.07560670
PCDHB8	0.26952106	0.10437544	2.07563145
PLA2G10	0.26952418	0.10437544	2.07565739
RASA2	0.26950676	0.10438466	2.07551269
MCM10	-0.26948696	0.10441046	-2.07534828
INTS8	0.26943908	0.10449121	2.07495073
USP4	0.26942988	0.10449630	2.07487428
LOC100129345	-0.26939099	0.10453422	-2.07455134
C1orf223	-0.26939070	0.10453422	-2.07454893
GPR153	-0.26940329	0.10453422	-2.07465350
TUBGCP4	0.26937729	0.10453461	2.07443763
COPS7A	0.26938309	0.10453461	2.07448578
C7orf59	-0.26929056	0.10469156	-2.07371750
ZNF785	-0.26927739	0.10470443	-2.07360813
ACTN1	-0.26924854	0.10474805	-2.07336860
ZNF280B	-0.26921989	0.10474863	-2.07313077
CCRL1	-0.26922127	0.10474863	-2.07314221
C4orf43	0.26922932	0.10474863	2.07320907
LRRC40	0.26923898	0.10474863	2.07328921
LATS1	0.26921524	0.10474863	2.07309218

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

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

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

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

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

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

CKAP2L	-0.26338192	0.11252615	-2.02478443	
SNORD102	0.26336438	0.11254899	2.02463951	
CA7	-0.26331353	0.11264065	-2.02421948	
KIAA1826	0.26330254	0.11264996	2.02412869	
SSX9	-0.26328552	0.11267174	-2.02398810	
PRAMEF2	-0.26327247	0.11268531	-2.02388030	
ZNF268	0.26323650	0.11269069	2.02358323	
ADAMTS17	-0.26325556	0.11269069	-2.02374063	
NAP5	-0.26325789	0.11269069	-2.02375987	
ILF3	0.26323397	0.11269069	2.02356233	
LRRN1	0.26323872	0.11269069	2.02360152	
NUP85	0.26323097	0.11269069	2.02353753	
OR51A2	-0.26322362	0.11269249	-2.02347682	
SNX3	0.26321633	0.11269416	2.02341663	
LDLOC1	-0.26318915	0.11273696	-2.02319212	
LOC388946	-0.26318101	0.11274038	-2.02312493	
PRIM1	0.26312822	0.11283618	2.02268890	
EBI3	-0.26305006	0.11297537	-2.02204342	
tAKR	-0.26304803	0.11297537	-2.02202660	
ELK3	0.26299796	0.11301639	2.02161312	
LOC222699	-0.26299583	0.11301639	-2.02159556	
RICTOR	0.26300839	0.11301639	2.02169926	
PDE4B	-0.26301729	0.11301639	-2.02177279	
ACYP1	0.26299636	0.11301639	2.02159998	
ACOT6	-0.26298603	0.11302327	-2.02151465	
MAS1L	-0.26292022	0.11314624	-2.02097121	
ZNF548	0.26290858	0.11315695	2.02087510	
SNAPC2	-0.26287148	0.11322045	-2.02056877	yes
SLC8A2	-0.26279422	0.11336738	-2.01993079	
LOC100129624	-0.26275449	0.11343643	-2.01960282	
HEBP2	0.26274271	0.11344746	2.01950553	yes
CRTAM	-0.26273145	0.11345739	-2.01941257	
DHX33	0.26266318	0.11358584	2.01884894	
SSBP3	-0.26260327	0.11364984	-2.01835437	
C1orf53	-0.26260003	0.11364984	-2.01832765	
SNORA6	-0.26261933	0.11364984	-2.01848695	
TP11	0.26260442	0.11364984	2.01836389	
CDC5L	0.26260583	0.11364984	2.01837551	
PPP2R1A	0.26258988	0.11365748	2.01824385	
RBM45	0.26258076	0.11365875	2.01816854	
PCDHGA3	-0.26257261	0.11365875	-2.01810125	
RTN4	0.26256985	0.11365875	2.01807849	
RHOG	-0.26254449	0.11369805	-2.01786916	
C19orf46	-0.26249342	0.11377742	-2.01744754	
MAT2A	0.26249744	0.11377742	2.01748073	
FMN2	-0.26248587	0.11377967	-2.01738521	
CTSO	0.26247010	0.11378555	2.01725507	
NECAB2	-0.26247508	0.11378555	-2.01729614	
RPL22L1	0.26243902	0.11383679	2.01699856	
IDH3B	0.26242164	0.11385951	2.01685511	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CCNO	-0.23679367	0.15459252	-1.80751463
KY	-0.23678614	0.15459618	-1.80745374
CXorf41	0.23674051	0.15469307	1.80708475
SPOP	0.23673652	0.15469307	1.80705252
SERPINB4	0.23671859	0.15472370	1.80690753
RNF17	-0.23669895	0.15475878	-1.80674867
CCDC41	0.23664012	0.15489553	1.80627296
CHTF8	0.23661217	0.15495219	1.80604698
ELSPBP1	-0.23657806	0.15502485	-1.80577122
CAPS2	0.23656088	0.15505358	1.80563233
TTC26	0.23650745	0.15517649	1.80520033
DENND4C	0.23649404	0.15519545	1.80509190
DYNC2H1	0.23646778	0.15524780	1.80487959
GPR50	-0.23645283	0.15527075	-1.80475875
LCE2B	-0.23644384	0.15527606	-1.80468603
C3orf47	-0.23643856	0.15527606	-1.80464333
ABCC4	0.23641068	0.15532255	1.80441798
C17orf53	-0.23640844	0.15532255	-1.80439989
COPG	0.23638737	0.15534555	1.80422950
HIST1H4H	0.23638859	0.15534555	1.80423933
SDSL	-0.23635101	0.15542422	-1.80393555
C17orf76	-0.23633445	0.15545139	-1.80380168
TBC1D8	0.23630387	0.15551504	1.80355451
C18orf21	0.23628831	0.15553963	1.80342870
DNAJC10	0.23626264	0.15559053	1.80322121
SNX10	-0.23622856	0.15566336	-1.80294569
OPALIN	-0.23615813	0.15583090	-1.80237648
CLCNKA	-0.23607963	0.15601081	-1.80174193
CDC7	0.23607691	0.15601081	1.80171993
EXOC6	0.23604718	0.15607241	1.80147971
WDR88	-0.23599932	0.15614945	-1.80109286
CDH26	0.23600963	0.15614945	1.80117623
GPRIN2	-0.23600533	0.15614945	-1.80114141
SLC17A5	0.23596982	0.15621050	1.80085444
ZNF600	0.23596071	0.15621832	1.80078083
DUXA	-0.23593469	0.15627029	-1.80057058
HDDC2	0.23588188	0.15639228	1.80014380
CAPZA2	0.23585297	0.15645187	1.79991015
FLJ37078	-0.23584258	0.15646306	-1.79982615
PGPEP1	-0.23583050	0.15647865	-1.79972855
HRC	-0.23581548	0.15650193	-1.79960716
POLR1D	0.23580768	0.15650632	1.79954419
STX7	0.23576906	0.15659133	1.79923211
ART3	-0.23575605	0.15660937	-1.79912700
AKR1C1	0.23573809	0.15663927	1.79898188
PELO	0.23572628	0.15663927	1.79888644
CAMKK1	-0.23573155	0.15663927	-1.79892898
CTSD	0.23568265	0.15673745	1.79853390
ZNF808	0.23567409	0.15674385	1.79846475
NDUFC1	0.23566086	0.15675268	1.79835779

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

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

ANKRD62	-0.23337385	0.16117859	-1.77989490
LDHAL6A	-0.23328820	0.16138276	-1.77920402
SPRYD4	0.23328522	0.16138276	1.77918003
RMND5B	0.23327339	0.16139808	1.77908462
KLHL23	-0.23323533	0.16147680	-1.77877764
RASAL2	0.23323175	0.16147680	1.77874872
TLR2	0.23320778	0.16152458	1.77855543
KRTAP10-4	-0.23318732	0.16156298	-1.77839045
TTYT13	-0.23317484	0.16158007	-1.77828974
COG1	0.23315151	0.16162617	1.77810160
FIT1	-0.23310156	0.16174351	-1.77769880
PON1	-0.23308998	0.16175819	-1.77760538
HSD11B1	-0.23306453	0.16179687	-1.77740014
LOC442075	-0.23306334	0.16179687	-1.77739055
PHLDA3	-0.23305423	0.16180495	-1.77731706
AFG3L2	0.23303565	0.16183837	1.77716724
RAI14	0.23300369	0.16189726	1.77690955
CDKL1	0.23300147	0.16189726	1.77689160
WDR89	0.23298470	0.16191191	1.77675639
AIM1	0.23298381	0.16191191	1.77674921
NDUFA13	-0.23295389	0.16197572	-1.77650797
C1orf52	0.23293235	0.16201711	1.77633427
GCOM1	-0.23291769	0.16204007	-1.77621605
CLEC1A	-0.23288341	0.16211562	-1.77593965
COMMD6	0.23287080	0.16212643	1.77583802
SNORD37	0.23286110	0.16212643	1.77575975
OPN1SW	-0.23286584	0.16212643	-1.77579798
JMJD1B	0.23285127	0.16213644	1.77568050
C5orf53	0.23284394	0.16213975	1.77562142
ALG10B	0.23281720	0.16219511	1.77540582
ATP10D	0.23280286	0.16221724	1.77529019
TPRX1	-0.23278838	0.16223973	-1.77517347
FDX1L	-0.23277021	0.16227183	-1.77502697
USF1	0.23276423	0.16227183	1.77497875
TRDMT1	0.23273461	0.16232235	1.77473992
C14orf166	0.23273322	0.16232235	1.77472873
ZC3H3	-0.23271395	0.16235542	-1.77457338
IAPP	-0.23270872	0.16235542	-1.77453116
AMN	-0.23265906	0.16247235	-1.77413085
RBPMS	-0.23263984	0.16249125	-1.77397590
PRRX2	-0.23264286	0.16249125	-1.77400023
MPHOSPH10	0.23261784	0.16253398	1.77379853
CCR8	-0.23260197	0.16254442	-1.77367057
CST2	-0.23259569	0.16254442	-1.77361994
OR7G2	-0.23260077	0.16254442	-1.77366092
ACAD9	0.23258423	0.16255883	1.77352762
SSX7	-0.23255845	0.16261172	-1.77331979
FAM58B	-0.23252009	0.16269845	-1.77301049
TBC1D5	0.23250254	0.16272924	1.77286907
CXorf36	-0.23245864	0.16283090	-1.77251516

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

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

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

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

HDGFL1	-0.22852784	0.17023388	-1.74087599
TXN	0.22851282	0.17025876	1.74075523
RAB37	0.22849584	0.17028907	1.74061876
UQCRFS1	-0.22847237	0.17033739	-1.74043013
RBAK	0.22844591	0.17039400	1.74021750
C6orf150	0.22843290	0.17041333	1.74011289
ATF6	0.22842001	0.17041551	1.74000935
APP	0.22842117	0.17041551	1.74001865
GNA14	0.22835096	0.17059041	1.73945434
ZBTB6	0.22831240	0.17068068	1.73914451
AHSA1	0.22828956	0.17071054	1.73896093
OR1F1	-0.22829553	0.17071054	-1.73900888
SCAMP1	0.22827822	0.17072523	1.73886982
SEC24A	0.22826324	0.17075005	1.73874944
PPM1M	-0.22822720	0.17078752	-1.73845982
ERN1	-0.22823384	0.17078752	-1.73851320
KRTAP19-3	-0.22823020	0.17078752	-1.73848396
PODXL	-0.22822557	0.17078752	-1.73844672
SMC4	0.22817797	0.17085078	1.73806422
SLC5A9	-0.22817255	0.17085078	-1.73802064
TMOD4	-0.22816654	0.17085078	-1.73797236
MLLT1	-0.22817985	0.17085078	-1.73807933
MYOZ3	-0.22817269	0.17085078	-1.73802180
MTSS1	0.22816672	0.17085078	1.73797383
GNG11	-0.22813853	0.17089504	-1.73774728
MSC	-0.22814299	0.17089504	-1.73778315
MAGEA10	-0.22809351	0.17097511	-1.73738557
ZNF771	-0.22810121	0.17097511	-1.73744742
SNORD75	0.22809160	0.17097511	1.73737023
ISL1	0.22807535	0.17100349	1.73723965
OR2T8	-0.22805920	0.17103160	-1.73710989
LAMB4	-0.22802325	0.17111060	-1.73682108
MAD1L1	-0.22801872	0.17111060	-1.73678460
ZNF329	0.22799638	0.17115594	1.73660514
ARMC3	0.22797578	0.17116797	1.73643961
STEAP1	0.22796802	0.17116797	1.73637732
BBS2	0.22797891	0.17116797	1.73646476
OR6N2	-0.22796790	0.17116797	-1.73637630
LOC645188	-0.22795671	0.17118229	-1.73628643
CYSLTR2	-0.22793817	0.17118668	-1.73613751
ZNF214	0.22793872	0.17118668	1.73614190
ZNF215	0.22793702	0.17118668	1.73612823
RPL36AP46	-0.22792536	0.17120233	-1.73603453
LIPF	-0.22790783	0.17123431	-1.73589369
C10orf47	-0.22789295	0.17125892	-1.73577414
LOC646976	-0.22781619	0.17142890	-1.73515749
NHEJ1	0.22781378	0.17142890	1.73513818
IGFN1	-0.22782503	0.17142890	-1.73522849
NDNL2	-0.22779773	0.17145681	-1.73500919
C22orf34	-0.22777412	0.17150574	-1.73481959

C9orf80	0.22774202	0.17154134	1.73456168
RBP2	-0.22774865	0.17154134	-1.73461496
RFXAP	0.22774415	0.17154134	1.73457879
C20orf149	-0.22773720	0.17154134	-1.73452301
GPR81	-0.22772307	0.17156391	-1.73440947
SLC16A11	-0.22771449	0.17157101	-1.73434052
C14orf177	-0.22769004	0.17160551	-1.73414415
TMEM202	-0.22769157	0.17160551	-1.73415646
LOC100131888	0.22767646	0.17160920	1.73403507
NFIB	-0.22767443	0.17160920	-1.73401876
ADAM7	-0.22767062	0.17160920	-1.73398812
CA6	-0.22765192	0.17164450	-1.73383793
PTAFR	0.22763112	0.17168565	1.73367091
RARA	-0.22761585	0.17171140	-1.73354825
CYP21A2	-0.22759252	0.17173457	-1.73336085
OLFML2B	-0.22759732	0.17173457	-1.73339935
BPGM	0.22758945	0.17173457	1.73333618
ABCF2	0.22752849	0.17176914	1.73284652
DGKB	-0.22756868	0.17176914	-1.73316934
CYFIP1	0.22752684	0.17176914	1.73283329
OR10J1	-0.22752440	0.17176914	-1.73281366
PPP1CA	0.22751677	0.17176914	1.73275243
MAP4K2	-0.22756358	0.17176914	-1.73312839
PBOV1	-0.22754128	0.17176914	-1.73294923
APOBEC3G	0.22752351	0.17176914	1.73280654
IL1R2	0.22753965	0.17176914	1.73293615
KIAA1715	0.22752049	0.17176914	1.73278226
SGPP1	-0.22746159	0.17190623	-1.73230919
ATP1B3	0.22742176	0.17200051	1.73198938
PDIA5	-0.22741254	0.17200944	-1.73191529
SLC25A17	0.22739891	0.17203065	1.73180587
CYP3A5	0.22737895	0.17204300	1.73164554
OR52D1	-0.22737039	0.17204300	-1.73157677
SLAIN2	0.22738455	0.17204300	1.73169050
LOC645181	-0.22737606	0.17204300	-1.73162233
PIR	0.22732581	0.17215061	1.73121881
TUBB1	-0.22729018	0.17223328	-1.73093269
PNRC1	0.22727589	0.17223955	1.73081791
C17orf90	-0.22727962	0.17223955	-1.73084787
BXDC2	0.22724422	0.17231119	1.73056359
WNK3	-0.22722091	0.17235950	-1.73037638
SLC22A3	-0.22714534	0.17253706	-1.72976960
MAP3K12	-0.22714641	0.17253706	-1.72977817
TTL	0.22697016	0.17300609	1.72836307
WIBG	-0.22696574	0.17300609	-1.72832760
CSRP1	-0.22695072	0.17303130	-1.72820701
CST6	-0.22691344	0.17310202	-1.72790767
ARGLU1	0.22691553	0.17310202	1.72792448
DNAL1	0.22690166	0.17311815	1.72781313
SBSN	-0.22687775	0.17316828	-1.72762120

PTPRR	-0.22685121	0.17322583	-1.72740809
RPS6KA4	-0.22684173	0.17323551	-1.72733202
LDB2	-0.22676403	0.17343663	-1.72670828
SLC16A3	0.22675571	0.17344307	1.72664150
HIGD1D	-0.22673542	0.17344928	-1.72647865
NLRP11	-0.22674608	0.17344928	-1.72656417
KIF17	-0.22673996	0.17344928	-1.72651505
XPO6	0.22668934	0.17351216	1.72610872
DBNL	0.22668893	0.17351216	1.72610543
UBE2Z	0.22670588	0.17351216	1.72624150
UBE2M	-0.22669050	0.17351216	-1.72611803
NCAPG2	0.22667937	0.17351772	1.72602871
ZNF673	0.22667491	0.17351772	1.72599287
GNPNAT1	0.22666286	0.17353462	1.72589620
WDR35	0.22664486	0.17356825	1.72575173
SUSD4	0.22658755	0.17371233	1.72529173
KCNMB4	-0.22656595	0.17375395	-1.72511832
PPAPDC2	0.22656070	0.17375395	1.72507619
AEBP1	-0.22655420	0.17375530	-1.72502399
RGNEF	0.22650401	0.17387945	1.72462121
MUC5B	-0.22647704	0.17393837	-1.72440474
ACBD3	0.22646348	0.17395956	1.72429593
TMEM204	-0.22644674	0.17398972	-1.72416156
RPA2	0.22639984	0.17410473	1.72378522
NOP56	0.22639270	0.17410790	1.72372785
TRIM29	0.22634580	0.17422299	1.72335147
C1orf201	0.22633302	0.17424201	1.72324894
C5orf23	-0.22632644	0.17424357	-1.72319616
SPIN1	0.22631303	0.17426440	1.72308849
GRIK3	-0.22628479	0.17431054	-1.72286194
MTR	0.22628460	0.17431054	1.72286042
GNG3	-0.22627256	0.17432751	-1.72276377
RPL31	0.22626182	0.17434080	1.72267759
SNX12	0.22624235	0.17435406	1.72252137
LOC339742	-0.22624304	0.17435406	-1.72252688
GOS2	-0.22623906	0.17435406	-1.72249494
PROSC	0.22620796	0.17442472	1.72224539
RPLP0	0.22618746	0.17446552	1.72208093
LIPE	-0.22611868	0.17464248	-1.72152901
RBP5	-0.22608825	0.17471133	-1.72128488
UBE2D2	0.22607845	0.17472200	1.72120624
FAM116A	0.22604644	0.17479535	1.72094940
SF3B1	0.22603275	0.17481698	1.72083961
EPM2AIP1	0.22596726	0.17498489	1.72031419
IQCK	0.22592873	0.17504928	1.72000508
RPRD2	0.22592641	0.17504928	1.71998646
BMS1	0.22593529	0.17504928	1.72005771
ARMCX1	-0.22590869	0.17506584	-1.71984424
KIRREL	-0.22590852	0.17506584	-1.71984288
FRS2	0.22583288	0.17524559	1.71923612

SPIN2A	-0.22583794	0.17524559	-1.71927669
SH3TC2	-0.22582498	0.17525092	-1.71917271
SPANXN4	-0.22581302	0.17526771	-1.71907681
SYCP2	0.22578987	0.17531617	1.71889107
SPATA2	-0.22576103	0.17538072	-1.71865972
OR52E6	-0.22571992	0.17548000	-1.71833000
KRTAP21-2	-0.22565653	0.17564242	-1.71782153
DFNB31	-0.22563261	0.17569314	-1.71762963
ZNF330	0.22561887	0.17571499	1.71751947
CSPG4	-0.22559164	0.17577510	-1.71730104
LOC100130138	-0.22558252	0.17578388	-1.71722793
CACNA1B	-0.22553610	0.17589840	-1.71685557
LOC730167	-0.22549874	0.17598727	-1.71655594
PTGIS	-0.22548439	0.17601090	-1.71644084
CNIH2	-0.22546385	0.17605209	-1.71627613
ZHX2	-0.22545403	0.17606286	-1.71619741
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AGXT	-0.22511444	0.17682254	-1.71347424
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SGK2	-0.22499886	0.17706593	-1.71254760
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BHLHE40	0.22473540	0.17761129	1.71043559
GPR107	0.22469030	0.17772288	1.71007409
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DDX59	0.22463114	0.17784033	1.70959984
SLC25A14	0.22463507	0.17784033	1.70963140
MATN3	-0.22459377	0.17791595	-1.70930039

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TOMM34	0.22358716	0.18026768	1.70123536	yes
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KRT12	-0.22348191	0.18048465	-1.70039238	
PADI6	-0.22343363	0.18060671	-1.70000578	
MTDH	0.22340774	0.18066141	1.69979838	
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ACSL1	-0.22279381	0.18197214	-1.69488303
DCST2	-0.22278779	0.18197216	-1.69483483
KEAP1	0.22276086	0.18203293	1.69461923
KIAA0355	-0.22273685	0.18208521	-1.69442705
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NOP14	0.22268843	0.18219096	1.69403951
CD180	0.22268020	0.18219096	1.69397363
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PHGDH	-0.22160177	0.18432745	-1.68534505
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BMI1	0.22050824	0.18675840	1.67660225
TECTA	-0.22049371	0.18675840	-1.67648615
IQCF1	-0.22047118	0.18680727	-1.67630604
ASAH1	0.22046199	0.18681670	1.67623261
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TINP1	0.22017925	0.18744063	1.67397332
FSHR	-0.22013307	0.18753740	-1.67360429
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MYH7B	-0.22004060	0.18773764	-1.67286552
COL14A1	-0.22003112	0.18773764	-1.67278973
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GKN1	-0.21932009	0.18931360	-1.66711049	
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CIRBP	0.21918395	0.18961486	1.66602344	
C20orf39	-0.21917880	0.18961486	-1.66598231	
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RAB3C	-0.21903017	0.18991620	-1.66479561	
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MRPL20	0.21901369	0.18994719	1.66466406	
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APPL2	0.21896482	0.18998582	1.66427391	
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ADORA2A	-0.21894757	0.19001099	-1.66413622
CD97	0.21894442	0.19001099	1.66411107
TUBA3E	-0.21893466	0.19001705	-1.66403316
FEZ2	0.21893042	0.19001705	1.66399926
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BACE1	-0.21887247	0.19015461	-1.66353666
PGLYRP4	-0.21886602	0.19015597	-1.66348520
HSF2	0.21883641	0.19022669	1.66324880
PDCD11	0.21882423	0.19024521	1.66315161
STOX1	0.21879877	0.19025351	1.66294834
DUSP5P	-0.21881256	0.19025351	-1.66305841
PPP1R3B	-0.21879980	0.19025351	-1.66295658
SOCS2	-0.21879751	0.19025351	-1.66293827
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PRKACA	-0.21871470	0.19046567	-1.66227727
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C12orf29	0.21868853	0.19050820	1.66206838
ULK4	0.21867523	0.19053012	1.66196222
VPS72	0.21865793	0.19056402	1.66182414
KIAA1958	-0.21864667	0.19057190	-1.66173426
KLHL6	0.21864333	0.19057190	1.66170760
AQP3	0.21863521	0.19057829	1.66164281
CASP8AP2	0.21862414	0.19059352	1.66155446
SAT2	-0.21855917	0.19077038	-1.66103592
SNORD49A	0.21852320	0.19085544	1.66074879
RPL29	-0.21851885	0.19085544	-1.66071407
SGSM1	-0.21849568	0.19087106	-1.66052921
C11orf48	0.21850755	0.19087106	1.66062392
B3GNT4	-0.21849755	0.19087106	-1.66054408
CCDC75	0.21848756	0.19087749	1.66046436
HNRNPA3	0.21846999	0.19091225	1.66032414
ZNF446	-0.21842154	0.19103972	-1.65993746
ATF2	0.21838313	0.19113709	1.65963093
SLFN13	0.21834929	0.19122074	1.65936095
ZNF440	0.21829199	0.19135239	1.65890367
RRP7A	-0.21828753	0.19135239	-1.65886808
NMT1	0.21828853	0.19135239	1.65887609
C22orf33	-0.21827125	0.19136534	-1.65873819
CCDC8	-0.21827588	0.19136534	-1.65877512
FUT2	0.21822851	0.19147584	1.65839714
FUT1	-0.21817644	0.19161446	-1.65798167
IL1A	-0.21815741	0.19165372	-1.65782981
CAPN13	0.21814291	0.19167933	1.65771414
FLJ41649	-0.21813662	0.19168027	-1.65766391
HMG20B	-0.21811324	0.19173262	-1.65747738
AGPAT1	-0.21808974	0.19178534	-1.65728989
PATL1	0.21805149	0.19188251	1.65698468
MFSD4	0.21803161	0.19192434	1.65682611
HOXA2	-0.21799846	0.19200618	-1.65656162

PTPDC1	-0.21798985	0.19201409	-1.65649294
LOC100129608	-0.21796559	0.19205113	-1.65629940
FOXJ2	-0.21796608	0.19205113	-1.65630329
BRD7	0.21795371	0.19206890	1.65620461
NFXL1	0.21787851	0.19227755	1.65560472
FAM122B	0.21787103	0.19228209	1.65554499
KLHL24	0.21784386	0.19234598	1.65532828
ADNP	0.21783301	0.19236068	1.65524169
TMEM30B	0.21780920	0.19239639	1.65505180
RETSAT	0.21781382	0.19239639	1.65508861
LOC100049716	0.21775053	0.19252905	1.65458376
MNS1	0.21774729	0.19252905	1.65455797
KLHL13	0.21774839	0.19252905	1.65456670
LOC100131017	-0.21772865	0.19253115	-1.65440928
CCT8L2	-0.21773241	0.19253115	-1.65443926
TRAV9-2	-0.21773511	0.19253115	-1.65446082
KRTAP20-1	-0.21771606	0.19253304	-1.65430886
GPR55	-0.21771948	0.19253304	-1.65433614
DKK2	-0.21770554	0.19253831	-1.65422489
OSGIN2	0.21769638	0.19253831	1.65415185
GPRC5A	0.21769733	0.19253831	1.65415946
ABCC5	0.21766380	0.19261859	1.65389201
MMP9	-0.21763022	0.19268388	-1.65362415
STAG3L4	0.21763108	0.19268388	1.65363097
KRTAP19-4	-0.21762327	0.19268681	-1.65356873
ATP6V1B2	0.21760865	0.19269488	1.65345206
LOC100133429	-0.21761119	0.19269488	-1.65347239
ZNF235	0.21758764	0.19274027	1.65328450
LRRC68	-0.21757643	0.19275607	-1.65319509
TRMT2A	-0.21756716	0.19276601	-1.65312119
WDFY3	0.21755330	0.19278981	1.65301067
P2RY10	0.21753946	0.19281358	1.65290023
HDAC3	0.21753297	0.19281511	1.65284853
PYCR1	-0.21749661	0.19288887	-1.65255850
SIPA1	-0.21749940	0.19288887	-1.65258072
TNNI2	-0.21740482	0.19314148	-1.65182650
PTDSS1	0.21740109	0.19314148	1.65179673
DAK	0.21737795	0.19319340	1.65161217
TNK1	-0.21736369	0.19321846	-1.65149844
HOXA6	-0.21733064	0.19330037	-1.65123490
LNX2	0.21730593	0.19335707	1.65103785
ZNF597	0.21728927	0.19337130	1.65090503
SFRS15	0.21728959	0.19337130	1.65090755
UBE2NL	-0.21724493	0.19348746	-1.65055143
ARSI	-0.21720795	0.19356325	-1.65025656
CCKAR	-0.21721289	0.19356325	-1.65029596
ADI1	0.21719182	0.19359401	1.65012794
MFSD5	0.21716807	0.19364786	1.64993859
CCNT1	0.21716082	0.19365173	1.64988075
HSPB7	-0.21709001	0.19384822	-1.64931619

PTP4A1	0.21705639	0.19393207	1.64904809
KRTAP4-3	-0.21704963	0.19393443	-1.64899426
PHB2	0.21702151	0.19396373	1.64877006
ZNF57	0.21701607	0.19396373	1.64872668
TSPAN12	0.21702405	0.19396373	1.64879031
ARMCX2	-0.21702653	0.19396373	-1.64881005
UGT1A10	0.21699730	0.19400254	1.64857704
TPST2	-0.21698700	0.19401567	-1.64849491
FAM92A1	-0.21697083	0.19404662	-1.64836596
SLC19A2	0.21694981	0.19409227	1.64819838
HNRNPC	0.21693785	0.19410331	1.64810303
FAM104A	0.21693422	0.19410331	1.64807414
HMBOX1	0.21691825	0.19413366	1.64794679
LOC100133400	0.21690421	0.19415814	1.64783488
CHD9	0.21687836	0.19420035	1.64762879
CYP4F2	-0.21688065	0.19420035	-1.64764703
OR7A10	-0.21681229	0.19436520	-1.64710205
MUC7	-0.21680018	0.19436520	-1.64700555
PAFAH1B3	-0.21680309	0.19436520	-1.64702871
GALNAC4S-6ST	0.21680460	0.19436520	1.64704080
PSMC3	0.21678713	0.19436857	1.64690151
RELT	-0.21678825	0.19436857	-1.64691044
ZNF783	-0.21674306	0.19448112	-1.64655024
AGBL2	0.21673814	0.19448112	1.64651098
CES2	0.21667545	0.19465349	1.64601129
GOSR2	0.21664756	0.19472014	1.64578897
LRRC49	0.21661363	0.19478699	1.64551858
ACTR5	0.21661620	0.19478699	1.64553900
OR5AN1	-0.21660597	0.19479186	-1.64545747
TSPAN8	0.21660009	0.19479186	1.64541066
IL5	-0.21657998	0.19483488	-1.64525035
TTC23L	0.21657030	0.19484616	1.64517322
KIF3A	0.21650475	0.19502749	1.64465073
MAP4	-0.21648120	0.19505669	-1.64446301
NME1	0.21648078	0.19505669	1.64445974
S100P	0.21647725	0.19505669	1.64443155
CES3	-0.21645075	0.19511920	-1.64422034
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SLC16A2	-0.21642906	0.19514890	-1.64404750
KLK12	-0.21640636	0.19519985	-1.64386660
OIP5	-0.21637359	0.19528150	-1.64360543
NODAL	-0.21627941	0.19555036	-1.64285496
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VKORC1	-0.21620736	0.19573376	-1.64228082
C6orf218	-0.21618259	0.19579115	-1.64208342
C8orf45	0.21614775	0.19583996	1.64180580
FAM63B	0.21614297	0.19583996	1.64176772
TG	-0.21614272	0.19583996	-1.64176576
KIAA0408	-0.21614431	0.19583996	-1.64177840
C12orf49	0.21610016	0.19595171	1.64142659

DOCK9	0.21608125	0.19599122	1.64127597
STAMBP	0.21606731	0.19601557	1.64116488
SYAP1	0.21604075	0.19607847	1.64095330
NUDT16P	-0.21600249	0.19615891	-1.64064846
UPP1	-0.21600527	0.19615891	-1.64067057
OSTalpha	0.21599640	0.19615930	1.64059989
PCP4	-0.21593384	0.19633229	-1.64010153
RBM19	-0.21584169	0.19659601	-1.63936735
NHEDC1	-0.21578969	0.19673695	-1.63895314
ELA1	-0.21577867	0.19675242	-1.63886532
WASF1	-0.21576908	0.19676351	-1.63878892
GPR148	-0.21575586	0.19678571	-1.63868365
CTNNBIP1	-0.21571934	0.19687930	-1.63839276
KIAA1609	0.21570428	0.19689784	1.63827277
C19orf15	-0.21570136	0.19689784	-1.63824948
FAM123C	-0.21565228	0.19701168	-1.63785854
C6orf199	0.21565345	0.19701168	1.63786788
OR7D4	-0.21562298	0.19706491	-1.63762515
EPHA6	-0.21562611	0.19706491	-1.63765008
FAM108A5	-0.21561652	0.19706642	-1.63757369
PANX1	0.21560130	0.19709478	1.63745248
ODZ1	-0.21557072	0.19717026	-1.63720894
RPUSD3	0.21554111	0.19724279	1.63697308
ZNF828	0.21552846	0.19726329	1.63687233
UGCGL2	0.21549676	0.19734225	1.63661985
WNT11	-0.21548935	0.19734669	-1.63656081
TLK2	0.21547973	0.19735789	1.63648423
ZNF557	0.21545297	0.19741453	1.63627111
PRSS12	0.21544934	0.19741453	1.63624222
CXCL1	0.21541731	0.19747623	1.63598712
KIAA0528	0.21541789	0.19747623	1.63599168
CAPN5	0.21541024	0.19747964	1.63593076
GBP4	0.21537435	0.19749824	1.63564500
SIRT3	-0.21538282	0.19749824	-1.63571241
NUPR1	-0.21538278	0.19749824	-1.63571207
FGD6	0.21537874	0.19749824	1.63567991
ZNF486	0.21539744	0.19749824	1.63582885
OR51T1	-0.21534993	0.19755492	-1.63545050
IGLL1	-0.21534368	0.19755581	-1.63540069
MORF4	-0.21532857	0.19758390	-1.63528036
USP11	0.21530933	0.19762467	1.63512716
ZNF587	0.21529743	0.19764292	1.63503237
ST6GALNAC2	0.21527628	0.19768954	1.63486401
LOC100133355	-0.21525795	0.19769094	-1.63471797
OCA2	-0.21525930	0.19769094	-1.63472875
FAM38A	-0.21526420	0.19769094	-1.63476778
TFAP4	-0.21523739	0.19773578	-1.63455425
DDX51	-0.21521756	0.19775803	-1.63439642
LOC440093	0.21522057	0.19775803	1.63442035
LYRM7	0.21521226	0.19775803	1.63435419

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

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

PAK3	-0.21315564	0.20229090	-1.61798872	
TMEM156	0.21313866	0.20229776	1.61785373	
DOCK7	0.21304954	0.20255736	1.61714509	
HSPA1A	0.21302044	0.20262968	1.61691365	
TTLL5	0.21298810	0.20267522	1.61665653	yes
SGEF	0.21298801	0.20267522	1.61665584	
DENND1C	-0.21299036	0.20267522	-1.61667448	
GSTCD	0.21297624	0.20269342	1.61656221	
PRPF40B	-0.21294322	0.20277798	-1.61629974	
LNPEP	0.21293148	0.20279608	1.61620640	
GLE1	0.21289048	0.20288928	1.61588040	
FIS1	-0.21288119	0.20288928	-1.61580649	
RNF20	0.21287213	0.20288928	1.61573447	
LOC643233	-0.21288134	0.20288928	-1.61580770	
IGSF8	-0.21287193	0.20288928	-1.61573288	
RPS2P9	-0.21285712	0.20291697	-1.61561516	
UBE2CBP	0.21284439	0.20293817	1.61551398	
FAM120B	0.21282396	0.20298346	1.61535154	
UGT2B28	-0.21276021	0.20316427	-1.61484469	
ZNF256	0.21272826	0.20322702	1.61459071	
FRMD7	-0.21273274	0.20322702	-1.61462637	
KIN	0.21271229	0.20325837	1.61446380	
USP50	-0.21270447	0.20326426	-1.61440159	
DIDO1	0.21269378	0.20327910	1.61431663	
KLRG1	0.21267678	0.20330196	1.61418147	
LIPK	-0.21267458	0.20330196	-1.61416403	
WFDC10A	-0.21263679	0.20338307	-1.61386355	
GPX2	0.21263996	0.20338307	1.61388881	
CDK5RAP2	0.21262857	0.20339017	1.61379827	
ITGB3	-0.21259832	0.20346630	-1.61355776	
CYTH3	-0.21258889	0.20347719	-1.61348284	
C2orf24	0.21257173	0.20351232	1.61334643	
FBXO43	-0.21254915	0.20356445	-1.61316691	yes
SNORD32A	-0.21253858	0.20357892	-1.61308293	
GPR174	0.21250212	0.20367455	1.61279311	
PBX3	-0.21246082	0.20378537	-1.61246484	
CMTM4	0.21244888	0.20380204	1.61236999	
OPA3	-0.21244361	0.20380204	-1.61232809	
ATP8B4	0.21243630	0.20380632	1.61227000	
LOC100128840	-0.21242872	0.20381147	-1.61220970	
ELP4	0.21236431	0.20399483	1.61169779	
CLDN6	-0.21233530	0.20406719	-1.61146726	
XCL2	-0.21228759	0.20419829	-1.61108806	
C2orf84	-0.21227514	0.20421873	-1.61098908	
PXMP2	-0.21225163	0.20427386	-1.61080229	
FAM47B	-0.21223188	0.20429855	-1.61064535	
FLJ25770	-0.21223320	0.20429855	-1.61065581	
UHRF1BP1L	0.21220961	0.20434984	1.61046834	
SPANXN5	-0.21220134	0.20435714	-1.61040264	
ADAM9	0.21219268	0.20436569	1.61033378	

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

ANKDD1B	0.21104640	0.20702615	1.60122801
ZNF252	0.21101135	0.20711843	1.60094963
OR2AK2	-0.21099291	0.20715805	-1.60080322
HTR3A	-0.21092784	0.20733131	-1.60028655
MMP28	-0.21092639	0.20733131	-1.60027505
FUT10	0.21091182	0.20735869	1.60015936
FETUB	-0.21089067	0.20739016	-1.59999143
SLC6A15	0.21089002	0.20739016	1.59998630
RP11-167P23.2	-0.21087652	0.20741415	-1.59987909
SLC25A11	0.21078719	0.20767887	1.59916982
ZNF648	-0.21074880	0.20775157	-1.59886501
TBC1D17	-0.21075390	0.20775157	-1.59890556
UGT2A3	-0.21074648	0.20775157	-1.59884662
ALDH2	0.21072420	0.20780347	1.59866976
VSIG8	-0.21070638	0.20783102	-1.59852826
TAS2R7	-0.21070365	0.20783102	-1.59850661
WDR74	0.21062649	0.20805740	1.59789403
LOC203510	-0.21059926	0.20812511	-1.59767786
ARL4A	0.21052348	0.20832882	1.59707630
UMODL1	-0.21052335	0.20832882	-1.59707528
FBXO39	-0.21049733	0.20839275	-1.59686869
RRM1	0.21049013	0.20839674	1.59681160
PIK3R2	-0.21044965	0.20848781	-1.59649025
PURA	0.21045232	0.20848781	1.59651146
LLPH	0.21043218	0.20852451	1.59635162
MBD2	0.21040236	0.20860058	1.59611491
KLRK1	0.21038173	0.20864737	1.59595118
ADRBK2	0.21037471	0.20865084	1.59589541
FOXE1	-0.21036358	0.20866738	-1.59580705
ATP6V0D2	-0.21030927	0.20882153	-1.59537601
SLC39A2	-0.21027776	0.20888410	-1.59512594
IMPDH2	0.21028081	0.20888410	1.59515012
FANCB	-0.21021592	0.20906241	-1.59463510
AXL	-0.21020327	0.20908380	-1.59453474
RPS15AP25	-0.21019067	0.20910505	-1.59443476
NEDD4L	0.21017297	0.20914258	1.59429427
ANKHD1	0.21012230	0.20928535	1.59389216
LRRC29	-0.21009621	0.20931176	-1.59368512
MSH4	-0.21010379	0.20931176	-1.59374529
CROP	0.21009704	0.20931176	1.59369165
CCDC66	0.21006456	0.20937490	1.59343396
RPP25	-0.21006461	0.20937490	-1.59343435
ERH	0.21002273	0.20947057	1.59310202
WNT2	-0.21002339	0.20947057	-1.59310720
PSMD8	0.21000574	0.20950589	1.59296716
IL26	-0.20998555	0.20955141	-1.59280699
SOX15	-0.20993123	0.20968707	-1.59237592
PNMA6A	-0.20993480	0.20968707	-1.59240430
CLCN4	-0.20990615	0.20973661	-1.59217693
FBXL2	0.20990386	0.20973661	1.59215872

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

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

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

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

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

SOD2	0.20489102	0.22125756	1.55244796	
TFDP1	0.20485864	0.22127832	1.55219187	
PYGO2	-0.20486358	0.22127832	-1.55223093	
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MAP3K4	0.20472179	0.22161426	1.55110960	
PPAPDC1B	0.20471191	0.22162740	1.55103150	
IGFBP4	-0.20470421	0.22163333	-1.55097063	
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CPXM2	-0.20461855	0.22185862	-1.55029323	
SURF6	-0.20460117	0.22189670	-1.55015574	
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FBF1	-0.20452943	0.22203670	-1.54958851	
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KCTD4	-0.20446965	0.22218104	-1.54911585	
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ZNF135	-0.20446644	0.22218104	-1.54909047	
TOX4	0.20445633	0.22218104	1.54901054	
CPXCR1	-0.20444280	0.22218699	-1.54890352	
ANGPTL4	-0.20440666	0.22228739	-1.54861779	
ALOX12	-0.20438728	0.22229288	-1.54846459	
ASB4	-0.20438935	0.22229288	-1.54848093	
CMIP	0.20439272	0.22229288	1.54850758	
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UBAP2L	0.20437229	0.22230343	1.54834608	
KRT78	-0.20433136	0.22241188	-1.54802245	
MMS19	0.20432784	0.22241188	1.54799459	
TYW3	0.20429806	0.22249120	1.54775917	
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RAD18	0.20420139	0.22277332	1.54699495	
BSG	0.20415476	0.22290882	1.54662631	
CXorf22	0.20414566	0.22291210	1.54655440	
ACAD10	0.20414196	0.22291210	1.54652512	
LOC100129038	-0.20406241	0.22315725	-1.54589629	
ALS2CR4	0.20404946	0.22318070	1.54579394	
SNORD116-28	0.20403185	0.22321969	1.54565470	
DSG2	0.20397294	0.22339627	1.54518909	
TMED8	0.20396702	0.22339634	1.54514223	
C1orf187	-0.20391316	0.22355617	-1.54471656	
GLRB	-0.20389371	0.22360135	-1.54456280	
C12orf54	-0.20384285	0.22375128	-1.54416084	
PHLDB1	-0.20383501	0.22375772	-1.54409889	

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RPL23AP37	-0.20377030	0.22391453	-1.54358744
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SNORD61	0.20375011	0.22394578	1.54342785
LOC100133425	0.20371760	0.22401156	1.54317096
SCPEP1	0.20371899	0.22401156	1.54318195
LGALS13	-0.20366987	0.22415127	-1.54279368
ZNF549	-0.20365368	0.22418559	-1.54266578
ATL2	0.20364404	0.22419806	1.54258961
APOA5	-0.20363122	0.22422115	-1.54248829
FSD2	-0.20362116	0.22423503	-1.54240879
TTC21B	0.20361294	0.22424278	1.54234378
SLC7A11	0.20359552	0.22428122	1.54220617
CLEC7A	-0.20357554	0.22432827	-1.54204824
MARCH9	-0.20356054	0.22435864	-1.54192975
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CERKL	0.20349836	0.22452703	1.54143838
LOC440104	-0.20346547	0.22461728	-1.54117847
AQP5	-0.20344685	0.22465982	-1.54103133
EVC	-0.20343138	0.22469180	-1.54090912
FAM127C	-0.20338826	0.22481632	-1.54056843
GPC4	0.20338091	0.22482115	1.54051035
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UBE4A	0.20334847	0.22489020	1.54025402
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GNG10	-0.20332093	0.22494283	-1.54003646
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FBXL6	-0.20328482	0.22498466	-1.53975112
THSD1	-0.20326763	0.22502243	-1.53961534
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PENK	-0.20303085	0.22561812	-1.53774472
LOC729627	-0.20299504	0.22571847	-1.53746183
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LAMB2	-0.20292784	0.22589361	-1.53693098
OR5K2	-0.20291924	0.22589361	-1.53686307
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ROPN1L	0.20289585	0.22595232	1.53667831
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PGBD3	0.20273611	0.22634426	1.53541663
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EVL	-0.20270823	0.22638436	-1.53519638
FBXO30	0.20271254	0.22638436	1.53523043
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PCDHA4	-0.20268777	0.22641343	-1.53503484
B3GNT9	-0.20266980	0.22645402	-1.53489290
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ADARB2	-0.20255936	0.22672223	-1.53402067
HLA-DQA2	-0.20255609	0.22672223	-1.53399488
FAM13B	0.20256145	0.22672223	1.53403722
CST3	-0.20249244	0.22691178	-1.53349222
SNORA37	-0.20245597	0.22701473	-1.53320421
BRE	0.20243294	0.22707241	1.53302237
TTRAP	0.20242246	0.22708783	1.53293962
CXorf59	0.20234069	0.22730374	1.53229389
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EFCAB1	0.20234128	0.22730374	1.53229862
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C7orf49	0.20233143	0.22731279	1.53222083
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KLRF1	0.20221976	0.22759212	1.53133908
ANKRD18B	0.20220838	0.22760745	1.53124927
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MFN2	0.20218260	0.22765777	1.53104567
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PGS1	0.20213741	0.22777045	1.53068889
ENOSF1	0.20210898	0.22783631	1.53046442
MAPK1	0.20210610	0.22783631	1.53044168
CALML5	-0.20208352	0.22789262	-1.53026343
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CMC1	0.20199868	0.22809944	1.52959368
C9orf106	-0.20200707	0.22809944	-1.52965991
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DNPEP	0.20186812	0.22838119	1.52856302

PRTFDC1	0.20186073	0.22838623	1.52850468
C14orf1	0.20183579	0.22845063	1.52830779
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PHC2	-0.20176652	0.22861206	-1.52776105
ANXA3	0.20174677	0.22861206	1.52760516
APOC1	-0.20174987	0.22861206	-1.52762958
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TRIM22	0.20166467	0.22884692	1.52695716
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CHCHD1	0.20166018	0.22884692	1.52692168
SYNPO2	-0.20165379	0.22884692	-1.52687123
TMC2	-0.20164424	0.22885394	-1.52679589
FPR3	0.20163992	0.22885394	1.52676179
ZNF716	-0.20161752	0.22890983	-1.52658495
HIGD2BP	-0.20157055	0.22902895	-1.52621427
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SEMA3E	-0.20152404	0.22916653	-1.52584724
NEO1	0.20148594	0.22925568	1.52554655
C6orf162	0.20148650	0.22925568	1.52555099
CD6	-0.20142909	0.22942843	-1.52509790
EFCAB6	0.20142212	0.22943208	1.52504288
TRIM16	0.20140181	0.22946946	1.52488259
SERP1	0.20139930	0.22946946	1.52486281
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ZNF676	-0.20137483	0.22947612	-1.52466969
HSPA1L	0.20138036	0.22947612	1.52471335
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PPOX	0.20134067	0.22952833	1.52440017
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DEPDC7	-0.20124675	0.22972701	-1.52365900
GREM2	-0.20122784	0.22977119	-1.52350979
TLE3	-0.20121582	0.22979196	-1.52341499
STX2	0.20119476	0.22982346	1.52324877
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UQCRFSL1	0.20105137	0.23011028	1.52211744
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EMR3	-0.20093565	0.23036338	-1.52120450
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DDAH2	-0.20091996	0.23039004	-1.52108066
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CCDC120	-0.20087029	0.23048550	-1.52068882
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THAP6	0.20080219	0.23067706	1.52015160
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PHC3	0.20075188	0.23076809	1.51975474
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OR9A4	-0.20058629	0.23119155	-1.51844863
ERF	-0.20058977	0.23119155	-1.51847609
MED24	0.20057377	0.23121414	1.51834989
BRUNOL6	-0.20054900	0.23127849	-1.51815451
RASSF1	-0.20048882	0.23145926	-1.51767989
TIGD4	0.20048419	0.23145926	1.51764335
USP5	0.20044792	0.23156285	1.51735732
CCDC21	0.20043431	0.23158919	1.51724999
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MRAP2	0.20036166	0.23174462	1.51667700
PGM5	-0.20035942	0.23174462	-1.51665937
FBXO42	0.20035343	0.23174462	1.51661210
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RP1	0.20029171	0.23187490	1.51612537
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SIRT1	0.20016854	0.23221510	1.51515412
PLEKHA1	0.20013846	0.23229777	1.51491695
CAPN6	-0.20009499	0.23242624	-1.51457418
DHCR24	0.20007209	0.23248441	1.51439362

AKAP9	0.20005512	0.23252233	1.51425976	
MUC1	0.20004109	0.23255016	1.51414918	
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EFCAB10	0.19997891	0.23270248	1.51365886	
C21orf59	0.19998393	0.23270248	1.51369845	
MAP3K7IP2	0.19996929	0.23271525	1.51358303	
CDH5	-0.19996017	0.23272630	-1.51351115	
DNM1	-0.19994842	0.23274066	-1.51341852	
SRM	-0.19994420	0.23274066	-1.51338526	
AKR1A1	0.19990367	0.23282678	1.51306569	
NUB1	0.19990831	0.23282678	1.51310228	
DBNDD2	-0.19989550	0.23282678	-1.51300127	
RP9	-0.19989830	0.23282678	-1.51302337	
HMHA1	-0.19988300	0.23284943	-1.51290269	
RPL29P8	-0.19987109	0.23284989	-1.51280886	
SLC22A24	-0.19987166	0.23284989	-1.51281335	
PSPH	0.19984853	0.23290698	1.51263097	
C7orf62	-0.19979180	0.23306094	-1.51218370	
SP2	-0.19979427	0.23306094	-1.51220317	
KLHL26	-0.19977501	0.23308131	-1.51205136	
TLE6	-0.19977408	0.23308131	-1.51204404	
CD22	-0.19976805	0.23308182	-1.51199648	yes
PPPDE2	-0.19974842	0.23312890	-1.51184174	
TMEM194A	0.19972024	0.23320528	1.51161958	
NEK10	0.19970230	0.23324658	1.51147819	
GGH	0.19969193	0.23326196	1.51139642	
PHF5A	-0.19964957	0.23338694	-1.51106255	
CPB1	-0.19963961	0.23339913	-1.51098403	
APOB48R	-0.19962837	0.23339913	-1.51089541	
RBL1	0.19962876	0.23339913	1.51089850	
BIRC5	-0.19962098	0.23340431	-1.51083715	
KCTD1	0.19960774	0.23342952	1.51073281	
CYP4B1	0.19957455	0.23352315	1.51047117	
GAS2	-0.19955803	0.23353173	-1.51034090	
GDF5OS	-0.19956259	0.23353173	-1.51037687	
ZNF74	-0.19955441	0.23353173	-1.51031237	
ZNF367	-0.19952071	0.23362710	-1.51004680	
LOC100129191	-0.19951409	0.23362964	-1.50999462	
INSRR	-0.19948763	0.23370022	-1.50978607	
S100A1L	0.19944876	0.23380504	1.50947964	
TMCO4	0.19944532	0.23380504	1.50945253	
ITPK1	-0.19942886	0.23384132	-1.50932285	
SMCP	-0.19940731	0.23389512	-1.50915296	
HRNR	-0.19937304	0.23399257	-1.50888284	
RPS12P9	-0.19934549	0.23406696	-1.50866574	
RDH5	-0.19932135	0.23412965	-1.50847552	
HEXIM2	-0.19929526	0.23419906	-1.50826988	
CAMP	-0.19928747	0.23420565	-1.50820845	
PLP2	0.19925623	0.23429274	1.50796231	
C19orf52	-0.19922758	0.23437099	-1.50773650	

THNSL2	0.19921679	0.23438786	1.50765148	
RPLP1	0.19920979	0.23439172	1.50759630	
SMR3A	-0.19919636	0.23441767	-1.50749046	
CD1D	-0.19914191	0.23458465	-1.50706136	
TMC1	-0.19912169	0.23461373	-1.50690206	
ALAS2	-0.19912434	0.23461373	-1.50692289	
ROBLD3	-0.19908102	0.23473340	-1.50658154	
ZNF717	0.19905890	0.23478927	1.50640724	
SMC2	0.19903857	0.23479854	1.50624706	
FAM76A	0.19904327	0.23479854	1.50628411	
EFCAB4A	-0.19904932	0.23479854	-1.50633178	
NINJ1	-0.19899019	0.23494479	-1.50586584	
ZNF138	0.19898116	0.23495566	1.50579464	
OR5AR1	-0.19896953	0.23496991	-1.50570302	
DAAM1	0.19895938	0.23496991	1.50562306	
AKR7A2	0.19896518	0.23496991	1.50566880	
GPX4	0.19894916	0.23498332	1.50554256	
RBM38	-0.19894373	0.23498332	-1.50549976	
SEC63	0.19890615	0.23508019	1.50520367	
SMOC2	-0.19890384	0.23508019	-1.50518543	
ARF6	-0.19889774	0.23508094	-1.50513741	
ASB15	-0.19888266	0.23510041	-1.50501856	
LCORL	0.19887791	0.23510041	1.50498116	
GUSBL2	0.19887446	0.23510041	1.50495396	
RRP1B	0.19885613	0.23514329	1.50480955	
ARHGEF17	-0.19884733	0.23515336	-1.50474021	
LIPN	-0.19883157	0.23518740	-1.50461604	
DENND3	-0.19881185	0.23519109	-1.50446065	
SCGB2A1	0.19882112	0.23519109	1.50453373	
ZFP106	0.19880700	0.23519109	1.50442249	
NAT11	0.19881536	0.23519109	1.50448831	
OSBPL7	-0.19878904	0.23521251	-1.50428092	
RUNX3	-0.19879460	0.23521251	-1.50432474	
SNCA	0.19872269	0.23542080	1.50375825	
LOC391081	-0.19871501	0.23542704	-1.50369770	
DDX25	-0.19870676	0.23543523	-1.50363272	
BHMT2	-0.19868812	0.23547922	-1.50348587	
ABCC11	-0.19867560	0.23550213	-1.50338722	
BTBD11	0.19865626	0.23554853	1.50323490	
EIF2AK4	0.19858550	0.23577224	1.50267749	
ZFC3H1	0.19857513	0.23578775	1.50259580	
NBEA	0.19856181	0.23579319	1.50249084	
OR11G2	-0.19856661	0.23579319	-1.50252865	
LOC100131402	0.19850901	0.23595509	1.50207491	
CHD4	0.19848930	0.23600282	1.50191970	
TRGV8	0.19848319	0.23600365	1.50187153	
HBE1	-0.19844661	0.23610964	-1.50158340	
C11orf30	0.19843851	0.23611732	1.50151961	yes
LOC100131756	-0.19842317	0.23615002	-1.50139875	
IRS1	-0.19840430	0.23619489	-1.50125012	

JMJD1A	0.19837766	0.23624632	1.50104031	
C5orf42	0.19838058	0.23624632	1.50106332	
ZNF675	0.19832362	0.23638092	1.50061462	
SERPINB9	0.19833272	0.23638092	1.50068630	
ZNF654	0.19832108	0.23638092	1.50059462	
ZNF826	-0.19829808	0.23644008	-1.50041350	
PVRL4	0.19828200	0.23647536	1.50028683	
GUCA2B	-0.19822313	0.23662073	-1.49982319	
LOC441601	-0.19822232	0.23662073	-1.49981684	
QPCTL	-0.19822459	0.23662073	-1.49983471	
BATF	-0.19819053	0.23671033	-1.49956647	
MYPN	-0.19817050	0.23675929	-1.49940872	
PAQR6	-0.19814960	0.23679099	-1.49924407	
DDX46	0.19815032	0.23679099	1.49924976	
ARMCX6	-0.19814149	0.23679872	-1.49918023	
LOC284009	-0.19811069	0.23684435	-1.49893764	
RXFP1	-0.19811948	0.23684435	-1.49900686	
ZNF33B	0.19811360	0.23684435	1.49896061	yes
LOC100133405	0.19810354	0.23684877	1.49888136	
CCND2	-0.19808466	0.23689377	-1.49873268	
ATP6VOC	0.19800929	0.23713427	1.49813913	
ZNF493	0.19796283	0.23726431	1.49777330	
HNMT	0.19795412	0.23726431	1.49770466	
TRPS1	0.19795726	0.23726431	1.49772943	
ZFP42	-0.19794508	0.23727528	-1.49763350	
FSTL4	-0.19790223	0.23740336	-1.49729608	
CENPM	-0.19788234	0.23745191	-1.49713951	
PASK	0.19783339	0.23760121	1.49675405	
LOC100128496	-0.19781945	0.23760883	-1.49664431	
ZNF680	0.19781967	0.23760883	1.49664601	
LOC100130794	-0.19777736	0.23767337	-1.49631285	
HFM1	-0.19778521	0.23767337	-1.49637472	
IGFBP6	-0.19778241	0.23767337	-1.49635265	
ATP2A3	-0.19779215	0.23767337	-1.49642936	
LOC220429	-0.19775824	0.23771930	-1.49616232	
CYP4F12	0.19770562	0.23788141	1.49574805	
LOC643699	-0.19763085	0.23812049	-1.49515937	
SFRS12	0.19760296	0.23817655	1.49493979	
ZCCHC14	0.19760369	0.23817655	1.49494553	
L1CAM	-0.19758128	0.23823145	-1.49476908	
FLJ20184	0.19756442	0.23826960	1.49463638	
HDX	-0.19754757	0.23829794	-1.49450376	
IFNW1	-0.19754037	0.23829794	-1.49444708	
NAGLU	-0.19753419	0.23829794	-1.49439837	
PLD1	0.19753278	0.23829794	1.49438731	
GALNT10	-0.19752017	0.23832134	-1.49428806	
TRAV13-2	0.19750448	0.23835546	1.49416453	
MOBP	-0.19747551	0.23841533	-1.49393643	
SDAD1	0.19747660	0.23841533	1.49394505	
CCDC122	0.19742771	0.23856100	1.49356017	

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

DCTPP1	0.19637520	0.24119447	1.48527752	
SNORD51	0.19632115	0.24135665	1.48485238	
ADCYAP1	-0.19631096	0.24136697	-1.48477224	
PHRF1	-0.19630647	0.24136697	-1.48473691	
ZNF445	0.19629566	0.24138430	1.48465183	
LPCAT1	-0.19625175	0.24151751	-1.48430647	
MGST3	0.19622136	0.24160343	1.48406741	
SELL	-0.19617035	0.24174650	-1.48366616	
KIAA0586	0.19616881	0.24174650	1.48365400	
NTM	-0.19611300	0.24192157	-1.48321507	
RPL36AP49	-0.19609290	0.24197149	-1.48305698	
WDR32	0.19596083	0.24241446	1.48201815	
ATXN2	0.19595359	0.24241926	1.48196123	yes
MBIP	0.19591623	0.24251526	1.48166739	
CATSPERB	0.19591452	0.24251526	1.48165397	
TBC1D2	0.19588668	0.24254377	1.48143506	
BAX	-0.19589098	0.24254377	-1.48146887	
TGFBR1	0.19587707	0.24254377	1.48135943	
ZMYM1	0.19588053	0.24254377	1.48138664	
ABCG1	-0.19588821	0.24254377	-1.48144705	
LOC100129113	-0.19586654	0.24254409	-1.48127660	
CXorf1	-0.19586524	0.24254409	-1.48126643	
CC2D2A	0.19585863	0.24254672	1.48121442	
hCG_1640171	0.19581063	0.24269474	1.48083697	
LOC100128501	-0.19579777	0.24269873	-1.48073578	
SCRIB	-0.19579946	0.24269873	-1.48074909	
FAM131C	-0.19578320	0.24272932	-1.48062120	
RPS12	0.19572620	0.24290906	1.48017297	
LOC440742	-0.19569651	0.24299282	-1.47993954	
GPR114	-0.19566793	0.24305090	-1.47971481	
DTX4	-0.19567176	0.24305090	-1.47974493	
LOC284422	-0.19566240	0.24305090	-1.47967132	
PRPF19	0.19565055	0.24307198	1.47957808	
CALML6	-0.19563337	0.24311176	-1.47944304	
ELN	-0.19560436	0.24319321	-1.47921488	
TMEM214	-0.19553815	0.24340559	-1.47869432	
SNRNP70	-0.19549947	0.24352116	-1.47839016	
FZD1	-0.19541088	0.24381262	-1.47769368	
TRPC4	-0.19532641	0.24408984	-1.47702951	
FRMPD1	-0.19531276	0.24411727	-1.47692226	
ATG4B	-0.19525854	0.24428791	-1.47649600	
CLCA4	0.19521755	0.24441192	1.47617373	
FNIP1	0.19518164	0.24451802	1.47589141	
ZNF180	0.19516880	0.24454263	1.47579050	
GFER	-0.19512435	0.24466146	-1.47544110	
POLR3E	0.19512343	0.24466146	1.47543383	
INO80D	0.19501634	0.24501932	1.47459205	
LOC100133315	0.19500965	0.24502222	1.47453945	
SORBS2	-0.19499327	0.24505939	-1.47441071	
NMRAL1	-0.19493956	0.24522865	-1.47398860	

HSPA6	-0.19492243	0.24526851	-1.47385392	
EPHB3	-0.19490990	0.24527129	-1.47375545	
FLJ42280	-0.19491470	0.24527129	-1.47379319	
C15orf24	0.19487995	0.24535544	1.47352004	
SLC6A4	-0.19487439	0.24535544	-1.47347632	
MRPL32	0.19479947	0.24560000	1.47288747	
LARGE	-0.19478239	0.24563969	-1.47275330	
IGSF6	-0.19476547	0.24567884	-1.47262032	
IER3IP1	0.19472963	0.24576425	1.47233862	
DBR1	0.19473174	0.24576425	1.47235517	
RBM24	0.19470361	0.24581486	1.47213414	
KRT5	0.19470500	0.24581486	1.47214507	
TAS2R60	-0.19469464	0.24582583	-1.47206367	
TTC24	-0.19465181	0.24593606	-1.47172707	
IL33	0.19465556	0.24593606	1.47175656	
BLNK	0.19462116	0.24602392	1.47148623	
NCL	0.19461232	0.24603446	1.47141674	
LOC401127	-0.19457684	0.24609786	-1.47113788	
CDKAL1	0.19458134	0.24609786	1.47117328	
SPAG6	0.19457925	0.24609786	1.47115684	
LOC392285	-0.19456447	0.24611946	-1.47104071	
C10orf95	-0.19455901	0.24611946	-1.47099778	
WNT5B	-0.19454321	0.24615468	-1.47087365	
METTL2B	0.19452198	0.24620917	1.47070685	
SNRNP48	0.19449927	0.24626893	1.47052838	
CUL4B	0.19448906	0.24628433	1.47044818	
ZBBX	0.19448299	0.24628505	1.47040045	
LOC143188	-0.19444797	0.24638853	-1.47012524	
C16orf74	-0.19441753	0.24647575	-1.46988608	
MAD2L1BP	0.19438643	0.24656536	1.46964169	
NIPSNAP3B	0.19437461	0.24658648	1.46954885	
MLC1	-0.19426651	0.24686059	-1.46869951	
ANXA5	0.19427315	0.24686059	1.46875165	
C1orf118	-0.19427354	0.24686059	-1.46875475	
TNAP	-0.19427480	0.24686059	-1.46876464	
RPS7	-0.19426225	0.24686059	-1.46866602	
CHST2	-0.19428714	0.24686059	-1.46886159	
OR1A2	-0.19418587	0.24708582	-1.46806592	
HAGHL	-0.19418682	0.24708582	-1.46807344	
N4BP1	0.19418129	0.24708582	1.46802997	yes
CLEC10A	-0.19417260	0.24709586	-1.46796168	
FUT9	-0.19415983	0.24709954	-1.46786135	
PIP5K1C	-0.19416150	0.24709954	-1.46787450	
GPR15	0.19415368	0.24710052	1.46781310	
GALM	0.19412930	0.24716636	1.46762155	
HNRNP42	0.19406626	0.24736979	1.46712627	
FOXQ1	-0.19404784	0.24741446	-1.46698157	
GPR19	-0.19403914	0.24741487	-1.46691322	
DISP1	0.19403599	0.24741487	1.46688848	
CCDC17	0.19401095	0.24747166	1.46669177	

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