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Gene	L2FC	T-Score	P-Val	FDR
AXIN1	0.671577068	11.09951667	1.86E-16	1.89E-12
CTNNB1	0.760180226	10.28902978	3.39E-15	1.72E-11
DKK 4.00	4.049560695	8.936154143	1.95E-11	6.39E-08
LEF1	1.308742669	8.193786298	2.52E-11	6.39E-08
CXADR	0.997505	7.466152621	3.19E-10	6.48E-07
HCLS1	-0.923478947	-7.331605792	4.94E-10	8.36E-07
LRP4	1.549850376	7.692145605	5.79E-10	8.4E-07
KIAA0513	-0.82651391	-7.107987533	1.59E-09	2.02E-06
PFN1	-0.365278308	-6.875863999	3.4E-09	3.83E-06
ERVMER34.1	1.807141875	7.644841718	3.83E-09	3.89E-06
IGSF8	0.868814098	7.091307727	4.35E-09	4.01E-06
PAPSS2	-0.926602068	-6.70979871	6.18E-09	5.23E-06
VWA2	1.511594737	6.953529233	7.15E-09	5.58E-06
MALT1	0.673492782	7.445659511	8.67E-09	6.28E-06
NCK1	-0.390461504	-6.669964109	9.95E-09	6.73E-06
SORBS2	0.746516353	6.730227756	1.18E-08	7.46E-06
LSP1	-0.84351485	-6.515756984	1.52E-08	8.46E-06
APCDD1	1.860905639	7.505745938	1.57E-08	8.46E-06
SLC5A6	0.924589511	6.532257733	1.64E-08	8.46E-06
SCARB2	0.833618722	6.570656191	1.67E-08	8.46E-06
ALDH3A2	1.06528953	6.913706714	1.79E-08	8.63E-06
GLCE	0.707809023	6.827270596	1.88E-08	8.66E-06
RTL10	0.560866955	6.491490559	2.04E-08	8.99E-06
CERS6	0.856439135	6.456022597	3.26E-08	1.38E-05
TTC9	0.863900263	6.273039597	4.49E-08	1.82E-05
RCN2	0.735415714	6.78438124	5.45E-08	2.13E-05
PCDH19	1.048733158	6.122927712	6.35E-08	2.35E-05
SEMA4C	0.605752932	6.406660281	6.48E-08	2.35E-05
ACAP1	-0.546038759	-6.071007022	8.05E-08	2.82E-05

ARHGAP9	-0.554899962	-6.028575614	9.05E-08	3.06E-05
VSNL1	2.141744828	6.685915304	9.93E-08	3.25E-05
DOCK8	-0.58712218	-6.156908934	1.07E-07	3.41E-05
TNFRSF19	1.079739245	6.166847501	1.27E-07	3.92E-05
ARHGAP45	-0.607145263	-5.970324616	1.35E-07	4.03E-05
ACSL5	1.624273609	6.296842684	1.49E-07	4.33E-05
DAPP1	-0.635451689	-6.052208143	1.58E-07	4.46E-05
PTK2B	-0.60436782	-5.922909096	1.77E-07	4.84E-05
ANKRD13A	-0.40393203	-5.885604716	1.82E-07	4.86E-05
INPP5D	-0.579260207	-5.876260395	2.11E-07	5.5E-05
ADGRG2	1.151154313	6.238819049	2.21E-07	5.61E-05
FNBP1	-0.535319023	-5.888440468	2.55E-07	6.31E-05
CXCL14	1.783105639	5.780788053	2.65E-07	6.41E-05
SULT1A4	-1.056770207	-5.713099435	3.14E-07	7.41E-05
SIPA1	-0.305308609	-5.695749465	3.39E-07	7.82E-05
MICAL1	-0.561222613	-5.680689945	3.83E-07	8.53E-05
PAMR1	-0.773555752	-5.724358292	3.9E-07	8.53E-05
ARRB2	-0.474596523	-5.669233309	3.95E-07	8.53E-05
KIF26B	0.63750406	5.751485661	4.35E-07	9.2E-05
PLPP2	0.75447156	5.622202263	4.51E-07	9.35E-05
PRKCQ	1.076370357	5.911537524	4.88E-07	9.86E-05
NOTUM	1.702103019	5.677061638	4.95E-07	9.86E-05
TNFAIP8L2	-0.730022782	-5.609767293	5.26E-07	0.000102699
BTK	-0.611414534	-5.60348738	5.51E-07	0.000102971
AGR3	-1.28768797	-5.565662277	5.54E-07	0.000102971
ITPR2	0.647577556	5.785142367	5.58E-07	0.000102971
RFX2	-1.003135282	-5.701133489	6.04E-07	0.000109499
PIGN	0.71713844	5.543181169	6.62E-07	0.000117511
PRXL2B	-0.552190771	-5.577602415	6.71E-07	0.000117511
SNX5	-0.31953812	-5.516513807	7.37E-07	0.000126732
FAM169A	0.614000169	5.628970489	7.57E-07	0.000126743
IL16	-0.710640395	-5.566187039	7.7E-07	0.000126743

DENND3	-0.562343564	-5.487429507	7.74E-07	0.000126743
ITGAX	-0.71931109	-5.476726639	7.92E-07	0.000127667
APP	0.562562293	5.718404006	8.57E-07	0.000132475
ARHGAP4	-0.522248459	-5.523850746	8.6E-07	0.000132475
DNM2	-0.288639049	-5.450369168	8.61E-07	0.000132475
WIF1	1.992739887	5.730449795	9.42E-07	0.000142778
NCKAP1L	-0.549411898	-5.434882266	9.73E-07	0.000145132
ITPK1	-0.568938383	-5.50604044	9.92E-07	0.000145132
USP6NL	0.449476372	5.568459502	1E-06	0.000145132
FMNL1	-0.649976504	-5.417951102	1.02E-06	0.000145132
FLII	-0.255735773	-5.530477275	1.04E-06	0.0001473
RNF130	-0.73112312	-5.461686602	1.1E-06	0.000152717
HSDL1	0.644760526	5.439190666	1.14E-06	0.000155108
ADAMTSL2	1.27454812	5.929299356	1.16E-06	0.000155108
STK10	-0.490848451	-5.404488481	1.16E-06	0.000155108
SFN	1.228876278	5.566131131	1.2E-06	0.000158063
IRF5	-0.556734305	-5.503491636	1.24E-06	0.000160548
TRAF3IP2	0.46715965	5.703945727	1.25E-06	0.000160548
ARRB1	-0.588768158	-5.421728569	1.28E-06	0.000162706
PIGO	0.439018985	5.394129815	1.33E-06	0.000166304
SKAP2	-0.67216406	-5.331082427	1.37E-06	0.000169352
CALML3	2.718660526	5.772171688	1.4E-06	0.000171222
SNX3	-0.382927068	-5.389250666	1.5E-06	0.000179827
ARHGDIB	-0.737045113	-5.34225802	1.52E-06	0.000179827
CEP135	-0.674638421	-5.312340326	1.53E-06	0.000179827
CTNNA2	1.209309023	5.515742852	1.54E-06	0.000179827
DOCK2	-0.599427744	-5.305512843	1.59E-06	0.000183747
CEMIP	1.032506538	5.647984063	1.66E-06	0.000188896
ERICH5	-1.130524857	-5.381885791	1.8E-06	0.000200028
CORO1A	-0.817777256	-5.281395674	1.82E-06	0.000200028
CSTB	-0.700345508	-5.259312472	1.83E-06	0.000200028
PLA2G4A	1.099396068	5.715546614	1.83E-06	0.000200028

RBP1	0.901505602	5.249188003	1.89E-06	0.000203698
ITGA2	0.790027105	5.243012933	1.92E-06	0.000204676
EPHA7	1.260414145	5.371389841	1.94E-06	0.000205492
DEF6	-0.342355008	-5.269410038	1.97E-06	0.00020574
PRR9	3.156304768	5.391757981	2.01E-06	0.000206439
CUL4B	0.23380403	5.411678297	2.01E-06	0.000206439
ARAP1	-0.318172594	-5.212980831	2.13E-06	0.000215699
UBA7	-0.535718722	-5.272881996	2.15E-06	0.000215757
SLC1A5	1.371667744	5.375711798	2.5E-06	0.000248289
TNFAIP8	-0.66749891	-5.211158326	2.53E-06	0.000249024
APBB1IP	-0.581105865	-5.211584869	2.62E-06	0.000255793
RHEB	0.475979436	5.314557555	2.66E-06	0.0002558
ABI3	-0.412199135	-5.201068464	2.67E-06	0.0002558
TNFAIP2	-0.653504436	-5.168297729	2.71E-06	0.000257277
RBPM5	-0.705902162	-5.356281805	2.74E-06	0.000257277
TPPP	-1.131381015	-5.171625677	2.79E-06	0.000259641
ADAP1	-0.512241165	-5.125981087	2.95E-06	0.000272572
PRKCB	-0.807637331	-5.195956966	3.01E-06	0.000275604
PHF6	0.455685297	5.285963969	3.19E-06	0.000289049
PLEKHO2	-0.531025109	-5.240604296	3.29E-06	0.000292377
RRAD	-1.034274117	-5.10638318	3.29E-06	0.000292377
IKBKB	-0.21694265	-5.095133839	3.31E-06	0.000292377
UGGT1	0.415070602	5.216771973	3.39E-06	0.000296432
CRYBB1	1.337943613	5.575450203	3.45E-06	0.000296852
CTSD	-0.448295677	-5.10697798	3.45E-06	0.000296852
WFS1	0.777544173	5.302077871	3.49E-06	0.000297346
THEMIS2	-0.521034774	-5.088344195	3.55E-06	0.000300599
ANKRD44	-0.417867857	-5.114389488	3.62E-06	0.000303358
OSCP1	-0.849156165	-5.074785015	3.67E-06	0.000305734
EFHD2	-0.602878226	-5.057091225	3.82E-06	0.00031538
CARS1	-0.258995771	-5.061074815	3.9E-06	0.000316938
ITSN2	-0.283008459	-5.159970778	3.9E-06	0.000316938

PPP1R9A	0.416015338	5.055271146	3.94E-06	0.000317434
CCL20	-1.046298857	-5.103783115	4E-06	0.000319095
NFKBIE	-0.258705504	-5.075542382	4.02E-06	0.000319095
POMK	0.413046278	5.134950114	4.11E-06	0.000319911
ARHGAP30	-0.595320996	-5.064390619	4.11E-06	0.000319911
SP6	2.015430126	5.299525855	4.15E-06	0.000319911
TMEM87A	0.492961316	5.081419905	4.16E-06	0.000319911
EZR	-0.688334774	-5.030736784	4.22E-06	0.000322083
RCSD1	-0.569256372	-5.07911004	4.33E-06	0.000327634
FOXA2	0.795329333	5.11002452	4.57E-06	0.000343863
CAP1	-0.330386461	-4.989794758	4.91E-06	0.000366308
ZFYVE27	0.532082801	5.062170581	4.94E-06	0.000366308
CXCL1	-1.331639286	-5.016256946	5.13E-06	0.000374405
TMEM185B	0.461422164	5.075903542	5.16E-06	0.000374405
LRRFIP1	-0.312654474	-4.997712957	5.16E-06	0.000374405
EFCAB14	0.647587613	5.082096509	5.3E-06	0.000381387
CFL1	-0.24146094	-4.979071045	5.35E-06	0.000382658
ARL 6.00	-0.501590959	-4.967465068	5.57E-06	0.000392982
BIN2	-0.700884098	-4.98539846	5.59E-06	0.000392982
VASP	-0.465708647	-4.954749335	5.61E-06	0.000392982
TRAF3IP3	-0.644827443	-5.039694235	5.7E-06	0.000396119
ARHGAP25	-0.544809925	-4.962211279	5.91E-06	0.000407967
MYO1F	-0.605267951	-4.939453548	5.98E-06	0.000409928
NCF1	-0.872120677	-4.934017415	6.07E-06	0.00041319
PLPP6	0.580178308	4.981482832	6.11E-06	0.000413312
GGT7	0.74388797	4.987088837	6.34E-06	0.000426447
FERMT3	-0.642707519	-4.933758047	6.57E-06	0.00043539
PSTPIP1	-0.636614098	-4.939879016	6.59E-06	0.00043539
STX17	0.240764286	4.976239028	6.61E-06	0.00043539
AIF1	-0.666051316	-4.909073096	7.22E-06	0.000472734
CEMIP2	0.694442876	5.054539152	7.45E-06	0.00048453
PIK3CD	-0.510110207	-4.92694991	7.82E-06	0.000502564

DACH1	0.916065789	4.865005136	7.82E-06	0.000502564
KCTD12	-1.000912218	-4.928832519	7.92E-06	0.000505268
CKAP4	0.823835526	4.862870643	7.96E-06	0.000505268
CCDC88B	-0.481476711	-4.859590455	8.21E-06	0.000515102
FAM102A	-0.547179067	-4.904091298	8.22E-06	0.000515102
NCF2	-0.793031579	-4.848403242	8.31E-06	0.000517229
MNDA	-1.036123459	-4.834211092	8.73E-06	0.00053724
S100A3	2.217895677	5.233610232	8.87E-06	0.00053724
POC1B	-0.615429887	-4.829101497	8.92E-06	0.00053724
PYCARD	-0.554086278	-4.959923226	8.95E-06	0.00053724
OPTN	-0.47502953	-4.913651844	8.95E-06	0.00053724
ARHGEF1	-0.22704891	-4.845471626	8.98E-06	0.00053724
CTNNBIP1	0.537469098	4.889780853	9E-06	0.00053724
MEX3A	0.52738318	4.951307773	9.12E-06	0.000539194
PDIA5	0.643713233	4.933499294	9.24E-06	0.000539194
MSX2	0.912455756	5.159877357	9.31E-06	0.000539194
MUC5AC	-1.464558004	-4.820177057	9.32E-06	0.000539194
CLCN3	0.398461748	4.818066964	9.33E-06	0.000539194
LY6G6C	2.710259881	5.452047098	9.35E-06	0.000539194
SASH3	-0.551886278	-4.825197714	9.89E-06	0.000567009
CARD11	-0.506858571	-4.78030944	1.1E-05	0.00062334
CORO2A	-0.454855808	-4.80613259	1.1E-05	0.00062334
RIN3	-0.508288611	-4.81938803	1.11E-05	0.000624847
DCUN1D3	0.428635301	4.842719514	1.14E-05	0.000641028
EHD1	-0.458264192	-4.760821452	1.18E-05	0.000659461
ARHGAP15	-0.570611518	-4.78980022	1.2E-05	0.000665811
VSIR	-0.721039098	-4.74311487	1.27E-05	0.000702873
HECTD3	-0.257831579	-4.887897673	1.37E-05	0.00075265
PACC1	0.723977828	4.897699766	1.38E-05	0.00075265
SLC39A10	0.490715523	4.739626752	1.41E-05	0.000766842
PREB	0.520186466	4.719503218	1.42E-05	0.000766842
GMFG	-0.625486729	-4.700857208	1.44E-05	0.000769736

YWHAH	-0.35595032	-4.701283005	1.44E-05	0.000769736
OTUD4	-0.276068778	-4.690995482	1.48E-05	0.000783909
PLCB2	-0.45320406	-4.69717718	1.51E-05	0.000793003
LGALSL	0.565141391	4.770885099	1.51E-05	0.000793003
TPPP3	-1.806078008	-4.726969379	1.52E-05	0.000793003
ENDOU	2.017407738	5.113390997	1.56E-05	0.00080712
HPS4	0.454707556	4.964297867	1.56E-05	0.00080712
SDK1	0.664549455	4.776614674	1.58E-05	0.000814712
MAP7	0.339909267	4.684653276	1.64E-05	0.000842033
DHCR7	0.781758158	4.72370218	1.65E-05	0.000842033
INPP4B	-0.722187406	-4.70000863	1.66E-05	0.000842033
CHPF	0.42762	4.816898308	1.72E-05	0.000870585
RAPGEF1	-0.240208947	-4.656045927	1.77E-05	0.000886687
CRAT	0.777098534	4.733134441	1.78E-05	0.000886687
SOD2	-0.725871992	-4.640222395	1.78E-05	0.000886687
CES3	0.754742293	4.8155581	1.84E-05	0.000908867
NCF4	-0.667592857	-4.63259686	1.85E-05	0.000911147
RBP5	-0.852408271	-4.644626427	1.89E-05	0.000926261
ODF3B	-0.937799323	-4.628169403	1.9E-05	0.000927023
EVL	-0.435098684	-4.630859333	1.96E-05	0.000937976
ROBO1	0.464069211	4.656446147	1.96E-05	0.000937976
LEMD3	0.421968609	4.651306231	1.97E-05	0.000937976
SLC20A2	0.70247891	4.816760899	1.98E-05	0.000937976
PTK7	0.400441955	4.644778363	1.98E-05	0.000937976
MAP1A	-0.721161278	-4.654055758	1.98E-05	0.000937976
KIDINS220	0.488459605	4.727343225	1.99E-05	0.000937976
ADAM28	0.978995113	4.684004338	2.02E-05	0.000948145
ODF2	-0.560586692	-4.605940607	2.03E-05	0.000948609
C19orf12	-0.345817293	-4.671565333	2.07E-05	0.000959859
LPXN	-0.538839436	-4.603058242	2.07E-05	0.000959859
ALDH3B1	-0.847037049	-4.595640915	2.09E-05	0.000962593
PIGS	0.360377331	4.590959335	2.13E-05	0.000979505

STAT4	-0.607302083	-4.666460381	2.14E-05	0.000980338
TMEM33	0.539751429	4.610438221	2.16E-05	0.000984659
SLC25A26	0.85090303	4.672032628	2.18E-05	0.000985887
BASP1	0.736073308	4.582919693	2.21E-05	0.000996656
MEST	0.430971805	4.619322319	2.25E-05	0.00100899
CEP164	-0.490222282	-4.651603884	2.26E-05	0.00100899
LYSMD2	-0.607002932	-4.69315782	2.28E-05	0.001013982
NHS	0.372951132	4.625240683	2.29E-05	0.001013982
TSC22D4	-0.301031015	-4.58893645	2.31E-05	0.001013982
NTPCR	0.582714917	4.675048468	2.31E-05	0.001013982
CDH2	1.400378496	4.743961083	2.34E-05	0.001024053
CAST	-0.440130489	-4.595354732	2.37E-05	0.001031501
ELMO1	-0.440927481	-4.621358091	2.38E-05	0.001031501
UPP1	-0.586702406	-4.593280843	2.44E-05	0.00105091
KAZN	-0.499196692	-4.56398216	2.44E-05	0.00105091
DAB2	-0.608803158	-4.612835745	2.51E-05	0.00107029
C2CD3	-0.322617293	-4.544998538	2.51E-05	0.00107029
SIK3	-0.292881241	-4.572855953	2.55E-05	0.001080899
AUP1	0.43560282	4.554120708	2.62E-05	0.001098407
SYNE1	-0.598799586	-4.553506096	2.62E-05	0.001098407
PKP4	0.379446259	4.542437908	2.63E-05	0.001098407
ALOX5AP	-0.718505113	-4.529685169	2.64E-05	0.001098407
SNX29	-0.305813496	-4.531522634	2.65E-05	0.001098407
DNALI1	-1.140018797	-4.55931833	2.68E-05	0.001098407
ACTL6A	0.214696053	4.533447562	2.69E-05	0.001098407
GGH	1.036424398	4.651095705	2.69E-05	0.001098407
TGFB2	1.136847256	4.593220157	2.69E-05	0.001098407
NUP188	0.158779229	4.530156256	2.7E-05	0.001098407
PITPNM1	-0.434193816	-4.528657682	2.71E-05	0.001098407
NCS1	-0.478105789	-4.561681665	2.72E-05	0.001098407
SFRP4	-1.398123496	-4.580912139	2.75E-05	0.001104999
RSPH4A	-1.183169981	-4.5599949	2.75E-05	0.001104999

DOK3	-0.468492387	-4.555937148	2.78E-05	0.001110014
HK3	-0.778943421	-4.514554443	2.79E-05	0.001110014
KCNAB2	-0.500705113	-4.5590701	2.83E-05	0.001120991
PLCB4	0.463804023	4.513980961	2.84E-05	0.001120991
MMP9	-1.166294436	-4.510593705	2.85E-05	0.001120991
RASAL3	-0.395190357	-4.505097408	2.9E-05	0.001134528
TGM2	-0.973806391	-4.503602104	2.98E-05	0.001164861
CETN2	-0.603938759	-4.513627735	3E-05	0.001165841
DDO	-0.558525823	-4.641495312	3.06E-05	0.001186872
FNDC3A	0.585531259	4.537427495	3.24E-05	0.001250989
RNF5	0.554936184	4.469542788	3.29E-05	0.001261004
FHAD1	-0.909785479	-4.54617558	3.29E-05	0.001261004
SLCO2A1	1.109451335	4.546767061	3.36E-05	0.001279192
USP8	-0.123422485	-4.476424482	3.37E-05	0.001279192
PLEKHF1	-0.284080376	-4.481169373	3.38E-05	0.001279192
TSGA10	-1.196416109	-4.477509348	3.39E-05	0.001279192
AFDN	0.241476692	4.463752812	3.41E-05	0.001283498
BICD1	0.413357444	4.637836566	3.55E-05	0.001327281
MAPK3	-0.330399248	-4.475836042	3.57E-05	0.001327281
CES2	-0.682486842	-4.466382506	3.58E-05	0.001327281
MLEC	0.680627105	4.474372685	3.58E-05	0.001327281
SPON1	-1.328357143	-4.45581712	3.7E-05	0.001364239
WAS	-0.619611541	-4.461052918	3.78E-05	0.001386056
DOCK10	-0.426183515	-4.459573447	3.78E-05	0.001386056
NPNT	0.911024248	4.587213557	3.85E-05	0.001405139
PRAM1	-0.657809398	-4.41915372	3.99E-05	0.001452217
SLC12A9	0.417441786	4.468281516	4.09E-05	0.001482578
RAC2	-0.672816955	-4.404807452	4.15E-05	0.00149901
FREM2	1.007705301	4.555235191	4.33E-05	0.001560043
NMD3	-0.218232808	-4.392432671	4.38E-05	0.001571945
DLX5	0.761965374	4.4515436	4.52E-05	0.001614761
NME5	-0.956441729	-4.452326941	4.54E-05	0.00161723

WDR54	-0.657598233	-4.407728012	4.59E-05	0.001630437
SPN	-0.665013346	-4.419375655	4.61E-05	0.00163209
DGKZ	-0.275722669	-4.455123733	4.68E-05	0.001649418
MARC1	0.563917857	4.382216961	4.8E-05	0.00168595
LRRC45	-0.597330489	-4.36788293	4.86E-05	0.001695383
TRAPPC8	-0.133789654	-4.378898513	4.86E-05	0.001695383
GPX1	-0.460695489	-4.442580879	4.92E-05	0.001710256
TECR	0.625776353	4.387835002	4.97E-05	0.001715705
MBP	-0.403172632	-4.389160371	4.97E-05	0.001715705
CRYBG3	-0.440026692	-4.457122176	5E-05	0.001716869
STIP1	-0.190633759	-4.35353272	5.01E-05	0.001716869
TMEM209	0.358269765	4.346601534	5.05E-05	0.001726725
WRAP73	-0.34325797	-4.345964389	5.07E-05	0.001726981
CDC42EP4	-0.318868703	-4.369615166	5.12E-05	0.001731043
MFF	0.372828083	4.359553913	5.13E-05	0.001731043
SERPINB10	-0.952770489	-4.342475558	5.13E-05	0.001731043
MGLL	-0.746838977	-4.338484786	5.22E-05	0.001755137
GPSM3	-0.557163383	-4.355001471	5.26E-05	0.00176357
ITGAM	-0.820270508	-4.339706961	5.3E-05	0.001770706
BID	-0.298690338	-4.40248088	5.34E-05	0.001776213
TAPT1	0.589363271	4.344779163	5.39E-05	0.001786354
STOM	-0.595801917	-4.321845553	5.56E-05	0.001832484
CLIP1	-0.293795545	-4.320950385	5.58E-05	0.001832484
FYB1	-0.521531842	-4.363306851	5.58E-05	0.001832484
PTPN7	-0.459270113	-4.320438498	5.6E-05	0.001832484
YTHDF2	0.236207199	4.331787315	5.61E-05	0.001832484
PHLDA1	0.750310084	4.340183105	5.69E-05	0.001850709
TBC1D8	-0.337088577	-4.319763345	5.83E-05	0.001891129
RGS14	-0.426952481	-4.304952093	5.9E-05	0.001908358
AKR7A2	-0.271798647	-4.304211065	5.95E-05	0.001913653
MARVELD2	0.368742218	4.322580991	5.97E-05	0.001913653
PDLIM1	-0.490062162	-4.307630634	5.98E-05	0.001913653

SGPL1	0.441310722	4.305356096	6.01E-05	0.001919577
CD48	-0.45340468	-4.351416946	6.1E-05	0.001940406
PIGK	0.383079699	4.29336384	6.17E-05	0.001950837
MISP	-0.667095489	-4.337670351	6.17E-05	0.001950837
SNX2	-0.228603744	-4.329823871	6.2E-05	0.001951307
SMARCD3	-0.552332293	-4.326684753	6.21E-05	0.001951307
GANAB	0.261033421	4.292676819	6.33E-05	0.001984078
CEBPB	-0.391309023	-4.281628402	6.35E-05	0.001984078
SLC16A1	1.089073891	4.363590527	6.4E-05	0.001984995
TUBB3	1.042452857	4.35796277	6.41E-05	0.001984995
MBD2	0.215013404	4.346781112	6.46E-05	0.001984995
OSBPL6	0.990840057	4.505485023	6.46E-05	0.001984995
SLC25A13	0.648938553	4.344023578	6.47E-05	0.001984995
SDCCAG8	-0.332966541	-4.326444658	6.47E-05	0.001984995
BCL2	0.944429167	4.380114133	6.57E-05	0.002008795
MMP2	1.14221656	4.451227776	6.66E-05	0.002031129
NECAP2	-0.23643515	-4.260528506	6.9E-05	0.002092985
PPP6R1	-0.234488383	-4.278218177	6.92E-05	0.002092985
PDZD8	0.368891015	4.279110029	6.94E-05	0.002092985
SLC26A6	0.672723684	4.264221904	6.95E-05	0.002092985
MDM1	-0.760304323	-4.27851453	7.04E-05	0.002114062
LZTFL1	-0.426110977	-4.286080519	7.06E-05	0.002114216
DUSP3	-0.429362444	-4.249342684	7.1E-05	0.00211877
LAMP1	0.424559394	4.244305274	7.24E-05	0.002154413
CPNE3	-0.264821929	-4.242862678	7.32E-05	0.00217168
SPATS2L	-0.377209211	-4.237806108	7.4E-05	0.002187963
MMRN1	-0.641006391	-4.259704037	7.44E-05	0.002187963
GSDME	-0.702590602	-4.284999828	7.46E-05	0.002187963
PADI4	-1.043226316	-4.234562409	7.48E-05	0.002187963
CD93	-0.411020921	-4.234629282	7.49E-05	0.002187963
THAP12	0.222706861	4.294264977	7.52E-05	0.002187963
TTC25	-1.05579269	-4.296298273	7.54E-05	0.002187963

RAB6A	0.474225	4.340648555	7.54E-05	0.002187963
ABHD16A	0.412537895	4.253571542	7.64E-05	0.00220871
UBXN4	0.298238158	4.248973345	7.71E-05	0.002222097
ERMP1	0.707675977	4.343458989	7.73E-05	0.002223152
NOP9	0.210266977	4.297133725	7.78E-05	0.002230034
RCN1	0.605965564	4.444041037	7.85E-05	0.002244641
CST1	1.698420132	4.387025976	8.01E-05	0.002282921
LRATD1	0.838975808	4.282908191	8.03E-05	0.002282921
MSN	-0.446559398	-4.217080534	8.24E-05	0.002337385
ZMYND10	-1.187936222	-4.275205372	8.34E-05	0.002353302
VKORC1	0.71553265	4.237528323	8.35E-05	0.002353302
FGFR1OP2	-0.173097444	-4.202066075	8.39E-05	0.002358411
SH3BGRL3	-0.31565156	-4.212970326	8.48E-05	0.00236689
AMPD3	-0.513984586	-4.232774916	8.49E-05	0.00236689
DSC2	0.86639009	4.266239715	8.5E-05	0.00236689
DZIP3	-0.445549045	-4.274752451	8.53E-05	0.00236689
GIMAP8	-0.435208571	-4.22337178	8.53E-05	0.00236689
SELENOW	-0.526140602	-4.256101373	8.56E-05	0.002368085
PSMD3	0.11461053	4.221311858	8.59E-05	0.002370473
IGF2R	0.442798162	4.24941243	8.64E-05	0.00237738
RAB31	-0.512692857	-4.212117663	8.69E-05	0.002383657
ZDHHC5	0.348052707	4.197481029	8.9E-05	0.002435738
ESPN	-0.779872744	-4.248478108	8.93E-05	0.00243701
F11R	0.610455263	4.205749149	8.97E-05	0.002441352
PIK3CG	-0.583504868	-4.296209127	9E-05	0.002441352
AHDC1	-0.258740564	-4.189657329	9.08E-05	0.002449944
L2HGDH	0.440234549	4.287016601	9.08E-05	0.002449944
XXYLT1	0.351702632	4.191392156	9.1E-05	0.002449944
MLLT6	0.302064474	4.200949267	9.21E-05	0.002469696
CROCC2	-1.232131203	-4.203402202	9.22E-05	0.002469696
PPM1G	0.240933571	4.187713264	9.26E-05	0.002470548
ANXA6	-0.664805827	-4.206391112	9.29E-05	0.002470548

ABI3BP	-0.954336654	-4.185802467	9.32E-05	0.002470548
SLC25A15	0.620585763	4.171344165	9.32E-05	0.002470548
PBXIP1	0.738208496	4.269799963	9.41E-05	0.002487915
MACO1	0.287092632	4.168748516	9.52E-05	0.002509206
PCMT1	-0.242462936	-4.160570723	9.66E-05	0.002539915
CYBB	-0.820772368	-4.159073544	9.71E-05	0.00254627
CAPN1	-0.2476394	-4.157613226	9.82E-05	0.00256927
CARD8	-0.372260789	-4.200149645	9.87E-05	0.002575802
PTBP3	0.271167406	4.215028217	9.96E-05	0.002593215
DNAJB13	-1.038604887	-4.152385003	0.0001003	0.002605322
CDC37	-0.178417895	-4.149164127	0.0001017	0.00263553
MAPK12	-0.614676622	-4.202776186	0.0001024	0.002644875
AMOT	0.506612444	4.245512635	0.0001032	0.002656752
GAS2L1	-0.253378195	-4.148640469	0.0001033	0.002656752
APBA2	-0.409283271	-4.139352972	0.0001039	0.002665592
GRB2	-0.204986015	-4.136369469	0.0001048	0.002681003
ARHGEF10L	-0.479908942	-4.164140106	0.0001053	0.002690941
ERG28	0.557415028	4.17305014	0.0001064	0.002702345
LSM14B	0.284860714	4.180936477	0.0001067	0.002702345
IGFBP3	-0.617935526	-4.134349085	0.0001069	0.002702345
MMP8	-1.03201015	-4.130427576	0.0001070	0.002702345
CFAP57	-0.900164425	-4.164535134	0.0001078	0.002710423
GPX2	1.793663416	4.464963415	0.0001078	0.002710423
GRAP2	-0.517958876	-4.134257968	0.0001082	0.002713346
GOLIM4	0.774125188	4.128746532	0.0001093	0.002736598
DNAL1	-0.488347876	-4.137150715	0.0001097	0.002736598
BBOX1	-1.187074286	-4.52555814	0.0001107	0.002753353
MOGS	0.453681842	4.151667475	0.0001109	0.002753353
ARHGEF3	0.417348722	4.17953036	0.0001119	0.002771664
SELENOS	0.43930906	4.150238618	0.0001127	0.002781165
LCP2	-0.445946729	-4.132609819	0.0001130	0.002781165
MICALL1	-0.328687444	-4.125834407	0.0001137	0.002781165

USP5	0.215366353	4.189439275	0.0001145	0.002803297
MMP7	1.036578139	4.135085816	0.0001145	0.002806498
PPM1H	0.539419549	4.148355427	0.0001154	0.002814753
CD38	-0.711446316	-4.112196135	0.0001158	0.002814753
DNAI1	-1.132081842	-4.172529006	0.0001159	0.002814753
SP140	-0.497804274	-4.302842282	0.0001163	0.00281806
NLN	0.393112632	4.12547123	0.0001168	0.002823914
TOMM70	0.396015808	4.131117861	0.0001171	0.002839926
CDA	-0.869823083	-4.105563056	0.0001195	0.002876082
SIKE1	-0.237806917	-4.141741228	0.0001201	0.002876509
DEFA4	-0.763480041	-4.106009412	0.0001201	0.002876509
CLINT1	-0.254602519	-4.115435921	0.0001219	0.002905248
LPCAT3	0.850856842	4.119876466	0.0001219	0.002905248
PEF1	-0.295894135	-4.123246641	0.0001229	0.002913137
MAVS	0.335333327	4.158900906	0.0001230	0.002913137
PPP5C	-0.206800658	-4.089527071	0.0001231	0.002913137
RAB30	0.461049436	4.135312941	0.0001240	0.002942473
ODF2L	-0.655121287	-4.089590093	0.0001251	0.002947264
LYZ	-1.152364286	-4.080916778	0.0001268	0.002979914
PKIG	-0.518517105	-4.100793136	0.0001298	0.003044918
FGD5	-0.476397444	-4.071827688	0.0001334	0.003117597
ATP2B1	0.490030132	4.091395826	0.0001336	0.003117597
HMCN1	0.759907876	4.192797222	0.0001340	0.003132084
ALOX5	-0.513052068	-4.080443018	0.0001348	0.003132084
CLEC16A	-0.150753271	-4.063006121	0.0001356	0.003143298
ATAT1	0.319005662	4.059346076	0.0001365	0.003156067
PREX1	-0.375424098	-4.082073429	0.0001376	0.003176331
LPAR1	0.531174192	4.101709867	0.0001411	0.003249429
TYMP	-0.553618045	-4.052762783	0.0001416	0.003253137
GK	-0.541960977	-4.147091641	0.0001425	0.003267127
APOBR	-0.596119549	-4.108334796	0.0001429	0.003268592
DPEP1	1.907169165	4.313279222	0.0001451	0.00330249

UBAC1	-0.240631654	-4.049454389	0.000145	0.00330249
DPP9	-0.209493919	-4.042891185	0.000145	0.003312315
IKZF1	-0.415824248	-4.07393908	0.000147	0.003338687
ENKD1	-0.770210525	-4.063882287	0.000147	0.003341312
ATAD1	0.43629468	4.083936153	0.000149	0.003361761
TRAF3IP1	-0.457742895	-4.038154386	0.000150	0.003395467
ASS1	-1.065836203	-4.070401	0.000151	0.003400526
PCMTD2	0.334488578	4.108685673	0.000155	0.003476284
SPICE1	-0.344585526	-4.036884465	0.000157	0.003503577
RETN	-1.101589662	-4.028082403	0.000157	0.003503577
CD9	0.60716	4.066673709	0.000157	0.003503577
BSCL2	0.558832778	4.060079444	0.000157	0.003503577
FAF2	0.305235308	4.043868485	0.000158	0.003511831
EPHB4	0.411042218	4.036370956	0.000159	0.003527311
VNN 2.00	-0.90316237	-4.025430085	0.000159	0.003527645
DNAAF1	-0.918910234	-4.068210487	0.000160	0.003527645
MDC 1.00	0.229190075	4.016484756	0.000162	0.003568783
ADGRE5	-0.557003571	-4.027427267	0.000162	0.003568783
PLEKHA1	0.403229135	4.019702433	0.000167	0.00365186
DNAJA4	-0.699413346	-3.999374996	0.000167	0.00365186
DOK2	-0.506423429	-4.047713288	0.000168	0.003663627
ITPKC	-0.227700677	-4.024501375	0.000168	0.003665765
CCDC88A	-0.419681229	-4.009933691	0.000169	0.003676851
HVCN1	-0.498919173	-4.035336229	0.000171	0.003702299
UNC13D	-0.38909844	-4.004574669	0.000171	0.003704252
PRTN3	-1.118623684	-3.994711762	0.000172	0.003704252
SSBP2	-0.689382707	-4.100787217	0.000172	0.003704252
RPS6KA4	-0.307889925	-4.0079746	0.000172	0.003704252
ARG2	0.700081259	3.998182974	0.000173	0.003721418
ARR3	-0.383239218	-3.992980169	0.000174	0.003721418
GPAA1	0.449473045	3.985104569	0.000175	0.003741414
ZZEF1	-0.206338158	-4.026981363	0.000178	0.003788976

ANP32B	0.278700165	3.992724356	0.0001806	0.00383626
MIA2	0.462549662	4.005521511	0.0001818	0.003852579
IFT172	-0.464699594	-3.987122657	0.0001827	0.003864077
MIA3	0.49304532	4.034432491	0.000185	0.003900235
EPS15L1	-0.175937575	-3.976067068	0.0001852	0.003900235
RCOR2	0.434069284	3.993223514	0.000186	0.003912447
CALML4	-0.803373872	-3.998159944	0.0001886	0.003956069
CTSG	-0.950543421	-3.96192239	0.0001896	0.003968958
ERBIN	0.259668195	4.002461581	0.0001916	0.003984235
AKNA	-0.325960677	-3.963290191	0.000191	0.003984235
ARG1	-0.79382688	-3.960274835	0.0001917	0.00398745
CXCL8	-0.808597485	-4.026471742	0.0001922	0.00398745
MSH3	0.24481462	3.965354796	0.0001927	0.00398745
EMC1	0.318959361	3.974705783	0.0001932	0.00398745
SHROOM3	-0.293659669	-3.981738463	0.0001932	0.00398745
STAT5A	-0.30271991	-3.96432174	0.0001945	0.00399752
EEA1	-0.267255451	-3.95478595	0.0001945	0.00399752
TRAF4	0.368395226	4.024625584	0.0001955	0.004009091
IRAK3	-0.680453119	-3.971594816	0.0001966	0.004024964
RASGRP2	-0.558636972	-3.970198574	0.0001986	0.004044412
ALMS1	-0.307877199	-3.945837417	0.000200	0.004080367
LMAN2	0.551142481	3.958620367	0.0002022	0.004098593
NFKB1	-0.207568289	-3.94974522	0.0002024	0.004098593
PTPN6	-0.290068865	-3.95568112	0.0002027	0.004098593
NCSTN	0.524413233	3.974265533	0.0002036	0.004098593
GOLGA7	0.422486955	3.941946822	0.000203	0.004098593
FGFBP1	-1.215903782	-3.955351791	0.0002047	0.00412339
TMEM9	0.505218797	3.939207945	0.000205	0.004124049
GIMAP6	-0.455663595	-4.035839078	0.0002095	0.004203973
ANXA11	-0.454632177	-4.001305658	0.0002108	0.004220602
ITGA1	0.770546617	4.026544633	0.0002129	0.004246941
ARSD	0.529770575	4.031719586	0.0002132	0.004246941

CYP1B1	-0.580929868	-3.978487644	0.0002135	0.004246941
FABP3	-1.04728968	-3.935616712	0.0002145	0.004257813
ADGRG3	-1.097610779	-4.1821135	0.0002156	0.004274211
SMARCA4	0.251847773	3.932379601	0.0002167	0.004276451
RALA	0.444754474	3.938673503	0.0002187	0.004303378
ELMOD2	0.451209887	3.927059137	0.0002185	0.004303378
BIN1	-0.331995282	-3.919083306	0.0002217	0.004361335
HS2ST1	0.334122602	3.958519465	0.0002226	0.004370915
ZKSCAN1	0.335595301	3.941078315	0.0002247	0.004401016
POC5	-0.455938647	-3.982021452	0.0002256	0.004401016
IFI35	-0.330288425	-3.91273166	0.0002275	0.004440755
TRAPPC9	-0.201649925	-4.012260947	0.0002307	0.004483718
GDA	-1.047329429	-3.910364549	0.0002316	0.004492421
COMMD10	-0.188168195	-3.904229923	0.0002316	0.004494888
QSOX2	0.428222519	3.905653291	0.0002326	0.004506518
S100A6	-1.119393233	-3.931550621	0.0002335	0.004515825
ARHGEF6	-0.466130977	-3.924330672	0.0002355	0.00454962
NUDT4	0.636429323	3.943072379	0.0002362	0.00454962
RSPH1	-0.809144962	-3.939473456	0.0002382	0.004579792
CROCC	-0.591518289	-3.8972905	0.0002425	0.004661432
STARD3	0.387482068	3.921280833	0.0002447	0.004668399
CXCR4	0.699216364	4.021270844	0.0002449	0.004668399
DPM1	0.397617951	3.894496446	0.0002449	0.004668399
LEFTY1	-1.136619173	-3.892787678	0.0002457	0.004668399
ARPC1B	-0.345526165	-3.882606901	0.0002475	0.004702015
CXCL5	-1.104159688	-3.896156867	0.0002486	0.004720703
MMP19	-0.660548125	-3.924828993	0.0002495	0.004733867
ATP5MD	0.527372331	3.881358868	0.0002518	0.004760182
SLC25A12	0.342963008	3.890823795	0.0002547	0.004798298
CAMP	-1.270844361	-3.875690848	0.0002548	0.004798298
C20orf194	-0.736257407	-3.957828853	0.0002552	0.004798298
ZFP36L2	0.373125929	3.883547352	0.0002584	0.004849437

EPB41L1	-0.475648628	-3.880218239	0.0002596	0.004862873
NCOA7	-0.298868346	-3.921821581	0.0002610	0.004880033
GTF2F1	0.185423459	3.865609468	0.0002637	0.004909733
ZBTB7A	-0.229215771	-3.864800558	0.0002636	0.004909733
NOVA1	-0.420006604	-3.859147785	0.0002727	0.005058492
HYLS1	-0.593045783	-4.008681703	0.0002740	0.005083626
CSF1R	-0.421150113	-3.870224404	0.0002744	0.005083626
KDM6A	0.17327141	3.852306244	0.0002757	0.005086279
HCK	-0.467945996	-3.849574202	0.0002759	0.00509188
AOAH	-0.476157714	-3.913224412	0.0002788	0.005136338
YARS1	-0.19455094	-3.848490639	0.0002808	0.005154913
ANXA8L1	-1.837916333	-3.923191243	0.0002808	0.005154913
DPP8	-0.228268812	-3.85191053	0.0002818	0.005163949
LSR	0.422188459	3.849441268	0.0002832	0.005180327
CEP95	-0.470452349	-3.865603838	0.0002864	0.005221126
STK4	-0.349530301	-3.891009354	0.0002865	0.005221126
PTDSS1	0.65690515	3.855751465	0.0002875	0.005227515
ZMYND8	0.251922218	3.835964984	0.0002904	0.005267224
OSTF1	-0.272115282	-3.834289433	0.0002906	0.005267224
CERS2	0.65166015	3.840158344	0.0002916	0.005267224
CEP120	-0.372494436	-3.849722732	0.0002927	0.005267224
CDR2L	-0.36111015	-3.853161164	0.0002930	0.005267224
SPAG1	-0.637904699	-3.85837211	0.0002935	0.005267224
DPY19L1	0.367771729	3.839400071	0.0002937	0.005267224
MGAT5	0.467712368	3.920361899	0.0002937	0.005267224
RASA3	-0.391354229	-3.864600836	0.0002955	0.005290195
DPM3	0.43709797	3.847925206	0.0002965	0.005300027
CNPY2	0.395938289	3.879598242	0.0002987	0.005317856
ATP6V1C1	-0.319059711	-3.825067387	0.0002997	0.005317856
PKN1	-0.251780248	-3.877075243	0.0002997	0.005317856
TRIM33	0.204052763	3.826392565	0.0003016	0.005351985
KLHL13	-0.574765725	-3.955656319	0.0003045	0.005391691

MESD	0.216273214	3.828988652	0.000305	0.005396502
RBPM52	-0.639596579	-3.819726589	0.000308	0.005442735
WWTR1	-0.368550977	-3.815509201	0.000309	0.005460925
AZU1	-0.903261128	-3.808781133	0.000315	0.005552115
CEP83	-0.545593028	-3.831002101	0.000316	0.005559762
ADPRH	-0.426628575	-3.83203258	0.000317	0.005569736
ICMT	0.4219951	3.841317162	0.000318	0.005573952
IMPDH1	-0.290684662	-3.815049421	0.000322	0.005641461
HABP4	0.407689227	3.83419786	0.000324	0.005656023
RETREG3	0.405935382	3.814262345	0.000326	0.005687136
SPA17	-1.048388158	-3.82233863	0.000330	0.005750169
SLC9A3R1	-0.560646391	-3.797514669	0.000331	0.005750169
HABP2	-0.472699016	-3.795570984	0.000332	0.005767314
RELB	-0.277536316	-3.849719851	0.000335	0.005804764
ERLIN1	0.547547227	3.827296028	0.000337	0.005819705
BCLAF1	0.185073647	3.789268762	0.000338	0.005819705
PHYKPL	-0.418859962	-3.867534184	0.000338	0.005819705
ARHGAP32	0.21756015	3.835886911	0.000341	0.005870043
BPI	-1.283949436	-3.786782876	0.000342	0.005871931
RASSF5	-0.431872973	-3.863340697	0.000343	0.005880757
CD53	-0.437461692	-3.785584098	0.000345	0.005899432
TCHP	-0.362572331	-3.800504346	0.000345	0.005899432
CLDND1	0.445801061	3.876463963	0.000346	0.005900577
GNG12	0.494684962	3.782360689	0.000347	0.005900577
ROPN1L	-0.896578713	-3.809880727	0.000350	0.005953133
MYO1G	-0.369880752	-3.777674998	0.000353	0.005984895
ACSS3	0.79099844	3.962456075	0.000354	0.005989418
HS1BP3	-0.277089985	-3.773185213	0.000355	0.006009434
ACOX3	0.475401316	3.801344988	0.000357	0.006031912
ATG4C	-0.334116165	-3.797981994	0.000358	0.006031912
DCN	-1.265184098	-3.805878699	0.000361	0.006067691
LCP1	-0.661236885	-3.803254943	0.000369	0.006206174

SPECC1	-0.396093592	-3.80081176	0.0003716	0.00622424
CEACAM7	-1.463748929	-3.759906282	0.000373	0.006233565
RFK	0.380633008	3.892668721	0.0003734	0.006233565
TRIM47	-0.452687011	-3.770837756	0.0003744	0.006240811
STK33	-0.70208468	-3.803878758	0.000379	0.00629992
VAV1	-0.387342256	-3.764175928	0.0003792	0.00629992
ATG7	-0.272732782	-3.751309687	0.0003836	0.006355711
C1orf131	0.371130926	3.791721653	0.0003838	0.006355711
HOXD10	-0.74233101	-3.786024053	0.0003847	0.006360502
IFT74	-0.387753684	-3.775434915	0.0003857	0.006366848
MPZL2	0.564872068	3.837049667	0.0003888	0.006407177
NECTIN1	0.427915301	3.819067109	0.0003907	0.006428086
PGPEP1	-0.33461968	-3.743301751	0.0003925	0.006446406
DPYD	-0.513151316	-3.776538088	0.0003934	0.006451523
RHOF	-0.628729333	-3.864555596	0.0003945	0.006455599
NAALADL2	0.386366128	3.744853598	0.0003986	0.006512065
SELL	-0.429026128	-3.738009963	0.0003996	0.006512065
UNC5B	0.583986905	3.853139421	0.0004007	0.00652914
CTSA	-0.316045207	-3.729374569	0.0004117	0.006697346
SRP14	0.388190564	3.730517551	0.0004143	0.006728561
LCLAT1	0.587929887	3.726798968	0.0004157	0.006740559
KCTD6	-0.456576006	-3.774891594	0.0004202	0.006798243
BBS7	-0.352973459	-3.797318049	0.0004206	0.006798243
TRAPPC2	-0.162716034	-3.742498267	0.0004255	0.006864245
ARHGEF37	-0.360278195	-3.802037731	0.0004317	0.006928798
ST7	0.441053975	3.740157235	0.0004317	0.006928798
TCP11L2	-0.312509872	-3.769842655	0.0004319	0.006928798
SORT1	0.419413835	3.715242985	0.0004327	0.006928798
SLC30A1	0.47660109	3.73579788	0.0004345	0.006947182
TMX1	0.422576504	3.722092405	0.0004346	0.006947182
ARL6IP1	0.482247914	3.733747571	0.0004406	0.007017319
RPTN	1.706575463	3.939198309	0.0004409	0.007017319

MPZL1	0.482252331	3.751308123	0.0004416	0.007017319
TBCEL	-0.257752932	-3.721543888	0.0004422	0.007017319
SPATA18	-0.937305263	-3.716714397	0.0004424	0.007017319
PGAP1	0.649453421	3.707057822	0.0004459	0.007062158
PTPRC	-0.517353872	-3.701635999	0.0004481	0.007085754
VGLL4	0.211861372	3.743237679	0.0004508	0.00710823
PERP	0.628926504	3.724383225	0.0004510	0.00710823
BRD7	0.194486053	3.720422389	0.0004548	0.007157808
KLF3	0.358097312	3.697113334	0.0004571	0.007178449
ERG	-0.649775976	-3.791304609	0.0004575	0.007178449
SERPINA4	-0.559529609	-3.694696121	0.0004638	0.00726501
TMOD1	-0.653766203	-3.691659346	0.0004654	0.007273658
CTSL	-0.373752932	-3.708676318	0.0004658	0.007273658
AKAP1	0.319896353	3.712797106	0.0004671	0.007292618
PDZK1	1.07361797	3.750269591	0.0004681	0.007294811
CEP78	-0.321812519	-3.718337427	0.0004691	0.007294811
NR3C1	-0.441342105	-3.709032612	0.0004700	0.007294811
TSN	0.391158289	3.75624005	0.0004711	0.007300983
CTSW	-0.685193707	-3.812887675	0.0004729	0.007318179
NMI	-0.279461278	-3.699340881	0.0004750	0.007338601
ITGB2	-0.695408459	-3.682254548	0.0004771	0.007368977
HSPH1	-0.354515508	-3.690434056	0.0004841	0.007466418
NCBP1	0.194127391	3.683772047	0.0004875	0.007497789
XPO1	0.172127545	3.711076308	0.0004882	0.007497789
TUBB2B	1.392850216	3.741718251	0.0004911	0.007539145
IFIT2	-0.40143282	-3.675969895	0.0004931	0.007548372
RAB15	0.311790124	3.674342589	0.0004938	0.007548372
PARD6B	-0.353500011	-3.689812686	0.0004952	0.007556049
VAT1	-0.424604662	-3.718678085	0.0004951	0.007556049
TPK1	-0.407158252	-3.67693143	0.0004971	0.007574991
TM2D3	0.382180658	3.680149611	0.0004994	0.007589121
SEPTIN3	-0.34291188	-3.694242968	0.0005055	0.007670021

CHIT1	-0.783725752	-3.675156307	0.0005115	0.007743065
SLC27A4	0.32773312	3.758731067	0.0005118	0.007743065
CYB5R1	0.740598684	3.726071082	0.0005144	0.007752818
PGLYRP1	-0.779149391	-3.663984368	0.0005145	0.007752818
HSPB1	-0.574003947	-3.697489096	0.0005155	0.007752818
SH2D3A	-0.368262549	-3.677744015	0.0005161	0.007752818
MAGT1	0.524755489	3.658417374	0.0005163	0.007752818
HSP90AA1	-0.262627282	-3.657199414	0.0005198	0.00779345
PCDH7	0.444422143	3.67476613	0.0005225	0.007822584
RAB3IL1	-0.43937431	-3.662889957	0.0005251	0.00784982
FGD2	-0.344726504	-3.653061201	0.0005261	0.007853653
DNAAF2	-0.639010526	-3.662336153	0.0005299	0.007890832
CSNK1G3	0.418267425	3.654574879	0.0005302	0.007890832
PUDP	-0.366215545	-3.669746374	0.0005359	0.00796027
DCHS1	-0.511530489	-3.663553622	0.0005361	0.00796027
PLXNA2	0.343132949	3.647815577	0.0005372	0.00796027
MLF 1.00	-0.862374248	-3.655657885	0.0005419	0.008013857
TGOLN2	0.382993459	3.647076359	0.0005424	0.008013857
CARD16	-0.50509938	-3.656591938	0.0005458	0.008046388
DAPK1	-0.236194853	-3.640301891	0.0005462	0.008046388
TMEM167A	0.609904511	3.634201317	0.0005568	0.008191222
TMEM97	0.637220489	3.642328923	0.0005576	0.008191222
BCAS1	-0.816287331	-3.632916938	0.0005590	0.008200454
HYOU1	0.324474662	3.63613769	0.0005635	0.008254353
TRIM21	-0.274161391	-3.653491163	0.0005654	0.008257087
RMND1	0.442158195	3.693678292	0.0005668	0.008257087
KBTBD11	-0.448184586	-3.630677963	0.0005669	0.008257087
LARGE2	0.453712744	3.666277499	0.0005670	0.008257087
BBS4	-0.356182889	-3.649225398	0.0005680	0.008260069
IL33	-0.805948214	-3.627319077	0.0005710	0.008287822
ERV3.1.ZNF11	0.46673	3.641835337	0.0005721	0.008287822
TCEAL3	-0.589217669	-3.625427507	0.0005730	0.008287822

SPINK6	3.603205	3.830723605	0.0005732	0.008287822
TTC26	-0.420331504	-3.624525957	0.0005750	0.008302926
WDR78	-1.216838704	-3.788191864	0.0005767	0.008315162
LHPP	-0.374246805	-3.623429293	0.0005782	0.008325771
QPR1	-0.76718797	-3.650871619	0.0005830	0.008364613
WIPF1	-0.404728271	-3.635964842	0.0005832	0.008364613
ZNF280C	0.236787269	3.66285019	0.0005834	0.008364613
APOA4	-0.60804718	-3.621116497	0.0005850	0.008367607
JAK1	-0.24650703	-3.620520001	0.0005857	0.008367607
RRAGD	-0.842239649	-3.789631985	0.0005867	0.008367607
VIRMA	0.121453613	3.615947801	0.0005900	0.00841084
ATG9A	0.260064925	3.644533542	0.0005900	0.00841084
UAP1L1	-0.403330075	-3.648012497	0.0005930	0.008422548
PACSIN2	-0.274977699	-3.62625044	0.0005940	0.008422548
SEMA5A	0.834297588	3.787330122	0.0005947	0.008422548
LRRC57	0.232610921	3.663144202	0.0005965	0.008444757
DHRS9	-1.021598893	-3.774644712	0.0005990	0.008476348
SEC11A	0.540149436	3.610386264	0.0006009	0.008476348
ZNF629	0.251579173	3.616488264	0.0006012	0.008476348
FCN1	-0.844070113	-3.60976771	0.0006043	0.008507146
CCDC78	-0.883776023	-3.664778787	0.0006062	0.008516134
FBXW2	-0.336853502	-3.623803867	0.0006060	0.008516134
ZMYM2	0.238556015	3.608339263	0.0006102	0.008546994
ARMC3	-0.850459064	-3.652727356	0.0006112	0.008546994
ZNF185	-0.522178947	-3.605526581	0.0006115	0.008546994
KRT23	0.788982406	3.645320919	0.0006134	0.008564477
HPGDS	-0.712703846	-3.631154931	0.0006167	0.008593746
COX20	0.522673008	3.654543051	0.0006172	0.008593746
TNXB	-0.962497011	-3.610924926	0.0006239	0.008675284
UBE2L3	-0.292327782	-3.604575205	0.0006287	0.008730631
DEFA1B	-1.322954436	-3.597323239	0.0006300	0.008736938
CFP	-0.495018628	-3.596293132	0.0006322	0.008755004

DPAGT1	0.551447459	3.674442355	0.0006350	0.008772427
WDFY4	-0.368091391	-3.60828291	0.0006352	0.008772427
CCDC6	-0.45610468	-3.59434719	0.0006392	0.008816013
LUM	-1.111219173	-3.625475968	0.0006442	0.00887306
SCLT1	-0.411809211	-3.589075505	0.0006471	0.008897857
ARHGAP10	-0.406691297	-3.622842391	0.0006478	0.008897857
ABR	-0.213668615	-3.597776429	0.0006502	0.008908163
DDX46	0.143264538	3.586824478	0.0006503	0.008908163
TM2D1	0.357637095	3.637908739	0.0006535	0.008940543
VKORC1L1	0.554067444	3.630244741	0.0006592	0.009005928
PLBD1	-0.787973985	-3.580445924	0.0006612	0.009021466
VDAC3	0.530168383	3.59808517	0.0006684	0.00910691
PXN	-0.269881372	-3.593783304	0.0006694	0.009109021
NDC1	0.391861767	3.577688141	0.0006721	0.009132885
C1S	-0.479697538	-3.581357903	0.0006751	0.009158677
PLEKHS1	-0.688597932	-3.574772486	0.0006758	0.009158677
RPAIN	0.349831203	3.589653413	0.0006782	0.009179545
AMPH	-0.592978459	-3.572098613	0.0006791	0.009179545
CFL2	-0.742924962	-3.568034832	0.0006896	0.009308689
MINDY4	-0.470521729	-3.589639556	0.0006940	0.009355058
AGO2	-0.190129944	-3.562079019	0.0007009	0.00942553
NME7	-0.382403008	-3.571523485	0.0007011	0.00942553
DTD1	0.400275226	3.558366263	0.0007116	0.009551347
RHOT1	0.253333402	3.582144363	0.0007121	0.009551347
STAT6	-0.194913028	-3.556393859	0.0007145	0.009551347
TRAPPC10	-0.140529793	-3.574300692	0.0007146	0.009551347
PIK3R1	-0.369088481	-3.673094304	0.0007154	0.009551347
ADNP	0.209616784	3.557524674	0.0007161	0.009551347
ADA2	-0.408369361	-3.555523676	0.0007175	0.009552038
TMEM131	0.262273759	3.561118136	0.0007186	0.009552038
CDAN1	0.201448421	3.584659105	0.0007202	0.009569279
ALDH1A2	-0.821959586	-3.575639022	0.0007221	0.009588908

PTPN18	-0.341164361	-3.554274743	0.0007304	0.009659619
FGF2	-1.032212406	-3.575314458	0.0007305	0.009659619
POC1A	-0.500012	-3.681920966	0.0007308	0.009659619
SPARCL1	-0.692639699	-3.547470682	0.0007341	0.009685066
SLC47A1	1.024942105	3.548375274	0.0007350	0.009685066
MSH2	0.268069117	3.548657042	0.0007356	0.009685066
GPCPD1	0.51179718	3.62819762	0.0007390	0.009716288
PFKP	-0.419883083	-3.551548741	0.0007415	0.00973505
PTPN3	0.345373684	3.618498501	0.0007462	0.00978579
RPGRIP1L	-0.478127406	-3.556242668	0.0007472	0.009786485
IVL	1.435544756	3.700583385	0.0007521	0.009838475
PARP4	-0.344459004	-3.542416985	0.0007586	0.009906902
DOLPP1	0.39578883	3.563964104	0.0007595	0.009906902
ALCAM	0.723978647	3.539664866	0.0007625	0.009932878
HNRNPA2B1	0.148565353	3.535534036	0.0007680	0.009994593
SECTM1	-0.582645114	-3.563611985	0.0007707	0.010016528
CD14	-0.439789586	-3.534457492	0.0007777	0.010095168
ACVR1	0.385734135	3.546290867	0.0007821	0.010138607
FKBP9	0.395565738	3.639942697	0.0007842	0.010153019
SEPTIN5	-0.511243064	-3.585679483	0.0007887	0.010194669
TOMM22	0.467624793	3.544648903	0.0007894	0.010194669
AKT2	-0.225548684	-3.54769616	0.0007918	0.010209704
PRORP	0.401789286	3.6025294	0.0007926	0.010209704
UTS2	0.348618656	3.571386826	0.0007945	0.010221858
DDOST	0.432755207	3.525393634	0.0007956	0.010222169
DAD1	0.599285789	3.524918117	0.0007985	0.010244128
GRK2	-0.194640602	-3.526043586	0.0008092	0.010370773
MUC5B	-1.112865376	-3.510756707	0.0008247	0.010556126
DMXL2	-0.230219323	-3.524140671	0.0008440	0.01078975
HSPB8	-0.719079135	-3.502036815	0.0008475	0.010808744
MVP	-0.409276372	-3.513186301	0.0008476	0.010808744
TPD52L2	-0.226894605	-3.500859912	0.0008505	0.010832332

SIPA1L1	0.223529962	3.517806376	0.000854	0.01083313
S100P	-1.047365977	-3.500679354	0.000854	0.01083313
PANK4	-0.219389586	-3.504872472	0.000854	0.01083313
IDO1	-0.715172368	-3.501890802	0.000854	0.01083313
PI4K2B	0.294654421	3.52051114	0.000861	0.010905551
FRA10AC1	0.260120827	3.496289702	0.000865	0.010935434
EVI2B	-0.571452702	-3.592489589	0.000866	0.010935434
PRKCD	-0.348332237	-3.560297455	0.000880	0.011103878
PAF1	0.179028089	3.490482685	0.000883	0.01112138
PLXND1	-0.358820498	-3.491353401	0.000884	0.011122233
LCN2	-1.05327953	-3.486682955	0.000892	0.011212788
PPP1R10	0.181687086	3.489023219	0.000895	0.011235945
STT3B	0.589423383	3.491553606	0.000899	0.011273097
ROGDI	-0.248571071	-3.519142131	0.000901	0.011276826
IFT57	-0.446504511	-3.502806318	0.000906	0.011330884
PXK	-0.285976297	-3.508005752	0.000908	0.011330884
GAS8	-0.458426216	-3.507580018	0.000909	0.011330884
LNPEP	0.225537368	3.479948599	0.000909	0.011330884
AMDHD2	-0.306415132	-3.526841761	0.000912	0.011344286
CRELD1	0.466704323	3.484593349	0.000916	0.011389753
NUP210	0.435952876	3.498596893	0.000918	0.011399394
TRAPPC2L	-0.16831406	-3.476332244	0.000926	0.011485459
NIPBL	0.145333906	3.473076253	0.000929	0.011502974
CHD4	0.188438628	3.484527388	0.000932	0.011532833
EMC4	0.287679737	3.4715159	0.000934	0.011535949
CEP112	-0.475211765	-3.530094963	0.000938	0.011562754
CDKN2C	-0.607339962	-3.501224264	0.000938	0.011562754
JPT2	-0.297093797	-3.473333814	0.000949	0.011682341
CFD	-0.508674906	-3.466276374	0.000950	0.011682341
PLCE1	-0.514978462	-3.480804951	0.000956	0.011744837
TMED3	0.429715045	3.474795127	0.000961	0.011785044
FAM241B	0.354669267	3.478069905	0.000967	0.011848472

GDE1	0.348613214	3.460016635	0.0009688	0.011848514
TRPM7	0.291414177	3.46686776	0.0009746	0.011905128
CAPN13	-0.909015583	-3.457656518	0.0009778	0.01191874
GIT2	-0.221413985	-3.465510427	0.0009781	0.01191874
ZDHC6	0.38496562	3.466283195	0.0009810	0.011939733
PTX3	-0.646540541	-3.464588881	0.0009837	0.011957602
VMP1	0.314769098	3.466588989	0.0009876	0.011978342
RNF170	0.386988722	3.488845926	0.0009878	0.011978342
SYVN1	0.465840508	3.463850513	0.0009889	0.011978342
RENBP	-0.40969109	-3.471450033	0.0009946	0.012018669
PALMD	-0.46792406	-3.483775497	0.0009952	0.012018669
FCHSD2	-0.233440132	-3.483423112	0.0009958	0.012018669
GPNMB	-0.596220549	-3.45112187	0.0009979	0.012029985
MTCH1	0.391607598	3.46988207	0.0010018	0.012062637
S100A12	-1.181634211	-3.448769247	0.0010069	0.012099027
MCUB	-0.85461109	-3.530603234	0.0010072	0.012099027
AGPAT1	0.357933195	3.461951333	0.0010153	0.012172001
CHGA	-1.455763759	-3.447455011	0.0010164	0.012172001
ZCCHC24	-0.696990902	-3.490254193	0.0010169	0.012172001
ALG9	0.391267068	3.453882376	0.0010204	0.012191674
EIF2AK3	0.3149525	3.495797915	0.0010209	0.012191674
NFKB2	-0.266056748	-3.470802053	0.0010261	0.012231716
CEP250	-0.213155158	-3.443744425	0.0010261	0.012231716
PALM	-0.645843195	-3.490302951	0.0010317	0.012276797
CLCC1	0.398186278	3.448962791	0.0010357	0.012299896
PIGU	0.478970451	3.450899948	0.0010361	0.012299896
SPATA6	-0.723692885	-3.445618868	0.0010421	0.012355096
SEL1L	0.420176992	3.444430093	0.0010436	0.012355096
RGN	-0.960552857	-3.495530635	0.0010444	0.012355096
CD320	0.432188534	3.438864295	0.0010479	0.012355096
PCNT	-0.184079575	-3.485614969	0.0010477	0.012355096
RBMX	0.191202669	3.443176102	0.0010480	0.012355096

BUD23	0.212536278	3.433425576	0.0010502	0.012366843
TYW1	0.270375897	3.461918347	0.0010557	0.012411705
CLGN	0.735977575	3.455069104	0.0010565	0.012411705
TRERF1	-0.355090977	-3.450436361	0.0010636	0.012467321
RILPL2	-0.33216312	-3.468296456	0.0010637	0.012467321
MKS1	-0.407082929	-3.466748243	0.0010705	0.012533094
PLS1	-0.344446429	-3.42854003	0.0010725	0.012539933
MID1IP1	-0.360709762	-3.470379534	0.0010836	0.01264973
PACS1	-0.202678797	-3.444551016	0.0010867	0.012678493
IFT122	-0.384412782	-3.424623114	0.0010967	0.012770628
BCL9L	-0.198833496	-3.432441053	0.0010977	0.012770628
CENPB	0.186349079	3.430247255	0.0011007	0.012791001
WDR47	-0.233633684	-3.433640982	0.0011035	0.012816152
TMEM41A	0.476729511	3.439109953	0.0011085	0.012863833
TMPRSS13	0.704917098	3.504269174	0.0011124	0.012889721
PIGT	0.342352549	3.419234385	0.0011142	0.012896307
CNRIP1	-0.687277444	-3.434434296	0.0011197	0.012933119
RSPH3	-0.806723236	-3.419390273	0.0011204	0.012933119
NCOA5	0.172060318	3.41560106	0.0011212	0.012933119
RHBDD2	0.439717199	3.433623277	0.0011277	0.012986006
ATL1	0.497862556	3.461768265	0.0011288	0.01299083
MMGT1	0.479410677	3.409149823	0.0011364	0.013063146
SCD5	0.734984305	3.408605541	0.0011446	0.013143246
CETN3	-0.383335526	-3.412838136	0.0011477	0.013163266
HSD17B12	0.523943985	3.418946747	0.0011506	0.013181894
OGN	-1.502285338	-3.439188138	0.0011535	0.013200324
APPL2	-0.248483835	-3.401546967	0.0011596	0.013254767
MTX1	0.313910338	3.41611033	0.0011637	0.013267989
WDR1	-0.257160526	-3.404082452	0.0011634	0.013267989
YLPM1	0.146948102	3.401003111	0.0011656	0.013271878
SRP9	0.258070549	3.406031167	0.0011697	0.013298133
STK17B	-0.347096692	-3.399263398	0.0011699	0.013298133

RASAL2	0.26933812	3.441366652	0.0011715	0.013298859
PGAM2	-1.036819173	-3.406942772	0.0011735	0.013308962
CLIC2	-0.568170865	-3.410732011	0.0011865	0.013431312
TLE3	0.334162624	3.443822161	0.0011865	0.013431312
NDOR1	-0.329785752	-3.4314415	0.0011896	0.01344218
ADH1C	-0.980442105	-3.40482407	0.0011905	0.01344218
UBA3	0.159477532	3.410962258	0.0012024	0.01356119
BSG	0.549340865	3.40094597	0.0012055	0.013567912
NAV2	0.370800485	3.507950452	0.0012058	0.013567912
AGO4	-0.318024167	-3.428327698	0.0012076	0.013567912
CEP290	-0.31810015	-3.400497468	0.0012085	0.013573805
PLA2G12A	0.373252744	3.386470038	0.0012165	0.013643859
CAPG	-0.405964662	-3.439045065	0.0012205	0.013658294
COMT	0.355627594	3.414967318	0.0012205	0.013658294
INPP1	-0.349760301	-3.385430207	0.0012305	0.013760034
OSBPL9	-0.137447707	-3.38393522	0.0012326	0.013763578
CORO1C	-0.548764474	-3.380540574	0.0012365	0.013784617
RACGAP1	0.460653797	3.424404567	0.0012385	0.013784617
PPP2R3C	-0.292847798	-3.428652671	0.0012385	0.013784617
FAM8A1	0.365599436	3.404949398	0.0012406	0.01378564
ALDH3A1	1.093758835	3.500134485	0.0012435	0.01380613
NEK11	-0.512013671	-3.444360768	0.0012584	0.013955258
SEMA3C	0.523652726	3.440989886	0.0012594	0.013955258
PDPK1	-0.138844812	-3.382725156	0.0012626	0.013975474
AP5M1	-0.200328496	-3.378005381	0.0012646	0.01398286
GALNT16	0.922144173	3.440038049	0.0012777	0.014100428
PDE6D	-0.239091335	-3.401611317	0.0012796	0.014100428
GXYLT1	0.30256594	3.375742921	0.0012805	0.014100428
GTF2I	0.237940872	3.393978083	0.0012808	0.014100428
HNRNPR	0.163687068	3.37373818	0.0012857	0.014139368
LMAN2L	0.428885883	3.420199494	0.0012885	0.01415109
CHORDC1	-0.280421617	-3.387770992	0.0012985	0.014252804

MAP9	-0.408251692	-3.399314368	0.0013080	0.014338175
SH2D1A	-0.657894913	-3.392012265	0.0013100	0.014347537
ENTPD3	0.588060414	3.39589872	0.0013175	0.014410852
RAI14	-0.353358214	-3.388615986	0.0013195	0.014416712
LIX1L	-0.41477782	-3.37716816	0.0013235	0.01444688
HIP1R	0.219225229	3.359036014	0.0013254	0.01444688
DHDDS	-0.281976275	-3.508853732	0.0013265	0.01444688
FBXO6	-0.430118346	-3.378305353	0.0013354	0.014527905
DOCK4	-0.281048045	-3.356311162	0.0013386	0.014537202
GPAM	0.223133722	3.379330944	0.0013395	0.014537202
PARP10	-0.20694909	-3.354013468	0.0013435	0.014569716
ETS1	-0.288083083	-3.377020794	0.0013455	0.014571677
NUP205	0.142453647	3.347318355	0.0013707	0.014832468
ARPC3	-0.227812218	-3.350187606	0.0013807	0.014919664
SLC25A51	0.360391801	3.405164095	0.0013817	0.014919664
BAD	-0.230117519	-3.342602524	0.0013997	0.015097472
BPIFB1	-0.960025073	-3.351152038	0.0014015	0.015097472
EIF1AX	0.311884962	3.348837896	0.0014095	0.015166996
ATG12	-0.171048778	-3.337919181	0.0014130	0.015193738
CCDC187	-0.885524338	-3.372699836	0.0014167	0.015202091
TYROBP	-0.656150676	-3.37312856	0.0014185	0.015202091
FCGR2B	-0.558334	-3.35641182	0.0014185	0.015202091
VLDLR	0.358852331	3.355417058	0.0014280	0.01528287
EEF2K	-0.359884812	-3.357346736	0.0014289	0.01528287
TCHH	1.312357506	3.51787908	0.0014316	0.015291063
MAP4	-0.201332425	-3.34293	0.0014326	0.015291063
ADGRL3	0.9676875	3.37829914	0.0014400	0.015346164
ELANE	-0.881085752	-3.331381354	0.0014410	0.015346164
PRUNE2	-0.37510109	-3.33299484	0.0014420	0.015346164
M6PR	0.339463756	3.344636966	0.0014466	0.015375234
LETM1	0.451835564	3.338968539	0.0014590	0.015490631
EPHB3	0.836940789	3.352230868	0.0014698	0.015589597

TLN1	-0.510323985	-3.323796199	0.001472	0.015597892
AGK	0.367541353	3.354967265	0.001478	0.015647184
OSBPL2	-0.154500526	-3.324980761	0.001485	0.015690427
ANPEP	-0.768970301	-3.321087593	0.001485	0.015690427
GNB4	-0.414936711	-3.35020656	0.001487	0.015694569
ACTR2	-0.185205639	-3.319880054	0.001491	0.015713178
CD180	-0.533412	-3.45756279	0.001492	0.015713178
YKT6	0.228302556	3.346784547	0.001495	0.01572486
CDS2	0.320688195	3.317296479	0.001504	0.015812451
MAST3	-0.271912185	-3.351187382	0.001506	0.015812601
MARCHF5	0.307935226	3.330176	0.001509	0.015824428
AGPAT5	0.385741729	3.329508249	0.001516	0.015883729
FKBP11	0.704209211	3.339187247	0.001518	0.015889329
EFCAB7	-0.370077105	-3.320553742	0.001523	0.015924772
GAREM1	-0.306343406	-3.360855686	0.001526	0.015924772
DCAF11	0.192269515	3.403453266	0.001526	0.015924772
RAB10	0.400644474	3.319361183	0.001532	0.015967282
PON2	0.519786391	3.358138123	0.001536	0.015995178
RSF1	0.152754004	3.31030104	0.001539	0.016006691
EMC7	0.343400395	3.310248208	0.001555	0.016137131
CBR1	-0.414315771	-3.335194176	0.001556	0.016137131
CPXM1	-0.486850056	-3.33361418	0.001557	0.016137131
FOXA1	-1.290338402	-3.341250808	0.001558	0.016137131
NEDD4L	-0.361342274	-3.342075113	0.001561	0.016152972
ERO1B	-0.464707302	-3.330838859	0.001564	0.016168701
CLUAP1	-0.405275883	-3.333765083	0.001570	0.016216708
CDIPT	0.426221429	3.302841527	0.001574	0.016240347
SRPRB	0.408249643	3.301039508	0.001578	0.016250965
AKAP12	-0.785897368	-3.315483347	0.001578	0.016250965
MAN2A1	0.417491165	3.338406795	0.001587	0.016329144
ZW10	0.152970641	3.325680659	0.001594	0.016379028
EHBP1L1	-0.266547914	-3.296778391	0.001598	0.016406669

TANGO2	-0.290030203	-3.310332191	0.0016026	0.016431403
QPCT	0.71308609	3.374124405	0.0016204	0.016596462
MUC13	-0.793894173	-3.310049824	0.0016288	0.016666642
STX2	-0.50029468	-3.45233971	0.0016310	0.016672199
TCF7	0.844639713	3.428596827	0.0016349	0.016694748
DLX6	0.514364974	3.361138656	0.0016443	0.016774077
UBE2Z	-0.13674797	-3.296622026	0.0016539	0.016851099
GNE	-0.289090902	-3.285268001	0.0016671	0.016972231
ACAD11	-0.372124812	-3.288378079	0.0016690	0.016975164
USP43	0.476701128	3.322552781	0.0016749	0.017017681
OCIAD1	0.306083062	3.297841618	0.0016800	0.017047434
RIPOR1	-0.279498496	-3.285545565	0.0016812	0.017047434
AK1	-0.47989825	-3.28832514	0.0016939	0.017159536
AAAS	0.145134868	3.288246709	0.0017012	0.017176814
TEKT1	-0.944209945	-3.419997173	0.0017019	0.017176814
CHST4	-0.591502648	-3.314455985	0.0017022	0.017176814
APOBEC3G	-0.349120745	-3.281628889	0.0017036	0.017176814
HDGFL3	-0.596785282	-3.33190822	0.0017041	0.017176814
CACNB3	-0.356096805	-3.283656005	0.0017076	0.017195025
MBOAT7	0.575984211	3.321365362	0.0017098	0.017199864
SULT1A1	-0.686185526	-3.271861279	0.0017243	0.017322007
EFL1	0.191545094	3.32503321	0.0017258	0.017322007
R3HDM1	0.204586165	3.316802212	0.0017270	0.017322007
ALG12	0.371377151	3.268602743	0.0017470	0.017494614
PTGDS	-0.631144737	-3.271223671	0.0017477	0.017494614
SMAP2	-0.232428306	-3.26909999	0.0017517	0.01751724
DERL2	0.565098148	3.309085755	0.0017546	0.017528819
HCFC2	-0.220113083	-3.305779022	0.0017572	0.017538122
CALCOCO2	-0.160936788	-3.267025392	0.0017660	0.01760291
FGF1	-0.520790595	-3.299021701	0.0017672	0.01760291
IFT81	-0.408660865	-3.276411625	0.0017818	0.017731611
MAP3K3	-0.373861541	-3.281358139	0.0017868	0.017763138

ANKHD1	-0.275261452	-3.290171323	0.0017970	0.017847251
SLC30A9	0.432355075	3.296573123	0.0018045	0.017902556
PPP1R12C	-0.370105	-3.256617292	0.0018075	0.01791494
ARPC2	-0.228089624	-3.256924703	0.0018108	0.017917056
BCL3	-0.305881015	-3.295078974	0.0018115	0.017917056
STX5	0.286589173	3.271123865	0.0018139	0.017927853
MPO	-0.762080827	-3.253548661	0.0018257	0.018026499
DBR1	0.123623195	3.253110459	0.0018284	0.018035393
ORC5	0.203501002	3.259131806	0.0018345	0.018074768
CEP170	0.231270226	3.285913939	0.0018375	0.018090082
LRCH1	-0.196806053	-3.250183207	0.0018404	0.018101805
DSP	0.430792218	3.262285992	0.0018588	0.018264185
GTF3C4	0.175946402	3.25413868	0.0018735	0.018389402
UBTF	0.228955414	3.246081809	0.0018799	0.018436469
ZER1	-0.252008045	-3.279307128	0.0018847	0.018465171
GSDMD	-0.280942857	-3.256575366	0.0018905	0.018504708
RASSF2	-0.405373872	-3.28153475	0.0019010	0.018577604
PROX1	1.079839464	3.410641167	0.0019032	0.018577604
SMAD3	-0.317629211	-3.260865223	0.0019047	0.018577604
HERC5	-0.398355827	-3.250367818	0.0019055	0.018577604
CHN1	-0.484263647	-3.267717161	0.0019145	0.018645814
CCDC13	-0.99588325	-3.313272864	0.0019176	0.018661635
NAA35	0.141594286	3.267117734	0.0019279	0.018735351
UGGT2	0.243124297	3.295850736	0.0019294	0.018735351
ARHGAP27	-0.238556335	-3.264498505	0.0019307	0.018735351
ATRAID	0.410961357	3.264442165	0.0019455	0.018857315
RAB22A	0.228688816	3.23374654	0.0019480	0.018862026
SSR1	0.502776259	3.237312157	0.0019495	0.018862026
USP7	0.148376466	3.23976419	0.0019532	0.018863632
ANO10	0.414649135	3.257332952	0.0019532	0.018863632
SMNDC1	0.156715361	3.229884075	0.0019689	0.018958735
SEC62	0.513279699	3.249496349	0.0019694	0.018958735

SRGN	-0.448882791	-3.236729143	0.0019722	0.018958735
PAGE4	-1.183695113	-3.239686949	0.0019722	0.018958735
CEP89	-0.383753759	-3.240944684	0.0019724	0.018958735
FBXW9	-0.383651214	-3.25205177	0.0019782	0.018979576
ARHGAP26	-0.374995865	-3.249722444	0.0019788	0.018979576
SLC25A10	0.482965602	3.23576045	0.0019802	0.018979576
DBNL	-0.232317932	-3.253659199	0.0019954	0.019100065
LGALS9	-0.425610602	-3.239235471	0.0019965	0.019100065
LRRC46	-0.713234581	-3.240821597	0.0020001	0.019106987
GLRX	-0.542257143	-3.244923754	0.0020010	0.019106987
TDP2	-0.204332481	-3.270088821	0.0020196	0.019258752
MAT2B	-0.129583553	-3.257175138	0.0020243	0.019258752
UVRAG	-0.177368195	-3.22791849	0.0020259	0.019258752
SPI1	-0.604225862	-3.542259258	0.0020262	0.019258752
ALG1	0.357845789	3.226560176	0.0020264	0.019258752
RNASE2	-0.436487669	-3.218399769	0.0020296	0.01927135
LMOD1	-1.115754398	-3.224986618	0.0020431	0.019381363
GPRIN3	-0.421773891	-3.251344744	0.0020525	0.019434072
MAF 1.00	-0.212476316	-3.214047703	0.0020525	0.019434072
EMC6	0.447657069	3.260317108	0.0020561	0.019450272
CYTH4	-0.373667246	-3.253309532	0.0020632	0.019483985
PUSL1	-0.300699198	-3.315312107	0.0020635	0.019483985
RCCD1	-0.169002293	-3.21340241	0.0020679	0.019507291
ORC3	0.218985188	3.212358712	0.0020871	0.01967521
BCL2L11	0.566736798	3.261816625	0.0021010	0.019782772
TRIM13	0.273393438	3.211012105	0.0021044	0.019796283
CRADD	-0.284057481	-3.221791678	0.0021083	0.019814406
ANKRD35	-0.468212368	-3.209562147	0.0021142	0.019833033
ID4	0.294122226	3.239892901	0.0021151	0.019833033
YIPF5	0.40933485	3.203662107	0.0021161	0.019833033
NUP155	0.124613571	3.203028311	0.0021214	0.0198639
CILP	-0.760484756	-3.216051122	0.0021265	0.019891188

FCHO2	-0.159434229	-3.212443664	0.0021289	0.019891188
CAB39	-0.187503199	-3.211059656	0.0021302	0.019891188
TRAPPC4	-0.196547989	-3.225126988	0.0021329	0.019894577
PRKDC	0.226300301	3.203638773	0.0021348	0.019897511
AP4E1	-0.208705846	-3.222866942	0.0021416	0.019943114
HSPBP1	-0.204005432	-3.199590395	0.0021457	0.019962358
TBC1D2B	-0.310744361	-3.213316496	0.0021484	0.019969536
RGCC	-0.368172455	-3.225927558	0.0021529	0.019987894
PSMB7	0.166453947	3.199954024	0.0021606	0.020046283
PBRM1	0.174957895	3.203813612	0.0021884	0.020285512
CEP57	-0.248731233	-3.199015897	0.0022034	0.020397806
BECN1	-0.150421504	-3.207563682	0.0022049	0.020397806
TCEAL5	-1.218782462	-3.218651132	0.0022086	0.020410987
MFGE8	0.641866729	3.225259811	0.0022112	0.020422068
ACAP2	-0.142686974	-3.1842819	0.0022426	0.020693545
INF2	-0.325443421	-3.207215381	0.0022467	0.020712947
F11	-0.428300376	-3.184255416	0.0022597	0.020813312
GAR1	0.3308445	3.182409117	0.0022729	0.020915761
ALOX15	-0.819336571	-3.198240536	0.0022799	0.020953929
DYSF	-0.381876842	-3.17858114	0.0022817	0.020953929
ESRP1	0.331178872	3.178906326	0.0022846	0.020961067
ASPN	-1.061931391	-3.183448537	0.0022949	0.021041803
LMF2	0.4685	3.180195738	0.0023028	0.02109055
ALPP	-1.148312293	-3.182264077	0.0023047	0.02109055
HSP90B1	0.301057857	3.182614204	0.0023064	0.02109055
CHST6	-0.676936053	-3.179517677	0.0023138	0.021138359
FSD1L	-0.468637083	-3.189263116	0.0023158	0.021138359
PRSS57	-0.736296793	-3.200210845	0.0023252	0.021195541
ARID2	0.187738139	3.201187555	0.0023269	0.021195541
DMD	-0.664319549	-3.172327233	0.0023289	0.021195541
SUGT1	-0.203195899	-3.175666097	0.0023376	0.021255764
DYNC2LI1	-0.435259586	-3.181043892	0.0023566	0.021414669

ADAMTSL4	-0.541648571	-3.179812706	0.0023597	0.021423372
IFT80	-0.379030977	-3.17134529	0.0023636	0.021439439
FAM92A	-0.436866955	-3.21148082	0.0023718	0.021480064
VEZT	0.359141897	3.211642102	0.0023725	0.021480064
DHRS3	-0.459931917	-3.169812721	0.0023796	0.021513904
TM9SF4	0.381414023	3.192423169	0.0023835	0.021513904
DKK 1.00	1.720247368	3.284085608	0.0023842	0.021513904
SH3BGRL	-0.361812068	-3.163641574	0.0023845	0.021513904
SYNJ1	-0.195248425	-3.179849529	0.0023906	0.021544108
TMX3	0.356418985	3.204145456	0.0023939	0.021560405
ITIH1	-0.45696691	-3.166427124	0.0023963	0.021562996
ATP6	0.400997575	3.160908325	0.0024042	0.021615016
CMC2	0.3585704	3.195025049	0.0024067	0.021618428
ST3GAL6	-0.695004374	-3.191489065	0.0024162	0.021684652
EPS15	-0.148938966	-3.170733325	0.0024255	0.021732919
WEE1	0.382266165	3.261659349	0.0024259	0.021732919
FAM20B	0.38108282	3.244388253	0.0024340	0.021786107
FEM1A	-0.364002708	-3.277475957	0.0024511	0.021919698
RPGR	-0.428591902	-3.181460253	0.0024776	0.02213787
TTR	-0.459028534	-3.150327571	0.0024870	0.022199952
ZYX	-0.5549235	-3.153023906	0.0024907	0.022199952
POLR1D	0.185983346	3.151013001	0.0024928	0.022199952
XPO6	-0.15847062	-3.153829881	0.0024935	0.022199952
HDAC4	0.224609511	3.180745786	0.0025014	0.022252343
CCDC97	-0.221044248	-3.173942385	0.0025046	0.022261125
SEPTIN1	-0.422813158	-3.150473275	0.0025162	0.022344869
AP3S2	-0.395008823	-3.184803773	0.0025237	0.022391382
TRMT61A	0.186596711	3.166706962	0.0025264	0.022396023
ZNF687	0.239669117	3.145839141	0.0025362	0.022463376
RABL3	0.230554737	3.228078691	0.0025399	0.022476232
MMRN2	-0.406513797	-3.154702407	0.0025504	0.022547566
CCN2	-0.491960902	-3.163950222	0.0025524	0.022547566

DNAAF3	-0.655088571	-3.161166245	0.0025607	0.022566766
PPP4R1	-0.154401504	-3.144532575	0.0025608	0.022566766
TNS3	0.254222406	3.151485317	0.0025612	0.022566766
RRAS	-0.387224248	-3.141656615	0.0025707	0.022612853
CNPY3	0.25076141	3.178984636	0.0025709	0.022612853
SPOCK1	1.112737778	3.175580539	0.0025867	0.022707551
ARL6IP5	0.450242368	3.14294693	0.0025862	0.022707551
SUN2	0.384600338	3.150856845	0.0025933	0.022750939
PPP2R2A	-0.20257297	-3.134499714	0.0026117	0.022892697
TIMM21	0.401291654	3.166669546	0.0026335	0.023063287
USE1	0.332425808	3.129843448	0.0026432	0.023128713
TRMT2A	-0.179268571	-3.130875749	0.0026510	0.023177079
PPP1R12B	-0.96167406	-3.134172869	0.0026604	0.023238437
CFAP58	-0.893166016	-3.176180334	0.0026626	0.023238437
DGKH	-0.287303647	-3.152845594	0.0026775	0.023347883
HGF	-0.739535239	-3.127984242	0.0027000	0.023523629
PAICS	0.225600002	3.124664158	0.0027176	0.02365364
MLLT3	0.289295239	3.140597456	0.0027195	0.02365364
POMT1	0.416801779	3.182540536	0.0027285	0.023709679
CLASP2	0.124345987	3.122054702	0.0027347	0.023740047
IFT22	-0.319201109	-3.127170686	0.0027437	0.02378179
ATP11B	0.383676053	3.155939473	0.0027467	0.02378179
RHBDD1	0.305560996	3.118291124	0.0027472	0.02378179
MZB1	-0.821082143	-3.11916626	0.0027495	0.02378179
CNPY4	0.29478688	3.164540989	0.0027507	0.02378179
TMED5	0.424906729	3.14648264	0.0027586	0.023827626
LPCAT2	0.530150583	3.190740433	0.0027607	0.023827626
MAPRE3	-0.447003195	-3.121928647	0.0027666	0.023858473
RASAL1	-0.540454135	-3.125203201	0.0027697	0.023865259
CCPG1	0.378589586	3.124375654	0.0027724	0.023867743
CYP51A1	0.339233985	3.137191201	0.0027776	0.023892089
HNRNPDL	0.202323053	3.110290906	0.0027917	0.023988111

HKDC1	-0.702559962	-3.115001751	0.0028006	0.024049155
FAM210B	0.626133722	3.124428778	0.0028086	0.024092918
HAUS4	-0.189506729	-3.116351415	0.0028132	0.024110666
FAM20A	-0.673413557	-3.177650808	0.0028148	0.024110666
SNX16	-0.345766673	-3.110352747	0.0028236	0.024159831
PLAAT3	-0.356899118	-3.149892429	0.0028267	0.024171208
XPR1	0.601352068	3.151298503	0.0028349	0.02421552
AP2S1	-0.165215602	-3.118122073	0.0028366	0.02421552
UBAC2	0.357243026	3.122199378	0.0028407	0.024230313
GDPGP1	-0.286131184	-3.124425393	0.0028578	0.024354906
MYLK	-0.933843609	-3.102885354	0.0028606	0.024356373
AFAP1L1	-0.477072941	-3.159535803	0.0028655	0.024379853
PRKCSH	0.216149184	3.108128581	0.0028707	0.024403576
BICC1	-0.521526128	-3.138543286	0.0028746	0.02441608
TRAPPC1	-0.135654474	-3.107367268	0.0028807	0.024418067
API5	0.116482825	3.103289935	0.0028804	0.024418067
PGAM5	0.284496617	3.112344774	0.0028837	0.024418067
THOC2	0.167636778	3.099122733	0.0028844	0.024418067
WDR7	-0.152523214	-3.097461949	0.0028977	0.024462594
B9D2	-0.381033236	-3.104552453	0.0028977	0.024462594
TTC8	-0.290686556	-3.117986194	0.0028987	0.024462594
EPHX1	0.704585602	3.128200882	0.0029016	0.024462594
BCAP31	0.45922094	3.097567316	0.0029026	0.024462594
ZNF121	0.282243833	3.147643146	0.0029042	0.024462594
SEMA4A	-0.362595712	-3.124187138	0.0029076	0.024462594
AP5Z1	-0.192851267	-3.119795983	0.002909	0.024462594
DEFA3	-1.329955733	-3.095593164	0.0029186	0.024511923
PPP2R5C	0.153038177	3.144244573	0.0029196	0.024511923
MASP1	-0.411532068	-3.094366079	0.0029305	0.024582817
TMX2	0.36989703	3.098077677	0.0029407	0.024644762
CAVIN1	-0.81252218	-3.107349736	0.0029428	0.024644762
C17orf97	-0.42322406	-3.138269762	0.0029505	0.024684976

NFXL1	0.399937669	3.115335368	0.0029524	0.024684976
RNASE3	-0.714943853	-3.090952652	0.0029585	0.024704864
REEP4	0.250460338	3.091513696	0.0029597	0.024704864
CFAP52	-0.790720788	-3.114654205	0.0029748	0.024776179
SH3BP5	-0.280422144	-3.091257266	0.0029754	0.024776179
PIBF1	-0.265679974	-3.089836008	0.0029755	0.024776179
APTX	0.224411335	3.109504644	0.0029976	0.024939875
ADA	-0.411504699	-3.112382455	0.0030037	0.024948216
SKP1	-0.172087124	-3.10525918	0.0030052	0.024948216
IER3IP1	0.421808686	3.103859827	0.0030064	0.024948216
FUS	0.213330842	3.084833183	0.0030085	0.024948216
ARSL	0.624481767	3.11008573	0.0030225	0.025043598
CRISPLD2	-0.527414662	-3.087362794	0.0030306	0.025090796
POGZ	0.215275038	3.092573069	0.0030403	0.025150616
POU2F2	-0.625823864	-3.116075671	0.0030448	0.025164382
ITGB3	-0.462947763	-3.080075955	0.0030485	0.025164382
NYNRIN	-0.377480226	-3.100389053	0.0030494	0.025164382
PYGB	-0.34852731	-3.090178744	0.0030525	0.025167797
COA1	0.376511786	3.079161524	0.0030574	0.025189457
ALG6	0.469395226	3.086519299	0.0030757	0.025293716
NADK	-0.281453684	-3.10885661	0.0030767	0.025293716
PTPN13	-0.385192105	-3.115262161	0.0030776	0.025293716
SSR4	0.379887782	3.075143192	0.0030956	0.025421255
GPX4	-0.236243553	-3.089452154	0.0030993	0.025431405
RASL12	-0.554065438	-3.072874135	0.0031256	0.025626218
FAM136A	0.319203008	3.093095823	0.0031316	0.025649776
CEP162	-0.310562406	-3.076925326	0.0031352	0.02566365
APOBEC3F	0.40437688	3.143822662	0.0031498	0.025762209
CASP1	-0.390229511	-3.125847859	0.0031574	0.025803581
LYPD3	1.25916	3.146980997	0.0031627	0.025821487
NUDT16	-0.238416353	-3.072335841	0.0031717	0.025863885
SNX9	-0.261564835	-3.066949007	0.0031724	0.025863885

PGGT1B	-0.178354887	-3.069754947	0.0031782	0.025889918
HEATR5A	-0.184492011	-3.077418688	0.0031897	0.025962712
TBC1D22B	-0.162272921	-3.065760588	0.003195	0.025984979
AKAP10	-0.125628421	-3.06624632	0.0032009	0.025999445
UCK2	0.32290494	3.082377641	0.0032019	0.025999445
MCM3AP	0.112762237	3.096845223	0.0032069	0.025999445
GATAD2A	0.122135489	3.063261056	0.0032070	0.025999445
ASB6	-0.366388553	-3.073770494	0.0032112	0.026013193
PPP1R18	-0.38623765	-3.071805064	0.0032187	0.026039284
SSR3	0.651752199	3.062785364	0.0032206	0.026039284
MAML3	0.296099267	3.090417299	0.0032222	0.026039284
FGD3	-0.364708	-3.071609908	0.0032272	0.026059292
CIT	0.272243045	3.084111236	0.0032310	0.026069172
RPL35A	0.26870213	3.067791842	0.0032336	0.026069172
BLNK	-0.34403515	-3.135833243	0.0032407	0.026105796
FERMT1	0.571958801	3.092572538	0.0032567	0.026180265
HMOX2	0.422594436	3.074921889	0.0032562	0.026180265
EML1	-0.406442293	-3.061726263	0.0032577	0.026180265
CCL5	-0.481484286	-3.059300877	0.0032667	0.026232435
TMEM231	-0.522316165	-3.058352367	0.0032726	0.026254845
SFRP1	-0.73596109	-3.099927421	0.0032753	0.026254845
RNF135	-0.21659591	-3.060863048	0.0032773	0.026254845
FNDC1	-0.488253947	-3.058853638	0.0032810	0.026263828
C6orf132	-0.364136654	-3.073832784	0.0032912	0.026306257
SEC61B	0.438291729	3.062074835	0.0032928	0.026306257
CFAP36	-0.303039248	-3.082211411	0.0032947	0.026306257
BIRC3	-0.504338118	-3.208355888	0.0033029	0.026356145
ADH5	-0.270531617	-3.055416751	0.0033375	0.026595413
FCAR	-0.778998857	-3.149436985	0.0033422	0.026595413
PSEN2	0.545450631	3.11177154	0.0033423	0.026595413
CS	0.293087218	3.060340257	0.0033434	0.026595413
FLVCR1	0.361618985	3.061027098	0.0033546	0.0266535

IHH	0.620955795	3.194404486	0.0033559	0.0266535
AMBP	-0.480928553	-3.056148702	0.0033597	0.026662785
HIRIP3	-0.211063308	-3.053256653	0.0033729	0.026743094
SMOC1	-0.570103716	-3.086518555	0.0033769	0.026754108
LZIC	-0.200967932	-3.059796624	0.0033849	0.026796123
CAPZA2	-0.220181842	-3.055955796	0.0033889	0.026805658
WIPF3	-0.793096242	-3.132457185	0.0033949	0.026837111
AMOTL1	-0.266342368	-3.040908761	0.0034236	0.027042444
RUNX1T1	-1.2458765	-3.289649303	0.0034286	0.027056333
PIH1D2	-0.913238333	-3.125318482	0.0034439	0.027137189
MGME1	0.316755959	3.049481799	0.0034436	0.027137189
FABP4	1.300238835	3.116910831	0.0034729	0.027347003
GSDMA	1.055344167	3.167326952	0.0034769	0.027349329
C15orf48	-0.726553459	-3.042193684	0.0034786	0.027349329
TOR1AIP2	0.316737556	3.081159076	0.0035049	0.027516847
IPO9	0.269616748	3.06800816	0.0035069	0.027516847
POLB	0.188075357	3.042998752	0.0035086	0.027516847
BAIAP2	-0.405107951	-3.048411775	0.0035136	0.027534631
ACTG1	-0.81952188	-3.048389073	0.0035189	0.0275566
SELP	-0.430132707	-3.054049452	0.0035292	0.027619221
SDK2	-0.685344017	-3.088980795	0.0035407	0.02768753
TIMM22	0.428950477	3.049752676	0.0035449	0.027699072
ARL6IP6	0.342271372	3.027386695	0.0035579	0.027775532
LAMB3	-0.466015789	-3.026687225	0.0035668	0.027827715
FETUB	-0.338338252	-3.024564416	0.0035856	0.027952449
DCTD	0.283457895	3.095232985	0.0035899	0.027960098
ALDOA	-0.266652143	-3.02567213	0.0035937	0.027968002
STARD13	-0.275124703	-3.062115421	0.0036109	0.028085318
DCDC2	-0.63505188	-3.065139348	0.0036418	0.028269283
EHD2	-0.816210361	-3.034793876	0.0036429	0.028269283
IFT88	-0.379038496	-3.035646946	0.0036429	0.028269283
GUCY1A2	-0.470640038	-3.03401804	0.0036539	0.028315164

TYK2	-0.171046936	-3.020729203	0.0036587	0.028315164
DNAJB14	0.308760169	3.017111142	0.0036592	0.028315164
LDB3	-0.77118015	-3.019522446	0.0036639	0.028315164
DNAJC14	0.263479511	3.018279791	0.0036657	0.028315164
TBC1D9	-0.214257068	-3.020871212	0.0036671	0.028315164
LRRK2	-0.434688824	-3.126233085	0.0036684	0.028315164
TMSB4X	-0.544359624	-3.028445143	0.0036838	0.028389087
GREM1	-1.192469916	-3.054067438	0.0036852	0.028389087
BCL2L14	-0.506309881	-3.031024343	0.0036865	0.028389087
TPM1	-1.057239662	-3.017988684	0.0036920	0.028390709
FOXP4	0.210685432	3.018494445	0.0036948	0.028390709
TBC1D10C	-0.309123227	-3.025621808	0.0036981	0.028390709
WLS	0.464048308	3.047923379	0.0036985	0.028390709
ZMPSTE24	0.475768929	3.018403437	0.0037019	0.028390709
DNPEP	-0.237945376	-3.014688416	0.0037033	0.028390709
CISD2	0.354123496	3.017565722	0.0037105	0.028424398
ZC3H14	0.111501861	3.013608996	0.0037206	0.028480186
FLI1	-0.344854987	-3.040288724	0.0037270	0.028498488
SUCO	0.47243009	3.072620534	0.0037286	0.028498488
VWA8	0.357433365	3.032395018	0.0037427	0.028584333
GKAP1	0.373359303	3.021438122	0.0037593	0.028677532
ALDH16A1	-0.165965113	-3.053671145	0.0037605	0.028677532
DTNA	-0.759640789	-3.013661331	0.0037759	0.028773366
CCDC90B	0.265044398	3.028195603	0.0038049	0.028972246
S100A10	-0.420469906	-3.005423981	0.0038092	0.028983179
HEATR1	0.215377575	3.038211948	0.0038168	0.029019745
DHX58	-0.283001117	-3.025006985	0.0038245	0.02905633
RAB11FIP4	-0.263556504	-3.007701658	0.0038350	0.029095297
TFAP2A	0.522115946	3.08665018	0.0038380	0.029095297
TLCD3A	0.395934862	3.060192546	0.0038382	0.029095297
CPB2	-0.509547481	-3.0300914	0.0038635	0.029264895
PRKCH	-0.293672124	-3.022505922	0.0038700	0.029291975

FAM107B	-0.304245113	-3.028355477	0.0038886	0.029411056
CTTN	-0.173220252	-3.019201676	0.003894	0.029430598
BLVRA	-0.223829642	-3.017321277	0.0039006	0.029453233
TFE3	-0.207756259	-3.004582216	0.0039295	0.029652582
TMCO4	-0.220635169	-2.996797117	0.0039326	0.029655421
AP5S1	-0.201290564	-3.012153243	0.0039536	0.029775189
TMUB1	0.494030451	3.015807907	0.0039545	0.029775189
AZI2	-0.229032827	-3.002560946	0.0039587	0.029786335
ZEB2	-0.29321109	-2.994378457	0.0039975	0.03005404
EXOG	0.309908083	2.991956368	0.0040156	0.030147147
TMPRSS4	-0.496454436	-2.986918054	0.0040156	0.030147147
MRPL35	0.396525188	3.012007975	0.0040356	0.030275156
SPG11	-0.212299451	-2.987236093	0.0040435	0.030311769
KLC3	-0.494600564	-2.982119786	0.0040497	0.030335976
POGLUT1	0.199679887	2.981710767	0.0040575	0.030370082
OGFRL1	-0.330238252	-2.990618185	0.0040615	0.03037761
CD4	-0.37937015	-2.986890074	0.0040677	0.030402929
KIAA1217	0.279402406	3.008990642	0.0040734	0.030423713
DSG2	0.384209774	3.00241401	0.0040917	0.03053303
CENPV	-0.569605902	-2.989820419	0.0040956	0.030544502
SLC25A40	0.358447086	2.977018531	0.0041417	0.030860841
PLEK	-0.410124026	-2.976385539	0.0041572	0.030953902
PSMD1	0.107583725	2.997025857	0.0041625	0.030953902
NBEA	-0.452266147	-2.981212788	0.0041627	0.030953902
MPDU1	0.608035773	2.984046438	0.0041716	0.030992781
SEPTIN9	-0.154723233	-2.980480063	0.0041906	0.031020144
TMPO	0.306565	2.983188789	0.0041927	0.031020144
PRKAR2B	-0.535954538	-2.97766696	0.0041946	0.031020144
C1QB	-0.361644925	-2.98097366	0.0041958	0.031020144
RFLNB	-0.360741917	-2.973427387	0.0041958	0.031020144
EXPH5	0.258107068	2.989537231	0.0041997	0.031020144
TRIM24	0.179112293	2.969060196	0.0042009	0.031020144

HEXA	0.319368233	2.985076908	0.0042020	0.031020144
LIMS2	-0.773135244	-2.969001836	0.0042022	0.031020144
VRK3	-0.241327673	-2.972250271	0.0042096	0.031048442
CHRD	-0.48427702	-3.017739028	0.0042121	0.031048442
ITGB1	0.332888684	2.967379746	0.0042203	0.031086251
ZNF768	0.265626165	2.970679075	0.0042246	0.03109483
CD34	-0.47940015	-2.981931945	0.0042326	0.031117411
TMEM260	0.350982266	2.975712176	0.0042355	0.031117411
SCAP	0.306695996	2.96735061	0.0042390	0.031117411
CADM1	0.481298605	2.96621791	0.0042395	0.031117411
ERGIC3	0.480374248	2.967247108	0.0042583	0.031219676
QKI	-0.248592011	-2.979767078	0.0042600	0.031219676
SURF4	0.299319756	2.974390374	0.0042640	0.031226811
KYNU	-0.690591917	-2.990910496	0.0042705	0.031251996
EMC3	0.331108929	2.965807908	0.0042770	0.031276478
BBS9	-0.271207143	-2.980329289	0.0043115	0.031509096
TUB	-0.962135504	-3.00531287	0.0043280	0.031604273
NBEAL1	-0.225232256	-2.967635139	0.0043318	0.031609193
C7orf26	0.150043344	2.974161983	0.0043371	0.031614074
OSBPL11	-0.193039117	-2.984601828	0.0043385	0.031614074
HSD17B7	0.271565188	2.974036125	0.0043420	0.031615688
TDRD7	-0.240942816	-2.972350699	0.0043513	0.031658574
GLB1L2	0.442541711	2.990563212	0.0043542	0.031658574
SCIN	-0.449881447	-2.978056135	0.0043575	0.03166325
RIF1	0.245306635	3.007388266	0.0043715	0.031739036
CDC73	0.194362782	2.969480427	0.0043804	0.031781301
TBC1D13	-0.195072951	-2.95417536	0.0043940	0.031856465
XPO5	0.249966147	2.956694516	0.0043971	0.031856465
NAGA	-0.218310752	-2.961264835	0.0044008	0.031860842
RND3	-0.34760068	-2.977793861	0.0044185	0.031966255
SELENOT	0.331887105	2.951285319	0.0044222	0.031969923
CCDC167	0.5508949	3.029521888	0.0044425	0.032078415

SMARCAD1	0.172208252	2.951130097	0.0044435	0.032078415
CLPTM1	0.363858008	2.949659383	0.0044755	0.032285085
SHFL	-0.249661122	-2.968691406	0.0044866	0.032343166
DUSP12	0.212608609	2.998277851	0.0044965	0.032382466
KDSR	0.34149812	2.945558542	0.0044984	0.032382466
DPT	-0.811340789	-2.956871349	0.0045132	0.032466003
ITGAL	-0.362925996	-2.958467635	0.0045202	0.03249333
SPCS2	0.535469173	2.942563251	0.0045311	0.032531662
SMARCD2	0.140969248	2.950669236	0.0045319	0.032531662
FOXL2	-0.545962207	-3.006495608	0.0045409	0.032553195
ZNF638	0.144554041	2.941817092	0.0045414	0.032553195
EMC10	0.229718026	2.961412589	0.0045511	0.032599919
EP300	0.130736009	2.940454207	0.0045690	0.032696979
CCDC149	-0.234503571	-2.984343352	0.0045740	0.032696979
ZFH3	0.284417669	2.945007819	0.0045765	0.032696979
GSDMB	-0.600876182	-2.975397862	0.0045775	0.032696979
RBMS1	-0.341919248	-2.942905435	0.0045855	0.032730653
HECTD1	-0.153479718	-2.948045109	0.0046032	0.032834216
MYO9B	-0.157785752	-2.937287694	0.0046189	0.032922675
KIAA0556	-0.252634737	-2.944013423	0.0046261	0.032951255
ST6GAL1	-0.502399135	-2.948388376	0.0046328	0.032960746
MIER2	0.388585488	3.033935473	0.0046339	0.032960746
VCL	-0.578544925	-2.932955331	0.0046645	0.033124848
GALNT10	0.439428571	2.945352446	0.0046651	0.033124848
GPLD1	-0.378077299	-2.93427728	0.0046699	0.033124848
ACLY	-0.245856353	-2.942875843	0.0046732	0.033124848
ABCC1	0.349670981	2.9414645	0.0046822	0.033124848
CLPTM1L	0.375483609	2.931602055	0.0046824	0.033124848
TPR	0.115235613	2.93163071	0.0046825	0.033124848
LMTK2	0.172819586	2.967387085	0.0046831	0.033124848
NOL8	0.199118797	2.936098734	0.0046929	0.033170605
ARMC9	-0.254361128	-2.959757908	0.0046979	0.033175866

ATP7A	0.251194323	2.943730028	0.004700	0.033175866
RBBP9	0.322303177	2.969960511	0.004723	0.033317181
HSD11B2	0.589544586	2.928436622	0.004735	0.033377434
CPNE8	-0.371147339	-3.057914958	0.004744	0.033418733
RALY	0.176793748	2.934265354	0.004751	0.033439919
FCGR3A	-0.578625139	-2.940159292	0.004754	0.033439919
TMEM87B	0.314338515	2.940991021	0.004767	0.03348894
RRM1	0.272128759	2.927499533	0.004767	0.03348894
AMER1	-0.394574626	-2.9323319	0.004788	0.03359176
CPVL	-0.480589323	-2.933155261	0.004788	0.03359176
GALT	-0.247817932	-2.945410408	0.004800	0.033651561
UMAD1	-0.230983008	-2.92126171	0.004812	0.033692684
ARHGAP35	0.156031835	2.921101898	0.004813	0.033692684
FBXL20	0.240654887	2.923395994	0.004821	0.033704355
ZNF24	0.191079098	2.921398485	0.004827	0.033704355
TMEM102	0.221251487	2.947595975	0.004832	0.033704355
CYP2U1	-0.49636	-3.015121249	0.004834	0.033704355
HSPA12B	-0.470185526	-2.93058641	0.004835	0.033704355
BBS2	-0.236587782	-2.944970496	0.004840	0.033704355
SNX33	-0.229370789	-2.926206135	0.004845	0.033704355
LIG3	0.156018571	2.919694417	0.004847	0.033704355
KDF1	0.288499226	2.918459656	0.004849	0.033704355
GTF2F2	0.153095865	2.91885315	0.004852	0.033704355
SMTN	-0.991169586	-2.918380792	0.004853	0.033704355
KIF3A	-0.215435898	-2.926755442	0.004854	0.033704355
COLGALT2	0.415406203	2.993655446	0.004871	0.033770344
NUP88	0.112824889	2.919041766	0.004873	0.033770344
CEP97	-0.26603342	-2.925655648	0.004874	0.033770344
PSMB5	0.199447739	2.921033944	0.004877	0.033770344
SLC30A6	0.279320056	2.929243266	0.004899	0.033901783
GYG1	-0.287461504	-2.924494015	0.004903	0.033905847
ALPK1	-0.332872219	-2.944206435	0.004919	0.033970929

NPEPL1	-0.241585714	-2.919450931	0.0049199	0.033970929
CYB5R4	-0.198180639	-2.956660065	0.0049334	0.034008016
CEP128	-0.336124436	-2.920618263	0.0049357	0.034008016
CRLF3	-0.23161641	-2.925372358	0.0049379	0.034008016
STRIP1	-0.092548512	-2.920917719	0.0049387	0.034008016
NONO	0.123906391	2.913349599	0.0049478	0.034035468
SLC12A6	0.275515231	2.914401864	0.0049499	0.034035468
TBC1D31	-0.262167576	-2.928804707	0.0049548	0.034050042
AK6	-0.190375564	-2.912473858	0.0049589	0.034052142
ZEB1	-0.409195094	-2.918835171	0.0049657	0.034074367
COMMD5	-0.138322688	-2.911642555	0.0049730	0.034105512
TMED2	0.443479925	2.91592691	0.0049857	0.034161257
TPST2	0.465061278	2.981179115	0.0049878	0.034161257
FKBP3	0.187844906	2.916232565	0.0049936	0.034177723
HSPA1A	-0.308435113	-2.915178345	0.0050038	0.034224106
PLEKHF2	-0.172208045	-2.907164933	0.0050147	0.034268247
HDAC10	-0.265997744	-2.912902327	0.0050170	0.034268247
TNS1	-0.749826635	-2.906604627	0.0050267	0.034307318
GPSM1	-0.257521604	-2.914799113	0.0050297	0.034309289
EI24	0.414515226	2.907779862	0.0050409	0.034326623
CNP	0.193413123	2.921485098	0.0050450	0.034326623
ACSS1	-0.312663722	-2.904446586	0.0050468	0.034326623
PPM1F	-0.306689135	-2.915282839	0.0050530	0.034326623
PROM2	0.36161485	2.940723034	0.0050557	0.034326623
IKBKG	-0.267683008	-2.963555321	0.0050558	0.034326623
MIB2	-0.197179323	-2.906054013	0.0050559	0.034326623
TBC1D1	-0.356612838	-2.902472428	0.0050837	0.034488974
PAPLN	-0.602718233	-2.919278063	0.0050866	0.034488974
GUCY1B1	-0.420589474	-2.912260704	0.0051054	0.034592749
BICDL2	-0.36726632	-2.909662352	0.0051117	0.034608337
HPF1	0.167363306	2.904821731	0.0051300	0.034708639
PPHLN1	0.128699295	2.898785967	0.0051352	0.034708639

ARAF	-0.141964586	-2.925474428	0.0051361	0.034708639
ODR4	0.334789207	2.941065668	0.0051546	0.034786323
PGK 1.00	-0.240144662	-2.896443821	0.0051599	0.034786323
RDX	-0.210722972	-2.922507561	0.0051612	0.034786323
APBA1	-0.397065677	-2.903651496	0.0051638	0.034786323
ADARB1	-0.351521805	-2.914775819	0.0051648	0.034786323
ATRX	0.14687297	2.902885419	0.0051722	0.034813497
PTDSS2	0.319838271	2.915784698	0.0051800	0.034823501
ROR1	0.561805385	2.918057612	0.0051806	0.034823501
ATP5MG	0.455077664	2.90797559	0.0052140	0.035023985
ACY3	-0.317350564	-2.893434538	0.0052170	0.035023985
NUDC	-0.259564737	-2.900460063	0.0052219	0.035031423
TSC22D1	0.199616429	2.919043523	0.0052330	0.035085071
ENO3	-0.309816654	-2.917053875	0.0052415	0.035089454
CCDC186	0.182558237	2.894693068	0.0052429	0.035089454
KDM8	-0.216858722	-2.942925197	0.0052444	0.035089454
BBS1	-0.247990038	-2.914477109	0.0052521	0.03511313
LTF	-1.090090414	-2.906190586	0.0052548	0.03511313
PRKCI	-0.150786429	-2.89348861	0.0052597	0.035122793
PROC	-0.476098233	-2.894680607	0.0052642	0.035124248
FLG	0.891674143	2.985322288	0.0052669	0.035124248
PIK3AP1	-0.372453947	-2.898874042	0.0052736	0.035140548
BET1	0.367029398	2.900413534	0.0052762	0.035140548
SIRT2	-0.313928346	-2.924721585	0.0052835	0.035165764
PDCD10	-0.1492455	-2.887515513	0.0052965	0.035229482
MAPKAPK3	-0.230465677	-2.894688514	0.0053246	0.035392734
ITGA7	-0.612730677	-2.885137388	0.0053302	0.03539545
CTNND1	0.173239154	2.889229832	0.0053319	0.03539545
IFT140	-0.329987425	-2.896474503	0.0053360	0.035401394
EPCAM	0.430687594	2.896564543	0.0053421	0.035416584
APOA2	-0.551925361	-2.894242202	0.0053552	0.035480137
DUT	0.221551128	2.884655207	0.0053597	0.035486689

IL32	-0.604594444	-2.949065968	0.005369	0.035510089
ATP6V0A2	0.168707068	2.882484213	0.005370	0.035510089
SAMD9L	-0.271938045	-2.881800581	0.005376	0.035524964
GGCX	0.314670019	2.884780597	0.005383	0.035524964
SCD	0.563559774	2.897708173	0.005385	0.035524964
PRDX4	0.328115808	2.908300999	0.005386	0.035524964
DNAJC11	0.32109282	2.885341056	0.005397	0.035568946
KIF3B	-0.202591128	-2.900725615	0.005400	0.035568946
USP4	-0.147348609	-2.900556318	0.005403	0.035568946
FLNC	-0.899206353	-2.880186675	0.005413	0.035609725
TDRP	-0.472601278	-2.882087551	0.005422	0.035646556
LMAN1	0.495521805	2.883546013	0.005434	0.035699516
AGR2	-0.888988534	-2.888278552	0.005437	0.035700772
RGL2	-0.201850094	-2.945032879	0.005463	0.035843678
AMACR	0.466930075	2.939456849	0.005503	0.036085568
OGFR	-0.173473609	-2.879521436	0.005523	0.036190543
ATXN3	0.177344887	2.882893542	0.005532	0.036227366
GUCY1A1	-0.327230263	-2.892328301	0.005547	0.03630523
HOXA10	-0.367451955	-2.884416131	0.005551	0.03630523
UBE4A	0.132740038	2.904909568	0.005554	0.03630523
TFAM	0.373185816	2.883951308	0.005565	0.03635233
DDX56	0.193146974	2.870654449	0.005576	0.036395601
CLIP2	-0.310859173	-2.888327793	0.005580	0.036395601
GAMT	-0.531843045	-2.876841953	0.005583	0.036395601
TAB1	-0.142250658	-2.867810736	0.005600	0.036484331
KATNAL1	-0.28098985	-2.878288966	0.005619	0.036580575
LGALS1	-0.589925365	-2.871178066	0.005622	0.036580575
CLC	-0.915188346	-2.866359744	0.005633	0.036616871
SSH3	-0.214888571	-2.877673319	0.005638	0.036616871
PNMA1	-0.326072368	-2.889240182	0.005638	0.036616871
TUBG2	-0.324001128	-2.876873002	0.005677	0.036848324
MYO10	0.196387218	2.861561828	0.005690	0.036903979

KRT31	1.360002525	2.951864664	0.0057176	0.03705871
KIF27	-0.308919436	-2.876818192	0.0057276	0.037100129
ZNF787	0.268720789	2.87787932	0.0057556	0.037253474
VTI1B	0.248167105	2.862901624	0.0057956	0.037488413
SNRNP70	0.139928571	2.855302276	0.0058106	0.037560509
MPHOSPH10	0.210923477	2.873992784	0.0058135	0.037560509
SERPINA6	-0.397640977	-2.85390626	0.0058205	0.037580574
RPN2	0.3847266	2.853219221	0.005827	0.037581754
CSTA	-0.712910902	-2.876633046	0.005829	0.037581754
GHITM	0.517303195	2.867868922	0.0058316	0.037581754
SVIP	0.36250312	2.875241689	0.0058706	0.03780501
HIC1	-0.432858064	-2.863161633	0.0058982	0.037962481
SYTL1	-0.303035684	-2.848651006	0.0059046	0.037975864
SYNE2	0.286880414	2.853042907	0.0059218	0.038066042
ASPH	0.324067857	2.864526834	0.005942	0.038176632
ST6GALNAC1	-0.489623816	-2.858424272	0.005970	0.038308539
SNAP29	-0.168324286	-2.853459884	0.0059712	0.038308539
KIAA1324	0.466709831	2.846103494	0.0059746	0.038308539
RUNX2	0.664154074	2.995289059	0.0059965	0.038405191
MAP2	0.711133459	2.922110856	0.0059972	0.038405191
FAM133B	0.292451637	2.878964656	0.0060064	0.038439698
MOXD1	0.72955782	2.914632168	0.0060266	0.03852299
GAS2L2	-0.98619733	-2.874306762	0.0060276	0.03852299
ACTR3	-0.184568985	-2.850967885	0.0060364	0.038558912
MECP2	-0.364137361	-2.84938376	0.006045	0.038591954
COL6A3	-0.612928383	-2.841545956	0.006058	0.038591954
CARD9	-0.31548094	-2.859346543	0.0060602	0.038591954
RAB33B	0.215937895	2.847189766	0.0060605	0.038591954
WDR70	0.136581203	2.84570923	0.0060606	0.038591954
GBP2	-0.407131654	-2.841649058	0.0060872	0.038737234
SLC7A1	0.454977068	2.836129059	0.0061068	0.038813598
NTAN1	-0.229495325	-2.841139323	0.0061069	0.038813598

RPS16	0.285726504	2.836741096	0.0061157	0.038845074
RALGAPA1	0.183714192	2.865722048	0.0061255	0.038883457
MAP4K3	0.138262256	2.867141011	0.0061306	0.038888242
NRP1	-0.323646635	-2.885929212	0.0061339	0.038888242
KNG1	-0.459031955	-2.838178035	0.0061379	0.038889045
ACPP	0.375986406	2.86429324	0.0061639	0.039007215
COMMD4	-0.148319549	-2.835509942	0.0061642	0.039007215
RNF139	0.482146725	2.840508561	0.0061747	0.039049049
CAPZB	-0.154589718	-2.834413669	0.0061879	0.039083737
TCF20	0.126464868	2.831368651	0.0061882	0.039083737
RPN1	0.407255263	2.834664499	0.0061924	0.039083737
COX1	0.53100922	2.859534673	0.0061956	0.039083737
CANX	0.490948421	2.831257444	0.0062197	0.039211481
TES	-0.304468365	-2.828202696	0.0062427	0.0393321
CAD	0.184406767	2.861818595	0.0062592	0.039396639
ZBTB5	0.241752222	2.833945046	0.0062607	0.039396639
TRAPPC13	-0.099198421	-2.827112256	0.0062877	0.039536339
FERMT2	-0.606888158	-2.826005437	0.0062907	0.039536339
MAP4K1	-0.514581536	-2.96156725	0.0063042	0.039596349
ARMT1	0.326222944	2.867423731	0.0063156	0.039640106
NECTIN4	0.402209962	2.873304328	0.0063463	0.039811627
MRGPRF	-0.819896189	-2.894092198	0.0063816	0.039972159
ATG5	-0.152219564	-2.826996644	0.0063823	0.039972159
C8orf88	-0.652314667	-2.870970216	0.0063837	0.039972159
ZMYM3	0.182040639	2.825191612	0.0064004	0.040051892
TOMM5	0.421133226	2.835379623	0.0064497	0.040335743
UBE2S	0.231091008	2.832298204	0.0064733	0.040458669
WDR34	-0.324827989	-2.817220935	0.0064964	0.040553593
SLIT2	-0.547332895	-2.823180574	0.0065006	0.040553593
IFT20	-0.302920712	-2.817478927	0.0065042	0.040553593
FLRT3	0.616358222	2.882932888	0.0065045	0.040553593
PPP2R2D	-0.223807538	-2.845577844	0.0065186	0.040613037

CAB39L	-0.271330075	-2.812112748	0.006537	0.04067115
KIAA1671	0.186463534	2.811685138	0.006538	0.04067115
CFHR1	-0.647506654	-2.836930509	0.006539	0.04067115
MTCH2	0.437776165	2.81979927	0.006547	0.040698759
CRPPA	-0.321257378	-2.809752769	0.006596	0.040978133
MPDZ	-0.149274568	-2.831831952	0.006613	0.041039518
WDR76	0.288586241	2.827339196	0.006614	0.041039518
EXD2	0.18415188	2.819161442	0.006659	0.041290017
SVIL	-0.441829323	-2.80463981	0.006666	0.041304378
RPS19	0.260812387	2.81099253	0.006684	0.041393697
GALM	-0.465180376	-2.828995641	0.006690	0.041404777
B3GNT3	-0.470688479	-2.843854735	0.006694	0.041409141
SDS	-0.485212343	-2.818043953	0.006712	0.041485303
ELOA	0.23206265	2.80539008	0.006715	0.041485303
CNN1	-1.373354699	-2.803941524	0.006723	0.041509346
ZNF503	0.262589959	2.805745728	0.006739	0.041556753
PYGL	-0.384527256	-2.806954008	0.006739	0.041556753
C5AR1	-0.633180889	-2.923464305	0.006744	0.04156406
LRRN4CL	-0.433405	-2.844222711	0.006751	0.041581587
CFAP161	-0.623486667	-2.909809027	0.006770	0.041676783
NT5DC1	-0.236633966	-2.813127529	0.006784	0.041732005
UBR5	0.098343846	2.797693613	0.006792	0.041758441
GCAT	-0.434420119	-2.845998502	0.006797	0.041765574
CUL7	-0.211652444	-2.811702958	0.006833	0.041958272
HACD2	0.572206109	2.797063341	0.006864	0.042079161
AP4B1	-0.170745482	-2.83259549	0.006866	0.042079161
PHF23	0.14572453	2.793567526	0.006869	0.042079161
SHISA5	0.503186386	2.832688444	0.006869	0.042079161
MEPCE	0.171070318	2.800002846	0.006881	0.042127041
IFT43	-0.345791353	-2.798826658	0.006886	0.042132617
PREP	0.222196241	2.836486403	0.006919	0.042307312
B9D1	-0.350315877	-2.803023985	0.006940	0.042410204

TMEM168	0.308087583	2.809690414	0.0069462	0.042415423
SPP1	-0.695058083	-2.790922596	0.0069596	0.042415423
APC	0.137406508	2.801600644	0.0069596	0.042415423
CKB	-0.661678575	-2.802101358	0.0069596	0.042415423
BCS1L	0.256385602	2.815000977	0.0069666	0.042415423
STAB1	-0.276510489	-2.788355357	0.0069684	0.042415423
GIMAP4	-0.340771541	-2.792388086	0.0069703	0.042415423
NKIRAS1	-0.258539079	-2.798245969	0.0069760	0.042420466
S100A8	-1.023790602	-2.791416916	0.0069795	0.042420466
TRAF1	-0.243355906	-2.807204215	0.0069854	0.042431224
TMED4	0.432127707	2.798161233	0.0069945	0.042461077
SAT2	-0.29036712	-2.810265676	0.0070171	0.042560075
GNA13	0.194659361	2.819687216	0.0070220	0.042560075
PPT1	-0.219605263	-2.785803213	0.0070234	0.042560075
PTGFRN	0.332178233	2.796843695	0.0070603	0.0427582
KMT2D	0.149187564	2.802839663	0.0070824	0.042866354
ING5	0.179987081	2.791313976	0.0070983	0.042929156
CASP10	-0.38843403	-2.795630646	0.0071036	0.042929156
APOOL	0.252454041	2.807045842	0.0071055	0.042929156
SYNPO2	-0.972590789	-2.788439486	0.0071108	0.042935721
RAD17	0.222979041	2.781746235	0.0071320	0.043017072
LRRFIP2	-0.231737444	-2.780354838	0.0071345	0.043017072
GSTM2	-0.715965539	-2.801453458	0.0071401	0.043017072
CRTAC1	-0.34789718	-2.784369841	0.0071452	0.043017072
DNAJA1	-0.20227594	-2.789198761	0.0071454	0.043017072
DENND10	-0.160177256	-2.778113049	0.0071671	0.043121733
TNRC18	0.197213087	2.778162758	0.0071744	0.043139922
CAPSL	-0.725779676	-2.810142854	0.0071823	0.043161859
RHOB	0.246183233	2.775245042	0.0072237	0.043385052
DNAAF5	-0.239492763	-2.784041081	0.0072417	0.043443529
JPH2	-0.928847932	-2.784716932	0.0072420	0.043443529
CTSK	-0.509216842	-2.808930036	0.0072492	0.043461318

URB1	0.18101359	2.774942751	0.0072687	0.043536737
SMPD4	0.23731985	2.778522656	0.0072704	0.043536737
RPA1	0.187910094	2.779988352	0.0073086	0.04374003
PDLIM4	-0.633458289	-2.775089458	0.0073355	0.043873694
LIMK2	-0.201944951	-2.769639257	0.0073534	0.043956044
REPIN1	0.254954989	2.788590733	0.0073765	0.044051874
DNM1	-0.341325	-2.793694422	0.0073787	0.044051874
SLC25A11	0.412133848	2.769707928	0.0074075	0.044182501
IFITM1	0.477689286	2.796275386	0.0074087	0.044182501
FGR	-0.559466239	-2.782301237	0.0074392	0.044272622
CHCHD3	0.252331541	2.775955718	0.0074394	0.044272622
MTMR9	-0.17974903	-2.785253743	0.0074418	0.044272622
RTKN	0.244744925	2.801036204	0.0074422	0.044272622
SRPK2	0.231037049	2.801836014	0.0074456	0.044272622
COPG2	0.191731805	2.77394573	0.0074776	0.044436781
GPRIN1	0.369035846	2.784253507	0.0074825	0.0444398
CD300A	-0.300673851	-2.770092668	0.0074987	0.044480946
FAM111A	0.16673641	2.773069278	0.0074995	0.044480946
WASF2	-0.141287519	-2.761439471	0.0075036	0.044480946
UBAP1	-0.121919342	-2.76734819	0.0075093	0.044480946
TMEM134	0.27051906	2.764082679	0.0075115	0.044480946
RAB11FIP1	-0.295298008	-2.779924974	0.0075374	0.044609615
SLC25A3	0.501434605	2.766136527	0.0075607	0.04468319
SASH1	-0.194417368	-2.760170988	0.0075657	0.04468319
ZNFX1	-0.138089549	-2.772914257	0.0075669	0.04468319
SLC44A1	0.489701128	2.759895308	0.0075675	0.04468319
TRIOBP	-0.255086665	-2.760736978	0.0076216	0.044973127
CDYL2	0.21555771	2.761372237	0.0076304	0.044985844
TMEM230	0.327378233	2.755099488	0.0076326	0.044985844
FGFRL1	0.388199273	2.767211109	0.0076485	0.044997324
ATP6V1F	-0.181759286	-2.756535656	0.0076502	0.044997324
IFI30	-0.386676823	-2.756665496	0.0076504	0.044997324

SLC39A6	0.366735451	2.75645281	0.0076530	0.044997324
PRSS22	-0.583311355	-2.791344602	0.007656	0.044997324
PYGM	-0.526095338	-2.758571184	0.0076692	0.04504378
SPATS2	0.15510363	2.757744936	0.0076729	0.04504378
TIMM17B	0.266781133	2.760417271	0.0076802	0.04505085
PIGBOS1	0.331658815	2.777906164	0.0076840	0.04505085
FKBP10	0.409989098	2.777996665	0.0076874	0.04505085
OS9	0.220209192	2.777219569	0.0077204	0.04521811
P4HA1	0.313885545	2.766851753	0.0077360	0.045267287
TSNAX	0.238480545	2.806243962	0.0077408	0.045267287
CYP20A1	0.333860977	2.761174092	0.0077459	0.045267287
MKNK1	-0.210541955	-2.760171335	0.0077467	0.045267287
RAB36	-0.372511818	-2.791283915	0.0077569	0.045300915
PRKX	-0.40382782	-2.753986619	0.0077680	0.045339674
SNX8	-0.198879267	-2.773112768	0.0077756	0.045358129
LNPk	0.317892632	2.769853108	0.0077862	0.045393718
CMPK2	-0.319047054	-2.752750646	0.0078152	0.045520305
GIPC1	-0.206260451	-2.751160395	0.0078169	0.045520305
PEX7	-0.28396109	-2.745400454	0.0078368	0.045609945
CCDC51	0.260699394	2.76938517	0.0078840	0.045823418
MARCKSL1	0.340093459	2.744222372	0.0078865	0.045823418
TANC2	-0.318466165	-2.766218113	0.0078870	0.045823418
TRIP10	-0.212033891	-2.748715181	0.0078923	0.045828216
ANKFY1	-0.135426801	-2.750559961	0.0079294	0.045979877
TMX4	0.477041887	2.759608543	0.0079300	0.045979877
SYTL4	-0.391908571	-2.775904543	0.0079360	0.045979877
PATZ1	0.213578966	2.758309753	0.0079366	0.045979877
CDK20	-0.429567602	-2.830055499	0.0079423	0.045987014
PUS7	0.241725992	2.748565049	0.0079603	0.046064578
DVL3	-0.172509395	-2.751802471	0.0079708	0.046098599
MYL6	-0.474311748	-2.738785118	0.0079786	0.046098599
MLH1	0.32433515	2.740081173	0.0079798	0.046098599

DISC1	0.360317083	2.784054233	0.0079850	0.046102258
MICOS10	0.346114586	2.73871775	0.0079914	0.046113182
LRCH3	-0.107775539	-2.738755256	0.0079989	0.046124208
VRK2	0.27431015	2.765547758	0.0080024	0.046124208
DNAL4	-0.417840977	-2.740754915	0.0080080	0.046130559
IFT52	-0.343222368	-2.747208855	0.0080411	0.046276944
PKN2	-0.120139459	-2.738035192	0.0080426	0.046276944
ILK	-0.477108387	-2.735737121	0.0080561	0.046332214
TEP1	-0.236413778	-2.751440136	0.0080675	0.046366761
ANXA13	-0.579861491	-2.750940758	0.0080730	0.046373074
LPP	-0.576139286	-2.734042725	0.0080902	0.046412946
C7orf57	-0.891405242	-2.822800027	0.0080918	0.046412946
HSD17B10	0.243174098	2.739527173	0.0080936	0.046412946
AHNAK	-0.422445432	-2.738437457	0.0081492	0.046705421
ADAM15	0.306552444	2.738382306	0.0081571	0.046723804
FKBP15	-0.161689737	-2.728651948	0.0082064	0.04698003
SPINT1	0.277957331	2.733926382	0.0082445	0.047171354
CHMP2B	-0.183856541	-2.728641468	0.008262	0.047244675
TTC21B	-0.267197594	-2.727176629	0.0082701	0.047262706
MTF1	-0.236092756	-2.730565851	0.0082744	0.047262706
MBTD1	0.309625902	2.753639033	0.0082941	0.047329532
CCDC40	-0.708166667	-2.740571339	0.0082978	0.047329532
LGALS3BP	0.506189286	2.753218705	0.0083001	0.047329532
IDUA	0.356079491	2.748721196	0.0083190	0.047410447
TMED10	0.485353252	2.723867271	0.0083895	0.047756597
SULF2	-0.408877444	-2.730487378	0.0083925	0.047756597
DNAJB6	-0.27246391	-2.727997512	0.0083971	0.047756597
CCDC102A	-0.27381391	-2.731865934	0.0084016	0.047756597
CXorf38	-0.179729368	-2.727190375	0.0084032	0.047756597
SNTB1	0.36209515	2.740408826	0.0084115	0.047775727
NT5C3B	0.149479947	2.72098922	0.0084240	0.047821229
ATP13A1	0.324002801	2.717929112	0.0084421	0.047900175

SMC6	0.199337068	2.725970233	0.0084788	0.048078476
KMT5B	0.270793063	2.729357713	0.008486	0.048092711
TRRAP	0.094554586	2.716422491	0.008513	0.048165861
GCNT3	-0.496468031	-2.76157893	0.0085202	0.048165861
ESF1	0.200587782	2.754656688	0.0085214	0.048165861
SRSF9	0.177144323	2.718776723	0.0085219	0.048165861
TMEM41B	0.478061278	2.719630435	0.0085227	0.048165861
LRRC23	-0.806647893	-2.828084228	0.0085435	0.048236731
APMAP	0.35698891	2.729084547	0.0085447	0.048236731
TSC22D3	-0.382345602	-2.728076332	0.0085802	0.04841001
PRF1	-0.38489812	-2.713680428	0.0085990	0.048488997
FLNA	-0.792575921	-2.712049559	0.0086099	0.04852346
ZYG11B	-0.140790603	-2.716683452	0.0086228	0.048556767
TPM4	-0.489027068	-2.714875048	0.0086254	0.048556767
RSU1	-0.394317223	-2.709070747	0.0086470	0.048610671
ETV3	0.401849267	2.7676081	0.008649	0.048610671
PDIA4	0.274502406	2.709130247	0.0086493	0.048610671
UBE4B	0.113211917	2.749122095	0.0086580	0.048632782
TNFAIP8L3	-0.832638534	-2.707707643	0.0086822	0.048741358
EPPK1	-0.458683647	-2.712064463	0.0086890	0.048753006
PLEC	-0.266055414	-2.708230268	0.0087034	0.048806714
C8A	-0.425931955	-2.712474667	0.0087316	0.048938003
TXNDC12	0.196225865	2.704316425	0.0087596	0.049067768
TTC7A	-0.324794135	-2.717015501	0.0087957	0.049242425
CCDC170	-0.653553195	-2.702605092	0.0088095	0.049292699
NDN	-0.55405731	-2.711299365	0.0088309	0.049385107
VPS26C	-0.12065735	-2.710968784	0.0088428	0.049407476
MAP3K7	-0.150844004	-2.700686265	0.0088446	0.049407476
CPE	0.39980957	2.721727028	0.0088559	0.049418008
FEN1	0.291958647	2.7068715	0.0088572	0.049418008
REEP5	0.385849637	2.707866614	0.008861	0.049418008
STK24	-0.137394568	-2.706367972	0.0088673	0.049425362

DES	-1.317149624	-2.699645347	0.0088725	0.049427086
CTR9	0.141272632	2.699820282	0.0088868	0.049467743
MT4	1.147935	2.776479793	0.0088895	0.049467743
AFG3L2	0.361776635	2.712228043	0.0089032	0.049516481
GET3	-0.099774398	-2.69927969	0.0089114	0.049535042
CSDC2	-0.841307143	-2.771579384	0.0089165	0.049536522
TMEM179B	0.273330921	2.70794366	0.0089560	0.049728523
CHML	0.279774481	2.705890556	0.0089734	0.049786302
CGAS	-0.361663628	-2.733655997	0.0089762	0.049786302
EML2	-0.363905113	-2.728339446	0.0089860	0.049807528
CDK14	-0.321396806	-2.715371374	0.0089898	0.049807528
TGFB1I1	-0.887982519	-2.701220408	0.0090094	0.049888522
KIAA1210	-0.598538778	-2.696261714	0.0090154	0.049894408
ATP1B1	0.446643158	2.702255554	0.0090307	0.049952095
EHMT1	0.142615827	2.692248061	0.0090479	0.050019717
STT3A	0.467766203	2.691655677	0.0090662	0.050094019
C1QA	-0.388999361	-2.695843674	0.0090892	0.050193621
MOCS1	0.406690977	2.73024214	0.0091054	0.050255823
RAC3	0.451391128	2.716225506	0.0091136	0.050273923
ARHGEF17	-0.281618421	-2.694051891	0.0091315	0.050319197
RAB44	-0.632132767	-2.71908239	0.0091345	0.050319197
CCND1	0.604977801	2.736434221	0.0091367	0.050319197
ANP32E	0.409214586	2.689409444	0.0091512	0.050371309
ALG11	0.281620602	2.700078536	0.0091719	0.050458005
NPC1	0.274440176	2.686943445	0.0092062	0.050593864
DMAC2L	0.240288609	2.709983029	0.0092065	0.050593864
MACF1	0.144076278	2.68520006	0.0092442	0.050773539
DPY19L3	0.310574333	2.705495981	0.0092719	0.050897978
ARPC5	-0.190290639	-2.682672234	0.0093017	0.051020304
TFG	-0.184574568	-2.703220975	0.0093042	0.051020304
AP5B1	-0.22968985	-2.68159707	0.0093290	0.051128315
SLC25A30	0.358272559	2.742757782	0.0093920	0.051422536

SEC61A1	0.369298797	2.682603344	0.0093928	0.051422536
ATP5MPL	0.394732199	2.678182501	0.0094069	0.051471951
MAZ	0.212967049	2.683536018	0.0094324	0.051583806
NPHP4	-0.284315714	-2.676560558	0.0094648	0.051713294
SOGA1	-0.164673402	-2.678933789	0.0094663	0.051713294
MGAT3	-0.554713158	-2.741099919	0.0094974	0.051855499
SYBU	-0.368315959	-2.697140057	0.0095045	0.051866076
TRAPPC11	-0.096083891	-2.696415703	0.0095307	0.051981126
PSD4	-0.244216316	-2.67244936	0.0095429	0.052019816
APBB1	-0.397255147	-2.693088605	0.0095546	0.052055718
TMEM62	0.373577538	2.69066798	0.009566	0.052090113
KIF1A	0.510959248	2.713813184	0.0095935	0.052211387
ARHGEF2	0.200028534	2.687176312	0.0096627	0.052560096
GPAT4	0.251317447	2.667049966	0.0096798	0.052601676
ERP29	0.40622203	2.709543858	0.0096814	0.052601676
RPL31	0.278740789	2.68049773	0.0096888	0.052601676
SLC52A2	0.307902406	2.675367197	0.0096957	0.052601676
PCGF1	0.163298283	2.710885458	0.0096963	0.052601676
DENND2D	-0.266940789	-2.677094545	0.0097294	0.05267074
MAP2K2	-0.316466541	-2.673836045	0.0097302	0.05267074
STAT3	-0.150110733	-2.668622819	0.0097328	0.05267074
MAP1B	0.421341353	2.669716894	0.0097336	0.05267074
FOXO1	-0.347406673	-2.668411229	0.0097350	0.05267074
MAP3K5	-0.237888342	-2.668473804	0.0097449	0.052696272
RBM27	0.116297233	2.66588538	0.0097640	0.052771664
UCHL5	0.208479342	2.665435393	0.0097772	0.052814915
SH2B2	-0.393634398	-2.668476914	0.0097865	0.052836953
C8G	-0.371716917	-2.666693812	0.0098155	0.052965349
KANK2	-0.651599624	-2.663876104	0.0098314	0.053022859
RNF185	0.319969737	2.661383444	0.0098524	0.053108142
COX3	0.577103571	2.660408444	0.0098585	0.053112577
TTYH3	0.336835338	2.661848375	0.0098772	0.053137065

PSMA7	0.100306147	2.665328833	0.009878	0.053137065
TUBA4A	0.456668252	2.688657204	0.009878	0.053137065
SNTB2	-0.334771429	-2.665884088	0.009905	0.053222552
DHRS7	0.379582838	2.661507873	0.009907	0.053222552
COL4A5	-0.542000556	-2.739993178	0.009910	0.053222552
LBR	0.363235564	2.703729241	0.009921	0.053228747
LCK	-0.3227175	-2.671900414	0.009922	0.053228747
MYD88	-0.111203919	-2.662593894	0.009927	0.053228747
ITGA5	-0.345117714	-2.668905369	0.009940	0.053279735
PTPRA	0.193197989	2.659951101	0.009981	0.053464913
MAF	-0.521857875	-2.826598284	0.010000	0.053520634
SLC3A2	0.40264793	2.662997882	0.010002	0.053520634
FZD3	0.397994009	2.669300843	0.010020	0.053586603
THNSL2	-0.707607292	-2.718603584	0.010029	0.053591452
EP400	0.098527844	2.653703706	0.010031	0.053591452
RSAD1	0.207249061	2.728925396	0.010038	0.053600856
NECTIN2	0.221841353	2.676524698	0.010070	0.053742948
SNX21	-0.273037782	-2.652054947	0.010087	0.053802071
PRDX5	-0.34169	-2.654177452	0.010123	0.053960736
DYNC2H1	-0.394481203	-2.661165965	0.010134	0.053960736
GFPT2	-0.539954622	-2.689697011	0.010139	0.053960736
FES	-0.225387218	-2.652890524	0.010141	0.053960736
PIGX	0.354785714	2.697754841	0.010143	0.053960736
HDAC5	-0.231505075	-2.651819419	0.010151	0.053974875
C6orf47	0.231212	2.652525946	0.010176	0.054076647
TTC39B	-0.274697556	-2.655349164	0.010191	0.054128346
APOA1	-0.547130714	-2.649298492	0.010201	0.054146746
TNS2	-0.319064511	-2.654526922	0.010205	0.054146746
FEM1B	-0.282870338	-2.6454716	0.010254	0.054356608
AHCYL1	-0.210532293	-2.656969181	0.010255	0.054356608
TMEM126A	0.283638233	2.667571229	0.010290	0.054515354
VDAC1	0.395218609	2.649488793	0.010312	0.05460014

NAPRT	-0.344201192	-2.677420628	0.0103365	0.054673048
RAB21	0.221129436	2.672786902	0.0103365	0.054673048
AVL9	0.19014765	2.645594518	0.0103678	0.054808945
KRAS	0.203335451	2.671582549	0.0103990	0.05494564
PALD1	0.277357237	2.685529815	0.0104085	0.054949653
ERGIC2	0.318415526	2.648051616	0.0104154	0.054949653
MBOAT2	0.460556732	2.663781945	0.0104160	0.054949653
RAB3IP	0.280469662	2.647589144	0.0104459	0.055078688
CAVIN3	-0.623872368	-2.644960141	0.0104545	0.05509513
MICU2	-0.228217105	-2.637450494	0.0105004	0.055293582
INTS1	0.131160827	2.637693046	0.0105030	0.055293582
EIF4A2	-0.242684774	-2.655259496	0.0105087	0.055294876
METTL5	0.201715705	2.637528086	0.0105275	0.055364298
PLCL2	-0.324966541	-2.668758726	0.0105335	0.05536918
NIPSNAP1	0.208543797	2.641258602	0.0105408	0.055377476
GZMA	-0.379521541	-2.640412377	0.0105495	0.055394927
CLIC4	-0.376787353	-2.63562309	0.0105605	0.05541806
KRT18	0.331996992	2.650411786	0.0105649	0.05541806
PRKRA	0.19212218	2.663342134	0.0105845	0.055491464
TMED1	0.313057895	2.637918719	0.0105944	0.055496431
AIP	-0.195865583	-2.652508279	0.0105962	0.055496431
KDM1A	0.126386626	2.633252695	0.0106185	0.05558119
CAVIN2	-0.659560395	-2.633657195	0.0106230	0.05558119
PIP4P1	0.293425338	2.63293656	0.0106288	0.05558119
COMMD7	-0.114909652	-2.635117672	0.0106454	0.055639225
FBXO17	-0.756017239	-2.688162201	0.0106603	0.055688343
TTC4	-0.141285895	-2.630310985	0.0106745	0.055731647
ZNF280D	0.167043346	2.633887141	0.0106806	0.055736905
EFHC1	-0.524053021	-2.642781998	0.0106988	0.055743174
ND5	0.404921992	2.629814706	0.0107032	0.055743174
SACM1L	0.316059474	2.639270843	0.0107045	0.055743174
C1R	-0.317799812	-2.638197899	0.0107052	0.055743174

EPHB2	-0.498456617	-2.628934555	0.0107178	0.055743174
RIPOR2	-0.515557692	-2.694640152	0.0107188	0.055743174
CD46	0.463766917	2.646774455	0.0107202	0.055743174
ENO1	-0.318206024	-2.643305268	0.0107547	0.055893929
FBXW8	-0.257738045	-2.657677539	0.0107691	0.055930399
DKK 3.00	0.440837879	2.667575335	0.0107788	0.055930399
ALDH1L1	-0.551871617	-2.63794968	0.0107847	0.055930399
PDS5A	0.143245075	2.626422896	0.0107872	0.055930399
DMXL1	-0.151171226	-2.630893218	0.0107893	0.055930399
SNX18	-0.279375	-2.630275686	0.0108928	0.056438017
SMPDL3B	0.547090602	2.625284634	0.0109014	0.056454021
TLE4	-0.603493929	-2.683645245	0.0109195	0.056518743
BAG3	-0.27124718	-2.623303575	0.0109286	0.056519282
SIN3B	0.120718383	2.628789775	0.0109374	0.056519282
TMEM109	0.34095468	2.6258685	0.0109407	0.056519282
GYG2	-0.336033609	-2.628957187	0.0109419	0.056519282
NAA30	0.120473327	2.628762072	0.0109732	0.056645867
RXRA	-0.231812237	-2.625510185	0.0109775	0.056645867
LZTR1	-0.136384793	-2.620200823	0.0109927	0.056695175
USP24	-0.159358327	-2.63905404	0.0110672	0.05705037
TUSC3	0.529540065	2.644369259	0.0110789	0.057081662
SPART	-0.207793348	-2.622189233	0.0110889	0.057083739
TOR3A	0.231945695	2.620244547	0.0110905	0.057083739
COMMD9	-0.144608853	-2.620056805	0.0111021	0.057114699
MAGI1	0.178010959	2.633249665	0.0111086	0.057119062
INTS5	0.123017444	2.616442907	0.0111533	0.057293749
HMG1	0.312118797	2.629123633	0.0111539	0.057293749
ATP2B2	0.35631594	2.617417421	0.0111665	0.057329513
OASL	-0.344631263	-2.627344285	0.0112031	0.057488379
RASA2	-0.13207	-2.611196991	0.0112335	0.05761536
CD8A	-0.34849906	-2.610424039	0.0112526	0.057667804
CKAP5	0.097453229	2.627661442	0.0112551	0.057667804

RAB5A	0.244210036	2.618843512	0.0112778	0.057754673
TPST1	-0.300185867	-2.621448482	0.0112988	0.05783312
TMUB2	0.360683684	2.620640663	0.0113136	0.057879878
ACSL4	0.462293421	2.622512083	0.0113755	0.058135058
KRT6A	1.171895	2.614608881	0.0113788	0.058135058
TACSTD2	0.408398308	2.606567777	0.0113807	0.058135058
TMCO1	0.496964455	2.618039555	0.0114216	0.058314804
AMFR	0.227071871	2.605101814	0.0114276	0.058315968
GSTM5	-0.703327895	-2.624332622	0.0114417	0.058355539
RBP4	-0.341130038	-2.603777781	0.0114506	0.058359389
SAAL1	0.276654267	2.611929197	0.0114587	0.058359389
PICALM	-0.150358496	-2.610179437	0.0114597	0.058359389
MOCOS	-0.359313875	-2.62211032	0.0114858	0.058465929
BCHE	-0.431420846	-2.604021349	0.0114938	0.058477522
UTP6	0.202841429	2.615624231	0.0115122	0.058541884
AGTPBP1	-0.190114925	-2.607168596	0.0115273	0.058589201
SLC22A18	0.420241429	2.602719532	0.0115356	0.058602258
S100A9	-0.969799812	-2.603321842	0.0115546	0.058666301
ARHGEF10	-0.243983722	-2.608282937	0.0115625	0.0586799
LMBRD2	0.265107951	2.628246453	0.0115856	0.058767795
SYNPO	-0.432563158	-2.609695872	0.0115942	0.058781914
GNAI2	-0.219695733	-2.598042961	0.0116355	0.058961887
LNX1	0.31255282	2.618334181	0.0116517	0.059014478
DPYSL4	-0.416971241	-2.597299635	0.0116836	0.059125467
SP100	-0.195588214	-2.600504245	0.0116852	0.059125467
BOP 1.00	0.165355752	2.604938753	0.0117095	0.059218492
DNAJB5	-0.448961231	-2.656426196	0.0117504	0.059395869
CAP2	-0.402366729	-2.600261135	0.0117596	0.059409757
CHPF2	0.189305677	2.595701417	0.0118263	0.059694115
TMEM147	0.434782924	2.593290967	0.0118276	0.059694115
NAPA	-0.174639831	-2.609716582	0.0118487	0.059773803
NUBP1	-0.180630977	-2.599444622	0.0118678	0.059840394

PWP2	0.17429812	2.604359216	0.0118775	0.059859492
FEZ2	-0.204555677	-2.592958011	0.011884	0.059864556
JRKL	-0.274318012	-2.653591648	0.011896	0.059894754
TMF1	-0.202315376	-2.625307722	0.011902	0.059894754
ADAMTSL3	-0.791595714	-2.642024479	0.011926	0.059986298
FMC1	0.275544737	2.607187378	0.011946	0.060056254
CASP4	-0.229445808	-2.590741562	0.011995	0.060274865
SRPRA	0.290327143	2.601574227	0.012034	0.060429963
NHSL1	0.176309568	2.586664882	0.012038	0.060429963
MYH11	-1.136575733	-2.58364781	0.012087	0.060648714
THTPA	-0.221438628	-2.592035952	0.012097	0.060668827
GNAQ	0.232444737	2.587422107	0.012124	0.060765319
TBC1D22A	-0.134743872	-2.581451443	0.012139	0.060765319
GJA1	0.423932143	2.629880725	0.012147	0.060765319
ZNF112	0.279922081	2.669245113	0.012148	0.060765319
SH3BP1	-0.233774812	-2.604623714	0.012149	0.060765319
C9	-0.455313534	-2.585596664	0.012157	0.060765319
TLE2	0.288638192	2.607139346	0.012159	0.060765319
GMIP	-0.191283872	-2.580004598	0.012189	0.060840404
CDV3	-0.131346165	-2.58238461	0.012191	0.060840404
UTP25	0.206403835	2.587383028	0.012196	0.060840404
RNF123	-0.171898759	-2.591145384	0.012198	0.060840404
EIF4E3	-0.350195156	-2.628919538	0.012221	0.060929063
FYCO1	-0.193998308	-2.578709296	0.012230	0.060940838
FCHSD1	-0.20220906	-2.581786954	0.012269	0.061106918
MRPL36	0.496443056	2.58776787	0.012336	0.06141109
RGS10	-0.334603327	-2.580590487	0.012345	0.061424613
GNA12	0.195405165	2.579133008	0.012356	0.061450797
ENPP2	-0.451531361	-2.592430594	0.012366	0.061470365
REEP3	0.267183947	2.573833385	0.012390	0.061545554
TMEM9B	0.279392647	2.57687339	0.012394	0.061545554
TTC12	-0.375109091	-2.585214295	0.012404	0.061567251

ALB	-0.470322556	-2.575483822	0.0124264	0.061646407
SERINC5	0.514674887	2.57952514	0.0124622	0.061793535
CORO1B	-0.175850848	-2.572840691	0.0124954	0.061928334
YES1	0.215985992	2.586723202	0.0125073	0.061950417
FZR1	-0.14029562	-2.569832871	0.0125146	0.061950417
RILP	-0.379438253	-2.60354241	0.0125227	0.061950417
COX7B	0.424065752	2.578025748	0.0125243	0.061950417
RELL1	0.325516862	2.589382701	0.0125727	0.062113901
RPP38	0.173451391	2.578644325	0.0125754	0.062113901
SAMM50	0.375937857	2.57767615	0.0125757	0.062113901
UBE2R2	0.173699398	2.567017441	0.0126063	0.062213586
SYNM	-0.665668985	-2.567663209	0.0126082	0.062213586
LMNB1	0.221879944	2.572231982	0.0126147	0.06221564
IMMT	0.280292782	2.583072633	0.0126234	0.06222826
MAP6	-0.619494314	-2.707951786	0.0126377	0.062264362
CST7	1.256244222	2.810845018	0.0126436	0.062264362
LIN9	-0.178179801	-2.565536761	0.0126549	0.062292827
MTMR14	-0.229326729	-2.59522193	0.0126748	0.062360614
PRR14	-0.188516748	-2.569817228	0.0127002	0.062455136
NFATC1	-0.322274267	-2.589755501	0.0127399	0.062611005
ABCB7	0.311092312	2.563762794	0.0127442	0.062611005
EXTL3	0.296331316	2.583121538	0.0127586	0.062612211
ATP6V0D1	-0.194148985	-2.564470505	0.0127596	0.062612211
UBXN10	-0.44750282	-2.565858137	0.0127666	0.062612211
CAMK1	-0.216274248	-2.567569593	0.0127719	0.062612211
SCAMP3	0.349742801	2.580192667	0.0127753	0.062612211
HPX	-0.421967744	-2.571398576	0.0127983	0.062695596
RPL37A	0.227697387	2.574881713	0.0128646	0.062965322
COL14A1	-0.903703252	-2.580974486	0.0128666	0.062965322
DTNB	0.211160301	2.612105559	0.0128837	0.063018817
RHPN2	-0.255771429	-2.562299539	0.0128915	0.063029617
NANS	-0.284731244	-2.558252289	0.0129087	0.063068933

CRYL1	-0.384499135	-2.584373723	0.0129120	0.063068933
ARSA	0.373694896	2.566688272	0.0129354	0.06315273
ZDHHC18	0.333464158	2.57001957	0.0129444	0.06316618
ACYP1	-0.332876128	-2.563677979	0.0129715	0.063267251
GGA2	-0.146569883	-2.556220488	0.0129962	0.063341873
SMPD2	-0.405979511	-2.555224721	0.0130051	0.063341873
CSK	-0.142108026	-2.567025057	0.0130055	0.063341873
TRIM9	-0.431432735	-2.611715764	0.0130262	0.063412101
FAM210A	0.293383008	2.576279186	0.0130439	0.063412101
MYO1C	-0.311937158	-2.554256146	0.0130441	0.063412101
HAAO	-0.450932237	-2.571077055	0.0130445	0.063412101
SNX15	-0.186486177	-2.555122447	0.0130544	0.063428914
MYCBP	-0.24514703	-2.569599051	0.0130614	0.063432503
CHI3L1	-0.585536842	-2.560409397	0.0130740	0.063463119
PHLDA2	-0.720078571	-2.606094017	0.0130816	0.063469849
PEX3	0.271716372	2.564094307	0.0130992	0.063524972
SARAF	0.264937895	2.553890672	0.0131099	0.06354384
CDADC1	-0.277549355	-2.59911898	0.0131248	0.06354384
PAK2	-0.120228346	-2.556283158	0.0131284	0.06354384
P3H1	0.223853947	2.56137387	0.0131314	0.06354384
CNST	0.271285827	2.564491088	0.0131344	0.06354384
NOTCH2	-0.197128019	-2.553048302	0.0131807	0.063713334
AGT	-0.333452515	-2.549874663	0.0131879	0.063713334
PARL	0.346567594	2.558563372	0.0131961	0.063713334
PDCD6IP	-0.127994718	-2.574507879	0.0131998	0.063713334
COX2	0.524500376	2.554572586	0.0132071	0.063713334
PSEN1	0.243392199	2.557526739	0.0132099	0.063713334
KRT4	-0.796220449	-2.549062374	0.0132261	0.063713334
LSM14A	0.163524718	2.549116705	0.0132290	0.063713334
TIMM50	0.239004367	2.571518654	0.0132318	0.063713334
BMP2K	-0.120318327	-2.55334225	0.0132322	0.063713334
GMPPB	-0.253543421	-2.559721869	0.0132529	0.063761942

OCIAD2	0.571511654	2.564664009	0.0132549	0.063761942
MDK	0.546863045	2.577071181	0.0132798	0.063838825
MGST2	0.400484023	2.548906384	0.0132839	0.063838825
TPP1	-0.23226265	-2.565463897	0.0133030	0.063902334
KRT16	1.123337451	2.571884994	0.0133749	0.064217615
TUBGCP5	-0.147239919	-2.550346956	0.0133819	0.064217635
SUDS3	0.141489981	2.543721128	0.0133949	0.064249303
KIF13B	-0.216858102	-2.55551021	0.0134159	0.064321012
NFIA	0.26272797	2.547406308	0.0134299	0.064359985
RPS25	0.283481579	2.555107507	0.0134497	0.064424059
STRN3	-0.188213835	-2.544286939	0.0134689	0.064425175
C18orf25	-0.189716372	-2.542183378	0.0134717	0.064425175
PGAP3	0.48668232	2.563678983	0.0134758	0.064425175
CAND2	-0.422437632	-2.549599074	0.0134829	0.064425175
WDR90	-0.445190407	-2.561358456	0.0134878	0.064425175
OTULIN	-0.168939098	-2.564513617	0.0134880	0.064425175
CCDC28A	-0.159755128	-2.540415384	0.0135169	0.064502005
WDR19	-0.308849624	-2.552973556	0.0135168	0.064502005
DHODH	0.322554889	2.551630294	0.0135389	0.064575015
COPS5	-0.124734624	-2.553784184	0.0135609	0.064649886
MRPL21	0.278292444	2.545272721	0.0135676	0.064653355
SERPINA7	-0.331590808	-2.539062064	0.0135979	0.064753265
UGP2	-0.177080658	-2.538891967	0.0136019	0.064753265
ICAM2	-0.269126955	-2.537626535	0.0136100	0.06476404
PPP1R3D	-0.167426974	-2.537811142	0.0136289	0.064822047
TLK1	0.174041748	2.535981803	0.0136656	0.064967889
IVNS1ABP	0.310710695	2.571902539	0.0136837	0.065023253
SSBP4	-0.318805677	-2.537796434	0.0137029	0.065081789
DNAJC16	0.23940235	2.536174819	0.0137128	0.065100778
OCLN	0.294310274	2.538539546	0.0137339	0.065168307
PIP4K2C	0.201367481	2.5801289	0.0137659	0.065289925
NEK7	-0.218661594	-2.541598795	0.0137728	0.065293792

FILIP1L	-0.560832707	-2.532139239	0.0138019	0.065362807
MSMB	-1.055637143	-2.602081321	0.0138020	0.065362807
STK11IP	-0.132200658	-2.53327774	0.0138127	0.065362807
QSER1	0.133767669	2.540869239	0.0138159	0.065362807
CFAP45	-0.724477879	-2.567210106	0.0138238	0.065362807
AGAP2	-0.267167207	-2.546180987	0.0138277	0.065362807
GDI1	-0.244652556	-2.536884978	0.0138324	0.065362807
HUWE1	0.126591541	2.553280995	0.0138559	0.06542735
SARM1	-0.307567293	-2.540737115	0.0138589	0.06542735
GNG11	-0.398608346	-2.531027189	0.0139557	0.065824597
IL4I1	-0.618967669	-2.528872653	0.0139578	0.065824597
SIAH2	-0.472553623	-2.608735757	0.0139629	0.065824597
HOXA11	-0.465131955	-2.530688692	0.0139776	0.065839529
PDIA6	0.213366617	2.527834106	0.0139787	0.065839529
SEPTIN8	-0.164007782	-2.540846902	0.0140010	0.065914146
MRPL20	0.276250902	2.53632941	0.0140149	0.065946936
CDC42SE1	0.3074069	2.546593458	0.0140529	0.066080439
SEC24C	0.126029098	2.529850309	0.0140559	0.066080439
GGA1	-0.116614793	-2.532581007	0.0140980	0.066213862
IPO7	0.13462562	2.546702214	0.0140993	0.066213862
SNCAIP	-0.400449774	-2.527545897	0.0141038	0.066213862
ACAT2	0.22339309	2.529136998	0.0141180	0.066226834
C2orf69	0.187381917	2.54431668	0.0141196	0.066226834
GTPBP1	-0.118230583	-2.522992633	0.0141379	0.06628011
SELENOP	-0.387266278	-2.523346654	0.0141516	0.066312137
TIMP3	-0.594117406	-2.529107262	0.0141574	0.066312137
IFT46	-0.309107932	-2.525240401	0.0142012	0.066486448
OLFML1	-0.720451316	-2.525500592	0.0142692	0.066664181
MYO1E	-0.154089718	-2.522535905	0.0142706	0.066664181
RAB5B	0.195062729	2.526053795	0.0142706	0.066664181
NPTN	0.258657237	2.534779455	0.0142713	0.066664181
L3HYPDH	-0.374539135	-2.54204772	0.0142720	0.066664181

SLC44A2	0.360421429	2.538498401	0.0142848	0.066693112
HADHA	0.26673703	2.534290805	0.0143015	0.066740612
TRNAU1AP	-0.112925286	-2.517557089	0.0143382	0.066880922
SELENON	0.202890188	2.531604569	0.0143686	0.066991281
PARP1	0.298450113	2.518243397	0.0143756	0.066991281
ZNF219	0.226173496	2.525977718	0.0143945	0.067051413
PECR	-0.317987218	-2.518063751	0.0144196	0.067137199
TAGLN	-1.145957481	-2.517720444	0.0144706	0.067343779
BZW1	0.170472256	2.537484173	0.0144861	0.067385247
ITPR1	-0.348729474	-2.51368657	0.0145207	0.067508763
ANGPTL2	-0.340886466	-2.513695916	0.0145369	0.067508763
MARC2	0.376597707	2.522157459	0.0145384	0.067508763
KCTD10	-0.176176015	-2.516904032	0.0145476	0.067508763
NDUFAF4	0.275388835	2.54299855	0.0145558	0.067508763
EMID1	0.59649286	2.560308027	0.0145596	0.067508763
KDM2B	0.142951878	2.53282689	0.0145639	0.067508763
LRRC1	0.258302331	2.52220858	0.0145659	0.067508763
ANKRD54	-0.146042406	-2.514176749	0.0145915	0.067596425
TCIRG1	-0.300900376	-2.51128899	0.0146004	0.067606824
DHX30	0.103178492	2.510357284	0.0146118	0.067628762
DAGLB	0.16909188	2.527314553	0.0146801	0.067914065
SPATA2	-0.160698846	-2.51188289	0.0147056	0.067977106
DNAJC19	0.245614474	2.512436712	0.0147071	0.067977106
URB2	0.175797387	2.516887864	0.0147144	0.067979765
HGH1	-0.176831504	-2.50641825	0.0147572	0.068146753
TMED9	0.443604398	2.508271944	0.0147743	0.06815043
FBXL12	-0.232894775	-2.52624713	0.0147768	0.06815043
DHRS13	0.241110747	2.515406884	0.0147782	0.06815043
F9	-0.504420677	-2.507779845	0.0148636	0.06851036
IGFBP2	-0.550575	-2.51196191	0.0149391	0.068829829
RAB14	0.203628096	2.501182315	0.0149633	0.068910147
FDX1	-0.229699286	-2.500238421	0.0149935	0.069017746

EXOSC1	0.133378477	2.49975736	0.0150065	0.069046393
ALS2	0.173005293	2.521100473	0.0150207	0.06908069
AFMID	-0.283301689	-2.50415444	0.0150729	0.069289055
DNAH5	-0.577708233	-2.522672799	0.0150915	0.069343038
CCDC22	-0.09821943	-2.497162058	0.0151046	0.069372008
HNRNPC	0.143904218	2.496830857	0.0151164	0.069395005
MIB1	-0.118670451	-2.502087211	0.0151412	0.069454261
LRRC6	-0.526440176	-2.528464444	0.0151432	0.069454261
CDC42EP5	-0.365217481	-2.518467306	0.0151499	0.069454261
PRKAG1	-0.144272105	-2.501969599	0.0151619	0.06947803
CHD6	0.137762989	2.508825513	0.0151736	0.069500283
C1orf35	0.246316541	2.497918334	0.0152167	0.069666121
TOR1AIP1	0.352049788	2.524606709	0.0152493	0.069784083
ROR2	0.336301579	2.511717124	0.0152690	0.069811767
ALG5	0.298379391	2.498405007	0.0152726	0.069811767
CYP4X1	0.571178571	2.49803789	0.0152768	0.069811767
CLEC11A	0.471665263	2.55459515	0.0152829	0.069811767
CGREF1	0.689334962	2.510762854	0.0152945	0.069833465
CZIB	-0.202329455	-2.493130074	0.0153449	0.070026191
SMARCA5	0.139750383	2.495391633	0.0153534	0.070026191
EPS8L1	-0.317511842	-2.496835224	0.0153574	0.070026191
POMGNT1	0.234004323	2.499796377	0.0153769	0.07005981
ALDH6A1	0.446767293	2.501831761	0.0153845	0.07005981
KCP	-0.460960905	-2.53113658	0.0153855	0.07005981
CD36	0.496103609	2.524625468	0.0154079	0.070104643
WDR35	-0.309771429	-2.491953565	0.0154092	0.070104643
C6	-0.362134662	-2.488821343	0.0154381	0.070204849
SMPDL3A	-0.368340301	-2.50271005	0.0154466	0.070211936
RIN1	-0.289194248	-2.504029458	0.0154737	0.070288959
COL7A1	-0.375057331	-2.487396652	0.0154890	0.070288959
SPTLC1	0.209676445	2.489235854	0.0154891	0.070288959
BCL2L13	0.205159455	2.487523511	0.0154912	0.070288959

IGF2	-0.345717778	-2.48739114	0.015516	0.07034406
KIF9	-0.261065226	-2.488012023	0.015517	0.07034406
SIPA1L2	0.318955827	2.505095329	0.015528	0.070363667
ERCC4	-0.145570432	-2.500351705	0.015591	0.070616169
PGGHG	-0.165262162	-2.48764684	0.015637	0.070794602
LMO7	0.36798718	2.496589487	0.015668	0.070902154
TARBP2	-0.172909068	-2.483763529	0.015680	0.070924736
BET1L	0.245940451	2.483301686	0.015701	0.070986837
SENP1	0.118706034	2.491623962	0.015712	0.071005921
CHKA	0.264638571	2.482408633	0.015736	0.071084625
LITAF	-0.463183523	-2.494859539	0.015814	0.071406342
UBQLN4	0.164806071	2.479172786	0.015891	0.071718728
MRPS14	0.266540658	2.490089066	0.015907	0.071760834
GBP3	-0.439895833	-2.566775814	0.015938	0.071839306
TSHZ3	-0.410930851	-2.479633286	0.015945	0.071839306
NUMB	-0.114569323	-2.482552201	0.015946	0.071839306
PRODH	-0.397891831	-2.481086892	0.015955	0.071847149
PCNX3	0.187627744	2.476324046	0.015985	0.07195339
PLIN2	-0.488808139	-2.474717898	0.015994	0.071960558
TAB3	-0.200753045	-2.473587474	0.016040	0.072137365
TTC39A	-0.390917105	-2.486250094	0.016072	0.072246498
CEACAM8	-0.511421053	-2.486384603	0.016088	0.072266937
TDP1	0.19350515	2.481089546	0.016092	0.072266937
ROCK1	-0.131634756	-2.493944142	0.016104	0.072266937
ARVCF	0.213007331	2.479192224	0.016105	0.072266937
NUP160	0.086923195	2.471258676	0.016136	0.072374253
NNT	0.35781015	2.472264422	0.016180	0.072542342
CYFIP2	-0.19938015	-2.485998715	0.016200	0.0725999
RPS15A	0.128726729	2.484055674	0.016214	0.072627796
SUPT16H	0.159889643	2.468297172	0.016269	0.072839098
FTSJ1	-0.188315959	-2.472712523	0.016275	0.072839098
ATL3	0.295737406	2.479561759	0.016284	0.072846418

REXO4	0.15492032	2.469632317	0.0162982	0.072875577
RANBP2	0.165756748	2.468346694	0.0163127	0.072908017
LSM 6.00	0.132128816	2.467428223	0.0163410	0.073002631
C21orf91	-0.208072855	-2.506015282	0.0163647	0.073022907
KDM3B	0.111605703	2.469103606	0.0163645	0.073022907
HGFAC	-0.25993985	-2.468037243	0.0163672	0.073022907
STX11	-0.356117255	-2.493264681	0.0164083	0.073162098
ADAR	0.193258402	2.475364732	0.0164128	0.073162098
NBN	0.112013669	2.464740434	0.0164365	0.073204452
NACC2	-0.341007729	-2.507384635	0.0164367	0.073204452
CFLAR	-0.230677619	-2.516614313	0.0164702	0.073321643
ANKRD40	-0.328239649	-2.478130644	0.0164992	0.073418549
EDRF1	0.17107609	2.480901646	0.0165190	0.073474199
CEPT1	0.256374211	2.468678273	0.0165560	0.073606572
TUFT1	0.299289812	2.474047993	0.0165697	0.073632581
PCTP	-0.30477235	-2.481211858	0.0165970	0.073724236
GIMAP1	-0.338434382	-2.461806502	0.0166132	0.073757236
COL3A1	-0.498819361	-2.463226668	0.0166189	0.073757236
PDIA3	0.249054812	2.459501424	0.0166285	0.073767213
KIAA0319L	0.187080695	2.459148394	0.0166438	0.073783268
CC2D2A	-0.40278375	-2.516012997	0.0166466	0.073783268
PWP1	0.114106786	2.45927653	0.0166637	0.073805032
GNLY	-0.863702632	-2.463956331	0.0166667	0.073805032
NEO1	0.208705733	2.464573307	0.0167164	0.073995514
WASHC1	-0.131378759	-2.459363433	0.0167237	0.073995514
FIG4	-0.132918929	-2.45680379	0.0168055	0.074325088
ORC2	0.15559812	2.454303027	0.0168477	0.074479548
TUBB6	-0.430239263	-2.470752216	0.0168816	0.074596955
MEF2A	-0.296846111	-2.489618161	0.0168985	0.074639046
OAT	-0.526579699	-2.458105369	0.0169836	0.074982325
AHSA1	-0.154273872	-2.463678754	0.0169918	0.074985922
ECM2	-0.341902632	-2.454055314	0.0170527	0.075219128

RPS23	0.222728741	2.472631129	0.0170595	0.075219128
ANKRD28	-0.138058158	-2.4536849	0.0170886	0.075314646
SPINT2	0.385657895	2.453220768	0.0171060	0.075358651
RUVBL1	-0.226902838	-2.448504298	0.0171576	0.075521789
HSPA1L	-0.325419908	-2.474086228	0.0171616	0.075521789
PRSS23	0.534194173	2.488570984	0.0171655	0.075521789
WDR36	0.154900376	2.46167123	0.0172011	0.075646436
ITGA9	-0.449457989	-2.456089105	0.0172172	0.07568418
RABL2B	-0.38215094	-2.462475242	0.0172454	0.075775444
GC	-0.419448429	-2.445844904	0.0172895	0.07593542
UBIAD1	0.306592652	2.481330402	0.0173189	0.076032672
TPM2	-0.996542481	-2.446152112	0.0173625	0.076190132
VAPB	0.259590865	2.447531577	0.0173910	0.076275219
CEP76	-0.257153647	-2.454096966	0.0173965	0.076275219
PSMC1	0.087405865	2.46374357	0.0174119	0.076284734
SLC25A22	0.31731391	2.456699084	0.0174139	0.076284734
PDK3	0.279251955	2.45055687	0.0174235	0.076294652
S100A4	-0.472135996	-2.475426305	0.0174660	0.07644696
CYB5B	0.403603571	2.450231727	0.0174988	0.076557248
CFAP298	-0.359245414	-2.442452728	0.0175245	0.076637819
TOMM20	0.310207895	2.444351384	0.0175394	0.076668933
XG	0.47849238	2.477081406	0.0175535	0.076698383
KDM3A	0.208353459	2.457533361	0.0176445	0.077062833
BCL2L15	0.421877707	2.438572177	0.0176635	0.077110185
DKC1	0.203249549	2.439599483	0.0176719	0.077115391
GORAB	0.38194735	2.452579444	0.0177535	0.077438338
LIPE	-0.258856447	-2.458237454	0.0178175	0.07763787
RRP1B	0.238160639	2.45519003	0.0178395	0.07763787
PRR36	0.255578808	2.444102296	0.0178415	0.07763787
HADHB	0.245960244	2.454099436	0.0178425	0.07763787
NUDCD1	-0.192575602	-2.445699608	0.0178454	0.07763787
TM9SF2	0.297153496	2.433367911	0.0178495	0.07763787

ASPSCR1	0.168427406	2.46599135	0.0178528	0.07763787
TRAK1	-0.232468864	-2.453658259	0.017875	0.077679063
B3GAT3	0.246171805	2.449044333	0.0178776	0.077679063
SMIM15	0.465865602	2.430657883	0.0178856	0.077680294
CPOX	-0.193813835	-2.442302717	0.017896	0.077695378
PITPNA	-0.175494135	-2.451243606	0.0179255	0.077787193
B3GALNT1	-0.374988906	-2.447933812	0.0179569	0.077889993
CHCHD2	0.254252556	2.429909572	0.0179874	0.077977685
PDLIM7	-0.720750376	-2.429012327	0.0179924	0.077977685
SAMHD1	-0.367870827	-2.449053816	0.0180216	0.078068345
FAM110C	-0.381852293	-2.441424004	0.0180316	0.078080891
PYHIN1	-0.589731419	-2.469704924	0.0180536	0.07812629
ZBTB7B	0.305696767	2.440830513	0.0180575	0.07812629
SPRR2F	1.414235294	2.521047919	0.0181162	0.078346775
RETSAT	0.33396015	2.439777025	0.0181356	0.078397497
NFIX	0.349728947	2.42586356	0.018152	0.078430794
CDK3	-0.450944037	-2.456757344	0.0181588	0.078430794
STXBP4	-0.316235865	-2.449478744	0.018188	0.078524005
KIAA0355	-0.174039774	-2.434279174	0.0182345	0.078680057
GMPR2	-0.195106372	-2.437402162	0.0182398	0.078680057
TIMELESS	0.272263158	2.423687227	0.0182742	0.078795162
PGM5	-0.791706064	-2.421789275	0.0182896	0.078825341
PACRGL	-0.407419275	-2.475595665	0.0183176	0.078915055
HPR	-0.414919925	-2.420761728	0.0183464	0.07900554
FHL1	-0.847284962	-2.423128471	0.0183674	0.079057846
PAG1	-0.202866974	-2.42089177	0.018374	0.079057846
APOE	-0.469157707	-2.419665801	0.0183882	0.079085062
IGBP1	-0.114757237	-2.423934652	0.0183969	0.079089039
SRSF7	0.148228707	2.418485395	0.0184515	0.079289326
SEC16A	0.123199605	2.421057135	0.0184698	0.079334989
SNX7	-0.218802011	-2.440687391	0.0185365	0.079587882
PCYT1A	-0.124308665	-2.431660661	0.0185528	0.07962427

EPN1	-0.138659774	-2.435863687	0.0185645	0.079641026
PRPF31	0.141833684	2.414425119	0.0186410	0.079935107
ERGIC1	0.479395357	2.424730569	0.0186708	0.080029389
PRELP	-0.876735338	-2.41695268	0.0186978	0.080110977
NAE1	0.13190609	2.427288769	0.0187555	0.080323344
AKAP7	-0.472342176	-2.417586328	0.0187871	0.080394121
HEXB	0.312346821	2.424228656	0.0187876	0.080394121
PPP4R3B	0.171788459	2.424880157	0.0188162	0.080453985
WDR53	-0.220464709	-2.415377383	0.0188175	0.080453985
NEMP1	0.345960902	2.411063553	0.0188498	0.080558414
USP15	-0.112921635	-2.40973464	0.0188670	0.080597858
EBAG9	0.261243985	2.410423324	0.0189189	0.080785377
PI4KA	-0.135223534	-2.416036715	0.0189795	0.080992689
HOPX	-0.665963346	-2.415092948	0.0189876	0.080992689
SLC25A36	0.344793611	2.523538256	0.0189915	0.080992689
LTBP4	-0.516132895	-2.418099401	0.0190046	0.081015268
PRPF8	0.10446232	2.407875668	0.0190221	0.081027699
SLC25A1	0.396100996	2.407842154	0.0190235	0.081027699
GIMAP7	-0.324783767	-2.408611538	0.0190698	0.081156705
CIAO1	-0.171390248	-2.412830662	0.0190736	0.081156705
HMGB3	0.23595312	2.406546102	0.0190812	0.081156705
COX4I1	0.386923947	2.420823428	0.0190858	0.081156705
KIAA0930	-0.232192105	-2.414753367	0.0191995	0.081583643
COL15A1	-0.712180451	-2.4050109	0.0192022	0.081583643
CAPZA1	-0.126250132	-2.402387283	0.0192602	0.081795431
ZC3HAV1	0.148184586	2.406681498	0.0192838	0.081843588
FZD10	0.356866455	2.491609148	0.0192876	0.081843588
AJUBA	0.245240038	2.412583595	0.0194336	0.082408085
APLP2	0.189046992	2.414576519	0.0194369	0.082408085
PARVA	-0.395673102	-2.396153545	0.0195052	0.082631713
MINDY3	-0.163981912	-2.39643116	0.0195059	0.082631713
RBM15	0.099508365	2.395514251	0.0195328	0.082678533

ADGRL4	-0.275147972	-2.435452905	0.0195335	0.082678533
FADD	-0.204306541	-2.397271815	0.0195415	0.082679129
GTPBP10	0.258937932	2.401725706	0.0195888	0.082830844
ABCA1	-0.289776857	-2.418885166	0.0195962	0.082830844
DTYMK	0.200286955	2.40314113	0.0196038	0.082830844
CHM	-0.195561951	-2.395950327	0.0196101	0.082830844
WT1	-0.424882857	-2.410491771	0.0196302	0.082858856
TMBIM6	0.490073218	2.399403434	0.0196335	0.082858856
ECHDC1	-0.283215789	-2.393882122	0.0196412	0.082858856
TRADD	-0.21580906	-2.392254626	0.0196998	0.083071603
COL4A1	-0.335001635	-2.392440289	0.0197361	0.083158444
MAP2K1	-0.139225132	-2.398723702	0.0197435	0.083158444
LAMB2	-0.39949718	-2.401138534	0.0197450	0.083158444
CFAP300	-0.509346261	-2.41543778	0.0197794	0.083268874
EIF2AK4	0.113135853	2.401508326	0.0197984	0.083277299
RNH1	-0.165575045	-2.391389004	0.0197990	0.083277299
LILRB4	-0.382205142	-2.399697253	0.0198060	0.083277299
PUM3	0.184624511	2.401809976	0.0198219	0.083309727
YTHDC1	0.111128239	2.389656903	0.0198602	0.083436162
MX2	-0.295043635	-2.399186613	0.0199017	0.083575865
TRIM5	-0.207754023	-2.394385809	0.0199402	0.083702676
WNT2	-0.352921992	-2.418075455	0.0199818	0.083813982
TRAPPC5	-0.110154267	-2.386400694	0.0199832	0.083813982
VHL	-0.221647744	-2.38987547	0.0200126	0.08385665
TP53I3	0.296266466	2.40498406	0.0200139	0.08385665
SEPTIN2	-0.175285677	-2.392595799	0.0200242	0.08385665
MYO18A	-0.173152895	-2.388612931	0.0200264	0.08385665
SNRK	-0.15671635	-2.387058247	0.0200422	0.083873999
FUNDC2	0.370960071	2.40684101	0.0200627	0.083873999
CRMP1	-0.471506316	-2.386808796	0.0200632	0.083873999
FAM49A	-0.274900714	-2.397177168	0.0200636	0.083873999
GYS1	-0.170749673	-2.385424833	0.0200776	0.083897782

MACC1	-0.418474845	-2.396542737	0.0200862	0.083899378
GFOD1	-0.342187214	-2.429683201	0.0201266	0.084033483
WNT7A	-0.796444265	-2.466549117	0.0201416	0.084047751
KLK6	0.5921512	2.475804521	0.0201466	0.084047751
RPL32	0.289057669	2.400067977	0.0201668	0.084097379
SSNA1	-0.229100009	-2.387749735	0.0202428	0.08434574
GCNT1	0.466140414	2.381357312	0.0202429	0.08434574
ZBTB20	-0.316181128	-2.392968777	0.0203363	0.084700164
ZNF3	0.221921617	2.405488605	0.0203769	0.08483415
SSBP1	0.255912406	2.387507965	0.0204792	0.085225123
GMPR	0.471503947	2.396916139	0.0205227	0.085371119
ALDH1L2	-0.403580451	-2.377195464	0.0205339	0.085374921
TF	-0.401196316	-2.379181273	0.0205404	0.085374921
MMP11	0.436726504	2.417195174	0.0206473	0.085773861
FRAS1	0.421789098	2.402780716	0.0206576	0.085773861
SCRN1	-0.382501692	-2.382281274	0.0206617	0.085773861
TASP1	-0.16224047	-2.383817766	0.0206942	0.08587345
MTRR	-0.169983872	-2.371399607	0.0207412	0.086033558
TBL3	0.156058008	2.382649941	0.0207662	0.086101953
DNPH1	-0.211401992	-2.378203302	0.0207815	0.086130245
TXNRD3	-0.231615789	-2.3891792	0.0207904	0.086131938
PSMC4	0.081302857	2.37605937	0.0208334	0.086238726
PGP	-0.160774135	-2.372458935	0.0208366	0.086238726
CHKB	-0.155010207	-2.372745049	0.0208488	0.086238726
VCPIP1	-0.103394549	-2.374742545	0.0208502	0.086238726
SERPINI1	0.66057342	2.412792703	0.0208786	0.086320959
STXBP2	-0.15723806	-2.378264678	0.0209036	0.086389235
EVI5	-0.125606447	-2.377566866	0.0209557	0.086539612
PAWR	-0.32618	-2.367247494	0.0209576	0.086539612
PIGH	0.33022312	2.38230978	0.0210042	0.086699155
ATXN7	0.196329429	2.368652058	0.0210562	0.08684446
VDAC2	0.403107895	2.371832202	0.0210565	0.08684446

ULK3	0.161821729	2.371897363	0.0210965	0.08697384
NOP16	0.206641165	2.375778091	0.0211108	0.086997563
GCLC	0.372571203	2.387092515	0.0211358	0.087065145
MAPK14	-0.170532688	-2.36338424	0.0211725	0.087181024
STON1	-0.674467978	-2.394485888	0.0212016	0.087233472
AK7	-0.440839279	-2.368660484	0.0212024	0.087233472
SPCS1	0.356580883	2.362401968	0.0212125	0.087238843
RBKS	-0.317804211	-2.363748064	0.0212285	0.087270829
MRPL9	0.247262519	2.372054677	0.0212787	0.087441213
RDH10	-0.30928656	-2.360942263	0.0213428	0.08766913
NDUFA13	0.309588421	2.365559421	0.0213735	0.087759444
PGLYRP2	-0.393852444	-2.368083154	0.0214407	0.087999711
TAX1BP3	-0.166131865	-2.358376884	0.0214836	0.088140477
AVEN	0.13773765	2.356756922	0.0215089	0.088208515
C19orf53	-0.312166353	-2.358609937	0.0215917	0.088512343
DSTN	-0.276367895	-2.356326023	0.0216172	0.088581064
ATAD3A	0.277582293	2.372677486	0.0216345	0.088614416
GET1	0.255540703	2.36258535	0.0216815	0.08877259
PAFAH2	-0.184500714	-2.355955856	0.0216909	0.088775375
RPS2	0.165607801	2.35824766	0.0217107	0.088820729
CD44	0.35836	2.367253675	0.0217246	0.088841879
COX11	0.225669154	2.352307742	0.0217810	0.089011719
TRIM68	0.158328402	2.352671795	0.0217837	0.089011719
WARS1	-0.260082481	-2.361877163	0.0218186	0.08911828
RHCE	0.683528889	2.354578172	0.0218377	0.089160421
CANT1	0.377660301	2.377415505	0.0218893	0.089335367
GATAD2B	0.15134218	2.352410956	0.0219172	0.089413257
DIP2A	0.142731372	2.357307983	0.0219521	0.089483922
RAB1B	0.256868617	2.352149746	0.0219522	0.089483922
APOL1	-0.327890291	-2.348121525	0.0219711	0.08951566
IRF2	-0.114556002	-2.356313894	0.0219776	0.08951566
CHCHD7	-0.250871147	-2.352093505	0.0220034	0.089585014

RAB5IF	0.292789989	2.360007223	0.0220160	0.089600127
PDSS1	0.370091558	2.359892924	0.0220335	0.089636232
MICU1	-0.218847143	-2.346969959	0.0220550	0.089687082
GART	0.130934624	2.354703256	0.0220772	0.089728198
CHD1L	0.283406203	2.352073048	0.0220828	0.089728198
MTHFD1	0.146934774	2.356315271	0.0221100	0.089803865
MRPS34	0.267247237	2.348946784	0.0221765	0.090021044
POLR1A	0.145695432	2.350064801	0.0221925	0.090021044
GLIS3	-0.444481624	-2.365824685	0.0221985	0.090021044
SAA1	-0.418825049	-2.357020955	0.0221992	0.090021044
SCCPDH	0.345851011	2.361371226	0.0222690	0.090267862
TMEM201	0.265083459	2.350328654	0.0223078	0.090381211
PRKAG2	0.224683985	2.353238876	0.0223148	0.090381211
TCTN3	0.243756506	2.350062011	0.0223699	0.090552936
CRISP3	-0.722249098	-2.355834837	0.0223750	0.090552936
SBNO1	0.119925414	2.346077109	0.0224285	0.090661284
ZC3H11A	0.180117895	2.347732953	0.0224290	0.090661284
TAF1	0.130113553	2.347109178	0.0224350	0.090661284
NAA16	-0.136716335	-2.349950962	0.0224375	0.090661284
APAF1	-0.130194023	-2.339500087	0.0224518	0.090668095
LMNB2	-0.229286321	-2.340010798	0.0224694	0.090668095
HMX3	-0.735188571	-2.352165688	0.0224740	0.090668095
GTF2A2	0.18042641	2.339564788	0.0224749	0.090668095
CAMK1D	-0.325785526	-2.339385901	0.0225000	0.090733115
MRPL47	0.264655075	2.354183711	0.0225407	0.090861168
NARS1	-0.165717707	-2.355771422	0.0226368	0.091212596
OLA1	0.183556278	2.341386935	0.0226495	0.091227367
MIS12	0.195469173	2.336688953	0.0226685	0.091268372
HSBP1	-0.385780695	-2.341179122	0.0228130	0.091813111
PXYLP1	0.278295217	2.344080343	0.0229159	0.092190761
ABRAXAS1	-0.140750752	-2.330010584	0.0229720	0.092346835
ASB13	-0.361362414	-2.368618885	0.0229729	0.092346835

SFXN2	0.348948872	2.334527935	0.0229984	0.092412482
GULP1	-0.21119109	-2.348091316	0.0230285	0.092496746
JAGN1	0.451128684	2.335293325	0.0230535	0.092554533
CLN8	0.292969455	2.364425829	0.0230727	0.092554533
PRPS1	-0.162318068	-2.331700428	0.0230807	0.092554533
BCCIP	0.229952538	2.34412924	0.0230928	0.092554533
LRRC14	-0.14908609	-2.33087963	0.0230937	0.092554533
SRSF5	0.172770301	2.329100044	0.0230987	0.092554533
GTF3C1	0.126789474	2.327882967	0.0231067	0.092554533
TPRN	-0.187321805	-2.326726371	0.0231812	0.09281643
SPG7	0.262360902	2.331836171	0.0232346	0.09296801
PARVB	-0.278307436	-2.326071758	0.0232477	0.09296801
EAPP	-0.212240365	-2.342347556	0.0232516	0.09296801
LRRC25	-0.322456391	-2.326795741	0.0232577	0.09296801
LPIN2	-0.176905301	-2.339853496	0.0232744	0.09296801
NXF1	0.110293308	2.325499397	0.0232788	0.09296801
RAB3B	0.861145055	2.405768083	0.0232832	0.09296801
TK2	0.363873289	2.35239657	0.0233624	0.093247581
TEX10	0.176660827	2.324046892	0.0233803	0.093282327
SLC25A6	0.363907312	2.336456367	0.0234225	0.093414057
RRP15	0.20744718	2.329396882	0.0235114	0.093731659
MOB3A	-0.207918609	-2.320244968	0.0235342	0.093785857
DDR1	0.22057	2.327294471	0.0236007	0.094013872
ARIH1	0.118376203	2.333647256	0.0236545	0.094191423
GPD2	0.224754135	2.331036188	0.0237233	0.094428358
UBE2B	-0.13302968	-2.322509533	0.0238033	0.094709694
TRIM32	-0.123001974	-2.315703029	0.0238133	0.094712022
TTC39C	-0.180203102	-2.320160918	0.0238422	0.094789802
LAMP2	0.318304419	2.325653148	0.0238547	0.09479467
ATP5PB	0.406939053	2.324119461	0.0238627	0.09479467
ENPEP	-0.420562361	-2.326517069	0.0239047	0.094924623
SMARCB1	0.113169417	2.315993965	0.0239926	0.095208088

DIAPH2	-0.220642744	-2.325568241	0.0239945	0.095208088
GTF3C5	0.147194173	2.311942448	0.0240285	0.095297796
CNNM3	0.226556936	2.318282416	0.0240357	0.095297796
PDLIM5	-0.374451917	-2.312922053	0.0240464	0.095303307
CPTP	-0.150845714	-2.314994907	0.0241166	0.095544224
KIAA1211L	-0.268964248	-2.316060955	0.0241420	0.095607295
SERPINB1	-0.305286278	-2.312157243	0.0241536	0.09561606
RAB3GAP2	0.136757331	2.326248588	0.0241895	0.095720916
CHEK2	0.226811992	2.309150407	0.0242117	0.09577144
DNAJC13	-0.096082519	-2.311151188	0.0242467	0.095872398
LGR5	-0.363238158	-2.311534314	0.0242597	0.095886282
DNAJB9	0.222690752	2.308461004	0.0242742	0.095906545
SH3BP2	-0.257798872	-2.311648217	0.0243126	0.096020788
MAP3K2	-0.107004173	-2.311424213	0.0243327	0.096060309
RAB2A	0.260901898	2.312610698	0.0243612	0.096075104
SIRT1	0.157797199	2.307746978	0.0243630	0.096075104
TMEM167B	0.221836203	2.30738124	0.0243679	0.096075104
NAGK	-0.187406654	-2.309107208	0.0243737	0.096075104
MED13L	0.154671748	2.319509992	0.0243919	0.096109399
ENO4	-0.637339372	-2.365209756	0.0244339	0.096237532
SLC39A7	0.471221203	2.306606806	0.0244524	0.096273106
CDH3	0.392530714	2.317033605	0.0244927	0.096392021
MIER1	-0.185321617	-2.303511496	0.0245098	0.096416561
DIS3	0.140656335	2.308276459	0.0245262	0.096416561
EXOSC3	0.154786184	2.303248333	0.0245325	0.096416561
SLC4A1	0.479699248	2.303223076	0.0245365	0.096416561
DYDC2	-0.813101095	-2.357622611	0.0245620	0.096480193
AFM	-0.344786635	-2.302345724	0.0245905	0.096497808
CYP27A1	-0.28773312	-2.308808404	0.0245935	0.096497808
ELN	-0.504826129	-2.336926272	0.0245977	0.096497808
MSRB2	0.20486203	2.302602526	0.0246045	0.096497808
SMG6	-0.137433759	-2.327213465	0.0246227	0.096507601

MRPS15	0.251773872	2.315127263	0.0246260	0.096507601
COL6A2	-0.41320406	-2.302796957	0.0246704	0.096633297
STK38	-0.202983158	-2.301076737	0.0246778	0.096633297
RBBP4	0.203083515	2.306336342	0.0246867	0.096633297
ASAH1	-0.291812857	-2.30021536	0.0247167	0.096713674
HIP1	0.182266643	2.321867157	0.0247578	0.096836957
MID1	-0.209680658	-2.299096041	0.0247774	0.096856427
YRDC	0.157315996	2.318620895	0.0247875	0.096856427
TBL2	0.205568891	2.302970208	0.0247957	0.096856427
CPNE2	-0.244061278	-2.315038668	0.0248120	0.096856427
ERBB2	0.224716523	2.30714007	0.0248163	0.096856427
ARL 15.00	0.217232669	2.312062429	0.0248200	0.096856427
F5	-0.290936252	-2.297569612	0.0248667	0.096998971
TRPV4	-0.330564774	-2.297064823	0.0248970	0.097031802
IL17RA	0.233685455	2.325262654	0.0249000	0.097031802
NDUFB5	0.295053459	2.298320872	0.0249032	0.097031802
PARP14	-0.199176842	-2.303103492	0.0249143	0.097038044
ANG	-0.430771053	-2.312746388	0.0249622	0.097187127
CORO2B	-0.436671805	-2.296893393	0.0249958	0.097280569
OGFOD3	0.229904662	2.304236608	0.0250167	0.097324536
ADH1B	-1.006643797	-2.304726754	0.0250450	0.097397269
ATL2	0.245603947	2.302108236	0.0250609	0.097420176
ADIPOQ	-0.665759023	-2.29898321	0.0250928	0.097480658
ITIH3	-0.307092462	-2.295914759	0.0250952	0.097480658
STX16	0.223526692	2.294755688	0.0251419	0.097554008
DPCD	-0.341853947	-2.295600575	0.0251422	0.097554008
ESYT1	0.188109511	2.293298743	0.0251429	0.097554008
H1.0	-0.74449812	-2.29836602	0.0251636	0.097596736
UBXN2A	-0.139298045	-2.306926451	0.0252126	0.097741881
SELENOK	0.201270508	2.291756415	0.0252202	0.097741881
PSMB1	0.103844586	2.290864939	0.0253287	0.098118106
EIF1	-0.171111639	-2.290014685	0.0253428	0.098118106

VPS33A	-0.094275338	-2.299785542	0.0253482	0.098118106
ATP2C1	0.276695865	2.301303332	0.0253646	0.098118106
DEFA5	1.423454545	2.413340639	0.0253704	0.098118106
CA12	0.489630188	2.296784684	0.0253755	0.098118106
RIPK4	-0.205403878	-2.301269725	0.0254124	0.098218433
NFATC2	-0.207373647	-2.309733751	0.0254206	0.098218433
GSTO1	-0.375258195	-2.328247711	0.0254355	0.098225221
XRCC1	0.122914887	2.288909565	0.0254417	0.098225221
LRP2	-0.986943439	-2.333230173	0.0254783	0.098310794
KSR1	-0.157290177	-2.294726491	0.0254833	0.098310794
NDUFB8	0.290639267	2.288287007	0.0255226	0.098409537
BGN	-0.78399906	-2.294266682	0.0255283	0.098409537
CA6	0.834117778	2.415416147	0.0255472	0.098411556
EFS	-0.369726478	-2.298621989	0.0255482	0.098411556
BCAP29	0.351082256	2.286892049	0.0256278	0.098674618
DDRKG1	0.253090677	2.286893791	0.0256359	0.098674618
DYNC1I1	0.688459876	2.326987248	0.0256588	0.098725173
PDZK1IP1	-0.507940203	-2.29080678	0.0256947	0.098790069
TEX9	-0.429689167	-2.325259791	0.0256955	0.098790069
CNDP1	-0.281133835	-2.283164258	0.0257578	0.098993562
SHKBP1	-0.149651509	-2.304784087	0.0257806	0.09904375
SLC35B2	0.264892744	2.291313783	0.0258306	0.099195853
METTL25	-0.227510865	-2.292405618	0.0258617	0.099265808
GTF3C3	0.123066842	2.284448704	0.0258687	0.099265808
NUTF2	-0.14709985	-2.281597663	0.0258775	0.099265808
USP14	0.123302256	2.299853042	0.0259112	0.099357481
APCS	-0.556282519	-2.282631906	0.0259466	0.099453311
BST1	-0.514731767	-2.289198367	0.0260024	0.099631733
ATP2B3	0.409452273	2.312380729	0.0260167	0.099646755
CTNND2	0.567244749	2.299346112	0.0260323	0.099654284
GTF3C6	-0.233812688	-2.289946593	0.0260377	0.099654284
CRABP2	0.546836278	2.299260737	0.0260837	0.099790223

PYCR3	-0.186011147	-2.285131065	0.0261999	0.100198618
DAAM1	0.166229023	2.289866397	0.0262099	0.100198618
H1.2	-0.629058459	-2.306204213	0.0262329	0.100250013
ZNF207	0.137635545	2.274517367	0.0262972	0.100364235
CNTROB	-0.156216654	-2.275464152	0.0263006	0.100364235
OGFOD1	0.155985175	2.274349119	0.0263139	0.100364235
SEC22B	0.292297932	2.276506796	0.0263156	0.100364235
TIMM8A	0.268399267	2.274970972	0.0263177	0.100364235
GEMIN5	0.13937891	2.290488019	0.0263227	0.100364235
ISG20	-0.229126957	-2.279925319	0.0263386	0.100387122
NRBP2	-0.197242669	-2.276818891	0.0264186	0.100654197
FBXO21	0.162710188	2.278938859	0.0264786	0.100847405
TRAPPC6B	-0.113549756	-2.27601028	0.0265529	0.101090732
PNPLA4	0.327400702	2.323306261	0.0265956	0.101217011
FZD1	0.375204474	2.281919036	0.0266352	0.101329928
BLMH	-0.141639605	-2.275887351	0.0266707	0.101426674
DMAP1	0.135530301	2.268075003	0.0267079	0.101507178
RFC5	0.131294774	2.268883582	0.0267247	0.101507178
SPACA9	-0.66879375	-2.297376161	0.0267369	0.101507178
SNRNP27	0.136470226	2.27060627	0.0267389	0.101507178
SOS 2	-0.245860406	-2.275336099	0.0267418	0.101507178
CCDC47	0.212862331	2.270354102	0.0267779	0.101584007
SLC37A4	0.347944549	2.290063826	0.0267852	0.101584007
ARHGEF16	0.165066692	2.270104078	0.0267927	0.101584007
PGRMC2	0.312754962	2.27415551	0.0268346	0.101691212
NPL	-0.32588703	-2.26749023	0.0268404	0.101691212
CEBPD	-0.217005808	-2.266911434	0.0268779	0.101785745
PLGRKT	0.279367876	2.300236158	0.0268929	0.101785745
KLKB1	-0.319288816	-2.265591889	0.0268959	0.101785745
IL18	-0.391161203	-2.270877037	0.0269139	0.101817425
PIK3R4	-0.058865853	-2.2650402	0.0269378	0.101825836
MARS1	0.095756165	2.264552806	0.0269426	0.101825836

ZNF622	0.157712519	2.264915474	0.0269462	0.101825836
PKP2	0.365979323	2.265637428	0.0270477	0.102171542
NUMA1	0.162701109	2.262909913	0.0270617	0.102184038
PDCL	0.126608177	2.266345525	0.0270807	0.102217793
P2RX4	0.276506579	2.267617911	0.0271055	0.102275405
ATP2A2	0.332128571	2.264444109	0.0271355	0.102349815
HSPA5	0.191777575	2.262537665	0.0271670	0.102431334
GBP4	-0.290196936	-2.292338761	0.0272412	0.102672964
PEX16	0.180870865	2.270397635	0.0272800	0.102781101
CPN1	-0.343834586	-2.259983609	0.0273062	0.102841569
IGSF9	0.38465977	2.280348975	0.0273407	0.102931163
HNRNPLL	0.116056391	2.257741927	0.0273807	0.10296663
THSD4	-0.779486992	-2.270018318	0.0273877	0.10296663
FBLN5	-0.721965977	-2.270769544	0.0273955	0.10296663
AP4M1	-0.125475658	-2.278745677	0.0274090	0.10296663
UNG	0.240853759	2.279384285	0.0274107	0.10296663
CRYBG1	0.347479962	2.293402418	0.0274109	0.10296663
TRMT5	0.168275615	2.267098366	0.0274205	0.10296663
GSTP1	-0.21836797	-2.27275851	0.0274622	0.103022258
WDR45	-0.129602267	-2.256518557	0.0274637	0.103022258
LACTB2	-0.172201895	-2.257060427	0.0274750	0.103022258
ALG8	0.399815414	2.263844149	0.0274759	0.103022258
TMOD2	-0.344050602	-2.270120269	0.0274987	0.103067228
RNASEH2A	-0.185001986	-2.261873655	0.0275358	0.10317065
NDUFC1	0.30110385	2.266393325	0.0275608	0.103213783
ZSCAN18	-0.286993936	-2.272599585	0.0275868	0.103213783
N6AMT1	-0.198242265	-2.262421755	0.0275917	0.103213783
B3GALT5	-0.68815035	-2.277481776	0.0275967	0.103213783
PDLIM3	-0.72062782	-2.254954215	0.0275982	0.103213783
PRSS3	-0.343882707	-2.254082701	0.0276340	0.103289287
AKT3	-0.456114436	-2.262443369	0.0276387	0.103289287
JAK2	-0.288870046	-2.276853692	0.0276955	0.103431208

MRPL51	0.280238684	2.254212121	0.0276971	0.103431208
PSMA2	0.167688759	2.274943842	0.0277422	0.103561419
AHSG	-0.384159398	-2.254829681	0.0277587	0.103585068
STX4	0.247932519	2.25206517	0.0278015	0.103706791
RECQL5	0.117567801	2.252698849	0.0278338	0.10378904
SLC43A3	-0.422382218	-2.249325758	0.0279431	0.104158111
ACTN1	-0.433488045	-2.249368635	0.0279548	0.104163504
SRGAP2	0.208895301	2.254340093	0.0280333	0.104417775
KIF23	0.344320545	2.259898249	0.0281012	0.104591753
CNOT7	0.171401301	2.248562191	0.0281103	0.104591753
APOL2	-0.324358703	-2.247113979	0.0281109	0.104591753
PKM	-0.216776981	-2.24892601	0.0281711	0.104777427
CTSH	0.497589098	2.257686691	0.0282517	0.105038593
PSMD8	0.107566034	2.258641526	0.0282642	0.105046424
LBH	-0.269741673	-2.25072198	0.0283042	0.105156683
CLEC3B	-0.375091259	-2.252383187	0.0283355	0.10523437
IFIT1	-0.36340312	-2.243254677	0.0283505	0.105251666
KLHDC8B	-0.3052245	-2.267783481	0.0284001	0.105362601
C6orf89	0.420142945	2.245158071	0.0284011	0.105362601
CTC1	0.22635485	2.246068103	0.0284373	0.105388338
LTBP3	0.241445188	2.245983569	0.0284420	0.105388338
RBAK	0.15033609	2.249869225	0.0284436	0.105388338
LGALS3	-0.349109774	-2.257823296	0.0284591	0.105388338
HSPB7	-0.664133289	-2.241660154	0.0284600	0.105388338
NIPSNAP2	0.218492293	2.255622645	0.0284775	0.105414856
LAMA3	-0.365591335	-2.242861957	0.0285128	0.10546754
NCOA4	-0.191836015	-2.244244144	0.0285160	0.10546754
RASA1	0.087741684	2.240626395	0.0285328	0.10546754
MEGF8	0.282239586	2.259194213	0.0285333	0.10546754
SLTM	0.117865395	2.241343613	0.0285515	0.105495471
PPTC7	-0.268318947	-2.254105418	0.0285702	0.105526964
ZNF627	-0.269608946	-2.25509026	0.0285892	0.105558554

COX18	0.321950476	2.264873392	0.028612	0.105604781
VIL1	-0.619710602	-2.240413102	0.028645	0.105690421
BNIP1	0.254063673	2.241742176	0.028672	0.105749607
CD58	0.197958882	2.242071762	0.028708	0.105844755
ARHGDIA	-0.153360169	-2.239713986	0.028756	0.105960233
PPIG	0.124758214	2.23996944	0.028764	0.105960233
PWWP3A	-0.2550439	-2.263462022	0.028771	0.105960233
CHID1	0.210995789	2.262337029	0.028867	0.106237018
DCAF1	0.09637562	2.240013407	0.028876	0.106237018
ANXA5	-0.238946429	-2.246907169	0.028893	0.106237018
SOX6	-0.30917359	-2.238761773	0.028896	0.106237018
POU2F1	0.162302838	2.240830153	0.028898	0.106237018
HIKESHI	-0.197492011	-2.247024572	0.029001	0.106555229
LMNA	-0.388451241	-2.243023605	0.029006	0.106555229
SOCS2	-0.467726635	-2.272422144	0.029130	0.106972135
CSNK1A1	0.146799737	2.237909632	0.029156	0.107031759
PPA2	0.186599436	2.234727348	0.029209	0.107185804
HYI	-0.210841504	-2.233994367	0.029249	0.107292779
ATP7B	-0.525969713	-2.2539672	0.029266	0.107319285
B4GAT1	0.242733703	2.235935072	0.029342	0.107556686
ICE1	0.24296634	2.233830805	0.029359	0.107581483
F10	-0.352409774	-2.228262439	0.029392	0.10766162
MT3	0.891880959	2.228495314	0.029453	0.107848983
EMB	-0.41471151	-2.263101283	0.029496	0.107951444
AKAP11	-0.143205451	-2.234683114	0.029503	0.107951444
SAMSN1	-0.273870489	-2.22636476	0.029517	0.107963872
SETD3	-0.125960526	-2.233799407	0.029543	0.108022766
VPS11	-0.104520996	-2.238803712	0.029582	0.108125869
ST3GAL1	-0.359796362	-2.243156221	0.029622	0.108231727
ADAP2	-0.317530167	-2.250921077	0.029652	0.108303662
RBBP8NL	0.16260703	2.228079414	0.029675	0.108346321
CDC42EP1	-0.299080376	-2.231192351	0.029697	0.108387758

SRSF6	0.188895733	2.222706729	0.0297774	0.108641765
LMCD1	-0.40598703	-2.222536212	0.029791	0.10865251
CNOT8	-0.160380451	-2.227761598	0.0298669	0.108880458
THOC1	0.106734474	2.221822907	0.0298750	0.108880458
KBTBD2	-0.31128	-2.241705547	0.0299182	0.108998678
CUTC	-0.212716729	-2.231658161	0.0299640	0.109126276
ADCYAP1R1	-0.610355714	-2.255210852	0.0299887	0.109144734
PDCD6	-0.109017105	-2.226553322	0.0299906	0.109144734
C1orf87	-0.582146852	-2.224506822	0.0300197	0.109211755
ICA1L	-0.353696171	-2.255090795	0.0300748	0.109372871
METTL9	0.206296692	2.217414228	0.0301637	0.109618177
YIPF3	0.175989098	2.218066875	0.0301677	0.109618177
SPINK5	1.016822609	2.263976522	0.0301746	0.109618177
C1orf21	0.355068881	2.224726137	0.0302047	0.109685887
C8B	-0.364444515	-2.218585629	0.0302382	0.109752476
CST6	-0.635778326	-2.256546346	0.0302447	0.109752476
TTC13	0.174942199	2.223351624	0.0303038	0.109907281
SIMC1	-0.276403065	-2.270608404	0.0303084	0.109907281
SCAPER	0.149298917	2.228425141	0.0303367	0.109934216
POP1	0.129806579	2.21806561	0.0303379	0.109934216
ZC3H18	0.118115526	2.216005365	0.0303483	0.109934216
ADAMTS15	-0.452125385	-2.257583619	0.0303717	0.109979709
P4HB	0.24764906	2.217588904	0.0304063	0.110065668
OSBPL8	0.189439812	2.213659126	0.0304358	0.110110906
RNASE4	-0.363282797	-2.220931823	0.0304409	0.110110906
ACOT8	-0.230680789	-2.213389669	0.0304564	0.110129288
DPH6	-0.168418571	-2.220388445	0.0304777	0.110165034
CEP70	-0.315085741	-2.309998516	0.0305119	0.110251498
SRR	-0.362612481	-2.215498048	0.0305233	0.110253204
ESRRA	-0.284263966	-2.221905063	0.0305898	0.11045437
AP1B1	-0.118801429	-2.211092475	0.0306288	0.110555886
KLHL25	0.208905245	2.220105629	0.0306536	0.110605783

HERC6	-0.372357952	-2.213417874	0.0307640	0.110903071
BLOC1S3	-0.098761767	-2.20893759	0.0307678	0.110903071
TMEM259	0.251069962	2.2098773	0.0307687	0.110903071
GMPPA	-0.183231654	-2.216887377	0.0308375	0.111110728
CD151	0.316894662	2.208266864	0.0308544	0.1111133009
HSD17B2	0.476966	2.251253924	0.0308784	0.111180117
NUDT15	-0.212301203	-2.207996538	0.0309297	0.111325305
TMEM214	0.226214192	2.212078727	0.0309830	0.111477324
PRPF6	0.105815902	2.20607325	0.0310664	0.111738046
AGAP3	-0.114251147	-2.210274773	0.0311240	0.111871524
MYOC	-0.793339167	-2.269194399	0.0311287	0.111871524
SNX17	-0.167420244	-2.214225651	0.0311366	0.111871524
ADGRA2	-0.221870262	-2.212504258	0.0311790	0.11196916
RALYL	0.172106447	2.203356534	0.0311974	0.11196916
TAP2	0.355570301	2.208837724	0.0311983	0.11196916
C8orf33	0.278125669	2.212350207	0.0312189	0.11196916
IGFALS	-0.272736842	-2.203539148	0.0312189	0.11196916
RBM47	-0.168111429	-2.202456391	0.0312467	0.112029228
SHARPIN	-0.102142293	-2.202179159	0.0312657	0.112034615
NCBP2	0.121999361	2.20725191	0.0312703	0.112034615
FAAH	0.333113722	2.206965865	0.0312992	0.112098522
MFAP4	-1.251533835	-2.21623875	0.0315292	0.112882388
MAFB	-0.260938914	-2.220606786	0.0315529	0.1129276
CTHRC1	0.529454887	2.216603581	0.0315828	0.112994516
KRT80	0.446479023	2.214597825	0.0316857	0.113320599
SLC12A7	0.20281015	2.197079213	0.0318219	0.113711942
GFPT1	-0.26372594	-2.202669803	0.0318330	0.113711942
C9orf16	-0.191648346	-2.198476367	0.0318375	0.113711942
SLMAP	-0.334173102	-2.199680592	0.0318409	0.113711942
LAMC2	-0.363490489	-2.195317866	0.0318505	0.113711942
TSEN2	0.230491372	2.201515588	0.0318765	0.113731606
STING1	-0.416683816	-2.200494293	0.0318897	0.113731606

SNX24	-0.226752361	-2.204766656	0.0318896	0.113731606
DCBLD1	0.199181109	2.19360045	0.0319102	0.113765005
CAPN7	0.124670263	2.19853819	0.0319288	0.113791389
NEXN	-0.714693233	-2.19466156	0.0319556	0.113846966
PIP4P2	-0.397358885	-2.216435716	0.0319715	0.113863422
BRMS1L	0.146670695	2.192460208	0.0319895	0.11388764
TUBB	0.214536711	2.195729983	0.0320320	0.113956008
ATP1A2	0.871391944	2.24803529	0.0320414	0.113956008
PMS1	0.18844109	2.196219403	0.0320424	0.113956008
PRRC2C	0.106496109	2.205852619	0.0320555	0.113962008
DIP2B	0.120955094	2.194073932	0.0320686	0.113969358
TCTN1	-0.43011015	-2.23312222	0.0320926	0.114014691
TRIM26	-0.139276335	-2.210237598	0.0321155	0.114033307
ATG2B	-0.117327218	-2.19357844	0.0321203	0.114033307
RAB18	0.228940282	2.195673622	0.0321766	0.114109046
CAMLG	0.232174254	2.19376011	0.0321834	0.114109046
RABEP1	-0.160153346	-2.204377698	0.0321834	0.114109046
TBC1D23	0.158313365	2.198005156	0.0321866	0.114109046
WDR3	0.157675464	2.200800077	0.0322374	0.114249187
NIPA2	0.265115956	2.200511364	0.0322968	0.114419962
NEDD4	-0.312726797	-2.198569073	0.0323324	0.1145061
HOMER2	0.238188534	2.188111591	0.0323567	0.114552141
PRIMPOL	-0.246710256	-2.196984745	0.0323739	0.11457301
UBR4	0.086880207	2.187682936	0.0323884	0.114584529
PRRC2B	0.090264831	2.191277862	0.0324563	0.114784806
FADS2	0.372687782	2.189201628	0.0325015	0.114903145
TRIO	-0.146896737	-2.184514389	0.0326060	0.115220001
DYNC1H1	0.100980301	2.186787089	0.0326135	0.115220001
IFIT3	-0.360606654	-2.184921109	0.0327425	0.115620687
CD7	-0.254111877	-2.215850472	0.0327497	0.115620687
PGK 2.00	-0.320274737	-2.190021063	0.0327635	0.115630227
MPND	0.182743976	2.197166452	0.0328325	0.115831144

CEBPZ	0.163396635	2.186377616	0.0329515	0.11621128
CD81	0.338153759	2.185897799	0.0329699	0.116236668
RHBDD3	0.201640602	2.179278185	0.0329987	0.116297744
PPP1R14A	-0.559601521	-2.184169441	0.0330185	0.116326399
ACAN	0.362635959	2.178895397	0.0330575	0.116405622
LAMA2	-0.404161842	-2.180197056	0.0330637	0.116405622
SPRR1B	0.601886078	2.21297652	0.0330936	0.116470362
KLHL22	-0.163716128	-2.195216539	0.0331237	0.116533666
PXMP2	0.2897625	2.198571263	0.0331454	0.116571704
AOC3	-0.483241241	-2.178957565	0.0331648	0.116576633
A1BG	-0.330323628	-2.177976362	0.0331715	0.116576633
CMA1	-0.78627156	-2.182086193	0.0331812	0.116576633
OFD1	-0.179300414	-2.176791345	0.0332335	0.116720012
WDR92	-0.149996165	-2.176552264	0.0333645	0.117139604
SERPINF2	-0.351790865	-2.173741383	0.0334319	0.117267629
DOCK11	0.253651504	2.182182365	0.0334327	0.117267629
SERPINB2	0.596115333	2.201993194	0.0334357	0.117267629
SPRYD4	0.208275962	2.184099123	0.0334796	0.117368316
CD63	0.363336034	2.186141237	0.0334925	0.117368316
GPR107	0.188430338	2.180317795	0.0334997	0.117368316
SPOUT1	0.162565038	2.177297412	0.0335312	0.117440404
TTC7B	-0.213962534	-2.175278863	0.0335496	0.117462034
DDX42	0.101497538	2.173713233	0.0335817	0.117536257
RAD51	-0.374194519	-2.213219404	0.0336694	0.117802617
AFF4	0.123080508	2.178380044	0.0338498	0.118392863
FNBP1L	0.100970564	2.17077365	0.0339793	0.118783498
NUDT18	-0.18905985	-2.17398229	0.0339926	0.118783498
PON1	-0.401343609	-2.168294035	0.0339966	0.118783498
MTREX	0.116769756	2.16625528	0.0340234	0.118836351
UBR2	-0.081713414	-2.171026496	0.0340548	0.118865503
CAV1	-0.487851673	-2.167728559	0.0340552	0.118865503
SELENOM	-0.361201504	-2.172845853	0.0340715	0.118881533

CD177	-0.628422115	-2.166140837	0.0341035	0.118952151
POLR3F	0.113177068	2.170032248	0.0341266	0.118991754
DDX27	0.172973383	2.180806364	0.0341522	0.119040226
B2M	0.401432199	2.173191177	0.0341640	0.119040679
MAP2K5	0.116595609	2.169046581	0.0342102	0.119160757
CPEB4	-0.207549252	-2.192676911	0.0342321	0.11919598
CBY1	-0.521596994	-2.213463462	0.0342571	0.119242139
EMILIN3	-0.400940196	-2.165917995	0.0343704	0.119561162
DHX37	0.136126767	2.168354994	0.0343723	0.119561162
FCGBP	-0.534090226	-2.169415361	0.0343902	0.119582493
CAMK2G	-0.270249402	-2.162200193	0.0344195	0.119643284
HRG	-0.40072953	-2.164713846	0.0344315	0.119643361
TOMM40	0.247770075	2.163788851	0.0344511	0.119671255
POSTN	-0.899120677	-2.163843242	0.0345176	0.119829925
PKP1	0.70669937	2.195417709	0.0345204	0.119829925
RRBP1	0.17775735	2.160639771	0.0345522	0.119899179
RNF40	0.082679214	2.159553842	0.0346048	0.119990996
GFRA3	0.898812121	2.180528307	0.0346061	0.119990996
MPV17	0.287126692	2.164351614	0.0346207	0.119990996
PIGG	0.25172532	2.175488067	0.0346346	0.119990996
TMEM184B	0.334059586	2.164949987	0.0346385	0.119990996
LAS1L	0.148648968	2.161155291	0.0346539	0.119990996
CA3	-0.42985688	-2.15842786	0.0346614	0.119990996
FAM117A	-0.266311317	-2.167995422	0.0346954	0.120067844
EPB41L5	0.181382143	2.165221735	0.0347409	0.120184148
CFHR3	-0.422181955	-2.167641684	0.0347709	0.120223446
PPP1R14C	-0.694792932	-2.170582143	0.0347759	0.120223446
ATP2C2	-0.373890741	-2.184817395	0.0348145	0.120315158
CDH1	0.234573308	2.163164883	0.0348554	0.120410838
TP53BP1	0.129051316	2.155953222	0.0348671	0.120410838
SLC7A6OS	-0.156875113	-2.159608355	0.0348785	0.120410838
CDKN2AIP	-0.112462759	-2.155865994	0.0348894	0.120410838

HMGA2	0.379290282	2.162523055	0.0349045	0.120417405
RAB27A	-0.302230263	-2.15549736	0.034917	0.120417405
AP1G2	-0.194765169	-2.15627972	0.0349269	0.120417405
IQGAP1	-0.156685902	-2.155048798	0.0349395	0.12041997
ST13	-0.127488139	-2.154746521	0.0349552	0.120433017
RIBC1	-0.598619079	-2.198142026	0.0349804	0.120478839
DCAKD	0.187722243	2.159101045	0.0349942	0.120485637
FYN	0.257401765	2.1595541	0.0350382	0.120574852
ACTG2	-0.831431053	-2.156775457	0.0350439	0.120574852
WDR13	-0.133990432	-2.153603007	0.0350570	0.120579101
PTPN21	-0.307813339	-2.174162552	0.0350765	0.120605272
MAD1L1	0.075408759	2.154468276	0.0351145	0.120694291
C12orf75	-0.430532846	-2.156512719	0.0351272	0.120698039
CPSF7	0.10841297	2.153221467	0.0351655	0.120773254
SEC22A	0.283055902	2.157332186	0.0351729	0.120773254
PNMA8A	-0.459690878	-2.166089963	0.0352639	0.120964185
FBLN7	-0.400804135	-2.162073037	0.0352712	0.120964185
AGFG2	-0.256914135	-2.161862372	0.0352785	0.120964185
MRPL15	0.238275188	2.156411516	0.0352789	0.120964185
TRIM14	-0.288090145	-2.166400683	0.0352885	0.120964185
FBXO3	-0.127188346	-2.153791789	0.0353165	0.121020018
PLEKHO1	-0.204512105	-2.15132729	0.0353575	0.121119676
LSM 1.00	-0.162384496	-2.15788353	0.0353880	0.121183829
ACOX1	0.196960789	2.152562162	0.0355635	0.121744403
CD2	-0.271058753	-2.14931246	0.0355886	0.121788437
LPCAT4	-0.221586128	-2.149120574	0.0356034	0.121798139
FKBP1A	-0.189898534	-2.149660526	0.0356545	0.121889329
BPTF	0.111372895	2.146278019	0.0356570	0.121889329
TOR2A	0.131300474	2.146331238	0.0356665	0.121889329
SORBS3	-0.292119549	-2.150385368	0.0357056	0.121942322
VPS4B	-0.090052011	-2.147732279	0.0357056	0.121942322
CAPNS1	-0.148269361	-2.147053928	0.0357216	0.12195578

CASKIN2	-0.185904323	-2.147079976	0.0357409	0.121980654
GPR108	0.270068797	2.151989009	0.0357657	0.122024478
APOH	-0.362267857	-2.1467131	0.0357868	0.122055275
VPS13C	-0.142437016	-2.154346873	0.0358168	0.122101188
NDUFAF8	0.219209436	2.145600116	0.0358329	0.122101188
TBC1D30	0.264664662	2.149376	0.0358363	0.122101188
TSPAN9	0.277569699	2.15204411	0.0358712	0.122178896
RPIA	0.325820113	2.158013531	0.0358983	0.122230346
EDEM3	0.166128008	2.148936114	0.0359126	0.122238041
KANK3	-0.26716203	-2.147567711	0.0359773	0.122417034
ZCRB1	0.13522344	2.150710554	0.0360266	0.122507277
ITIH4	-0.374912143	-2.143090148	0.0360323	0.122507277
MDN1	0.134017143	2.151658129	0.0360406	0.122507277
PPP2R1B	0.17508797	2.15291715	0.0360921	0.122643264
PSMD13	0.07811312	2.14299071	0.0361083	0.122657144
IGF2BP2	-0.571055451	-2.150658541	0.0361218	0.122661855
COX6C	0.345163816	2.146282202	0.0361558	0.122706026
H1.3	-1.068438889	-2.173922109	0.0361772	0.122706026
ATP6V0A1	0.208807519	2.145011553	0.0361813	0.122706026
RBBP5	0.113389643	2.142076157	0.0362032	0.122706026
TECPR1	-0.140809192	-2.143881773	0.0362154	0.122706026
MACROD1	0.264897105	2.156650512	0.0362162	0.122706026
CSPP1	-0.417943721	-2.163481295	0.0362194	0.122706026
FDFT1	0.285206917	2.166400692	0.0362518	0.12275749
USP30	0.181425338	2.143593188	0.0362588	0.12275749
SYNRG	-0.161269041	-2.153027407	0.0362883	0.122816507
RANBP6	0.120134699	2.140872859	0.0363476	0.122965312
CD247	-0.311287647	-2.142061607	0.0363603	0.122965312
INTS12	0.134312237	2.141031838	0.0363686	0.122965312
TOMM7	0.343793229	2.144739677	0.0363973	0.123011375
LRRC8D	-0.213970929	-2.143213946	0.0364063	0.123011375
MRPS33	0.223950301	2.14682422	0.0364558	0.123137172

ATP2B4	0.310647635	2.141652204	0.0365019	0.123251664
RPP25L	0.188252094	2.141602952	0.0365647	0.123422721
PYM1	0.151108402	2.140578052	0.0365770	0.123423235
RBMS3	-0.400789625	-2.169057499	0.0366059	0.123478377
ZBP1	-0.491302569	-2.16776682	0.0366269	0.123509459
PASK	-0.186341241	-2.138508208	0.0366401	0.123513125
ATP1A1	0.317502632	2.135105889	0.0366990	0.123670593
KRT14	0.834848822	2.148839478	0.0367829	0.123910547
RP9	0.124165414	2.139217424	0.0368539	0.124109946
CDK12	0.107577763	2.143987875	0.0368742	0.124137122
SF3B1	0.091842425	2.132889554	0.0369039	0.124195971
MRGBP	0.118262914	2.132114539	0.0369474	0.12430115
TM7SF2	0.387443308	2.140368103	0.0370021	0.124365772
PELP1	0.133090526	2.130341692	0.0370054	0.124365772
RALB	0.242530451	2.136528026	0.0370149	0.124365772
EXOSC6	0.146718609	2.130080039	0.0370156	0.124365772
HLA.C	0.384691241	2.131337503	0.0370594	0.12446678
NADK2	0.156899248	2.139393838	0.0370809	0.12446678
PTGIS	-0.541685432	-2.129970249	0.0370829	0.12446678
ARHGEF25	-0.562629394	-2.144459224	0.0371111	0.124521621
CUL9	-0.125461222	-2.130182284	0.0371637	0.124657085
MTMR12	-0.11261641	-2.139465425	0.0371799	0.124668869
MYDGF	0.213944737	2.131933968	0.0372069	0.124718211
MFSD10	0.404215789	2.128312203	0.0372702	0.124814781
DNAJC30	0.272079727	2.127120897	0.0372857	0.124814781
MTIF2	0.20066109	2.138347754	0.0372938	0.124814781
NRCAM	0.519341917	2.127321868	0.0372964	0.124814781
HACD3	0.383009586	2.13218167	0.0372968	0.124814781
CAND1	0.097751429	2.145724091	0.0373729	0.125024046
DENND1C	-0.34982236	-2.144600883	0.0373922	0.125024046
C5	-0.341289474	-2.126199768	0.0373969	0.125024046
NAPSA	-0.814652615	-2.199343216	0.0374196	0.125060683

PEPD	-0.192478477	-2.124725791	0.037477	0.125189653
NBEAL2	-0.127308008	-2.126170765	0.037482	0.125189653
MYEF2	0.192396429	2.130535028	0.037569	0.125436269
PLBD2	0.181159075	2.126886231	0.037583	0.125443362
CAPN2	-0.227618214	-2.127597427	0.037620	0.125525591
DCAF16	0.216181466	2.133263159	0.037642	0.125556251
MAP11	-0.163696992	-2.127924452	0.037658	0.125571005
CSE1L	0.133624549	2.12492155	0.037690	0.125626183
CRYAB	-0.489917425	-2.122507091	0.037714	0.125626183
KRTCAP3	0.318011541	2.131253402	0.037720	0.125626183
MRC1	-0.319086786	-2.124602883	0.037724	0.125626183
PEX6	-0.143818139	-2.129744615	0.037799	0.125834483
HSD17B11	-0.307846805	-2.121943651	0.037862	0.125935158
SERBP1	0.172909586	2.126751233	0.037865	0.125935158
B3GNT7	-0.46806209	-2.134884033	0.037878	0.125935158
MCM7	0.278356936	2.123208317	0.037881	0.125935158
COX7A2	0.365479805	2.125898408	0.037894	0.125935158
ADAT2	0.226844352	2.127388355	0.037904	0.125935158
GSK3B	0.095387162	2.120890936	0.037938	0.126006595
ARHGEF18	-0.120279492	-2.119499038	0.037957	0.126028575
LAMTOR4	-0.162566353	-2.120932121	0.037995	0.12611203
NELFA	0.115932052	2.118639371	0.038035	0.126204046
TWF2	-0.144980451	-2.122916747	0.038059	0.126216839
BEND3	0.162622293	2.13361711	0.038071	0.126216839
USP19	-0.072647876	-2.119699216	0.038076	0.126216839
IARS2	0.244583872	2.132555952	0.038093	0.126231427
GSTA3	-0.7353148	-2.155574478	0.038109	0.12624306
FDPS	0.213941034	2.124012579	0.038159	0.126367756
SNX1	-0.108396109	-2.122741024	0.038208	0.126489088
TXNIP	-0.277840414	-2.119378402	0.038311	0.12673156
ARMC10	0.201920451	2.115025304	0.038331	0.12673156
UBL5	-0.144782143	-2.115556998	0.038333	0.12673156

RNF213	-0.189717312	-2.121192677	0.0383398	0.12673156
LSM 5.00	0.353277707	2.131992595	0.0383555	0.12673156
CYCS	-0.195985447	-2.117759297	0.0383565	0.12673156
RDH11	0.249402556	2.12063965	0.0383840	0.12675468
HPS1	0.208691121	2.141793624	0.0383885	0.12675468
NABP1	-0.218743889	-2.134513354	0.0384135	0.126796053
COTL1	-0.249290977	-2.121865598	0.0384716	0.126946319
PGLS	-0.15745203	-2.129519913	0.0385519	0.127137332
STEAP1	0.333944128	2.114469459	0.0385545	0.127137332
TRMT6	0.161991936	2.121138947	0.0386045	0.127256868
ADPGK	0.190692368	2.118283899	0.0386188	0.127256868
EVI5L	-0.162792951	-2.119675689	0.0386284	0.127256868
RBPJ	0.149278496	2.131666832	0.0386442	0.127267882
WNT4	-0.488255114	-2.129423037	0.0386745	0.127321288
SP140L	-0.367326324	-2.182633454	0.0386856	0.127321288
NOC2L	0.184355075	2.114349414	0.0387014	0.127332291
AP1M1	-0.095028703	-2.113785821	0.0387330	0.127394826
CABP7	0.491965522	2.199621851	0.0387484	0.127404211
CCNB2	-0.38777347	-2.150269472	0.0387809	0.127469914
CUTA	0.162904737	2.127194077	0.0388906	0.127788974
POLE	0.188313252	2.121698522	0.0389340	0.127890118
CDCP1	0.216406053	2.116740212	0.0389474	0.12789291
RCL1	0.131363158	2.1111110548	0.0390415	0.128159021
MRPL2	0.223439756	2.114644105	0.0391235	0.128371143
ZFPL1	0.20302603	2.111280781	0.0391310	0.128371143
BDH2	-0.230513421	-2.113060764	0.0391925	0.12853121
NME1	0.302125602	2.105565397	0.0392135	0.128558784
CCSAP	-0.238516942	-2.113434337	0.0392457	0.128622719
RALGPS2	-0.346265583	-2.133398764	0.0393655	0.128972871
MIGA1	0.309560833	2.168604324	0.0394989	0.129368929
FBXO2	-0.450730188	-2.101800715	0.0395129	0.129373081
CHDH	0.258838722	2.116746975	0.0396335	0.129726211

ECSIT	-0.176118459	-2.113216901	0.039739	0.130029895
MRPS5	0.237017274	2.110132218	0.039768	0.130083574
GAK	-0.104955977	-2.100946082	0.039875	0.130392121
LSM 3.00	0.104997199	2.09859733	0.039897	0.130421929
KLHDC2	-0.115058759	-2.111501444	0.039953	0.130562644
HSPA4L	-0.343782256	-2.103322981	0.039971	0.130578317
TGS1	-0.124657068	-2.096179806	0.040073	0.130870908
UGCG	0.235813333	2.130356419	0.040186	0.131198771
ZNF460	0.214288718	2.102886875	0.040233	0.131262897
BACH1	-0.111883504	-2.095110608	0.040247	0.131262897
TMEM222	0.261145944	2.098272582	0.040248	0.131262897
ZNF618	0.15876218	2.104565169	0.040258	0.131262897
PCF11	0.08150782	2.093472534	0.040275	0.131276533
MPHOSPH6	0.14681703	2.095882047	0.040333	0.131384157
MICOS13	-0.119415996	-2.094104509	0.040334	0.131384157
RASIP1	-0.25641	-2.098461534	0.040420	0.131622987
AP2A1	-0.127021429	-2.093957421	0.040458	0.131704951
NUP93	0.080954944	2.091121281	0.040492	0.131773799
SKAP1	-0.300079515	-2.098388804	0.040536	0.131828855
ACP5	-0.235481466	-2.092876558	0.040548	0.131828855
NID2	-0.398127541	-2.091100248	0.040548	0.131828855
ASAP1	-0.171670133	-2.096249974	0.040571	0.131837044
PIKFYVE	0.110159252	2.110371175	0.040598	0.131837044
HBG1	0.622631579	2.091431906	0.040599	0.131837044
NME3	0.214203759	2.094346067	0.040603	0.131837044
NUDT21	0.099783947	2.089334485	0.040658	0.131940561
TBCB	-0.135268583	-2.090484101	0.040661	0.131940561
WDR77	0.108572951	2.092071259	0.040721	0.132053556
CCDC9B	-0.332411203	-2.090767568	0.040721	0.132053556
STEAP2	0.3188	2.116240817	0.040834	0.132376254
CFHR2	-0.43946015	-2.095530211	0.040888	0.132509148
NAT9	-0.327080273	-2.121026634	0.040919	0.132524368

SYDE1	-0.229255132	-2.090131913	0.0409220	0.132524368
PGM2	-0.155547331	-2.095821259	0.0409395	0.132524368
PLEKHD1	0.658673913	2.108696122	0.0409454	0.132524368
PNMA8B	-0.433519366	-2.110025825	0.0409732	0.132572018
SEMA4D	0.155288496	2.085207336	0.0410602	0.132797464
TRIR	0.14445532	2.088166992	0.0410690	0.132797464
SEPTIN7	-0.176717519	-2.087810211	0.0411350	0.132968477
EXOSC8	0.136399173	2.083788348	0.0411810	0.133074827
CPXM2	-0.520086124	-2.098803683	0.0413138	0.133461335
TUBA1C	-0.173345752	-2.081879154	0.0413575	0.133506847
TIA1	0.266274305	2.090410794	0.0413585	0.133506847
KDM5C	0.12924985	2.081886749	0.0413675	0.133506847
GANC	-0.280661147	-2.086936221	0.0414168	0.133566941
ENG	-0.200421936	-2.083736104	0.0414189	0.133566941
GABPB2	-0.175341316	-2.093023193	0.0414254	0.133566941
NKTR	0.10161765	2.080947483	0.0414535	0.133613558
MORC2	0.138310311	2.086899759	0.0414755	0.13364336
CCDC77	-0.207022154	-2.086800034	0.0415552	0.133857877
SLC25A17	0.254558508	2.08815807	0.0416507	0.13409752
TSEN34	0.130360921	2.091663091	0.0416565	0.13409752
TGFBR1	0.346240512	2.081691562	0.0417237	0.134223608
ZFP36L1	-0.217620414	-2.091115728	0.0417242	0.134223608
TJP1	0.111670485	2.077908193	0.0417349	0.134223608
AATF	0.173808128	2.08356506	0.0417634	0.134272686
RRAGA	-0.179383034	-2.082991757	0.0418084	0.134374768
NLRP2	-0.584642857	-2.084262431	0.0418237	0.134381506
TRIM44	-0.23991539	-2.112218681	0.0418582	0.134449709
DENND6A	-0.116958083	-2.084768148	0.0418807	0.134477672
STIM2	0.169861635	2.076556449	0.0419167	0.134552467
TASOR2	0.089422049	2.087819827	0.0419336	0.134564308
NUDT16L1	-0.146140643	-2.075500164	0.0419955	0.134719584
CCNC	0.196452222	2.080703887	0.0420838	0.134960716

LURAP1L	-0.244615213	-2.086730499	0.0421338	0.13507849
WNT11	0.609576535	2.110452247	0.0422116	0.13524396
MAN1B1	0.226547575	2.077184637	0.0422238	0.13524396
NTN4	-0.343254323	-2.077670181	0.0422254	0.13524396
YWHAZ	-0.167434004	-2.073870353	0.0422633	0.135322706
PRKRIP1	0.128729718	2.077074873	0.0424761	0.13592302
FSCN1	0.378359962	2.104502355	0.0424776	0.13592302
ABHD6	0.323256391	2.097617276	0.0425233	0.13602652
UBE3C	0.105696372	2.072453274	0.0426909	0.136479829
GRAMD2B	0.258180977	2.068269275	0.0426919	0.136479829
NPEPPS	-0.096989064	-2.070688127	0.0427875	0.136742397
MED28	0.143974222	2.066801173	0.0428036	0.136750768
WIZ	0.104184853	2.066872284	0.0428474	0.136847562
SYNJ2	-0.152202538	-2.068231015	0.0428692	0.136874052
JUP	0.236516936	2.073660011	0.0429824	0.137156908
SCGB1A1	-0.682318857	-2.069287836	0.0429848	0.137156908
PLEKHA5	0.258693233	2.064064009	0.0430784	0.137412286
INPP4A	-0.138490808	-2.065562703	0.0431116	0.137473117
PRRC2A	0.085722556	2.06429527	0.0431543	0.137568181
HMCES	0.149858344	2.064397492	0.0431766	0.137593988
UBXN2B	-0.143931391	-2.070989903	0.0432157	0.137677245
ADAM8	-0.385330855	-2.075926186	0.0432547	0.137751109
GPR84	-0.481265	-2.105970544	0.0432666	0.137751109
NSMCE3	0.158620489	2.065377262	0.0433039	0.137812836
PTER	-0.309538158	-2.072472375	0.0433126	0.137812836
EIF3I	-0.097234267	-2.070953469	0.0433662	0.137940396
MNS1	-0.536011222	-2.092628685	0.0433988	0.138000718
DFFB	0.206917613	2.068915989	0.0434432	0.138098706
ESD	-0.200146297	-2.065758012	0.0435232	0.138309689
BUD31	0.121984436	2.059242024	0.0435504	0.138351115
ARFGEF1	-0.127143383	-2.059086974	0.0435639	0.138351115
DDX51	0.113133083	2.059853638	0.0435939	0.138404461

PBDC1	-0.109607763	-2.059864637	0.0436424	0.138515081
UBE2V2	-0.178290199	-2.058427381	0.0436672	0.138550455
RRS1	0.335186015	2.078200367	0.0436908	0.138554428
FRMD4B	-0.248397017	-2.060901869	0.0436958	0.138554428
F2	-0.326674925	-2.055878026	0.0438788	0.139074848
NT5E	0.492077538	2.063236739	0.0438875	0.139074848
UPRT	-0.148507124	-2.059857267	0.0439099	0.139103127
LYSMD3	-0.17987991	-2.062514083	0.0439488	0.139182823
AGTR2	-1.023923249	-2.088105494	0.0440741	0.139536126
PAK1IP1	0.171099098	2.055945471	0.0442228	0.139963201
CNTNAP1	-0.217367081	-2.059077645	0.0442533	0.140009008
IP6K1	-0.098232684	-2.061450446	0.0442649	0.140009008
COMMD6	-0.254813365	-2.074306639	0.0442801	0.140010809
LAMA4	-0.442707519	-2.051935872	0.0443041	0.140010809
SERPINA10	-0.234987639	-2.052121831	0.0443068	0.140010809
NSUN2	0.099044417	2.051958414	0.0443235	0.140019834
RAD23B	0.147757613	2.051061664	0.0444350	0.140328363
NEDD9	-0.167541992	-2.057305504	0.0445662	0.140698906
ABL2	0.193670226	2.062235936	0.0446069	0.140754403
RUVBL2	-0.20147203	-2.050242003	0.0446343	0.140754403
SLC27A6	-0.457331502	-2.048317534	0.0446421	0.140754403
CHSY1	0.180437068	2.058428267	0.0446526	0.140754403
SLC29A1	0.368328333	2.054769637	0.0446669	0.140754403
CARD19	0.164375789	2.063533088	0.0446669	0.140754403
HSPG2	-0.340112256	-2.047717261	0.0446982	0.140783438
CNTRL	-0.224612124	-2.04829571	0.0447075	0.140783438
CPQ	-0.30363815	-2.052451057	0.0447178	0.140783438
NVL	0.167511128	2.051421115	0.0447409	0.14081245
SH2B1	-0.10894037	-2.05226318	0.0449321	0.141372519
SEL1L3	0.252249831	2.045080787	0.0449945	0.141522926
LRG1	-0.348108214	-2.045137583	0.0450471	0.141623769
GLB1	-0.180955376	-2.044708271	0.0450544	0.141623769

MLST8	-0.087719222	-2.044046908	0.0450820	0.141666401
MYL9	-0.695352876	-2.043384982	0.0451375	0.141750003
INTS8	0.106800488	2.045522967	0.0451433	0.141750003
TMEM43	0.281827521	2.043874692	0.0451505	0.141750003
SEN3	0.124843684	2.042608176	0.0452166	0.141913635
APOM	-0.303668816	-2.042234179	0.0452615	0.141969236
DAP3	0.204288609	2.043193748	0.0452647	0.141969236
DHX9	0.129173107	2.046104298	0.0452852	0.141969236
CNTN1	0.435843553	2.063706784	0.0452902	0.141969236
ZC3H7A	-0.092983342	-2.047060906	0.0453062	0.141975554
HAX1	0.182081842	2.042163296	0.0453779	0.142156213
CHAMP1	0.149889004	2.041310633	0.0453994	0.142179648
SERPIND1	-0.338593421	-2.040350424	0.0454475	0.142261027
HDDC2	0.237264868	2.058685659	0.0454534	0.142261027
C1QTNF6	0.367034173	2.03930203	0.0455719	0.142570349
FUBP1	0.126795583	2.040610286	0.0455803	0.142570349
ELOF1	-0.124369267	-2.038925249	0.0456094	0.142586777
KCTD9	-0.13686297	-2.040251517	0.0456137	0.142586777
LRRC41	0.128918158	2.038728801	0.0456283	0.142588685
SFPQ	0.10615718	2.038078417	0.0456957	0.142746072
BCOR	0.129477068	2.062446321	0.0457068	0.142746072
ABHD12	0.232786767	2.038268399	0.0458160	0.143043071
ATPAF2	0.184393534	2.048173105	0.0458443	0.143087388
BRK1	-0.11084597	-2.036689542	0.0459128	0.143257171
MGST3	0.562169173	2.053149188	0.0459360	0.143285515
RAB13	0.249717481	2.040603316	0.0459613	0.14332028
BRAT1	0.126394286	2.040196256	0.0460012	0.143400593
GNL3L	0.114658515	2.036201909	0.0460347	0.143461145
ZBTB1	0.15472391	2.057913088	0.0460850	0.143533362
AP3M1	-0.101192173	-2.034689421	0.0460862	0.143533362
PLXNC1	-0.210075959	-2.038872713	0.0461573	0.143707265
STIM1	0.236979329	2.038457671	0.0461703	0.143707265

ZDHC17	0.137387594	2.038612573	0.0462075	0.14376986
GSTCD	0.118730583	2.040108438	0.0462188	0.14376986
WHAMM	-0.202176061	-2.060777273	0.0462335	0.143770307
RECK	-0.307903759	-2.037809669	0.0463238	0.144008142
FBXW5	-0.195318327	-2.030984743	0.0464204	0.144264479
RPL37	0.392625771	2.051538043	0.0464558	0.144330365
EHMT2	0.086918158	2.030200717	0.0465008	0.144425738
RGS19	-0.250129002	-2.03224809	0.0465446	0.144491516
VNN 1.00	-0.380513017	-2.031888817	0.0465504	0.144491516
IFT27	-0.286050639	-2.033979775	0.0465740	0.144520562
MMP10	-0.590847744	-2.029903921	0.0466310	0.144653043
ABHD5	-0.246907771	-2.02907602	0.0466469	0.144658291
LPIN1	0.282362218	2.048733582	0.0466757	0.144703493
ELAC2	0.134035094	2.031984281	0.0466978	0.144727802
FOXJ3	0.237160451	2.029677331	0.0467437	0.144789262
MPP5	0.11835532	2.042400154	0.0467462	0.144789262
SPATA13	-0.14199491	-2.027356011	0.0467979	0.144890245
ZC3H4	0.087086595	2.027403657	0.0468074	0.144890245
PML	-0.171381391	-2.027872796	0.0468787	0.145066872
SEMA7A	0.29595	2.039848285	0.0469377	0.145203229
HMGXB4	0.126316635	2.028821068	0.0469589	0.145226529
TAMM41	0.18808609	2.028080643	0.0469864	0.145267168
FLNB	-0.173296767	-2.031655163	0.0470698	0.145480914
PSPH	-0.22836109	-2.024236651	0.0471270	0.145561031
PGM2L1	-0.224294605	-2.02562191	0.0471375	0.145561031
BLOC1S6	-0.165557594	-2.030649312	0.0471388	0.145561031
MELTF	-0.259611842	-2.028482361	0.0471707	0.145582398
ERP44	0.147393919	2.027164261	0.0472007	0.145582398
USP54	0.199692622	2.036227523	0.0472022	0.145582398
TGM3	0.617838949	2.059167074	0.0472037	0.145582398
TLN2	-0.226179079	-2.033406965	0.0472818	0.145760039
MAP3K6	-0.192318013	-2.023034619	0.0472960	0.145760039

PHF14	0.079733628	2.023206885	0.0473038	0.145760039
USP34	0.070687086	2.036294525	0.0473718	0.14592543
RBM28	0.20035909	2.039014437	0.0473894	0.145935268
CFH	-0.301795865	-2.022713872	0.0475328	0.146332625
ICA1	0.192153853	2.02912616	0.0477838	0.147060582
CUL4A	0.082040936	2.018038789	0.0478307	0.147160301
PPP6C	-0.131441056	-2.018527118	0.0478910	0.147301144
PRKG1	-0.453133647	-2.017061716	0.047973	0.147497074
XRN2	0.096794812	2.017633554	0.0479915	0.147497074
THUMPD2	0.248208191	2.04025751	0.0479985	0.147497074
GSTA1	-0.58306698	-2.022980156	0.0480964	0.147753817
APEX1	0.144356335	2.023631767	0.0481197	0.147780819
CIB1	-0.242560714	-2.021711229	0.0481872	0.147943308
RFT1	0.240496617	2.016874947	0.0482085	0.14796393
PDE1B	-0.449441731	-2.048963465	0.0482595	0.148074994
SUPV3L1	0.186528158	2.017106382	0.048282	0.148100239
RPS6KB1	-0.116465038	-2.013075405	0.048317	0.148162829
AIFM2	0.262351466	2.025856956	0.0483355	0.148173959
ADSS1	-0.304144474	-2.028334734	0.0483995	0.148314304
MTMR1	-0.096962143	-2.016226311	0.0484188	0.148314304
CFAP77	-1.325526515	-2.174569216	0.0484249	0.148314304
SORBS1	-0.640168139	-2.011573805	0.0484795	0.148437719
ABL1	-0.120694549	-2.010794527	0.0485665	0.148621678
GTDC1	0.127124887	2.015725291	0.0485692	0.148621678
ABCE1	0.080276786	2.012874978	0.0486085	0.148696536
IGFBP4	-0.361367481	-2.010700768	0.0486282	0.14869925
KCTD14	0.374348496	2.012756721	0.0486385	0.14869925
SFT2D2	0.358766195	2.015759665	0.0486795	0.148747547
MLPH	-0.255410244	-2.009931649	0.0486895	0.148747547
TAOK1	0.098732556	2.017367894	0.0486985	0.148747547
KHDRBS3	0.296450808	2.016999365	0.0487638	0.148902849
TCTEX1D2	-0.353576987	-2.017660293	0.0488927	0.149251563

NAIP	-0.256939662	-2.013658419	0.0489378	0.149344162
DERL1	0.268266053	2.009299467	0.0489735	0.149366103
FAP	-0.354176692	-2.01246874	0.0489744	0.149366103
UTP4	0.143623951	2.023964201	0.0490935	0.149683266
PNPT1	0.232170169	2.01763428	0.0491245	0.149711515
RPSA	0.09288765	2.006393925	0.0491367	0.149711515
SCLY	-0.194670695	-2.01055083	0.0491584	0.149711515
NOM1	0.178136214	2.009417982	0.0491614	0.149711515
NPM3	0.279317951	2.010265338	0.0492092	0.149812299
LOXL3	-0.624100534	-2.033095446	0.0492618	0.149927252
ZFC3H1	0.071004737	2.006768425	0.0492862	0.149956767
MAN2C1	-0.150860658	-2.007822522	0.0493720	0.150172783
NKAPD1	0.125468797	2.006949259	0.0494906	0.150452689
LIPA	-0.302300883	-2.005162885	0.0494935	0.150452689
ANKIB1	0.09359485	2.007393197	0.0495804	0.150653031
LDHD	-0.390719771	-2.003381547	0.0495895	0.150653031
TGIF1	0.154324173	2.004103382	0.0496342	0.150744476
CCDC86	0.148678233	2.011520094	0.0497345	0.151003899
MRPL44	0.217073835	2.002155338	0.0497512	0.151009303
UTP3	0.168809453	2.01416947	0.0499960	0.151707032
TM7SF3	0.301875771	2.004156596	0.0500898	0.151934138
AMD 1.00	-0.260680263	-2.02247264	0.0501008	0.151934138
SNRPD3	0.145613609	1.996200832	0.0501905	0.152159625
GAS7	-0.265223684	-2.003002231	0.0503180	0.152501724
NFATC4	-0.224717722	-1.99862269	0.0503420	0.152517434
SLC35A5	0.275406667	2.030617356	0.0503532	0.152517434
CALD1	-0.573200263	-1.994958393	0.0504045	0.152625858
APH1A	0.26798733	2.001943839	0.0504666	0.152730727
ZFX	0.336993137	2.035322148	0.0504688	0.152730727
ZGPAT	-0.108037895	-2.000818713	0.0504925	0.152755751
ASL	-0.234768083	-2.002324089	0.0506579	0.153211604
CA8	0.410821748	1.992102729	0.0506975	0.153284471

CYLD	-0.167187876	-1.999747993	0.050728	0.153332489
DNAAF4	-0.509938333	-2.041632943	0.050758	0.153378282
SLC44A3	0.351259962	2.004581008	0.050880	0.153686501
FKBP8	0.125563408	1.99081314	0.050890	0.153686501
AGTRAP	-0.270178571	-1.992637112	0.050925	0.153747323
ILRUN	-0.126131515	-1.990857879	0.051037	0.154037542
BTF3L4	-0.137621707	-1.988185802	0.051095	0.154168812
SAMD4B	-0.113330545	-1.988380412	0.051125	0.154210808
AHNAK2	-0.410007594	-1.992037164	0.051166	0.154289075
PFKM	-0.303258214	-1.995262794	0.051203	0.154325758
GDAP1	0.247095489	1.986980798	0.051208	0.154325758
SERPINA1	-0.366078327	-1.987567579	0.051243	0.154382809
TMEM11	0.145090414	1.989694228	0.051258	0.154382809
HEBP1	-0.223941955	-1.99067149	0.051414	0.154806726
ZNF48	0.273824231	1.986711363	0.051503	0.155028469
SNW1	0.104144549	1.984299493	0.051534	0.155076516
ARHGAP6	-0.446201316	-1.986435319	0.051571	0.15514257
RPS14	-0.234213402	-1.997695945	0.051632	0.155244447
BACE2	0.229241723	1.9875445	0.051649	0.155244447
GTPBP8	0.21196203	1.985477488	0.051651	0.155244447
PDIA2	0.697761767	2.002601127	0.051688	0.155309649
NDUFB10	0.158006297	1.984633474	0.051706	0.155319695
DDX19A	-0.140767613	-1.98660048	0.051814	0.155595775
COL6A1	-0.388331241	-1.982180611	0.051856	0.155677201
TNPO2	0.086458496	2.003816774	0.051873	0.155681448
MYO3B	0.242745301	1.980588107	0.051942	0.155843445
TULP3	-0.17940609	-1.991663324	0.051988	0.155920398
INIP	0.191066316	1.989461131	0.051999	0.155920398
BORCS6	-0.110377105	-1.98863259	0.052031	0.15597071
SLC25A35	0.531117105	1.989326663	0.052047	0.155973136
PLCG1	0.148650404	1.99042589	0.052077	0.156017549
NCLN	0.229983083	1.978992571	0.052125	0.156115597

SNRNP200	0.083763797	1.979267988	0.0521679	0.156196098
RSL24D1	0.245760526	1.981656899	0.0522284	0.156287442
ATP6V1E1	-0.150740692	-1.979513067	0.0522328	0.156287442
ALPG	-0.887614241	-1.979967384	0.0522464	0.156287442
ACAD8	0.217630221	1.982037083	0.0522600	0.156287442
RTN3	0.310357331	1.980918858	0.0522886	0.15632687
ARHGAP18	-0.222107556	-1.977862908	0.0523444	0.156447554
USP13	-0.178293459	-1.990422459	0.0523624	0.156455415
DCTPP1	0.217199267	1.976947207	0.0524017	0.156526829
ACTA1	-0.732637573	-2.006328718	0.0524399	0.156594755
RRAS2	0.230533985	1.981500683	0.0525301	0.15677429
PLPP3	-0.330938609	-1.976770412	0.0525309	0.15677429
RIPK3	-0.271339718	-1.979625237	0.0526114	0.156968347
PSMA1	0.087430545	1.977880812	0.0526599	0.157065794
ESM1	0.373235441	1.992615404	0.0527222	0.157175303
AGFG1	-0.094137921	-1.976091851	0.0527272	0.157175303
LRP11	-0.274360693	-1.989367222	0.0527802	0.157286907
PLEKHG5	-0.449290909	-2.105675269	0.0528081	0.157323858
MCM3	0.282399643	1.973783082	0.0529117	0.157586296
QTRT2	0.139124086	1.982765894	0.0529481	0.157633276
ARHGAP21	-0.136850695	-1.980715998	0.0529662	0.157633276
DEK	0.177317237	1.974643906	0.0529740	0.157633276
TRIM3	-0.164532726	-1.970968248	0.0530674	0.157864899
BYSL	0.121582011	1.974247721	0.0530889	0.157882342
RNF141	0.195401913	1.985895579	0.0532009	0.158169232
SPRR2D	1.248650855	1.995639862	0.0532449	0.158253773
C1orf52	-0.117833459	-1.980569467	0.0532776	0.15830435
ABCB10	0.200833308	1.983190821	0.0534250	0.158696067
IGLL5	-0.437247932	-1.968666721	0.0534679	0.158776882
FAM50B	-0.269384349	-1.986838289	0.0535044	0.158838992
CRELD2	0.224217547	1.968215288	0.0535589	0.158954119
ZC3H13	0.102329323	1.970459028	0.0536091	0.159051495

SDSL	-0.26800703	-1.969824862	0.0536230	0.159051495
SORCS2	-0.38074	-1.987697982	0.0536550	0.159058705
ATF6	0.186664714	1.981924122	0.0536568	0.159058705
PRC1	0.202048583	1.975375888	0.0536877	0.159073487
MLLT1	0.168787406	1.96682207	0.0536931	0.159073487
ERN 1.00	0.208240602	1.96509319	0.0538406	0.159463919
RESF1	-0.169815131	-1.987489552	0.0539150	0.159619292
TCEA1	0.126214925	1.96359497	0.0539245	0.159619292
MAPKBP1	-0.174752323	-1.963120934	0.0539835	0.159747319
RMI1	0.155011036	1.965016825	0.0540141	0.159784857
TMEM39A	0.194484242	1.973822884	0.0540277	0.159784857
PGAP6	0.260566616	2.002058059	0.0542268	0.160326868
LYRM9	-0.223032838	-1.969527948	0.0542602	0.160378909
CYBC1	0.218096391	1.96052624	0.0543066	0.160469308
CYTH3	-0.236228617	-1.971275636	0.0544117	0.160733185
APOO	0.217697218	1.967582642	0.0545461	0.161040999
METTTL14	0.096770523	1.958839348	0.0545476	0.161040999
RETREG2	0.210821805	1.959120807	0.0546228	0.161216026
BOLA2	-0.16526235	-1.959637658	0.0546522	0.161255838
HGSNAT	0.225127404	1.966576198	0.0548208	0.161680968
VTI1A	0.183677895	1.96574364	0.0548281	0.161680968
NSUN4	0.24008782	1.9596426	0.0548570	0.161719194
TCOF1	0.15314594	1.95506429	0.0550494	0.162170228
WWP2	-0.136298045	-1.960767163	0.0550497	0.162170228
NDUFA4	0.314901692	1.95999219	0.0550579	0.162170228
FPGS	-0.157256579	-1.9631286	0.0551531	0.162344667
STAG2	0.102359098	1.95332522	0.0551617	0.162344667
RPL10A	0.115779737	1.953438656	0.0551651	0.162344667
MEF2C	-0.417797879	-1.989767118	0.0551963	0.162389117
N4BP1	-0.115574053	-1.953045617	0.0552180	0.162396524
AARS1	-0.144912049	-1.958555146	0.0552341	0.162396524
FGFR1OP	-0.176837143	-1.959629105	0.0552468	0.162396524

BTN2A1	0.283885011	1.953950136	0.0553475	0.162645602
NPHP1	-0.284218149	-1.959982214	0.0553812	0.16265397
H1.4	-0.704828008	-1.963182416	0.0553824	0.16265397
ATP5ME	0.312999474	1.955365476	0.0554866	0.162912885
SH3GL2	-0.451100568	-1.978932584	0.0555175	0.162956379
DUSP23	0.308076128	1.965573409	0.0555554	0.162977561
HP	-0.466181955	-1.952780432	0.0555675	0.162977561
FUT11	0.169324474	1.959411322	0.0555729	0.162977561
CMTM4	0.285675658	1.950751041	0.0555920	0.162986435
FXR2	0.088695564	1.963292649	0.0556300	0.163015406
MBLAC2	0.156205226	1.957879099	0.0556340	0.163015406
MYO5A	-0.1989175	-1.959691004	0.0556534	0.163025264
ABCB8	0.171658083	1.951039302	0.0557395	0.163210638
NDRG2	-0.285091353	-1.956387011	0.0557488	0.163210638
TWF1	-0.155893045	-1.949652208	0.0558375	0.163353268
BUD13	0.09070403	1.949164225	0.0558507	0.163353268
SART3	0.116471805	1.94940949	0.0558554	0.163353268
NQO2	-0.325004361	-1.952715441	0.0558818	0.163353268
TSTD1	0.26578703	1.957202526	0.0558908	0.163353268
ETF1	-0.088573534	-1.950506941	0.0558945	0.163353268
RBMS2	-0.164542556	-1.951868351	0.0560715	0.163824452
UBE2M	-0.090004906	-1.946738762	0.0562505	0.164273643
ISG20L2	0.173791524	1.948224295	0.0562576	0.164273643
CARD10	-0.268259722	-1.969824272	0.0562986	0.164346097
OGA	0.161224812	1.947694827	0.0564266	0.164672332
IRF4	-0.517630769	-1.975445054	0.0564520	0.164679165
JAM2	-0.459223333	-1.984226145	0.0564614	0.164679165
WDR75	0.137083711	1.954591114	0.0564795	0.164683624
NATD1	-0.219550069	-1.951575385	0.0565485	0.164839104
CDH11	-0.225753402	-1.947338789	0.0566205	0.165000476
NRDE2	0.109015752	1.942304362	0.0566759	0.165115075
POMGNT2	-0.253943041	-1.951662995	0.0566989	0.165134607

ZCCHC14	-0.300121667	-1.998721544	0.0567418	0.165194521
CCAR1	0.09322782	1.940985354	0.0567520	0.165194521
EIF4ENIF1	0.07918207	1.941650241	0.0567887	0.165208369
FAM83E	-0.432076353	-1.950408373	0.0567895	0.165208369
AP3S1	-0.115825263	-1.94821549	0.0568310	0.16528233
MSMO1	0.321649624	1.953226175	0.0568959	0.165339441
SAP30L	0.160426128	1.940215962	0.0569337	0.165339441
ABT1	0.14549985	1.948154636	0.0569354	0.165339441
PLOD3	0.168672105	1.944918757	0.0569580	0.165339441
NSD1	-0.152498722	-1.939596875	0.0569594	0.165339441
GNL3	0.190283872	1.943625893	0.0569808	0.165339441
KPNA3	-0.112260338	-1.939810874	0.0569898	0.165339441
NUMBL	-0.229422669	-1.946919661	0.0569994	0.165339441
MST1	-0.366399684	-1.945027924	0.0570058	0.165339441
MRPS24	0.185926391	1.945261747	0.0570136	0.165339441
SMG7	0.115716541	1.947342743	0.0570745	0.165467665
MBD4	-0.159099831	-1.946057786	0.0573478	0.166213929
SPRY1	-0.322001316	-1.940401971	0.0573864	0.166278071
GNAI3	0.170724023	1.939172982	0.0574455	0.166361042
OPHN1	-0.194425124	-1.935753662	0.0574478	0.166361042
PRKAA1	-0.127812086	-1.942122781	0.0575746	0.166678404
TIPIN	0.268030263	1.935435378	0.0575902	0.166678404
GZMK	-0.386333109	-1.960329843	0.0577408	0.1670665
MUTYH	0.3877188	1.949914932	0.0578714	0.167385596
FBXW11	-0.163692105	-1.931623639	0.0578840	0.167385596
MAN2B1	-0.14265782	-1.933101886	0.0580097	0.167701158
CDKN1B	-0.37411812	-1.940431539	0.0580309	0.1677147
ACP1	-0.262565996	-1.93693534	0.0581026	0.167874176
SEC23B	0.128983402	1.93105508	0.0581820	0.168055594
MYH14	-0.26627547	-1.934068539	0.0582632	0.168227228
TMEM205	0.261925754	1.928160135	0.0582745	0.168227228
ABHD14B	-0.233135902	-1.944141599	0.0583071	0.168247551

TOX4	0.112934154	1.929553992	0.058324	0.168247551
LIME1	-0.504611429	-1.934656676	0.0583408	0.168247551
CXCL12	-0.366807556	-1.932612816	0.0583479	0.168247551
DNAJB4	-0.240180263	-1.927723828	0.0584226	0.168399237
UBXN11	-0.629576989	-2.004242872	0.0584474	0.168399237
TAB2	-0.157764398	-1.928696103	0.0584502	0.168399237
KIFAP3	-0.136717932	-1.930637174	0.0586149	0.168825829
PET117	0.303159925	1.925444653	0.0587026	0.16902781
MSR1	-0.252002808	-1.924669445	0.058736	0.16902781
RTRAF	0.106748214	1.926657658	0.058765	0.16902781
AQR	0.085876079	1.924354468	0.058770	0.16902781
ITPRIP	0.236991391	1.926002085	0.0587734	0.16902781
SH3GL1	-0.109065489	-1.924772452	0.0587952	0.16902781
PATJ	0.127712556	1.937520573	0.0588016	0.16902781
JMJD4	-0.200118065	-1.934008294	0.058936	0.169366989
CPN2	-0.299319549	-1.923399939	0.058968	0.169411995
ATP6V1A	-0.12385156	-1.921976678	0.0590719	0.169660619
TBC1D2	-0.207982256	-1.922025348	0.059282	0.170187931
SELENOF	0.12290594	1.922597478	0.059289	0.170187931
PSMC5	0.068380124	1.920036557	0.0594246	0.170514815
FOXO3	-0.129659962	-1.924305588	0.059436	0.170514815
ZNF282	0.180900726	1.926336519	0.059496	0.170638449
MED1	0.085301361	1.918095577	0.0595775	0.170822763
AS3MT	0.375013004	1.930461332	0.0596599	0.171010522
EMD	0.177264737	1.917281188	0.059732	0.171141651
SH3GLB2	-0.149403015	-1.917071691	0.059739	0.171141651
EIF2B4	-0.081022808	-1.920263577	0.0597909	0.171241092
BRWD1	-0.148226767	-1.921785683	0.0598088	0.171243848
TUBE1	-0.184475256	-1.927657069	0.0598279	0.171250304
CP	-0.338804098	-1.918349145	0.059905	0.171423016
TRIM22	-0.229631767	-1.917366773	0.059965	0.171548104
PPFIBP2	0.128590124	1.921223534	0.060026	0.171674403

WDR45B	-0.10203637	-1.914376326	0.060045	0.171678484
XAB2	0.102686954	1.913842496	0.060156	0.171909926
VDR	-0.397651842	-1.91521768	0.060160	0.171909926
AFAP1	-0.238233966	-1.913277284	0.060266	0.1721221
FAM234A	0.154120075	1.915664149	0.060268	0.1721221
PLEKHM2	-0.117648553	-1.914125068	0.060353	0.172287298
YIPF4	0.217374887	1.915519055	0.060359	0.172287298
RCC2	0.15213703	1.913436471	0.060429	0.17243678
RIN2	-0.16271797	-1.910588259	0.060586	0.172835488
TSPAN11	0.371248355	1.915560785	0.060623	0.172873143
CCDC85C	-0.158602462	-1.915021716	0.060648	0.172873143
SEH1L	0.081417444	1.914463519	0.060650	0.172873143
CKAP2	0.231537782	1.912566007	0.060754	0.173120529
COX7C	0.354807914	1.912126888	0.060911	0.173521114
CCDC93	-0.075786009	-1.908627455	0.060967	0.173629458
HNRNPD	0.130818645	1.907877274	0.061019	0.173728952
ATP5IF1	-0.25954428	-1.907200778	0.061044	0.173751842
WRNIP1	0.098724511	1.906418725	0.061122	0.173925949
C3	-0.350408083	-1.909108795	0.061140	0.173927164
CHST12	-0.24734385	-1.933232832	0.061197	0.174040516
WDR44	-0.139335602	-1.910690556	0.061256	0.174161043
RAPGEF6	-0.074520921	-1.911532932	0.061293	0.174217037
MRPL24	0.18262188	1.907918287	0.061398	0.174443455
SARDH	-0.263145865	-1.917787638	0.061407	0.174443455
C9orf72	0.127963722	1.905753704	0.061459	0.174543115
NOL12	0.17495016	1.929647726	0.061510	0.174637515
ST14	0.174827105	1.904593602	0.061561	0.174703439
CRACR2A	-0.278160564	-1.906081515	0.061567	0.174703439
MCM6	0.266950188	1.903461204	0.061648	0.174883283
MED14	0.072949327	1.902471886	0.061676	0.174912984
LYVE1	-0.320214416	-1.911745029	0.061720	0.174968709
WDHD1	0.234367669	1.909714059	0.061730	0.174968709

AAMDC	0.175579511	1.901534083	0.0617584	0.174999517
FER	-0.145752632	-1.900816378	0.0618945	0.175295054
PHF3	0.090259248	1.900655242	0.0618988	0.175295054
PSMD10	-0.142611617	-1.909550884	0.0619230	0.175295054
NANP	-0.142189098	-1.903373263	0.0619485	0.175295054
MED23	0.07014094	1.900007544	0.0619490	0.175295054
WDR46	0.143069549	1.913734092	0.0619784	0.175329264
IRF2BP2	0.123527782	1.899878689	0.0620084	0.175365357
STAT5B	-0.213110526	-1.903621094	0.0622476	0.175992526
FAM83G	0.235400752	1.914693786	0.0623446	0.176217811
TMEM126B	0.228895363	1.90730811	0.0623785	0.176265085
FAAH2	-0.326205	-1.922436655	0.0624545	0.176429096
TRMU	0.189571786	1.905310154	0.0625095	0.176536415
LTBR	0.210878947	1.895991898	0.0625415	0.176578903
SERPINA3	-0.426428271	-1.898582077	0.0626295	0.176775826
MRPS27	0.18647985	1.903457276	0.0627212	0.176941134
SDF2	0.145846169	1.898051195	0.0627340	0.176941134
PAFAH1B3	0.174578248	1.89669821	0.0627400	0.176941134
PDCD11	0.146702556	1.901808188	0.0628288	0.177142549
CASKIN1	-0.275189907	-1.919768172	0.0628645	0.17719398
ZNHIT2	-0.131843797	-1.900449127	0.0629256	0.17731695
SART1	0.092541168	1.89251493	0.0629755	0.177408262
SNAP23	0.169580357	1.901428715	0.0629934	0.177409367
KRT1	0.457181741	1.903616396	0.0630303	0.177463984
WBP2	-0.201341917	-1.893551015	0.0631352	0.177710027
WWC1	-0.135729323	-1.892220803	0.0631799	0.177786683
FAM171A2	0.284031579	1.901092339	0.0631992	0.177791711
RNASEH1	0.130119323	1.900949905	0.0632202	0.177801563
RABGGTA	-0.103913891	-1.890345671	0.0632599	0.177863984
AP3B1	-0.074778722	-1.889020607	0.0634286	0.178288765
NEK4	-0.114271805	-1.895871442	0.0634745	0.178367783
DDX52	0.140824192	1.895817279	0.0635154	0.178398324

NCOA6	0.086057068	1.890496683	0.0635203	0.178398324
MTA1	0.129554962	1.888300417	0.0635768	0.178507473
TNFAIP1	0.3152879	1.905819859	0.0637089	0.178829162
PSD3	-0.195678226	-1.887806787	0.0637272	0.178830863
ZMYM4	0.119293051	1.88577164	0.0638799	0.179165936
PTPRE	0.281042481	1.906138718	0.0638958	0.179165936
LARS1	0.112759301	1.888361904	0.0639074	0.179165936
SMARCC1	0.145263553	1.886075808	0.0639212	0.179165936
NR4A1	0.462991551	1.896256741	0.0639348	0.179165936
MASTL	0.221353835	1.896741481	0.0639557	0.179175019
FBXL8	-0.24372594	-1.887949735	0.0640629	0.179425706
SMARCA1	0.147470415	1.886483322	0.0641176	0.179529371
DRG2	-0.118571805	-1.896828724	0.0641940	0.179661139
AADAT	0.374524323	1.884325522	0.0642000	0.179661139
ASNS	-0.235375752	-1.885043305	0.0642197	0.179664812
SDHAF3	0.266117105	1.885565108	0.0643387	0.179948222
SCML2	-0.33552703	-1.887445433	0.0643680	0.179982321
FTL	-0.351545865	-1.893823904	0.0643916	0.179998753
NSMAF	-0.107031241	-1.882617411	0.0644236	0.180038603
TBC1D20	0.137973383	1.886101048	0.0645390	0.180294992
C9orf40	0.4489	1.900477604	0.0645509	0.180294992
APOD	-0.329452368	-1.880890826	0.0645759	0.18031532
GRK5	-0.256595054	-1.923571496	0.0647467	0.180742366
C1orf43	0.232101692	1.890000131	0.0648373	0.180945661
BTBD9	-0.220541081	-1.88910421	0.0648882	0.181037733
HSPB6	-0.637479511	-1.879473469	0.0649210	0.181079724
FBLN2	-0.395221053	-1.883961051	0.0649678	0.181151108
TMEM258	0.271273965	1.882078891	0.0649823	0.181151108
ITPA	-0.169158515	-1.877797525	0.0650098	0.181177796
AQP1	-0.265594553	-1.885074348	0.0650443	0.181205241
CGN	-0.177635113	-1.87812332	0.0650553	0.181205241
RGS12	-0.119069342	-1.879814284	0.0650732	0.181205241

ZNF462	0.156858715	1.879019795	0.0652636	0.181645275
PIP5K1C	-0.191066034	-1.876069295	0.0652670	0.181645275
C8orf82	0.18102109	1.876053795	0.0652870	0.181651328
SCPEP1	-0.260239286	-1.883512389	0.0653665	0.181768655
WDR20	-0.120889383	-1.901884341	0.0653975	0.181768655
SF3B6	0.096988759	1.879506432	0.0654094	0.181768655
NOP14	0.170603714	1.885779011	0.0654105	0.181768655
DCTN3	-0.125336771	-1.876956172	0.065445	0.181768655
NDUFB7	0.226654699	1.87438862	0.0654546	0.181768655
SLC7A6	0.396072126	1.883262485	0.0654685	0.181768655
GAN	0.21316438	1.884861569	0.0654725	0.181768655
CD99L2	-0.229771259	-1.879294457	0.0656112	0.18210383
CTIF	-0.179154023	-1.873081747	0.0656514	0.182165848
LAMTOR2	-0.111093895	-1.874954876	0.0657104	0.18227958
CCDC173	-0.612712088	-1.928838323	0.0657717	0.182394046
FAM20C	-0.291828139	-1.887902761	0.065788	0.182394046
IMPA2	-0.327705019	-1.87249267	0.0658140	0.182394046
SLC30A5	0.215852293	1.876278412	0.0658235	0.182394046
SYPL1	0.223459692	1.882211616	0.0658655	0.182460474
VAX2	0.567855452	1.917673658	0.0659185	0.182547761
RASSF1	-0.166694173	-1.875233159	0.0659330	0.182547761
GPX3	-0.48372391	-1.872631089	0.0659820	0.182633763
TPP2	-0.094124962	-1.875112931	0.066075	0.182808016
MB	-0.487134962	-1.878248196	0.0660810	0.182808016
RASSF4	-0.186633195	-1.873577695	0.066143	0.182930078
GNG7	-0.389258647	-1.87599632	0.0661722	0.182949467
PKP3	0.232623647	1.877701736	0.0661972	0.182949467
NCALD	0.293343797	1.87000295	0.066216	0.182949467
COX15	0.292527562	1.870351562	0.0662225	0.182949467
AFF1	0.171970865	1.86849091	0.0662727	0.18303894
TM9SF1	0.213128195	1.873706335	0.0662995	0.183063337
TCEAL6	-0.893529365	-1.87817551	0.0663248	0.183083198

LGMN	0.209261842	1.870829897	0.0664719	0.183439337
TRMT44	-0.292298872	-1.885456667	0.0665528	0.183600786
PMS2	0.163307898	1.869532018	0.0665665	0.183600786
SRSF11	0.101999812	1.866037414	0.0666345	0.18373061
NRIP1	-0.169006786	-1.866605625	0.0666498	0.18373061
MRPS31	0.178443929	1.86613309	0.0667665	0.183948484
CYBA	-0.337493515	-1.865221731	0.0667670	0.183948484
ASH2L	0.097145169	1.866244181	0.0668068	0.183948484
TDRKH	0.224163722	1.875041341	0.0668085	0.183948484
AKR1B1	-0.32896032	-1.878801741	0.0668195	0.183948484
NMNAT3	0.224135467	1.872021202	0.0669596	0.184276147
PEX12	0.223387321	1.882372794	0.0669815	0.184276147
TUBB4B	-0.352795301	-1.872422229	0.0669930	0.184276147
RCAN1	-0.305375275	-1.896678391	0.0670336	0.184337875
NDUFB3	0.261201504	1.869371124	0.0670665	0.184378595
BRD9	0.098727594	1.86493528	0.0671075	0.184425236
PLOD1	0.173030169	1.865470744	0.0671198	0.184425236
EIF4G3	0.082015789	1.868651138	0.0671469	0.184446218
OXA1L	0.260554492	1.863687794	0.0671724	0.184446218
FKBP4	0.140869361	1.862126706	0.0671820	0.184446218
TPT1	-0.116543346	-1.862651914	0.0673502	0.184830392
PRDM2	-0.150602186	-1.860768834	0.0673725	0.184830392
VAMP5	-0.246903426	-1.866321754	0.0673765	0.184830392
GNB5	-0.163762688	-1.86238285	0.0674339	0.184926997
EFHC2	-0.605225481	-1.898925033	0.0674482	0.184926997
MRPL32	0.177861729	1.867390087	0.0674707	0.184938634
CDH6	-0.362869511	-1.862068483	0.0675077	0.18499023
RALBP1	0.077353252	1.859299382	0.0675852	0.185100306
RFX3	-0.219090602	-1.860736934	0.0676124	0.185100306
IDH1	0.297100338	1.861164416	0.0676155	0.185100306
TLR2	-0.217368649	-1.863568301	0.0676280	0.185100306
GRK6	-0.151728703	-1.859119981	0.0676500	0.185100306

PRKCE	-0.165114665	-1.860294317	0.0676575	0.185100306
ACSF2	-0.276134192	-1.862281313	0.0676865	0.185129758
C16orf58	0.224552895	1.860303339	0.0677575	0.185274537
CPSF6	0.08296391	1.857665535	0.0678180	0.185351159
STUB1	-0.123334447	-1.858176731	0.0678325	0.185351159
HBE1	0.489713034	1.864822913	0.0678405	0.185351159
GPC6	0.386188045	1.862542339	0.0678795	0.185407149
LARP4B	-0.149542143	-1.862028243	0.0679035	0.185425135
PCGF2	0.146575996	1.861183604	0.0679400	0.185473718
TFDP2	0.14185132	1.856654718	0.0679765	0.185523522
NR2F2	-0.267949436	-1.868938152	0.0680070	0.185558614
PPIL3	0.196365226	1.856653667	0.0680465	0.18561596
ATP6V1G1	-0.13527188	-1.858140234	0.0680675	0.185622208
TSPYL4	-0.22313954	-1.879057208	0.0681185	0.185688257
EHD4	-0.136399041	-1.859969775	0.0681305	0.185688257
OPA1	0.115269925	1.866179869	0.0681460	0.185688257
PINX1	0.180530461	1.875092757	0.0681895	0.185755226
KRT7	-0.644407519	-1.860809635	0.0682225	0.185796398
WAC	0.100308947	1.857569068	0.0683785	0.18617001
RPL39	0.506500677	1.854674731	0.0684435	0.186297887
DCLK2	-0.441006399	-1.903581784	0.0684825	0.186352126
HMGCR	-0.268166654	-1.854614952	0.0686585	0.186782097
POFUT1	0.119410897	1.853468777	0.0687345	0.186938028
ANXA4	-0.233006447	-1.851265426	0.0687565	0.186948607
PARD3	-0.114265789	-1.85232743	0.0688210	0.187073906
BNIP3	0.381574812	1.853737489	0.0688455	0.187089174
IFI16	-0.304995188	-1.854253676	0.0689100	0.187196017
MFAP2	0.299307293	1.860524721	0.0689215	0.187196017
FBXL6	-0.158553346	-1.853449633	0.0689555	0.187239523
PLAU	-0.269813795	-1.849867097	0.0689915	0.187287283
POLR1E	0.141222162	1.856289244	0.0690345	0.187354218
SEMA3A	0.473441125	1.902701833	0.0690685	0.187392763

DPP6	-0.441622989	-1.894921779	0.0690860	0.187392763
PPP1R8	0.098692406	1.849654608	0.0691708	0.187572556
NUP107	0.067165677	1.84833571	0.0693784	0.188085245
MFSD6	0.152593515	1.847896653	0.0694578	0.188182421
UCKL1	-0.108078571	-1.847221483	0.0694625	0.188182421
DYNLL2	0.169839286	1.849650089	0.0694699	0.188182421
S1PR2	0.267421889	1.848188728	0.0695080	0.188231297
APOF	-0.289310338	-1.84753743	0.0695256	0.188231297
CCDC39	-1.361291913	-1.980902762	0.0695435	0.188231297
CEP152	0.166774628	1.876005963	0.0695627	0.188233113
LCA5	-0.370886195	-1.854246379	0.0695999	0.188253309
GTPBP6	0.141024515	1.847812627	0.0696075	0.188253309
PIK3C3	-0.096478365	-1.853446778	0.0696310	0.188267265
HERC2	-0.057861673	-1.848693359	0.0696567	0.188286461
COL1A1	-0.487546429	-1.854577272	0.0697187	0.188403854
SPOP	-0.174427	-1.872413988	0.0698120	0.188605815
LRP10	0.194349023	1.844763104	0.0698756	0.188687884
ELP4	-0.088079925	-1.843645141	0.0698795	0.188687884
PRG4	-0.278021594	-1.842413593	0.0700674	0.189144835
CRYM	-0.458890602	-1.842839109	0.0701266	0.189254252
SNX6	-0.103444144	-1.844162416	0.0701650	0.189277401
CAPS	-0.469312143	-1.841586183	0.0701724	0.189277401
TARS2	0.231733383	1.843501318	0.0702365	0.18939917
SS18L1	0.164951278	1.841735184	0.0702966	0.189511649
ZFYVE26	-0.117089662	-1.839456769	0.0704964	0.18987139
WARS2	0.204798252	1.844079111	0.0705062	0.18987139
FURIN	0.194944173	1.840648996	0.0705138	0.18987139
TTC30A	-0.281870541	-1.851678716	0.0705227	0.18987139
OLFM4	-0.858595301	-1.845521776	0.0705236	0.18987139
VCAN	-0.491030075	-1.841719892	0.0706087	0.190030216
HBP1	-0.140052256	-1.841025326	0.0706510	0.190030216
MTERF4	0.174598575	1.840783956	0.0706567	0.190030216

DMKN	0.663324544	1.903356438	0.0706575	0.190030216
NDUFB6	0.271656767	1.845292227	0.0708209	0.190358141
JMY	-0.115743609	-1.837939131	0.0708292	0.190358141
TCEA3	0.337241729	1.842735178	0.0708515	0.190358141
NCEH1	0.299767838	1.838027331	0.0708604	0.190358141
TIMP2	-0.343774173	-1.84422107	0.0708732	0.190358141
MCM5	0.231220639	1.838337971	0.0709025	0.19038594
DCTN6	-0.092171917	-1.836223474	0.0709700	0.190517274
BCL11A	0.358713702	1.848105882	0.0710334	0.190637107
DTX3	-0.159471955	-1.837350241	0.0710817	0.190716344
NCOR1	0.080716259	1.835251353	0.0711212	0.190771935
BANF1	-0.237462437	-1.837033603	0.0714416	0.191580604
PZP	-0.330691729	-1.832608954	0.0715330	0.191775145
SUMF2	0.226360226	1.835746975	0.0715825	0.191856656
PTPRCAP	-0.282304203	-1.837695569	0.0716200	0.191896639
FN3K	-0.137890244	-1.838987445	0.0716355	0.191896639
SEPHS2	-0.179436692	-1.835260558	0.0716925	0.191937323
HAUS5	-0.098855846	-1.836239407	0.0716940	0.191937323
ENPP5	-0.325345833	-1.838480256	0.0717162	0.191937323
FOCAD	0.098484436	1.832301158	0.0717480	0.191937323
CD200	0.278534836	1.838045931	0.0717546	0.191937323
GGACT	0.161702286	1.832974716	0.0717800	0.191937323
USP39	0.091399703	1.833620106	0.0717945	0.191937323
CBFA2T2	0.171757668	1.833417808	0.0718338	0.191937323
INCENP	0.262963684	1.835098716	0.0718370	0.191937323
METTL21A	0.230967619	1.84094342	0.0718393	0.191937323
EPM2A	-0.24880968	-1.829864539	0.0719557	0.192145332
RPS7	0.120368158	1.830859619	0.0719663	0.192145332
VWA5B2	-0.417995113	-1.829806825	0.0719800	0.192145332
MORC3	-0.091565977	-1.831075019	0.0720165	0.192145332
PIAS1	-0.127113496	-1.830496448	0.0720175	0.192145332
PRDX1	-0.134791895	-1.837575311	0.0720449	0.192145332

DNAJC2	0.117352331	1.8409705	0.0720497	0.192145332
CFAP97	-0.176081955	-1.828969511	0.0720884	0.192174482
CLTB	-0.172406289	-1.834865587	0.0721148	0.192174482
PDXK	-0.143574658	-1.83135912	0.0721174	0.192174482
RO60	0.145969023	1.835378393	0.0721517	0.192215188
MSH6	0.164215771	1.834655549	0.0721777	0.192232555
TRIM8	-0.18336618	-1.838213052	0.0722246	0.192261187
ZNRD2	-0.135110188	-1.834324653	0.0722258	0.192261187
TEX264	0.184446297	1.828693461	0.0722710	0.192331307
ATP11C	0.12540709	1.835134415	0.0722956	0.192346193
SLC4A7	-0.203240056	-1.827298183	0.0723199	0.192360515
MUC16	-0.486557895	-1.831798679	0.0724259	0.19259204
MAP3K8	-0.165606948	-1.831362343	0.0724784	0.19259826
CBL	-0.108535508	-1.82779478	0.0724810	0.19259826
MPLKIP	0.128921617	1.827693741	0.0724852	0.19259826
BIRC2	0.067872238	1.828109635	0.0726182	0.192901125
TBL1X	-0.263730827	-1.828243541	0.0726429	0.192916171
NEK9	-0.11869094	-1.832484753	0.0726686	0.192933994
RIC8A	-0.072015953	-1.825615652	0.0727060	0.192982841
RBM23	-0.16388488	-1.826992372	0.0727687	0.193072073
DNAJB11	0.139556617	1.825620688	0.0727777	0.193072073
PPP1R11	-0.179923038	-1.834099797	0.0727983	0.193076437
COX8A	0.179981617	1.83238692	0.0728706	0.193217683
SUN1	0.180433722	1.826843456	0.0728960	0.193234434
PLCG2	-0.289195827	-1.83532782	0.0729456	0.193308004
MAK16	0.158207895	1.823082465	0.0729618	0.193308004
NOL9	0.092737218	1.823140259	0.0730285	0.193434278
KIRREL1	-0.205240414	-1.825826921	0.0730540	0.193451178
CCDC130	-0.127973729	-1.833377888	0.0730736	0.193452612
ERO1A	-0.229181832	-1.822226306	0.0730932	0.193454108
PRICKLE3	-0.315298481	-1.830165175	0.0731369	0.193519221
HDGFL2	-0.119429397	-1.821523629	0.0732335	0.193689879

GCA	-0.198565357	-1.825023494	0.0732395	0.193689879
CTS2	0.283055432	1.82830604	0.0733085	0.193810372
GOT1	-0.183560526	-1.821108597	0.0733233	0.193810372
PRRX1	0.451974925	1.835061627	0.0733935	0.193945448
UBA1	-0.111865846	-1.832788882	0.0734319	0.193996525
TPRG1L	-0.138587763	-1.827093576	0.0736912	0.194630674
UPF3B	0.131748628	1.823896241	0.0737345	0.19469357
VCAM1	-0.399492293	-1.823573859	0.0738025	0.194823487
VPS72	0.087925357	1.819257552	0.0738895	0.195001163
SLC25A24	0.263433498	1.82345096	0.0739295	0.195003781
USP22	0.124721053	1.820322366	0.0739446	0.195003781
GRB10	-0.164415771	-1.819847353	0.0739667	0.195003781
MRPL57	0.241721587	1.820369676	0.0739669	0.195003781
PIP4K2B	0.128770789	1.824871034	0.0741308	0.19538519
SDC2	0.365582594	1.828696858	0.0741599	0.195411145
XPA	-0.158407199	-1.819000029	0.0742657	0.195639111
MARCKS	-0.25238344	-1.825895848	0.0743533	0.195783765
BORCS5	-0.12584488	-1.818173781	0.0743915	0.195783765
MGARP	-0.574871212	-1.839134875	0.0743919	0.195783765
NDUFA11	0.188613158	1.818389797	0.0744008	0.195783765
CERS5	0.235738526	1.815876624	0.0744199	0.195783765
INTS10	0.072136147	1.817770698	0.0744434	0.195783765
IRF3	-0.127511015	-1.820461722	0.0744556	0.195783765
TMEM135	0.243259244	1.81683573	0.0745260	0.195917922
STK16	0.147099323	1.820836659	0.0745599	0.195956396
LRIG1	-0.276659023	-1.817525271	0.0746206	0.196065162
SLC25A5	0.277621805	1.813407895	0.0747055	0.196219602
PROSER1	0.104227331	1.814422527	0.0747185	0.196219602
SFXN5	0.217080305	1.827538736	0.0747408	0.196228585
KNTC1	0.148156203	1.820748001	0.0748576	0.196448315
SSC5D	-0.389127444	-1.812890014	0.0748652	0.196448315
TNFAIP3	-0.114413477	-1.811978215	0.0748826	0.196448315

TKFC	0.132088139	1.810884057	0.0749114	0.196455119
GLIPR1	-0.234347479	-1.812543287	0.0749274	0.196455119
POLDIP2	0.141172162	1.812023424	0.0749598	0.196455119
MAD2L1BP	0.103846636	1.813393797	0.0749701	0.196455119
BTBD1	-0.119207801	-1.815243899	0.0749819	0.196455119
POTEI	-0.470621667	-1.838097712	0.0750947	0.196682416
CPEB3	-0.214935489	-1.813000376	0.0751074	0.196682416
LRRC59	0.245860031	1.809819243	0.0751300	0.196690777
PIK3R2	-0.113534981	-1.825454876	0.0752251	0.196889034
SP2	-0.104090846	-1.8113841	0.0752745	0.196967431
AQP5	0.469787756	1.813240438	0.0753333	0.196986943
GSPT2	-0.255628214	-1.813219567	0.0753379	0.196986943
MYO1D	0.20258347	1.819200751	0.0753402	0.196986943
HSDL2	0.190583459	1.810472228	0.0753752	0.197027675
CBX5	0.172748947	1.809088289	0.0754179	0.197039371
MTG1	0.169772466	1.814731201	0.0754360	0.197039371
CDH13	-0.402342556	-1.808307757	0.0754379	0.197039371
ENTPD1	-0.261775733	-1.807440533	0.0754999	0.197150574
PADI2	-0.379453759	-1.809753284	0.0755497	0.197229922
ADAMTS1	-0.222438158	-1.809741472	0.0756304	0.197377614
TMEM132A	0.242794938	1.818047085	0.0756452	0.197377614
ADAM10	0.195600562	1.809037503	0.0757233	0.197530792
TMEM120A	0.326151692	1.807278978	0.0757566	0.197566788
SDR39U1	0.191565695	1.808972731	0.0758266	0.197657524
MAP2K6	0.193140207	1.809060464	0.0758492	0.197657524
UBE2J2	0.152130526	1.805227928	0.0758498	0.197657524
COX5A	0.224969624	1.811601063	0.0758898	0.197710882
ZDHHC3	0.286821306	1.818256267	0.0759197	0.197718651
GK2	-0.28711037	-1.835657781	0.0759317	0.197718651
MPP2	0.283239333	1.822088599	0.0759754	0.19778177
HELLS	0.191919549	1.811608243	0.0760791	0.197960123
CDC5L	0.096132594	1.803450438	0.0760829	0.197960123

MAIP1	0.214496429	1.806560294	0.0761089	0.197976888
INTS14	0.118580479	1.80806036	0.076146	0.19802286
TTC17	0.104883684	1.805653729	0.0762172	0.19815699
EEF1AKMT1	-0.130233835	-1.804746724	0.0764194	0.198631833
ACAP3	-0.218032216	-1.835268904	0.0765140	0.198826843
KIAA0100	0.15094156	1.805151182	0.0765495	0.198868084
TRMT61B	0.176241316	1.807970499	0.0766495	0.199076393
ORM1	-0.409062406	-1.803276395	0.0767697	0.199338066
LRRC4B	-0.393227935	-1.835822061	0.0768148	0.19940433
FAM151B	-0.169113985	-1.808383268	0.0768677	0.199466983
AKT1S1	-0.12876382	-1.800489085	0.0768785	0.199466983
ARHGAP17	-0.141841034	-1.802705671	0.0769077	0.199490802
HPCAL1	-0.236674342	-1.802214528	0.0770009	0.199647807
SLC5A3	0.213118168	1.806603756	0.0770070	0.199647807
CNOT3	0.065775733	1.797015315	0.0770766	0.199777419
MANSC1	0.262719586	1.802213924	0.0771537	0.199906947
RTF1	0.08230906	1.796901391	0.0771750	0.199906947
PLXDC2	-0.245158835	-1.798233797	0.0771857	0.199906947
UTP15	0.114462105	1.802962764	0.0772365	0.19998709
ZADH2	0.177334211	1.803646202	0.0773516	0.200234348
CA4	-0.280347051	-1.79696433	0.0773925	0.200288832
DNAJC8	0.090507068	1.794420763	0.0774814	0.200434258
MYOF	-0.231209305	-1.794942554	0.0774880	0.200434258
JAM3	-0.222611842	-1.793583945	0.0776042	0.200683511
ZNF281	0.162682143	1.800391141	0.0779800	0.201603957
SLC1A3	0.28375075	1.794728706	0.0780295	0.201680097
KRT19	-0.436370489	-1.790755572	0.0780755	0.201748299
SOX13	0.127959336	1.7925938	0.0781315	0.201841576
CEP41	-0.180988545	-1.790066497	0.0783375	0.202322179
ZBTB40	-0.116901383	-1.788894741	0.0784037	0.202441544
ABCC3	0.340139286	1.801224983	0.0784435	0.202490606
PA2G4	0.10361782	1.798406984	0.0784626	0.202490606

TRIM25	-0.09801968	-1.791468632	0.0784986	0.202531991
MYBBP1A	0.195345865	1.796703245	0.078609	0.202748079
TMEM68	0.186798891	1.790404523	0.0786223	0.202748079
RPS21	0.1010125	1.786915011	0.0787083	0.202918326
METTL16	-0.097563797	-1.786592347	0.0787565	0.20299102
KIFC1	0.147247425	1.791026425	0.0787878	0.203020227
SERAC1	0.165962218	1.788926887	0.0788563	0.203145062
ZNF195	0.177522293	1.794650734	0.0789479	0.203329498
COPZ2	-0.335592143	-1.794242355	0.0789829	0.203331894
ZSCAN2	0.1781342	1.799727125	0.0789889	0.203331894
PODN	-0.375095414	-1.784785401	0.0790503	0.203367668
WASHC5	-0.076119436	-1.791651598	0.0790536	0.203367668
CRNKL1	0.103292237	1.785230122	0.0790629	0.203367668
TRDMT1	-0.218795	-1.81631387	0.0790870	0.203378172
NID1	-0.300661598	-1.784392144	0.0791406	0.203464416
SAMD9	-0.207645263	-1.786799028	0.0792468	0.20368592
TESC	0.303998496	1.787190738	0.0793105	0.20379788
YME1L1	0.158592297	1.783614114	0.0793870	0.203942827
BCL9	0.148200081	1.782026378	0.0794888	0.204152756
GNB2	-0.127617237	-1.783498537	0.0795159	0.204170704
EFEMP1	-0.518094098	-1.785919766	0.0795666	0.204249118
SLC6A6	0.275422101	1.787467661	0.0796504	0.204412744
CCDC115	-0.220818421	-1.789352247	0.0797204	0.204540496
ZCCHC7	0.157945406	1.78595524	0.079755	0.204577805
FBLN1	0.407929417	1.780434324	0.0798068	0.204604668
LIAS	0.157284662	1.788515628	0.0798132	0.204604668
EDC3	-0.096228831	-1.780123578	0.0798260	0.204604668
BTBD2	-0.087799229	-1.78044469	0.0798918	0.204679589
MRPL22	0.178915677	1.786316465	0.0798956	0.204679589
PROSER3	-0.525048333	-1.811215731	0.0799229	0.204697944
KYAT1	-0.229242914	-1.780771581	0.079963	0.204749362
KAT14	0.172200338	1.779295372	0.080020	0.204804082

KPNA1	-0.116267669	-1.779465392	0.0800249	0.204804082
SLC1A4	0.257837688	1.781223616	0.0800706	0.204839012
CDCA8	0.270076623	1.80078497	0.0800789	0.204839012
RPP40	0.109142996	1.778681846	0.0801678	0.205014837
KLK10	-0.380873919	-1.78347888	0.0802633	0.205193757
DECR1	0.221042105	1.779076034	0.0802782	0.205193757
SEZ6L2	0.237444372	1.779480173	0.0804106	0.205457008
BPHL	0.169876635	1.778217365	0.0804217	0.205457008
RNF149	0.150756771	1.784319328	0.0805037	0.205613231
BROX	0.249901878	1.788413296	0.0805796	0.205756762
RBM26	0.078411342	1.777164453	0.0806226	0.205791074
FAS	0.258339098	1.777680019	0.0806336	0.205791074
USP33	-0.099830635	-1.781469982	0.0807147	0.205914325
MEX3C	-0.334794793	-1.794533839	0.0807224	0.205914325
NARS2	0.169407726	1.778915733	0.0807836	0.205992216
RABIF	0.184430379	1.782753447	0.0808089	0.205992216
MAT1A	-0.37887787	-1.775442984	0.0808138	0.205992216
OGDH	-0.134221898	-1.780880092	0.0809612	0.206316114
ANAPC16	-0.126504615	-1.777191908	0.0810106	0.206372866
SLC26A2	0.421775564	1.773779166	0.0810242	0.206372866
STMN1	0.2143935	1.774231049	0.0811457	0.206584909
MRPS30	0.161458966	1.778765133	0.0811669	0.206584909
MRPS17	0.181380808	1.774342435	0.0811715	0.206584909
AKR1A1	-0.137716541	-1.785271341	0.0811888	0.206584909
TWISTNB	0.122239008	1.775061285	0.0812286	0.206634194
IFI44	-0.290485376	-1.771104175	0.0813176	0.206752355
SMAD5	-0.112185797	-1.771437745	0.0813695	0.206752355
SCO2	0.168822857	1.775335967	0.0813846	0.206752355
PRDX6	0.237241222	1.78230418	0.0813936	0.206752355
GPRASP2	-0.202274812	-1.7778462	0.0814037	0.206752355
C15orf39	-0.157513342	-1.774771229	0.0814124	0.206752355
PTPA	0.130396654	1.777577163	0.0814176	0.206752355

INSR	-0.202822199	-1.775490968	0.0814798	0.206858445
GNPDA1	-0.154777038	-1.770798612	0.0815457	0.206974031
RAB3GAP1	0.09872718	1.781347958	0.0815718	0.206988582
LILRA3	-0.374183087	-1.778545782	0.0816508	0.207112938
ENDOD1	0.233713271	1.771223444	0.0816616	0.207112938
RPRD2	0.143370301	1.769191928	0.0816924	0.207139216
DIP2C	-0.199076128	-1.773477855	0.0817276	0.207176645
PES 1.00	0.143734286	1.776118344	0.0817777	0.207215879
TMEM161A	0.385195634	1.77237589	0.0817839	0.207215879
IQSEC1	-0.134664297	-1.769386814	0.0818065	0.207221419
DAPK3	-0.226870258	-1.767385704	0.0819595	0.207557222
FOXC1	-0.242797519	-1.769779634	0.0820664	0.207757285
STARD7	-0.093439041	-1.774032287	0.0820970	0.207757285
TXNDC5	0.177418158	1.769152892	0.0821150	0.207757285
TCN1	-0.599848158	-1.774825793	0.0821360	0.207757285
VANGL2	0.202667293	1.772077314	0.0821487	0.207757285
PLEKHJ1	0.177520317	1.770867361	0.0821615	0.207757285
NCAPG2	0.154010867	1.773239743	0.0821847	0.2077647
BCL10	0.098861583	1.774573711	0.0822772	0.207889989
HPS6	-0.110165992	-1.783640994	0.0822806	0.207889989
APOBEC3B	-0.300646053	-1.774931684	0.0823044	0.207889989
KLHL26	-0.135469231	-1.769668345	0.0823162	0.207889989
GNAS	0.198015032	1.783686012	0.0823647	0.207948658
XYLT2	0.18221967	1.768681717	0.0823804	0.207948658
RGL3	0.182126053	1.774934411	0.0825437	0.208281938
SH3BP4	0.138397105	1.764599692	0.0825535	0.208281938
CMTM8	-0.493473486	-1.77138739	0.0826707	0.208465216
RERE	0.106947742	1.763298651	0.0826832	0.208465216
NSMCE1	0.115794831	1.764882953	0.0826877	0.208465216
PRIM1	0.149508947	1.769954107	0.0827385	0.208499248
BAZ2A	0.138182598	1.768643951	0.0827618	0.208499248
CCDC58	0.172663008	1.763792615	0.0827629	0.208499248

STK26	-0.358020301	-1.771011306	0.0828197	0.208567786
PPP1R1B	0.334392237	1.768896621	0.0828439	0.208567786
ABLIM2	-0.24838442	-1.769340957	0.0828517	0.208567786
PTCD3	0.159417932	1.76816807	0.0829129	0.208669972
SRSF3	0.139811241	1.761988938	0.0829545	0.208722586
SNRPG	0.144759868	1.761795504	0.0829932	0.20876857
TMEM245	0.277944564	1.768570243	0.0830185	0.208779471
ADAMTSL1	-0.336796504	-1.770443642	0.0831204	0.208949583
MTIF3	0.13034609	1.763501859	0.0831269	0.208949583
MET	-0.254859648	-1.762974606	0.0832594	0.209230911
QPCTL	0.194471241	1.761401753	0.0832868	0.20924795
THOC7	0.08819312	1.760021878	0.0833312	0.20928622
COCH	0.384158609	1.771773745	0.0833435	0.20928622
PNKP	-0.101932218	-1.758848428	0.0833932	0.209359683
ITPR3	0.220187726	1.760889973	0.0834414	0.209428996
SNCG	-0.466576511	-1.760119	0.0835042	0.209534761
PRAF2	0.205849417	1.757841617	0.0835612	0.20962591
NOL7	0.122458759	1.763088423	0.0836554	0.209810472
SLC38A10	0.237016286	1.762565932	0.0838065	0.210060757
ZNF704	0.196091667	1.762542551	0.0838085	0.210060757
TNKS1BP1	-0.113155019	-1.759010486	0.0838422	0.210060757
MED29	-0.105254079	-1.756488655	0.0838615	0.210060757
PITPNC1	0.209009586	1.768312976	0.0838709	0.210060757
H1.10	-0.445998496	-1.759026224	0.0838980	0.210060757
THYN1	0.169702857	1.761592212	0.0839005	0.210060757
COASY	-0.125344662	-1.757653662	0.0839279	0.210078557
SUPT5H	0.065523515	1.757081766	0.0841175	0.210455566
ACTN2	-0.163100526	-1.756212473	0.0841200	0.210455566
JCAD	-0.270816805	-1.757803234	0.0842057	0.21061807
MYO5C	-0.168779398	-1.753444791	0.0843142	0.210837619
P4HTM	-0.138248609	-1.755627131	0.0843540	0.210885105
PHYHIPL	-0.451871955	-1.758191717	0.0845315	0.211276361

CFHR5	-0.298591541	-1.754552257	0.0847015	0.211564035
GRHL2	0.168347481	1.751385197	0.0847104	0.211564035
NDUFA5	-0.163443684	-1.751792733	0.0847109	0.211564035
SLC15A1	-0.311684982	-1.805053745	0.0847298	0.211564035
PVALB	-0.621972273	-1.818753478	0.0847528	0.211569503
CNN2	-0.227776692	-1.75502505	0.0848359	0.211661337
GGA3	-0.067192189	-1.752858544	0.0848401	0.211661337
SSH1	-0.137396617	-1.751087645	0.0848522	0.211661337
GAA	0.263878759	1.753415486	0.0850096	0.212001885
PAPPA	-0.400039511	-1.749608274	0.0850322	0.212006189
CADPS2	-0.147685789	-1.749968178	0.0850661	0.212040225
SESN1	-0.141894274	-1.753229	0.0851811	0.212250682
NOL10	0.134385451	1.757194416	0.0851936	0.212250682
ZFP64	0.152825414	1.749308966	0.0852649	0.212377703
NUP35	0.09411265	1.75192949	0.0854083	0.212682757
TFB2M	0.188305639	1.753896382	0.0854586	0.212732113
THAP11	-0.167296203	-1.746806817	0.0854701	0.212732113
TACC1	-0.18816735	-1.749677486	0.0854951	0.21274375
CMIP	-0.169850395	-1.750941941	0.0855276	0.212771111
ACTR6	-0.112891109	-1.746597323	0.0855542	0.212785114
VPS33B	-0.067904812	-1.7522191	0.0856322	0.212926776
ZNF346	-0.109837256	-1.74895746	0.0857031	0.213050834
PREPL	-0.103275282	-1.747678884	0.0857642	0.213107392
NEIL2	0.169170188	1.747140311	0.0857678	0.213107392
PLPBP	-0.128824135	-1.749798417	0.0858214	0.213167045
PROZ	-0.29514515	-1.748549296	0.0858338	0.213167045
MTPAP	0.205423017	1.749364658	0.0860744	0.21369374
FAM89A	-0.395089062	-1.759425692	0.0861254	0.21369374
NAA25	0.108640301	1.746566866	0.0861299	0.21369374
PDAP1	0.121369691	1.743047256	0.0861301	0.21369374
GNAO1	-0.349551617	-1.749498605	0.0861812	0.213768224
C12orf45	0.172689023	1.745108856	0.0862544	0.213897873

VSIG10	0.202116554	1.750207587	0.086574	0.214637815
FNDC3B	0.197264925	1.748490066	0.086700	0.214898078
DZIP1L	-0.522981282	-1.782387203	0.086744	0.2149427
DEPTOR	-0.149055827	-1.742531182	0.086760	0.2149427
SLC15A2	0.362181128	1.741878845	0.087008	0.215503541
SMAD2	0.096437387	1.745610134	0.087140	0.215762335
TMEM128	0.482682963	1.747898749	0.087165	0.215762335
TAPBP	0.213674248	1.739982082	0.087176	0.215762335
WDR4	0.182320075	1.745516537	0.087371	0.216191414
RBM10	0.089984286	1.735735316	0.087488	0.216430122
GPBP1	-0.100087312	-1.737345825	0.087563	0.216478123
ZFYVE21	-0.152563346	-1.735009525	0.087566	0.216478123
NAMPT	-0.21701782	-1.736080135	0.087572	0.216478123
HMGCL	-0.161083985	-1.734885789	0.087607	0.216513242
TOP 1.00	0.137434023	1.738392419	0.087640	0.216541537
ADD3	0.122888214	1.738483417	0.087738	0.216728099
MTURN	0.192480451	1.743073798	0.087782	0.216728099
RANGRF	0.275587932	1.741893374	0.087785	0.216728099
WDR18	0.114190602	1.733885672	0.087801	0.216728099
PHF10	0.103065771	1.734142461	0.087835	0.216733127
FLT1	-0.240552613	-1.735077557	0.087846	0.216733127
CDCA7L	0.289347632	1.733504855	0.087899	0.216811509
TEX2	-0.109258346	-1.735702056	0.088039	0.217055982
VWA1	-0.246058741	-1.732296908	0.088041	0.217055982
GLIPR2	-0.287342481	-1.737285976	0.088098	0.217111951
HDAC3	0.099198083	1.73747335	0.088106	0.217111951
MRPL46	0.162070562	1.735611275	0.088271	0.2174647
AGO3	-0.153979624	-1.737137279	0.088365	0.217644288
BNIP2	-0.149217105	-1.732192856	0.088404	0.217686616
GEMIN4	0.110804492	1.732040553	0.088491	0.21783516
C15orf40	-0.114101842	-1.736389483	0.088526	0.21783516
RAD50	0.089538855	1.729616323	0.088529	0.21783516

GTF3C2	0.079583835	1.729983739	0.0885582	0.217854053
SELENBP1	0.364398872	1.73078161	0.0889065	0.218657918
PAAF1	-0.121810038	-1.727574504	0.0889289	0.218660023
MOB2	-0.118883848	-1.727668842	0.0890032	0.218789816
GABARAPL2	-0.15683985	-1.732527639	0.0890326	0.218809042
ACE	0.329531222	1.731950851	0.0891761	0.219108659
TMEM119	-0.274590038	-1.736318103	0.0892287	0.219150966
BCKDHB	0.230876891	1.732378877	0.0892365	0.219150966
JOSD1	-0.279665	-1.739562204	0.0894086	0.219520518
XPOT	0.110734737	1.730293782	0.0895512	0.219772332
DTL	0.269273553	1.724081804	0.0895545	0.219772332
SNRPD1	0.199420996	1.725527442	0.0897981	0.220316983
GORASP1	0.176727406	1.723191386	0.0898715	0.220351561
KIF5C	0.309116617	1.739494056	0.0898922	0.220351561
BICD2	-0.114511654	-1.726378285	0.0898974	0.220351561
RCBTB2	-0.191164098	-1.725245044	0.0899025	0.220351561
CEP350	-0.099895395	-1.724615844	0.0899208	0.220351561
FTH1	-0.174197744	-1.737275252	0.0899528	0.2203768
ARMCX2	0.340703008	1.727636226	0.0900354	0.220526015
POGK	0.156084756	1.723646849	0.0901188	0.220677068
KANK1	0.180481767	1.720604391	0.0901818	0.220747053
GEMIN7	-0.13110703	-1.722780442	0.0901909	0.220747053
MRE11	0.086854624	1.720349756	0.0902509	0.220840779
POLR3E	-0.086292489	-1.727313921	0.0903295	0.220879703
VWF	-0.205827846	-1.721748476	0.0903678	0.220879703
MRS2	-0.172983696	-1.732312105	0.0903698	0.220879703
CHUK	-0.113722143	-1.721081006	0.0903708	0.220879703
YIPF2	0.312478853	1.727289313	0.0904308	0.220879703
KAT7	0.09276688	1.719098105	0.0904522	0.220879703
TAP1	0.252573816	1.726268682	0.0904571	0.220879703
MITF	-0.209309211	-1.722106501	0.0904656	0.220879703
TRMT112	0.1170125	1.718884071	0.0904757	0.220879703

EMC8	-0.094866184	-1.72134942	0.0904845	0.220879703
LEMD2	0.192862331	1.719327539	0.0905202	0.220913693
ENDOG	-0.211680173	-1.720890436	0.0905930	0.221038308
FAM160B1	0.105196791	1.720178026	0.0906840	0.2212086
TMEM94	0.161739189	1.719552339	0.0907109	0.221219551
PITPNM3	0.321380303	1.737625747	0.0907850	0.22130631
AHSP	0.389564774	1.717182187	0.0907900	0.22130631
KHK	-0.334399436	-1.716701791	0.0910755	0.221944347
MAGED2	0.144956222	1.723601919	0.0910955	0.221944347
MRPL23	0.159513571	1.717513291	0.0911658	0.222062127
UEVLD	-0.107340094	-1.716131846	0.0913133	0.222357497
SNX4	-0.11756515	-1.722329475	0.0913308	0.222357497
NFKBIL1	-0.154639544	-1.721441962	0.0913654	0.222372994
PIN1	-0.100637733	-1.720706274	0.0913810	0.222372994
UFSP1	-0.203644444	-1.725071958	0.0914172	0.222378156
EPC1	0.147586617	1.713661523	0.0914319	0.222378156
GSE1	0.117269831	1.719565794	0.0914489	0.222378156
MED8	0.092120357	1.714274518	0.0914717	0.222380532
IKZF2	-0.44543	-1.766864357	0.0916175	0.222652346
FAM83B	-0.315369064	-1.715393534	0.0916274	0.222652346
TRA2A	0.09784718	1.712513154	0.0916815	0.222672532
ATP6V0A4	-0.427084448	-1.725866959	0.0916976	0.222672532
SHROOM4	0.113789214	1.714534807	0.0917015	0.222672532
NOP10	0.130898816	1.71200354	0.0917520	0.222741856
ZNF703	0.188054135	1.716344886	0.0918947	0.22303473
RNF166	-0.179566227	-1.714062428	0.0919254	0.223054309
TSPAN1	-0.417033271	-1.719528578	0.0919654	0.223054309
SESTD1	-0.1171575	-1.716307005	0.0919794	0.223054309
TMEM181	0.184932895	1.710650159	0.0919906	0.223054309
HBA2	0.539257256	1.710245409	0.0920906	0.223243422
AKT1	-0.103125	-1.710645205	0.0921394	0.223308443
DST	-0.286597368	-1.71545514	0.0921782	0.223349065

FASTKD2	0.152273308	1.714592834	0.0923000	0.2235908
FNBP4	0.100381654	1.709380821	0.0923615	0.223686365
SLC2A8	0.253812916	1.713887349	0.0924338	0.223808056
AP1S2	-0.195576617	-1.724738958	0.0924904	0.223891796
PAK1	0.090039041	1.707475247	0.0926366	0.22417944
PPP4R2	0.094972487	1.708143659	0.0926534	0.22417944
COPS8	0.103904812	1.707332653	0.0926895	0.224212717
PPP1R37	-0.090913248	-1.706779414	0.0928944	0.224604662
FAM3A	0.18409765	1.715554579	0.0928956	0.224604662
VPS41	-0.090619662	-1.706369417	0.0929380	0.224653795
TSFM	0.183293937	1.711242315	0.0929895	0.224724253
MCM4	0.244577068	1.705178285	0.0931255	0.224999398
ATP6V1B2	-0.12124938	-1.70412905	0.0932108	0.225152232
MAP1S	-0.098800075	-1.704470734	0.0933535	0.225443276
KDM5B	0.150980902	1.710271129	0.0935197	0.225790996
RUNX3	-0.283776109	-1.726889191	0.0936052	0.22587364
SMARCA2	0.158251692	1.703807019	0.0936185	0.22587364
ACSL1	0.194001842	1.701938104	0.0936207	0.22587364
SCP2	-0.15542862	-1.701800507	0.0937487	0.226128701
CEP63	-0.209933376	-1.705149046	0.0937800	0.2261399
TSPYL5	-0.297787556	-1.705011079	0.0938198	0.2261399
SLC25A4	0.270672068	1.706718038	0.0938202	0.2261399
SF3B2	0.07579953	1.700418929	0.0939107	0.226271753
MTRES1	0.177442556	1.701588805	0.0939194	0.226271753
NMT2	-0.172957092	-1.699175101	0.0941426	0.226755434
ACADVL	0.168350038	1.709107461	0.0941677	0.226762173
SRI	-0.161758214	-1.698007029	0.0944798	0.227426106
HBB	0.549125827	1.697444807	0.0945235	0.227426106
AOC1	-0.492876015	-1.711312742	0.0945293	0.227426106
ICAM3	-0.387716917	-1.71286945	0.0945330	0.227426106
TGFBR2	-0.185540118	-1.701157898	0.0945697	0.227446763
EPS8L2	-0.144692293	-1.69760987	0.0946075	0.227446763

WDR66	-0.355357971	-1.720960024	0.0946160	0.227446763
CTSS	-0.260630639	-1.697941859	0.0946312	0.227446763
NKIRAS2	-0.084746259	-1.701379189	0.0946822	0.227515308
ANO8	0.338220395	1.704693035	0.0947382	0.227596085
SAFB2	0.078396053	1.695818211	0.0947994	0.227670414
RYBP	-0.143611629	-1.696473141	0.0948161	0.227670414
GP1BA	-0.256225889	-1.707294476	0.0948365	0.227670414
DGUOK	-0.216735321	-1.697473884	0.0948654	0.227675312
EXOSC10	0.110745733	1.696847057	0.0948834	0.227675312
TBC1D25	-0.177303025	-1.696549899	0.0949147	0.227696696
ANKRD27	-0.113213331	-1.69775211	0.0949879	0.227802972
FAT2	-0.258202038	-1.700435222	0.0950039	0.227802972
F13A1	-0.323169868	-1.700189971	0.0950387	0.22783256
TCEAL2	-0.589588773	-1.699584998	0.0950782	0.22787355
BCAT2	-0.194174624	-1.693232796	0.0954063	0.228605972
TET3	-0.173066375	-1.696532032	0.0954437	0.228628556
FOXJ1	-0.509249405	-1.722914235	0.0954795	0.228628556
PYROXD2	0.36273827	1.700877332	0.0954833	0.228628556
CST4	0.860986111	1.725108551	0.0955148	0.228649837
PPP1R12A	-0.193581955	-1.691838492	0.0955432	0.228649837
NRP2	0.325991353	1.706685753	0.0955598	0.228649837
NUCB1	0.144347162	1.696359296	0.0956055	0.228705123
ABCB6	0.207558985	1.694448205	0.0956725	0.228811657
ARL4C	0.540915714	1.742722818	0.0957088	0.228844432
UTP18	0.133901692	1.699043575	0.0960618	0.22963434
OAS2	-0.312384398	-1.688481429	0.0961937	0.229824384
PAM	0.36666218	1.699465501	0.0961997	0.229824384
EPHA4	0.338385902	1.701034262	0.0962092	0.229824384
NDUFC2	0.264781015	1.695087851	0.0963117	0.230015106
UFSP2	0.134062282	1.698263904	0.0964092	0.230179764
UBE2L5	0.51844	1.715068018	0.0964377	0.230179764
GPRC5C	0.379029887	1.698504795	0.0964487	0.230179764

STARD10	-0.207417105	-1.698357177	0.0964854	0.230213243
NRDC	-0.091272199	-1.686893368	0.0966364	0.230519334
CNTLN	-0.367834735	-1.71138699	0.0966833	0.230577132
ING3	0.078233214	1.686851681	0.0967238	0.230619497
JAK3	-0.284052262	-1.700933909	0.0968185	0.230791112
LARP7	0.142786917	1.693455476	0.0968955	0.230874707
OSBPL3	-0.248119887	-1.687163669	0.0968991	0.230874707
CDK9	0.100708929	1.691199045	0.0970690	0.231186892
ODC1	0.338652496	1.722389271	0.0970751	0.231186892
ARHGEF12	0.074599019	1.688295203	0.0971888	0.231401917
SEMA3E	0.327886697	1.702578693	0.0974541	0.231979346
XRCC6	0.098534624	1.681953361	0.0975219	0.232086149
HERC1	-0.113172549	-1.691125259	0.0976251	0.232278848
PFKFB3	-0.177209962	-1.685589671	0.0976668	0.232288575
PRR15	0.295296353	1.683927163	0.0976874	0.232288575
CBR3	-0.317365977	-1.68672598	0.0976985	0.232288575
FXN	0.171052256	1.685796978	0.0977291	0.232306941
LSM 4.00	0.158104699	1.681233432	0.0979481	0.232773333
KIF20B	0.200235545	1.682783072	0.0979885	0.232773333
CTNNAL1	0.140693459	1.684344186	0.0979941	0.232773333
IKBKE	-0.176835455	-1.683209751	0.0982032	0.233204029
MRPL39	0.158666316	1.682758712	0.0982214	0.233204029
MAPRE1	-0.133845282	-1.677521427	0.0983310	0.233255572
SPEN	0.055534312	1.67767371	0.0983395	0.233255572
EXOC4	0.060920462	1.678023794	0.0983620	0.233255572
PLSCR3	0.126131316	1.677327419	0.0983955	0.233255572
PLS3	0.212282218	1.684482245	0.0984221	0.233255572
BCL7C	0.124731635	1.678850574	0.0984315	0.233255572
CYP2S1	-0.283517163	-1.67802007	0.0984603	0.233255572
CALCOCO1	-0.121085432	-1.687984591	0.0984704	0.233255572
DNMT1	0.120884398	1.679090319	0.0984718	0.233255572
MRPS35	0.164394662	1.680042521	0.0984729	0.233255572

SMIM1	0.394460599	1.689481182	0.0985052	0.233277651
TUT1	-0.164664662	-1.676805928	0.0985533	0.233337072
VAMP8	0.204813045	1.680912556	0.0986064	0.23335319
IGF1R	0.220284741	1.678154536	0.0986218	0.23335319
ZBTB11	-0.196333895	-1.690923683	0.0986290	0.23335319
HMBX1	0.145821165	1.675856871	0.0986741	0.233405507
AGPAT3	0.235094177	1.676355115	0.0987927	0.233624647
FAM160A1	-0.136878665	-1.675353518	0.0988128	0.233624647
PCID2	0.064281805	1.674890059	0.0988804	0.233730006
RRP36	0.147478842	1.675156058	0.0989698	0.233886795
PRCC	0.156978966	1.676183951	0.0992485	0.23449088
MRPS25	0.166207707	1.675999486	0.0993936	0.234710488
ARFRP1	-0.146114814	-1.675713978	0.0994176	0.234710488
FAM13A	-0.224156485	-1.677312671	0.0994226	0.234710488
MYO6	0.114962312	1.67340536	0.099434	0.234710488
RPP30	0.100761429	1.671565832	0.0995957	0.235037722
RHBDF1	0.17850765	1.67863438	0.0996270	0.235056914
LSM 11.00	0.262468864	1.674503934	0.0997073	0.23515593
RNF14	-0.120037481	-1.675338342	0.0997153	0.23515593
TRIM59	0.162794515	1.678410988	0.0997427	0.235165901
SGK3	-0.214937349	-1.675551644	0.0997772	0.235192473
NUF2	0.23367312	1.674127746	0.0998510	0.235311832
TXNRD1	-0.191106613	-1.688999091	0.1000013	0.235590403
MCCC1	0.184978744	1.670563759	0.1000156	0.235590403
CHST14	0.134936541	1.67086186	0.1000739	0.235621496
MBD3	0.141078947	1.669351982	0.1000752	0.235621496
DLD	0.15684109	1.673572563	0.1001502	0.235743349
GNPAT	0.190037274	1.672560882	0.1001923	0.235787631
LARP1	0.073109004	1.6688968	0.1002283	0.235817733
SLC16A3	-0.313390226	-1.668814671	0.1003496	0.235974625
EIF2AK1	-0.132430915	-1.673734086	0.1003541	0.235974625
METTL3	0.086618703	1.669043881	0.1003904	0.235974625

PROS1	-0.240177256	-1.666988244	0.1004092	0.235974625
MAP7D3	-0.122504677	-1.674053398	0.1004112	0.235974625
ELOVL1	0.308369925	1.667096037	0.1004722	0.236063338
MRPL19	0.168569906	1.669251929	0.1005314	0.236147618
DTWD2	-0.142379286	-1.669808658	0.1006057	0.236267457
MANEA	0.223016563	1.679591806	0.1006475	0.236311003
GLG1	0.167654586	1.667767061	0.1007129	0.236389853
RBM33	0.063761184	1.668129021	0.1007276	0.236389853
LPCAT1	0.2073825	1.668146614	0.1008217	0.23655589
CPSF3	0.064061797	1.664794351	0.1008559	0.236581425
PTGS2	0.391686111	1.690227304	0.1008869	0.2365994
F12	-0.266930263	-1.665414499	0.1010157	0.236846876
CSTF1	0.08560391	1.664581709	0.1010869	0.236959028
TMLHE	0.214287979	1.663717103	0.1012036	0.237120244
IMP3	0.111972256	1.670292091	0.1012627	0.237120244
CDK11B	0.080364474	1.662700372	0.1012656	0.237120244
DGKQ	-0.130679175	-1.664748628	0.1012727	0.237120244
ADIRF	-0.421887594	-1.664804335	0.1012855	0.237120244
RPS6KA3	-0.143693891	-1.662987881	0.1012958	0.237120244
MIER3	-0.368350812	-1.685710245	0.1013682	0.237192446
GBA2	-0.110006109	-1.663218758	0.1013734	0.237192446
WWC2	-0.128272059	-1.677340038	0.1014188	0.237243931
HLCS	0.180772444	1.671328658	0.1015058	0.237392803
LDLRAD1	-0.426343643	-1.686957547	0.1018136	0.238056262
RAC1	0.159092256	1.659822787	0.1019116	0.23823059
FAM118A	-0.192127778	-1.672850168	0.1021166	0.238644072
C7	-0.290731861	-1.659544659	0.1021349	0.238644072
PLSCR1	-0.222025169	-1.664013216	0.1021787	0.238647813
KIF1B	-0.101600865	-1.671362903	0.1021835	0.238647813
GREB1	0.241911466	1.660983924	0.1024118	0.239125838
CHURC1	-0.180039827	-1.667028333	0.1025678	0.239434984
FBXO44	-0.274067185	-1.684289815	0.1026299	0.239524959

RBM41	0.123990667	1.666244355	0.102898	0.240095611
PAPOLG	0.13057485	1.667653183	0.102924	0.24010189
RPS28	-0.133192902	-1.654148595	0.103028	0.240289901
TP53INP2	-0.341880094	-1.661208614	0.103131	0.24047347
CHD1	0.098727444	1.656023255	0.103290	0.240728586
SOD3	-0.402226692	-1.657484408	0.103291	0.240728586
PLD1	-0.186623459	-1.653164868	0.103313	0.240728586
DDX31	0.10245162	1.658692918	0.103354	0.240728586
SYTL2	0.219279918	1.666549473	0.103359	0.240728586
MARS2	0.166191015	1.657594144	0.103386	0.240736155
RIOX2	-0.13908453	-1.656195463	0.103492	0.240846529
HAT1	0.152955338	1.655111364	0.103513	0.240846529
MRFAP1	-0.172709511	-1.652671592	0.103521	0.240846529
CAMK2D	0.170595188	1.65532046	0.103529	0.240846529
PSAT1	0.284489286	1.651425401	0.103552	0.240846529
MAD2L2	0.209122222	1.660770868	0.103603	0.240880836
CD1A	-0.79958381	-1.676448575	0.103614	0.240880836
ERC2	-0.153048148	-1.672686489	0.103638	0.240882386
NUBP2	-0.115929771	-1.651678517	0.103684	0.240932978
MTR	-0.169262199	-1.651940732	0.103708	0.240933634
GLYR1	-0.092711391	-1.65058765	0.103774	0.241031369
RCC1L	0.145568797	1.655500284	0.103902	0.241225394
ASTE1	-0.178726802	-1.659058051	0.103912	0.241225394
PRMT5	0.092991504	1.652835412	0.103952	0.241225394
C17orf80	0.12613	1.651342153	0.103957	0.241225394
C1orf174	0.166050564	1.652884413	0.103976	0.241225394
FAM3D	-0.603423938	-1.65629405	0.104053	0.241248457
NT5DC2	0.179292763	1.658537956	0.104058	0.241248457
INTS3	0.094918628	1.650011397	0.104075	0.241248457
OIP5	0.466900699	1.680030904	0.104099	0.241248457
MRPL58	0.153583346	1.65146692	0.104105	0.241248457
SCGB2A2	0.714076549	1.654675595	0.104170	0.241298025

PRPS2	0.255950602	1.658003207	0.104174	0.241298025
ZNHIT1	-0.111871729	-1.648499288	0.104229	0.241343603
PDE4D	-0.272397932	-1.654464853	0.104272	0.241343603
PEAK1	-0.153399906	-1.654799156	0.104282	0.241343603
FILIP1	-0.31885562	-1.657409881	0.104307	0.241343603
ELOB	-0.082915244	-1.647825496	0.104312	0.241343603
FAM83F	0.285874392	1.650260005	0.104343	0.241359851
STK3	-0.149453985	-1.653496241	0.104449	0.241514167
PRPF39	0.058827237	1.647705791	0.104457	0.241514167
LIN37	0.116729549	1.647295855	0.104573	0.241725889
ECPAS	0.096931053	1.646176741	0.104631	0.241805863
CCDC88C	-0.137049474	-1.648067824	0.104889	0.242318536
AGMAT	0.326686466	1.647399163	0.104901	0.242318536
UBA5	0.117030827	1.645770842	0.105023	0.242545812
SIRPA	-0.243245752	-1.648076693	0.105120	0.242684579
CSNK1D	-0.095418985	-1.645547115	0.105131	0.242684579
UQCRQ	0.215263179	1.644786579	0.105395	0.243237816
PAFAH1B1	-0.083021389	-1.641627176	0.105576	0.243524376
TRAF3	-0.166757838	-1.655964859	0.105587	0.243524376
CKAP2L	0.257320524	1.66375186	0.105591	0.243524376
ENAH	0.175077331	1.645914536	0.105828	0.243955333
RPL23	0.123373139	1.645448313	0.105828	0.243955333
TMCO6	-0.15534282	-1.642609336	0.105850	0.243955333
ATAD2B	0.125564994	1.646363727	0.106010	0.244243016
SERPINF1	-0.367918985	-1.646763929	0.106023	0.244243016
DDAH2	0.174338421	1.640699032	0.106077	0.244270778
CPSF1	0.058082669	1.641134699	0.106083	0.244270778
CIR1	-0.124813139	-1.640727204	0.106226	0.244545613
YTHDF1	-0.101075376	-1.641134763	0.106297	0.244593096
RANBP3	-0.060413195	-1.638308652	0.106315	0.244593096
AP4S1	-0.202340115	-1.655179641	0.106319	0.244593096
PLG	-0.268080263	-1.637116496	0.106519	0.244997249

MRPL41	0.179561955	1.6389172	0.1065646	0.245045631
FAM126A	-0.189039229	-1.639244865	0.1066122	0.245099464
HMG20A	0.080336383	1.637817586	0.1066864	0.245214443
EDN3	0.519143547	1.665633088	0.1067135	0.245218547
DIPK2A	-0.194481071	-1.637608926	0.1067420	0.245218547
NTN1	-0.293670789	-1.644843303	0.1067606	0.245218547
LUC7L3	0.075390808	1.635884925	0.1067985	0.245249181
SRSF2	0.09288472	1.635548431	0.1068619	0.245340106
RPL11	0.104327575	1.635015148	0.1069562	0.245445576
TRPC4AP	0.157886212	1.643424671	0.1069627	0.245445576
COX19	-0.146635714	-1.637976079	0.1069804	0.245445576
METTL26	-0.117382632	-1.636288746	0.1070555	0.245562377
PURA	-0.186082702	-1.641275068	0.1071254	0.24565348
ATP5PD	0.246539816	1.636615687	0.1071436	0.24565348
GNL1	0.089004173	1.637451188	0.1071709	0.245654189
RCOR3	0.129883929	1.639480955	0.1071925	0.245654189
KPNB1	0.079915789	1.637298086	0.1073455	0.245948863
FBXO4	0.122055977	1.633116985	0.1074555	0.246146273
ZNRF2	0.168095677	1.634184394	0.1075257	0.246251382
SF3B3	0.070263481	1.632137935	0.1075766	0.2463124
CBR4	0.198267293	1.632151671	0.1079509	0.247113712
OSBPL10	-0.132199887	-1.635009693	0.1080762	0.247344716
UPK1B	-0.552941917	-1.636208858	0.1081065	0.24735823
IFIH1	-0.158471015	-1.62894737	0.1083115	0.247771416
ISOC1	-0.203181391	-1.628580287	0.1083816	0.247875908
EMILIN1	-0.302525113	-1.630317662	0.1085072	0.248107308
RPL27A	0.179531053	1.634340986	0.1085385	0.24812216
PPIA	-0.082870207	-1.627286974	0.1086295	0.248274249
S100B	-0.369468797	-1.627490379	0.1086878	0.248352539
POLR2I	-0.09834722	-1.626732741	0.1087267	0.248367723
CCDC71L	-0.184280714	-1.642394397	0.1087472	0.248367723
HTRA1	0.297831015	1.631154975	0.1087679	0.248367723

CD59	0.258334586	1.630585389	0.1088922	0.248544585
GMEB2	0.080073811	1.626147037	0.1089045	0.248544585
SF3A3	0.074540602	1.625743897	0.1089188	0.248544585
PIH1D1	-0.092053383	-1.626267472	0.1089685	0.248601243
NLRC4	-0.267906048	-1.630897653	0.1090219	0.248667988
MSRB3	-0.409157331	-1.625886931	0.1090879	0.248762758
GSTO2	-0.611386316	-1.636158365	0.1093063	0.249204635
SCGB2A1	0.574433308	1.623911213	0.1093596	0.249237788
GFOD2	-0.13917597	-1.625798081	0.1093699	0.249237788
C1orf226	0.219121297	1.626937662	0.1094186	0.24929271
ARMC4	-0.369968589	-1.632838911	0.1094952	0.249411211
BCAT1	0.411877068	1.623027783	0.1097046	0.249832224
NELFE	0.091289492	1.622064107	0.1098399	0.250084321
LETMD1	0.19263312	1.627140737	0.1100682	0.25053627
STRA6	0.35282406	1.620297183	0.1100878	0.25053627
WASL	-0.109718857	-1.620372697	0.1102326	0.250809581
GZMH	-0.178496706	-1.632671586	0.1103085	0.250925164
CTF1	-0.169571532	-1.61982324	0.1103537	0.250956102
CHCHD10	-0.243071586	-1.619559834	0.1103712	0.250956102
SP1	-0.237771278	-1.620515926	0.1104155	0.251000096
ARHGAP42	-0.136056481	-1.620676911	0.1104427	0.251006361
AP2A2	-0.098463004	-1.621114695	0.1104755	0.251023594
CDC42EP2	-0.293809023	-1.622976256	0.1105385	0.251110623
CHMP1B	0.129180744	1.627359155	0.1106168	0.25123314
ARSB	-0.190578553	-1.620695325	0.1106484	0.251248657
NUDCD3	-0.097330056	-1.619504479	0.1107918	0.251518097
PKIA	-0.507398584	-1.618498815	0.1111048	0.252087404
LSM 7.00	0.101164831	1.615886858	0.1111118	0.252087404
IKZF5	-0.188478429	-1.62139418	0.1111254	0.252087404
CCDC126	0.298367576	1.626429696	0.1111419	0.252087404
MRPL38	0.165975132	1.618426515	0.1111894	0.252138642
LRPPRC	0.190326955	1.617647259	0.1113193	0.252376971

SSR2	0.287568534	1.61535906	0.111346	0.252381232
NCBP2AS2	0.18756938	1.619721107	0.111415	0.252433848
PACIN1	-0.35377218	-1.626719935	0.1114190	0.252433848
IRAK1	-0.099225357	-1.620575155	0.111494	0.252547819
ESAM	-0.175445817	-1.615695367	0.111565	0.252652605
C2	-0.249954211	-1.617194941	0.111736	0.252984105
ATM	0.111114643	1.610898653	0.112148	0.253859063
RBM17	0.086019263	1.610518021	0.112256	0.254029573
KIAA2013	0.195626955	1.616722387	0.112273	0.254029573
CCDC85B	-0.183189747	-1.62373377	0.112314	0.254065378
RUFY1	-0.089946316	-1.614110314	0.112426	0.254261916
ACAD10	0.173978684	1.6181772	0.112476	0.254291592
RFC4	0.142153816	1.609322977	0.112489	0.254291592
ADAM17	0.159441278	1.609149758	0.112537	0.254343595
EFNA4	0.414568194	1.631532832	0.112680	0.254610091
FAM110A	0.211289589	1.623502095	0.112773	0.254763052
CC2D1B	-0.065880771	-1.607853168	0.112848	0.254867019
MRPS18A	0.162098684	1.612266573	0.112886	0.254867019
NDRG1	-0.228853459	-1.612623511	0.112894	0.254867019
AK4	-0.279662049	-1.612699879	0.113030	0.254963241
FDX2	-0.147138534	-1.612938234	0.113034	0.254963241
ARMH3	-0.098706429	-1.608518256	0.113042	0.254963241
SMYD2	0.203131523	1.609275833	0.113062	0.254963241
TSSC4	-0.116425752	-1.608829533	0.113063	0.254963241
ARPP19	-0.174708083	-1.608015456	0.113110	0.254965172
PSMG1	0.111577239	1.611668072	0.113134	0.254965172
AKAP9	-0.069667256	-1.606803	0.113144	0.254965172
ANKS3	-0.257440741	-1.614270692	0.113164	0.254965172
OLFML2B	-0.280928665	-1.610574993	0.113331	0.255285998
DENND2A	-0.256332255	-1.623446774	0.113393	0.255354259
YIF1A	0.275989756	1.605039404	0.113412	0.255354259
LARP6	-0.165634549	-1.609565193	0.113520	0.255492685

CCDC8	-0.320019605	-1.612689011	0.1135256	0.255492685
ANXA2	-0.198474699	-1.604840421	0.1135685	0.255492685
UBALD2	-0.198090363	-1.610081284	0.1135746	0.255492685
HPS5	-0.09844718	-1.607908775	0.1137539	0.255797889
TRABD	0.134861278	1.60347747	0.1137607	0.255797889
EARS2	0.114145827	1.610402228	0.1137889	0.255804564
GPM6B	0.297864699	1.616222298	0.1139602	0.25612687
ZSWIM8	-0.063530953	-1.604382404	0.1139827	0.25612687
POGLUT2	-0.13456009	-1.615573179	0.1141398	0.256423143
HRAS	0.174377256	1.607532886	0.1141777	0.256436292
NCDN	-0.146118214	-1.601686352	0.1141962	0.256436292
CMSS1	0.126624417	1.603421016	0.1142284	0.256451917
AZGP1	-0.290466053	-1.603679771	0.1142547	0.256452901
CAV2	-0.323183083	-1.602916958	0.1143219	0.256511127
CDKAL1	0.08501485	1.601004586	0.1143306	0.256511127
PLAA	0.061136286	1.60227496	0.1143697	0.256540814
IGFBP6	-0.251868947	-1.60067369	0.1144532	0.256672702
LPA	-0.496252989	-1.604189433	0.1145138	0.256748785
SHC1	0.115212083	1.60084696	0.1145403	0.256748785
HLA.G	0.378796241	1.60134974	0.1145636	0.256748785
SFT2D3	0.18368718	1.601046099	0.1146805	0.256955338
UQCR11	0.238565902	1.604168921	0.1147106	0.256964702
NOL6	0.097699722	1.605457958	0.1148187	0.257087988
CCDC50	-0.124181109	-1.599914095	0.1148324	0.257087988
SPRR3	0.765497101	1.607777731	0.1148416	0.257087988
RAF1	-0.09393844	-1.603000439	0.1148872	0.25713456
VTN	-0.293420489	-1.597648334	0.1150537	0.257450468
AGA	0.22246797	1.599509976	0.1150877	0.257469904
SLC2A13	-0.177787981	-1.602346013	0.1151279	0.257503002
CBX2	0.250918455	1.602394562	0.1152196	0.257649912
ZNF316	0.092372246	1.596356723	0.1153624	0.257909195
COX5B	0.228285165	1.601165978	0.1153857	0.257909195

CDC16	-0.084010338	-1.596195722	0.1154810	0.258065211
ARHGAP39	-0.130070695	-1.598877965	0.1155167	0.258088167
PHLDB1	-0.18689515	-1.596238551	0.1156009	0.258219622
NLE1	0.114538797	1.597833813	0.1157089	0.258403863
RPS27	0.179443064	1.595123818	0.1157756	0.258495961
HELZ	-0.068955414	-1.59450268	0.1158338	0.258554779
PALM3	-0.370018177	-1.59535393	0.1158571	0.258554779
ZCCHC9	0.131306241	1.596554636	0.1158783	0.258554779
GDPD3	0.411217333	1.605761478	0.1159499	0.258657648
USP36	0.135176823	1.595679324	0.1160340	0.258721392
VAC14	-0.091517143	-1.593305223	0.1160364	0.258721392
CPPED1	-0.239372932	-1.601307002	0.1160556	0.258721392
H3.2	-0.59658116	-1.605845759	0.1160894	0.258741284
CBLL1	0.08518203	1.593151423	0.1162321	0.258955706
MX1	-0.379302707	-1.593759674	0.1162366	0.258955706
SCAI	0.114480019	1.592142794	0.1163028	0.259046295
ATP6V1D	-0.102443797	-1.592231727	0.1163493	0.259093004
SVBP	-0.108321955	-1.591966836	0.1165994	0.259592933
MTM1	-0.080723263	-1.593470967	0.1167993	0.259953407
KRT12	0.582205519	1.597075581	0.1168125	0.259953407
FLYWCH1	-0.408948882	-1.613824896	0.1169420	0.260184513
PUS1	0.142503541	1.597757783	0.1170903	0.260457347
NCKAP1	0.076284455	1.589018607	0.1171375	0.260505335
SAA2	-0.430612802	-1.610408533	0.1172608	0.260722276
SAFB	0.078687237	1.587653979	0.1173115	0.260777924
HNRNPU	0.103956466	1.587835976	0.1174660	0.261064286
RAB11FIP5	-0.178216165	-1.586922527	0.1175021	0.261087249
RARS2	0.124696654	1.588927684	0.1175494	0.261135227
PMPCB	0.151178872	1.587451556	0.1175783	0.261142289
MUC6	0.371199323	1.596744915	0.1176106	0.261156841
SCAF4	0.079034962	1.586440256	0.1176801	0.261235687
CHD8	0.061920677	1.587073359	0.1176976	0.261235687

GRK3	-0.191316529	-1.604502359	0.1178068	0.261420895
GMPS	0.100581977	1.586551531	0.1178739	0.26151264
SH2D3C	-0.260842982	-1.608324343	0.1179039	0.261522024
ARPC4	-0.152015985	-1.58467732	0.1181929	0.262105899
FAM114A1	-0.183044677	-1.584182712	0.1182550	0.262186186
NT5C3A	-0.188543459	-1.583825325	0.1183009	0.262229827
PSMC6	0.056345846	1.583255431	0.1183604	0.262305256
ORM2	-0.337260658	-1.586681148	0.1185706	0.262713735
FGFR2	-0.285413722	-1.583485009	0.1186172	0.26275983
PTAR1	0.090529737	1.584159746	0.1186659	0.262809383
UTP23	0.125524511	1.58387052	0.1186990	0.262826317
SHROOM2	0.15066203	1.589151424	0.1189012	0.263216445
FAM32A	-0.091403771	-1.579439482	0.1191659	0.263743991
RRP8	0.103383961	1.581747223	0.1192129	0.263790656
PANK1	0.222151833	1.580448727	0.1192684	0.263842354
HECTD4	0.058212504	1.581323984	0.1192879	0.263842354
PWWP2A	0.16464395	1.579231544	0.1193279	0.263872048
ZNF330	-0.104302989	-1.583595365	0.1194799	0.264151068
TENM4	0.268472265	1.580032225	0.1195349	0.264215482
TCEAL1	-0.145786559	-1.577713225	0.1195786	0.264245627
STX10	0.109851222	1.577929857	0.1196004	0.264245627
RAB7A	0.110721485	1.577336944	0.1196500	0.264297685
MRPL43	0.160336711	1.578888415	0.1196974	0.264339845
NUDT5	-0.165399744	-1.579260059	0.1197212	0.264339845
EMX2	0.22783438	1.580570432	0.1198248	0.264511062
LRRC8C	-0.238408998	-1.586810614	0.1200789	0.265012704
UQCRH	0.258717895	1.575811537	0.1201169	0.265038943
GOLGA2	0.095742113	1.575023521	0.1201920	0.265109362
PCBP3	-0.516247143	-1.591012123	0.1202009	0.265109362
ECT2	0.172178759	1.582244491	0.1203972	0.265486076
FAR1	0.132286617	1.578173054	0.1204870	0.265569456
TFDP1	-0.123261278	-1.574127181	0.1204874	0.265569456

NEDD1	0.103142921	1.572578001	0.120867	0.266258188
PRMT7	-0.089313929	-1.57208766	0.120868	0.266258188
IGFBP7	-0.277388383	-1.576493605	0.120894	0.266258188
MTA2	0.101188986	1.573086793	0.120904	0.266258188
MRVI1	-0.294048684	-1.57221817	0.120952	0.266258188
KLF6	-0.210752375	-1.583764462	0.120957	0.266258188
LIN7A	0.284718346	1.577551263	0.121073	0.266456615
EXT2	0.119270695	1.571827961	0.121336	0.266915628
TNFRSF10A	0.458281615	1.577449373	0.121342	0.266915628
ARF4	-0.212707951	-1.572559415	0.121361	0.266915628
ADPRHL2	-0.097728786	-1.57970004	0.121434	0.267019145
PCLAF	0.256484596	1.577026273	0.121498	0.267101967
TBX2	-0.25711348	-1.58051762	0.121721	0.267533316
LAIR1	-0.251206067	-1.571452674	0.121814	0.267680099
KLF4	0.285289229	1.57182821	0.121958	0.267939638
SMARCD1	0.109228056	1.569900679	0.122110	0.268186465
DDX60	-0.162364122	-1.566783527	0.122123	0.268186465
UQCRC2	0.20315782	1.567086857	0.122256	0.268418702
RRM2B	-0.163248887	-1.565355312	0.122444	0.268738041
PPP1R7	-0.080853929	-1.565955412	0.122454	0.268738041
UBR1	0.075047387	1.567310299	0.122555	0.268901455
EIF4EBP3	-0.166350574	-1.570614398	0.122630	0.269007977
PLEKHG3	-0.101330969	-1.565365734	0.122705	0.269094498
USP48	0.080335752	1.564480979	0.122736	0.269094498
TRIM11	-0.122781962	-1.565214116	0.122760	0.269094498
RPP14	0.086437329	1.563910081	0.122776	0.269094498
SCRN2	-0.175226917	-1.567560795	0.122963	0.269398664
GAS6	-0.212489103	-1.566784035	0.122967	0.269398664
TTI1	0.114209276	1.56541712	0.123047	0.269514103
ZNF574	0.093639774	1.562476307	0.123193	0.269776263
NOC4L	0.113787338	1.567692877	0.123230	0.269798555
MLKL	-0.200777481	-1.5683012	0.123575	0.270497329

CEP170B	-0.089146015	-1.559975288	0.1237176	0.270749003
PITPNB	-0.07622203	-1.560035687	0.1237745	0.270814801
SLC25A20	0.219611711	1.560176576	0.1238948	0.271019918
SCAMP1	0.12070297	1.55889492	0.1239550	0.271093292
RBP7	-0.290836429	-1.56067704	0.1240195	0.27110643
JMJD8	-0.161376579	-1.561465406	0.1240378	0.27110643
PARP12	-0.099946459	-1.562738145	0.1240412	0.27110643
SEC11C	0.304016992	1.559280239	0.1240762	0.271124709
CSNK1G2	0.18932001	1.560355712	0.1242039	0.271338442
FUNDC1	0.242688171	1.566893858	0.1242275	0.271338442
ITGB5	0.161796241	1.557512431	0.1242809	0.271396585
HPS3	-0.096383271	-1.562967246	0.1244390	0.271683513
PSMD9	-0.068801737	-1.557202658	0.1245119	0.27178411
SAMD4A	-0.209660789	-1.556753251	0.1245525	0.271813819
NDUFAB1	0.138715038	1.556912079	0.1246368	0.271939874
MTMR6	-0.098411357	-1.558675579	0.1246640	0.271940606
TIPRL	0.120173929	1.561994397	0.1247503	0.272018139
CDK5RAP2	-0.074704041	-1.556282845	0.1247531	0.272018139
CALML5	0.881670301	1.55703833	0.1248717	0.272218206
PSMC2	0.047175752	1.554598152	0.1250106	0.272462579
SIN3A	0.090117872	1.554010167	0.1251462	0.272699547
CEBPZOS	0.154184268	1.563716479	0.1252127	0.272785927
SESN3	-0.143128419	-1.556312412	0.1253502	0.27298163
ARFGAP1	-0.054803133	-1.554435444	0.1253565	0.27298163
CRISPLD1	0.302354023	1.557582952	0.1253918	0.273000357
GOLGA4	-0.089476391	-1.554345511	0.1255205	0.273166296
MRPS9	0.151110226	1.554891238	0.1255370	0.273166296
EMC9	0.260558835	1.55222747	0.1255488	0.273166296
HBS1L	0.075676882	1.558739815	0.1257615	0.273570529
CTBS	-0.183242105	-1.557409143	0.1258121	0.273621893
CCP110	-0.142756504	-1.551026369	0.1258889	0.273730311
ZFYVE16	-0.079218496	-1.555074352	0.1259947	0.273875044

CPZ	-0.198465143	-1.559676909	0.1260095	0.273875044
LMO4	-0.110328327	-1.550719147	0.1261526	0.274127362
MCM2	0.201788045	1.550747225	0.1263460	0.274451077
EXTL2	0.141796053	1.551049602	0.1263729	0.274451077
NDUFA12	-0.137319489	-1.550610663	0.1263826	0.274451077
SAP18	0.074827105	1.548074353	0.1265385	0.2747307
APOC1	-0.331809586	-1.548001733	0.1265808	0.274763834
RCN3	-0.276676128	-1.547731484	0.1266695	0.274897575
RPA3	0.110179508	1.546998702	0.1267975	0.275116556
PRPSAP2	0.081275169	1.548403286	0.1268900	0.275258405
SCARF1	-0.247444444	-1.550690281	0.1269256	0.275276725
STK36	-0.201376162	-1.557826044	0.1271574	0.275720495
HM13	0.267459173	1.545281883	0.1272110	0.275777821
WDR73	-0.164219023	-1.549076011	0.1273684	0.276060248
CCDC32	-0.152549947	-1.545580668	0.1274847	0.276253272
POLD4	-0.214307741	-1.5517735	0.1275255	0.276282263
H1.5	-0.545496241	-1.548474392	0.1276275	0.276391819
ZWINT	-0.219059125	-1.547887839	0.1276409	0.276391819
SLC7A5	0.273094323	1.545045963	0.1276576	0.276391819
SEPTIN4	-0.203335771	-1.547523924	0.127736	0.276502538
STAT1	0.199593288	1.547247284	0.1277722	0.276521969
RPAP2	0.083500113	1.544627094	0.1280035	0.276844782
NRIP2	-0.298985338	-1.546944675	0.1280264	0.276844782
UCHL3	0.094567481	1.544504858	0.1280400	0.276844782
CFI	0.235197256	1.54320844	0.1280530	0.276844782
ABCD3	0.268751917	1.542839979	0.1280577	0.276844782
EIF5B	0.100463553	1.549452237	0.1280954	0.276867287
HBD	0.420830451	1.541229586	0.1282116	0.277034705
DCUN1D1	-0.078915959	-1.541833279	0.1282274	0.277034705
INMT	-0.687081964	-1.554020229	0.1283295	0.277195685
LBP	-0.323507519	-1.542320226	0.1283788	0.277243632
BIN3	-0.107060639	-1.546000783	0.1285077	0.277410152

GPT2	0.197635489	1.545126214	0.1285105	0.277410152
TMEM159	0.18686203	1.539494584	0.1286322	0.277613786
PALM2AKAP2	-0.240273459	-1.539378571	0.1287047	0.277711213
CDKN1C	0.17994216	1.539128972	0.1287335	0.277713707
NDUFB11	0.188992662	1.538822483	0.1288245	0.277852036
ELMO2	-0.125342838	-1.539993328	0.1290265	0.278227704
ARL2BP	-0.160098609	-1.541410412	0.1290671	0.278256539
CLIC6	-0.693726842	-1.537785961	0.1290995	0.278267619
ZNF652	0.21421297	1.538257052	0.1291950	0.278413866
EEFSEC	-0.092167519	-1.544764198	0.1293045	0.27853948
ENO2	-0.261354831	-1.539465236	0.1293081	0.27853948
PDCD7	0.141211152	1.549603586	0.1294954	0.278804979
NOL11	0.096605188	1.545595571	0.1295055	0.278804979
CCT5	-0.07668812	-1.535698886	0.1295651	0.278804979
PPAT	0.091093609	1.536912233	0.1295762	0.278804979
MOB3B	-0.198964969	-1.552701705	0.1295939	0.278804979
HDAC11	-0.357430667	-1.554863195	0.1295962	0.278804979
POLR3C	0.082117368	1.536753421	0.1297082	0.278986737
F13B	-0.213618936	-1.534559855	0.1298545	0.279241879
METAP2	0.094459455	1.538618838	0.1299255	0.27932807
MLYCD	-0.136130376	-1.53563244	0.1299494	0.27932807
DOCK7	0.061858289	1.533798542	0.1300140	0.279396266
MEMO1	0.101297068	1.540761716	0.1300362	0.279396266
VILL	-0.320958957	-1.540076989	0.1301658	0.279561968
XDH	-0.390017669	-1.533207427	0.1301684	0.279561968
THRAP3	0.08507062	1.533081261	0.1302062	0.279570336
HNRNPM	0.073591729	1.532989353	0.1302315	0.279570336
FBH1	-0.100054808	-1.532749878	0.1302772	0.279570336
CSRP1	-0.413018233	-1.532804291	0.1302825	0.279570336
PNO1	0.119648289	1.535693376	0.1305275	0.280036823
TXNDC9	-0.117017575	-1.533705718	0.1306356	0.280209702
MRPS12	0.153446729	1.535513603	0.1307468	0.280297465

ENPP3	0.547158083	1.534007584	0.1307485	0.280297465
ERCC1	-0.094166335	-1.530750048	0.1307594	0.280297465
PCIF1	-0.084983846	-1.533328122	0.1309742	0.280698688
EGFL6	-0.473566353	-1.52971818	0.1310650	0.280833872
LRMP	-0.350594318	-1.549072062	0.1311349	0.280873692
RNF146	-0.10893812	-1.529346892	0.1311389	0.280873692
RILPL1	-0.127066109	-1.528804136	0.1313760	0.281322134
SPP2	-0.166293233	-1.529102245	0.1315361	0.281605482
TINAGL1	-0.243898647	-1.532636165	0.1315942	0.281670566
OTUB2	-0.214880702	-1.546555348	0.1316354	0.281699342
DNTTIP1	-0.091879511	-1.527911257	0.1316751	0.28172625
ZNF131	0.104296259	1.527082707	0.1317355	0.281794592
KRT85	0.82508	1.542129003	0.1317906	0.281853159
SCFD2	0.083745188	1.528004179	0.1318778	0.281980216
STOML2	0.182054286	1.530631291	0.1319763	0.282131361
MAMDC2	-0.27285282	-1.525491037	0.1320726	0.282277804
ANO6	-0.161496165	-1.527005969	0.1321520	0.282376194
ANKRD13D	-0.157984096	-1.526077502	0.1321743	0.282376194
NDUFB4	0.176806955	1.526141836	0.1322221	0.282420314
DYNLRB1	-0.094479699	-1.526171003	0.1322953	0.282515804
CELF1	0.095176898	1.524084545	0.1324238	0.282730721
HMG2	-0.203990226	-1.527076019	0.1324564	0.282740828
PDXDC1	-0.191898647	-1.53128054	0.1325254	0.282828728
ACTR1A	-0.10484891	-1.523560287	0.1328472	0.283455875
PYGO1	-0.471986633	-1.540478865	0.1330171	0.283760118
CDK5	0.089274774	1.523646935	0.1334549	0.284632903
DACT2	0.208072368	1.521372829	0.1334887	0.284645073
XRCC4	-0.075497768	-1.522072921	0.1336751	0.284983932
ILDR1	-0.568097222	-1.523448708	0.1339551	0.28546924
SH3D19	-0.16386109	-1.518036386	0.1339596	0.28546924
TMEM63B	0.159204812	1.517618828	0.1340376	0.285478367
DARS2	0.213921297	1.521175382	0.1340468	0.285478367

HLA.DMB	0.27225297	1.520864132	0.1340482	0.285478367
LRWD1	0.093108459	1.517377696	0.1341328	0.285598608
BZW2	0.119771635	1.52316132	0.1341679	0.285613314
CYP4F3	-0.330060565	-1.530864252	0.1342176	0.285659309
ATP6V1G2	-0.45319365	-1.524885481	0.1342965	0.285742478
RPS26	0.110409286	1.524398067	0.1343136	0.285742478
SLC39A14	0.32001835	1.516649055	0.1343719	0.285778803
FKBP2	0.173202613	1.523026242	0.1343949	0.285778803
EFEMP2	-0.317928308	-1.524187212	0.1344145	0.285778803
CLTC	-0.073543308	-1.516333347	0.1345146	0.285887669
PGM1	-0.153495846	-1.519624475	0.1345221	0.285887669
FRRS1	0.200352237	1.52446561	0.1345933	0.285979113
MED12	0.057792274	1.516132278	0.1346535	0.286013808
SEC63	0.160248496	1.514985707	0.1347009	0.286013808
NCK2	-0.102797744	-1.519156165	0.1347089	0.286013808
SUZ12	0.071705733	1.514895785	0.1347223	0.286013808
TBC1D9B	-0.083331579	-1.520077551	0.1350301	0.286607319
FMNL2	-0.167250564	-1.523562982	0.1350851	0.286664032
ADAMTSL5	-0.346318908	-1.516945153	0.1351538	0.286749993
CCDC124	-0.095444994	-1.518217003	0.1351895	0.286765773
CRKL	-0.080387105	-1.513269729	0.1352363	0.286804978
CCDC138	-0.288033289	-1.514186807	0.1353009	0.286861875
FAM76B	0.114803853	1.512537215	0.1353392	0.286861875
GCC1	-0.085934425	-1.512583659	0.1353479	0.286861875
LRRC42	-0.109622045	-1.513886352	0.1354423	0.287001967
DCTN5	-0.074601773	-1.513282262	0.1355141	0.287094337
GPATCH8	0.071105376	1.51193165	0.1355503	0.287111095
PIP5K1A	0.089770199	1.511581954	0.1356465	0.28718532
MOB4	-0.213004242	-1.526662762	0.1356716	0.28718532
CYC1	0.219171241	1.511894314	0.1356794	0.28718532
C1QC	-0.198449248	-1.514329794	0.1356986	0.28718532
CCNDBP1	-0.148349248	-1.512027183	0.1357389	0.287210732

HAUS1	-0.097132218	-1.511131793	0.1358459	0.287377299
FGD1	0.118843737	1.516349345	0.135919	0.287472267
EZH2	0.182633083	1.509998989	0.135967	0.287515106
DPH3	-0.188415231	-1.513261915	0.136116	0.287770176
TNPO1	0.071184117	1.509314568	0.136146	0.287772621
UNKL	-0.169505038	-1.510396612	0.136177	0.287778812
PABPC4L	0.116165771	1.509069404	0.136276	0.287928222
PCGF5	-0.142922105	-1.512482078	0.136330	0.287982417
GORASP2	0.120941064	1.513637649	0.136390	0.288040929
RGS3	-0.094261992	-1.510083579	0.136441	0.288040929
AIMP1	0.058978115	1.509351681	0.136453	0.288040929
COPRS	-0.124115263	-1.510871523	0.136471	0.288040929
TEFM	0.175447444	1.510908846	0.136759	0.288587331
TGFB1	-0.184052632	-1.517103929	0.136886	0.288783019
GPD1	0.563652193	1.52020288	0.136908	0.288783019
TNK1	-0.093530113	-1.50670587	0.136940	0.288788908
VCPKMT	-0.116474887	-1.506836037	0.137062	0.28898824
BMP1	0.164444361	1.506440781	0.137334	0.28950122
POLR1B	0.112484767	1.505579203	0.137569	0.289935253
MRPL45	0.130073008	1.505889056	0.137644	0.290034173
ANAPC4	-0.109397387	-1.503178627	0.137716	0.290124547
RAB9A	0.109339718	1.505021412	0.137779	0.290170644
CDK4	0.117044398	1.50573716	0.137795	0.290170644
C16orf70	-0.098046936	-1.502912799	0.137978	0.290496506
PRICKLE2	-0.161150411	-1.5048706	0.138122	0.290739843
PRKACA	-0.099437105	-1.505567549	0.138169	0.290777069
CTTNBP2NL	-0.075631917	-1.502091859	0.138200	0.290782652
RPL36AL	0.274573649	1.506110832	0.138243	0.290812136
RAI1	0.08412094	1.502400595	0.138336	0.290907258
SYNGR2	0.182197632	1.502487789	0.138356	0.290907258
OTUB1	-0.089836842	-1.502170695	0.138374	0.290907258
UBAP2L	0.111255564	1.502497387	0.138435	0.29097639

PNISR	-0.112056842	-1.5024649	0.1384926	0.291035267
MAP3K11	-0.118076429	-1.507267624	0.138555	0.291106376
CDK2	0.083817989	1.499703834	0.138625	0.291194478
SYMPK	0.06826688	1.500469404	0.138780	0.291459684
ADAMTS2	-0.278317481	-1.507383866	0.138874	0.291595592
ATPAF1	0.113531391	1.49813806	0.1390519	0.291901817
EIF2B1	-0.075835677	-1.501903807	0.1390775	0.291901817
RPS6KC1	-0.112681429	-1.502320455	0.1391309	0.291938685
SUGP2	0.105026372	1.497651281	0.1391526	0.291938685
NAGLU	0.171816729	1.499980808	0.1392982	0.292183715
HDHD3	-0.137788346	-1.496690469	0.1394428	0.292370227
NUP42	0.083082274	1.499169091	0.139444	0.292370227
GSN	-0.188329173	-1.496033644	0.1395686	0.292499674
ZFYVE19	-0.106981222	-1.49599067	0.139574	0.292499674
MRPL1	0.168331748	1.498532874	0.1395929	0.292499674
TMEM35A	0.294821331	1.500985069	0.1396409	0.292526026
H2AX	0.131644098	1.495594874	0.139690	0.292526026
PHACTR2	-0.109167632	-1.499661886	0.1396919	0.292526026
MOB1A	0.239101982	1.518014711	0.1397904	0.29267186
CTPS2	0.091860564	1.498576479	0.1398818	0.292802854
SHBG	-0.226470301	-1.498933211	0.1399735	0.292933973
HLA.DQA1	-0.786545345	-1.501351364	0.1401774	0.293294841
RAB3A	-0.223167857	-1.496597204	0.1402036	0.293294841
STX3	0.146402368	1.497245341	0.1402976	0.293429758
CFAP53	-0.476230788	-1.530897436	0.140345	0.293469922
SRRT	0.084429692	1.494556743	0.1404639	0.293647803
TAF6L	0.074161617	1.492347578	0.1405378	0.293647803
UBAP2	0.107120489	1.492846488	0.1405385	0.293647803
RER1	0.159198308	1.492370562	0.1405859	0.293647803
TMPPE	-0.167201586	-1.498273223	0.140603	0.293647803
XPNPEP3	-0.108561639	-1.492696842	0.140620	0.293647803
CREG1	-0.137618327	-1.49380712	0.1406516	0.293647803

INTS4	0.078707519	1.495934278	0.1406616	0.293647803
NDUFA8	0.145031466	1.498639075	0.1407015	0.293670728
C4orf3	0.24819482	1.494165782	0.1408006	0.293817175
ATP6V1C2	0.332302286	1.502627102	0.1409099	0.293953749
ACTN4	-0.142540113	-1.491546263	0.1409240	0.293953749
SEC61G	0.217381165	1.49088132	0.1410126	0.294078102
BLVRB	-0.173255677	-1.490130818	0.1411989	0.294394316
ALDOC	-0.245953008	-1.493342512	0.1412222	0.294394316
QTRT1	0.090399417	1.492097015	0.1412992	0.294494347
SUMF1	0.119250526	1.489845728	0.1414139	0.294672078
MAOB	-0.316179962	-1.490315674	0.1416119	0.295024927
ADCY3	0.195374545	1.491882643	0.1417120	0.295172799
DNTTIP2	0.108589361	1.49201605	0.1417899	0.295274418
NCL	0.122030414	1.492050262	0.141946	0.295539208
PEBP1	0.106212239	1.488427335	0.1420267	0.295646358
DPY19L4	0.155549834	1.489887243	0.1420909	0.295665315
RFX1	0.068144041	1.486277224	0.1421453	0.295665315
GALE	-0.154813252	-1.487125073	0.1421510	0.295665315
RBM12	0.065741846	1.487700941	0.1421532	0.295665315
RAB42	-0.257859331	-1.508579846	0.1421815	0.295665315
HMGH4	-0.235645865	-1.487148763	0.1422109	0.295665889
VIPAS39	-0.054498008	-1.488067219	0.1423239	0.295840306
LSAMP	-0.301947613	-1.489577981	0.1423569	0.295847433
TRIM41	0.108744111	1.486675829	0.1424688	0.296020161
NADSYN1	-0.125092876	-1.486558992	0.1425186	0.296063201
NAXE	0.177222598	1.487894973	0.1426018	0.296119124
FLAD1	0.143773872	1.490328978	0.1426039	0.296119124
PRKAR1A	-0.123987895	-1.488187632	0.1426698	0.296195232
FSTL1	-0.292622914	-1.485318149	0.1427446	0.296264413
TFPI	-0.213425174	-1.488559338	0.1427615	0.296264413
SBSPON	0.326812331	1.485751546	0.1428787	0.296447174
OCRL	0.084209987	1.483364083	0.1429415	0.296516384

DYRK1B	-0.1246843	-1.485433735	0.142998	0.296573583
ANAPC10	-0.067152594	-1.487145921	0.143098	0.296721066
NKAP	-0.081614173	-1.483361666	0.143154	0.296776158
LYN	-0.166434586	-1.483095303	0.143197	0.296806046
PARVG	-0.195021617	-1.487256581	0.143237	0.296827559
FAM117B	0.104905117	1.48169134	0.143425	0.297155432
KPNA4	-0.091968609	-1.48217282	0.143562	0.297351192
PCBD2	0.164073327	1.484792021	0.143578	0.297351192
LYRM4	0.139142776	1.485051751	0.143719	0.297507078
BRD3	0.10594188	1.481417534	0.143725	0.297507078
TMTC3	0.124911654	1.480243695	0.143741	0.297507078
MINK1	-0.088084573	-1.481182781	0.143793	0.297525304
ZDHC13	-0.179691842	-1.484854747	0.143808	0.297525304
ERRFI1	-0.208887479	-1.481835652	0.143912	0.297678554
PIK3CB	-0.097054887	-1.483268132	0.143991	0.297781837
OXCT1	0.258393233	1.47962264	0.144046	0.297834032
LY6E	0.460919925	1.486118325	0.144095	0.297838123
CCM2	-0.141350865	-1.483202273	0.144106	0.297838123
ARNTL	-0.12795188	-1.478909567	0.144168	0.297845774
MMUT	0.144786466	1.480242608	0.144169	0.297845774
RAPGEF2	-0.085162368	-1.479167098	0.144256	0.297965248
TC2N	-0.185487782	-1.479882528	0.144348	0.298069217
CLSTN3	0.174252534	1.482557023	0.144365	0.298069217
YAF2	0.234788889	1.486824214	0.144483	0.298252494
MTMR2	-0.077896297	-1.479080464	0.144517	0.298261936
ATG16L1	-0.094297368	-1.47713767	0.144636	0.298446733
WDFY2	0.168939286	1.476939041	0.144690	0.298498486
HSPA12A	0.273672556	1.480384563	0.144784	0.298631312
BSDC1	0.100520132	1.479875914	0.144834	0.298673582
RNF41	-0.151684774	-1.480097874	0.144999	0.298947959
STX8	0.09894562	1.475330811	0.145026	0.298947959
GRB7	0.152659643	1.483177666	0.145096	0.299032306

DHTKD1	0.154825801	1.477906713	0.1451778	0.299138289
CNOT10	0.052892508	1.478736969	0.1452248	0.299174353
WDR12	0.110202519	1.47767605	0.1453254	0.299275925
MOSPD1	0.293520175	1.488280493	0.1453331	0.299275925
TTF1	0.123808759	1.473671271	0.1455445	0.299596006
PHYHD1	0.206429211	1.476024383	0.1455475	0.299596006
ERAL1	0.169061053	1.478502403	0.1455896	0.299621795
C4BPB	-0.253536032	-1.472853492	0.1457488	0.299888761
FANCD2	0.135912237	1.472907918	0.1458418	0.2999824
MAPK8IP3	-0.250614583	-1.520109181	0.1459438	0.2999824
COL21A1	-0.296311823	-1.472744938	0.1459565	0.2999824
FAM49B	-0.101983729	-1.471883858	0.1459586	0.2999824
BTN3A2	0.201523034	1.477996432	0.1459626	0.2999824
CLDN3	0.241397897	1.47470982	0.1459711	0.2999824
UBE3A	0.068267293	1.477022297	0.1461836	0.300234955
CBLC	-0.222357059	-1.472857038	0.1461908	0.300234955
UFD1	-0.065130639	-1.472518303	0.1462151	0.300234955
SQSTM1	-0.110346955	-1.47276381	0.1462222	0.300234955
HSPB2	-0.469458647	-1.479640981	0.1462425	0.300234955
AIG1	0.269346617	1.474065353	0.1462768	0.300244744
TPTEP2.CSNK	0.096084925	1.47070939	0.1463286	0.300290271
SERPINB9	-0.305722462	-1.480856254	0.1464585	0.300496032
UROD	-0.120762237	-1.469722091	0.1466175	0.300761462
MSL3	0.084210846	1.469147018	0.1467286	0.300927368
EML4	0.110861233	1.470774784	0.1467859	0.300985379
SRSF10	0.073329603	1.467670771	0.1470996	0.301524225
KLHDC9	-0.303451667	-1.481941659	0.1471081	0.301524225
INO80D	0.157375875	1.470597212	0.1472533	0.30176093
MRPL55	0.146935714	1.47191571	0.1472991	0.301793813
GIGYF2	0.053505265	1.470113568	0.1474118	0.301962705
SPTLC2	-0.097049705	-1.466390682	0.1474411	0.301962705
HOXB8	0.472419841	1.477461676	0.1475843	0.302195148

OMD	-0.323154167	-1.470624232	0.1476335	0.302234964
KXD1	-0.080584342	-1.466496658	0.1477001	0.302310279
YEATS2	0.060387368	1.465759402	0.1477420	0.302335045
XPO4	0.05673012	1.465284981	0.1477951	0.302379024
TSPAN13	0.207576504	1.465019856	0.1478231	0.302379024
TSEN54	0.094924624	1.465164885	0.1479232	0.302471384
RRAGC	-0.110074511	-1.466540523	0.1479494	0.302471384
LGALS7B	0.469900179	1.480304485	0.1479576	0.302471384
ABLIM1	-0.186188929	-1.464621668	0.1481033	0.302573394
AEBP1	-0.251240432	-1.465609636	0.1481102	0.302573394
DACT3	-0.402058114	-1.474285643	0.1481241	0.302573394
UBE2L6	-0.149463158	-1.464224576	0.1481285	0.302573394
SOX4	0.166696729	1.463763164	0.1481724	0.302573394
UBXN6	-0.087871805	-1.464349102	0.1481864	0.302573394
KLHL5	-0.161842458	-1.469211535	0.1484355	0.303021068
ASB1	-0.148887196	-1.47271689	0.1485798	0.303254626
TANGO6	-0.122878194	-1.468146325	0.1487104	0.303442137
H6PD	-0.121452199	-1.462838303	0.1487550	0.303442137
PLLP	0.329927677	1.46438438	0.1487613	0.303442137
SAE1	0.071228301	1.462435592	0.1488607	0.303583803
PTRH2	0.191394571	1.46127795	0.1489659	0.303724224
SBDS	-0.147548733	-1.460915846	0.1489923	0.303724224
NOB1	0.116457895	1.462347828	0.1490596	0.303724224
MRPL14	0.161748233	1.462303644	0.1490689	0.303724224
KRT5	0.576688346	1.460698538	0.1490792	0.303724224
PUM2	0.057695498	1.464785503	0.1491265	0.303759729
CDKN1A	-0.214234096	-1.460743191	0.1492555	0.303961434
C4BPA	-0.266984586	-1.459433249	0.1494072	0.304209264
UTP20	0.153787406	1.462961081	0.1495376	0.304413888
PSMB10	-0.199847051	-1.466132821	0.1496258	0.304532343
RAB38	0.18705922	1.467191998	0.1497260	0.304675057
SLC1A1	0.47506453	1.48996727	0.1497615	0.304686192

FUCA2	-0.16880835	-1.461102462	0.1498046	0.304712764
SNX30	0.16035844	1.458855972	0.1498896	0.304821222
GID4	-0.150093003	-1.462242534	0.1499179	0.304821222
SERPINC1	-0.252552782	-1.457344207	0.1499696	0.304863987
GLMN	0.100858759	1.458626552	0.1500321	0.304931081
IARS1	0.082715199	1.456648585	0.1501229	0.305053753
POM121	0.239295238	1.474410592	0.1501529	0.305053753
SMYD5	0.098055429	1.464536065	0.1501878	0.305064402
SACS	0.148986541	1.462996552	0.1502261	0.305081195
DPH7	0.123410301	1.455962831	0.1502949	0.305159734
HAND2	-0.406006667	-1.4887881	0.1504541	0.305423086
CIAO2B	-0.092254801	-1.456929805	0.1504991	0.305452218
RNASEH2B	-0.126798308	-1.457017955	0.1505509	0.305494987
MSX1	0.265207763	1.45699719	0.1506009	0.305535835
ANGEL2	0.158952519	1.454838187	0.1506512	0.305577614
RAB27B	0.235091955	1.463484803	0.1507018	0.30561912
CASTOR1	-0.172671617	-1.454726065	0.1507571	0.305671332
DBT	0.14821094	1.455819627	0.1508581	0.305813942
FBXL18	0.100097344	1.455539819	0.1509212	0.305880656
IGLL1	-0.22732156	-1.453207067	0.1511196	0.306221628
TOP2B	0.118513534	1.452266698	0.1513289	0.30658376
FST	0.560362292	1.459449719	0.1513734	0.306613526
GGT1	0.38888985	1.456775256	0.1515114	0.306746859
POF1B	0.347657068	1.452381581	0.1515228	0.306746859
CWC25	-0.068588252	-1.454336366	0.1515859	0.306746859
FH	0.167530425	1.451476594	0.1515861	0.306746859
SNRPB2	0.072455188	1.451741115	0.1516182	0.306746859
TMEM106B	0.193142914	1.455750532	0.1516209	0.306746859
EPB41	0.132362556	1.451579625	0.1517139	0.306874507
SP4	0.184682914	1.454755471	0.1518599	0.307086379
MADD	-0.096141818	-1.45111512	0.1518791	0.307086379
ADAMDEC1	-0.262124169	-1.452453783	0.1521826	0.307573312

AUH	0.145639098	1.452102257	0.1521986	0.307573312
TFCP2	0.129336805	1.455684303	0.1522642	0.307573312
ZNF664	0.146570583	1.449615431	0.1522887	0.307573312
TBXAS1	-0.227532895	-1.452468463	0.1523010	0.307573312
ERLEC1	0.109855729	1.45144904	0.1523018	0.307573312
PPDPF	-0.320816456	-1.490608314	0.1524909	0.307869411
DVL2	-0.091287237	-1.44914822	0.1525097	0.307869411
FRK	-0.12712906	-1.449503126	0.1526057	0.308003313
DDX23	0.070210861	1.447265724	0.1527206	0.308173902
LZTS3	-0.120728929	-1.449998636	0.1529160	0.308506755
CAMSAP3	0.102689286	1.448844446	0.1530175	0.308650267
LRPAP1	0.16292012	1.450619059	0.1532085	0.308887621
SLC33A1	0.20878015	1.446120001	0.1532355	0.308887621
SLC14A1	0.47130268	1.450361076	0.1532545	0.308887621
RWDD3	-0.189588235	-1.450490705	0.1532569	0.308887621
MRPL3	0.139289372	1.447282748	0.1534534	0.309161211
CAMK4	0.325014786	1.459241536	0.1534638	0.309161211
RASSF7	-0.101839211	-1.444511051	0.1534840	0.309161211
PHC1	0.115973011	1.444264226	0.1537248	0.309547725
RAP2C	-0.193045716	-1.445968892	0.1537369	0.309547725
ABHD4	0.109449211	1.443155963	0.1538552	0.309724391
KEAP1	-0.073636654	-1.44387522	0.1539240	0.309801505
MRPL4	0.138657331	1.442586675	0.1544209	0.310645769
DNASE2	0.132013421	1.44117216	0.1544280	0.310645769
ACOX2	0.224888704	1.458491941	0.1544467	0.310645769
STK32C	-0.310296467	-1.467026552	0.1544659	0.310645769
RCAN3	-0.148474658	-1.445046917	0.1545058	0.310664485
ARID3A	0.221226936	1.446130028	0.1545918	0.310775796
DHPS	-0.105927671	-1.440774971	0.1546282	0.310787527
RB1	0.119027425	1.440295625	0.1548509	0.311173481
YY1	0.144211639	1.440944534	0.1550977	0.311606435
NDUFV1	-0.131556695	-1.438709591	0.1552337	0.311819274

PPP4R3A	0.079970301	1.439243552	0.1552662	0.311822787
VASH1	-0.241952857	-1.444355952	0.1555885	0.31236178
AKR1C3	-0.446307331	-1.444664178	0.1555961	0.31236178
CD3EAP	0.118514417	1.440212885	0.1557122	0.312465372
ZMYM1	-0.116037068	-1.437131198	0.1557241	0.312465372
NDUFB1	0.21782318	1.437077861	0.1557401	0.312465372
MFSD5	0.252822839	1.439458878	0.1558532	0.312630502
CTSE	-0.69418069	-1.444642352	0.1561010	0.313050617
NUSAP1	0.153999367	1.444413993	0.1561243	0.313050617
SRSF1	0.074945357	1.434919996	0.1563344	0.313410021
THBS1	-0.300635996	-1.434117867	0.1567051	0.314092309
H4C7	0.309448889	1.466002977	0.1568595	0.31432889
PM20D2	-0.211202895	-1.435630375	0.1568851	0.31432889
U2SURP	0.076200564	1.432671952	0.1569333	0.314362288
KIF11	0.17174703	1.435689105	0.1570290	0.314491819
SUFU	-0.092926485	-1.432503275	0.1570743	0.314520617
FAM81B	-0.242305952	-1.439396609	0.1574151	0.315141963
ANKZF1	-0.149630263	-1.4324389	0.1576064	0.315461578
MTMR3	0.077194699	1.432635117	0.1578750	0.315936815
BBIP1	-0.146606637	-1.435195442	0.1580605	0.316245776
UBE2D4	-0.184460417	-1.445056517	0.1581704	0.316403245
CRIM1	0.155554244	1.429726846	0.1583911	0.31678233
SHANK2	-0.127171429	-1.428168869	0.1585319	0.316845973
ZNF581	0.13264542	1.427748017	0.1585496	0.316845973
INA	0.319854519	1.432775887	0.1585505	0.316845973
SEPTIN6	-0.132420955	-1.42746485	0.1585690	0.316845973
SPOCK2	0.355247992	1.452962115	0.1585790	0.316845973
C2orf68	0.151654574	1.426776133	0.1587512	0.31712748
PIK3C2B	-0.106499199	-1.430965898	0.1588065	0.317175679
SOD1	-0.114127387	-1.425446731	0.1590746	0.317648482
MACROH2A2	0.201289274	1.424963456	0.1591900	0.317770865
LRRC8E	0.12267282	1.425248272	0.1592238	0.317770865

RPL36	0.184190395	1.429158906	0.1592577	0.317770865
CCDC84	0.161545806	1.430504437	0.1592611	0.317770865
EIF3F	-0.057179846	-1.423363156	0.1596994	0.31858281
PDE3A	-0.17418594	-1.422566215	0.1597655	0.318651561
SPCS3	0.172267838	1.421541775	0.1600146	0.319086154
EPHX2	-0.261505902	-1.424602228	0.1601695	0.319332421
PCOLCE	-0.299000977	-1.423831984	0.1602240	0.319378219
NSMCE2	0.107330494	1.42030642	0.1604925	0.319850746
MFN2	0.067541654	1.420161932	0.1605538	0.319910015
ASF1A	0.123185451	1.419883631	0.1606659	0.320070543
AMBRA1	-0.08610218	-1.420799569	0.1607175	0.320090743
CTSV	-0.370082744	-1.422076744	0.1607391	0.320090743
PTP4A1	-0.132155733	-1.423552002	0.1609564	0.320408264
TFF3	-0.374986842	-1.421176838	0.1609617	0.320408264
FAIM	-0.157155338	-1.421183697	0.1609944	0.320410507
LIMS1	-0.195051579	-1.418035668	0.1610709	0.320457217
DOLK	0.255072536	1.429597766	0.1610810	0.320457217
FAM91A1	-0.073093515	-1.418686255	0.1612491	0.320728792
GOLGA1	-0.073982686	-1.418868934	0.1613058	0.320778631
TPD52L1	0.23903703	1.416163279	0.1616251	0.321350681
KRT15	-0.498404403	-1.417329935	0.1619055	0.321844698
PRR5	-0.258443889	-1.422459321	0.1621820	0.322331669
CBX8	0.102350602	1.413918673	0.1622379	0.322341316
BMS1	0.122529831	1.420396341	0.1622504	0.322341316
NFKBIB	-0.074957752	-1.413687263	0.1623454	0.322466915
MARK1	0.165062645	1.414339305	0.1623999	0.322512195
ZSCAN21	0.112831634	1.414282568	0.1625365	0.322719903
TP53RK	0.112995865	1.41581832	0.1626442	0.322870912
CBX3	0.129760301	1.413163606	0.1627675	0.323052624
PRPH	0.349861143	1.428706307	0.1628426	0.323137036
NEK1	-0.127099515	-1.413868055	0.1628738	0.323137036
NOLC1	0.176799248	1.41396134	0.1632009	0.323627576

CCDC91	-0.147778496	-1.420246121	0.1632234	0.323627576
DDX10	0.13000406	1.415129279	0.1632380	0.323627576
PTP4A2	-0.098968929	-1.411178249	0.1633064	0.323627576
RMC1	-0.097391833	-1.413644856	0.1633079	0.323627576
PTEN	-0.234201278	-1.412815146	0.1633123	0.323627576
CASZ1	0.159903256	1.413353201	0.1633702	0.323666713
RHOT2	0.14517594	1.409882087	0.1634192	0.323666713
CTSC	-0.219968421	-1.409868049	0.1634277	0.323666713
ME2	0.142756372	1.413223737	0.1634925	0.323711088
C16orf91	0.227713682	1.411214314	0.1635139	0.323711088
IRF2BP1	0.069264229	1.410495019	0.1637778	0.32417027
DHX32	0.092901353	1.408721796	0.1638628	0.324275281
RBM19	0.081636654	1.413422332	0.1640129	0.32450913
VAPA	0.168079718	1.406948039	0.1644357	0.325282236
DENR	0.077262562	1.407583014	0.1645109	0.325367461
F3	-0.302606391	-1.40796533	0.1645598	0.325400909
WDFY3	0.053269699	1.407078111	0.1648048	0.325821808
LDLR	-0.16562218	-1.406802503	0.1648799	0.325906825
GATD1	-0.114087143	-1.405780569	0.1649509	0.325919989
CLEC14A	-0.144464259	-1.412740302	0.1649807	0.325919989
CDC20B	-0.421519176	-1.417868566	0.1650034	0.325919989
NABP2	0.104992374	1.404467799	0.1650150	0.325919989
PURB	0.112407462	1.405940381	0.1650947	0.326013899
CDR2	-0.208752143	-1.406267861	0.1654200	0.326542018
HERPUD1	0.154190602	1.403359072	0.1654556	0.326542018
AK3	0.151524718	1.405001314	0.1654586	0.326542018
GALC	-0.189628008	-1.406861593	0.1655097	0.326578113
NEURL4	-0.072288195	-1.405728759	0.1657074	0.326905853
RPRD1A	0.14230709	1.405048661	0.1657747	0.326975076
NPRL2	-0.126696579	-1.40443877	0.1659373	0.327232267
KMT2B	0.102208402	1.401533933	0.1660407	0.327371225
CLCN5	0.143141485	1.400174346	0.1663863	0.327990275

SCAF11	0.085927049	1.400403409	0.166489	0.328129173
TNRC6A	-0.063788872	-1.403143448	0.166534	0.328154118
CLP 1	0.058445508	1.399498697	0.166668	0.328354148
MED18	-0.065165947	-1.398417115	0.166814	0.328579719
C12orf57	-0.103763996	-1.398608332	0.166897	0.328668249
TXLNA	-0.071181241	-1.398623345	0.166924	0.328668249
TBRG4	0.175831391	1.400515741	0.167006	0.328766548
PON3	-0.261488064	-1.397987966	0.167138	0.328949032
CCS	0.099798233	1.397272346	0.167164	0.328949032
TM9SF3	0.173287594	1.39834121	0.167246	0.329047569
NUPR1	-0.324122222	-1.40106127	0.167470	0.329367562
ASPA	-0.467767857	-1.409682455	0.167474	0.329367562
CRTAP	0.136501767	1.400320146	0.167559	0.329470199
HNF4G	-0.225626815	-1.404445246	0.167620	0.329526775
RBM15B	0.072045308	1.39522209	0.167775	0.329721663
HDAC7	-0.085220677	-1.396177443	0.167799	0.329721663
NDUFB9	0.125590263	1.39536125	0.167816	0.329721663
TMC4	0.201910526	1.397762859	0.168032	0.33008119
RBMX2	0.076377838	1.393683933	0.168268	0.330480463
ZNF658	-0.170894792	-1.39848954	0.168313	0.330505985
WWP1	0.139320677	1.394654939	0.168358	0.330528843
CDC37L1	-0.065904414	-1.392186979	0.168689	0.331014472
PLAC9	-0.425035018	-1.40236839	0.168697	0.331014472
ANKRD22	0.246692481	1.394109311	0.168703	0.331014472
SUMO2	0.098021474	1.39159182	0.168968	0.331470129
PLA2G6	0.240118298	1.398121984	0.169193	0.331791233
ZBTB33	0.084506203	1.390619381	0.169197	0.331791233
C1QBP	0.216627594	1.392728098	0.169322	0.331913518
MPG	0.074917331	1.393338063	0.169349	0.331913518
RPL5	0.123086241	1.394217224	0.169357	0.331913518
FAM50A	-0.079143158	-1.389607898	0.169541	0.332208716
DMPK	-0.309729061	-1.40903361	0.169645	0.33229253

CCL14	-0.229737104	-1.392279051	0.1696492	0.33229253
TUT7	0.076202744	1.388823992	0.1697023	0.332319377
VPS13A	-0.085765865	-1.392783893	0.1697284	0.332319377
EFNB2	-0.241826729	-1.394150587	0.1698136	0.33242213
ZWILCH	0.114567895	1.389894271	0.1700264	0.332767403
GGCT	0.163090865	1.387898053	0.1700556	0.332767403
CD276	0.144580598	1.389808484	0.1701015	0.332793122
POP5	0.125310508	1.388638845	0.1702908	0.333099241
MISP3	-0.243970094	-1.390965006	0.1703599	0.333170179
KIF1C	-0.083202989	-1.385807636	0.1707282	0.3337981
TERF2	0.087256992	1.385778239	0.1707467	0.3337981
C1orf50	-0.092580075	-1.386507848	0.1708177	0.333869525
PECAM1	-0.153409192	-1.386883781	0.1708490	0.333869525
ANKRD50	-0.111558135	-1.392062869	0.1709919	0.334084445
DEFB1	-0.481850855	-1.387324385	0.1710745	0.334181382
RPS24	0.176044286	1.388842835	0.1711523	0.334216104
SYNGR1	-0.267653829	-1.387481138	0.1711587	0.334216104
GPX8	0.22684688	1.385280285	0.1712209	0.334274498
NECTIN3	0.2204	1.386262232	0.1712622	0.334286604
SURF1	0.173626278	1.389758217	0.1713047	0.334286604
NFATC2IP	-0.098248289	-1.383971497	0.1713260	0.334286604
ALKBH1	-0.169943704	-1.390036063	0.1714104	0.334318338
PLCL1	-0.281305506	-1.384484512	0.1714207	0.334318338
C11orf96	-0.318447519	-1.384152387	0.1714410	0.334318338
PSMG3	-0.10355047	-1.387411984	0.1716452	0.334652193
CD3E	-0.241381857	-1.395714289	0.1718700	0.335013154
GSPT1	-0.058904098	-1.381715432	0.1719064	0.335013154
COX17	-0.168150273	-1.382526798	0.1719294	0.335013154
PPIL6	-0.406077778	-1.398296256	0.1719948	0.335076412
TRMT11	-0.146281786	-1.389854224	0.1720400	0.335100111
KIF16B	-0.076133684	-1.381082907	0.1721453	0.33523187
ETFDH	-0.151778609	-1.381662849	0.1721737	0.33523187

GDF15	-0.268585902	-1.386320033	0.1723259	0.335463771
DCTN1	-0.067880156	-1.380652868	0.1724689	0.335677746
ELOC	-0.074293199	-1.3796216	0.1725069	0.335686196
KATNB1	-0.150338158	-1.383950697	0.1727267	0.336050616
PKMYT1	0.168851257	1.38822227	0.1729509	0.336320363
NPRL3	-0.105300135	-1.384306043	0.1729518	0.336320363
SRP19	-0.102553158	-1.378401672	0.1729900	0.336320363
ATP5F1A	0.125680903	1.37920053	0.1729978	0.336320363
OSBPL5	0.101667774	1.379315013	0.1730986	0.336451836
NACC1	0.089899763	1.379781858	0.1731880	0.336513556
RAB1A	0.157697143	1.377384372	0.1731967	0.336513556
CHFR	-0.078406534	-1.379858177	0.1732976	0.336645211
PSMD14	0.050260336	1.377884246	0.1733644	0.336660841
VAMP4	0.166358289	1.378556921	0.1733720	0.336660841
MAP4K2	-0.097246092	-1.378850706	0.1735758	0.336992057
DYNLL1	-0.101915113	-1.376066763	0.1738299	0.337420107
SWAP70	0.102143801	1.378009638	0.1740569	0.337792694
WDR6	-0.075425291	-1.381935818	0.1741012	0.337792694
RTN4	0.17642406	1.3758849	0.1741213	0.337792694
SNRPA1	0.07149438	1.374017891	0.1742469	0.337954334
ARID4B	0.089380718	1.37467594	0.1742823	0.337954334
ARAP2	-0.191529878	-1.386149476	0.1743308	0.337954334
GRB14	0.287950752	1.374271394	0.1743378	0.337954334
LCAT	-0.174669396	-1.373739064	0.1744129	0.338035385
SERPINB7	0.3503125	1.399292237	0.1745809	0.338296472
CFB	-0.21407782	-1.372865694	0.1746245	0.338316399
RDH14	-0.067738026	-1.372511819	0.1746974	0.338392967
PCMTD1	0.12387482	1.377915757	0.1748187	0.338562657
EPDR1	-0.28893703	-1.377702492	0.1748517	0.338562657
THOP1	0.088440545	1.370477085	0.1753515	0.339465197
FRMD4A	0.174927888	1.371193478	0.1754632	0.339617065
PHF1	-0.109901219	-1.370816222	0.1757650	0.340136311

C1QTNF3	0.221976987	1.373268107	0.1761198	0.340757961
KLHL7	-0.091607594	-1.367507134	0.1762507	0.340946223
GALNT11	0.13053891	1.368954741	0.1767108	0.341770542
FHIT	0.123981335	1.366189667	0.1768282	0.341933158
ULBP3	0.237479688	1.368261639	0.1771674	0.34252371
SECISBP2	0.091127387	1.365385057	0.1772116	0.34254391
PHF20L1	0.069418083	1.372902585	0.1773338	0.342714963
PSMA5	-0.079141128	-1.365930255	0.1774996	0.342913581
KALRN	-0.249025301	-1.365280351	0.1775042	0.342913581
UQCRC1	0.16261485	1.363863008	0.1775717	0.342977453
PMM1	-0.13206316	-1.366608228	0.1776048	0.342977453
HMGCS2	0.402967479	1.382590948	0.1777207	0.343134862
OSGEPL1	0.166465564	1.363420171	0.1777655	0.343156864
RNF25	-0.077221429	-1.368139102	0.1778015	0.343161362
NUP214	0.053009767	1.362818021	0.1778526	0.343193561
SNAPC4	-0.143535218	-1.364089329	0.1780075	0.343428283
FAT1	0.126206278	1.364376138	0.1780628	0.343442329
INHBB	0.351928111	1.372579962	0.1780824	0.343442329
ISYNA1	-0.217998609	-1.367131514	0.1782278	0.343638529
SMURF2	-0.14198105	-1.362215204	0.1782519	0.343638529
FAM92B	-0.510622604	-1.379928724	0.1783159	0.343675178
GPRC5A	0.33550891	1.369029284	0.1783386	0.343675178
GGNBP2	-0.114291805	-1.363080262	0.1783733	0.343676877
ZNF292	0.106356955	1.361452005	0.1784666	0.343790756
ARID5B	-0.07201515	-1.362462169	0.1785277	0.343843702
MPST	-0.144546729	-1.360072392	0.1786988	0.344107432
ZFAND1	-0.090238853	-1.359785289	0.1788357	0.344305095
RALGAPA2	-0.095334586	-1.359476472	0.1789777	0.344513271
GOLM1	-0.211415602	-1.358651132	0.1790267	0.344543245
NAA80	0.186720299	1.359187358	0.1792132	0.344836935
RPS29	0.102671335	1.358367836	0.1792979	0.344934403
GTF3A	-0.112489098	-1.358081746	0.1796407	0.345469338

COA7	0.140577726	1.359239546	0.1796440	0.345469338
RBM42	0.146581823	1.356726352	0.1796984	0.34550854
AIF1L	0.218291992	1.360858161	0.1799022	0.34583484
COX6A1	-0.234665977	-1.357029171	0.1801570	0.346259141
SEPTIN11	-0.185766711	-1.358646452	0.1802291	0.346331995
NUDT2	-0.130383083	-1.358005196	0.1802990	0.346400867
PHC3	-0.075266461	-1.354821741	0.1804407	0.346607489
CDC42BPB	-0.072978139	-1.356977787	0.1806283	0.346876155
LAMA5	0.12300156	1.354903367	0.1806490	0.346876155
ANK2	-0.216526316	-1.356871082	0.1807473	0.346999374
KAT2A	0.080828695	1.3534898	0.1807930	0.347007651
NDUFV2	-0.128114662	-1.353210812	0.1808200	0.347007651
SAR1A	0.092156152	1.355225885	0.1809913	0.347266558
GLDC	-0.290013346	-1.353689974	0.1810233	0.347266558
IL1R1	0.260464725	1.353515017	0.1810629	0.347276016
A2ML1	0.486606222	1.35743531	0.1812416	0.347475785
MRM3	0.125338195	1.353502353	0.1812562	0.347475785
POLR3H	-0.08081515	-1.351676641	0.1812974	0.347475785
SRPX2	-0.155441541	-1.352160127	0.1813036	0.347475785
CD55	-0.273355714	-1.350474799	0.1816234	0.348023083
DALRD3	-0.128535076	-1.36508448	0.1818198	0.34822925
HSPA14	0.098789019	1.353465661	0.1818308	0.34822925
KPNA2	-0.148737406	-1.349849288	0.1818339	0.34822925
ZNF830	0.075632331	1.351018965	0.1818977	0.348285603
GPATCH4	0.162940947	1.354168361	0.1820239	0.348461469
PSMB9	-0.167369763	-1.354137732	0.1821779	0.34858392
C11orf52	0.190531154	1.349787967	0.1821889	0.34858392
LUC7L2	0.07949225	1.350836021	0.1822009	0.34858392
FTO	0.085269974	1.348947342	0.1822252	0.34858392
TRAF2	0.081819492	1.349961317	0.1823160	0.348670833
WDR25	-0.151062652	-1.352938564	0.1823390	0.348670833
FBXO9	-0.202451584	-1.371897123	0.1823816	0.348685923

GHDC	0.135681147	1.351264798	0.1825317	0.348885155
MRPL30	0.135533318	1.349352648	0.1825880	0.348885155
VBP1	0.07331797	1.347522305	0.1826169	0.348885155
GBA	0.119317632	1.350006066	0.1826235	0.348885155
HBZ	-0.35217267	-1.34996966	0.1826978	0.348961883
ESCO2	0.203620067	1.349781639	0.1828231	0.349135552
PLEKHA3	-0.09502438	-1.347636295	0.1830265	0.34945501
DIABLO	0.108638872	1.350607131	0.1830590	0.34945501
NSDHL	0.112702184	1.346160446	0.1831720	0.349605055
BOLA3	0.182258271	1.346759077	0.183304	0.349790487
PNPLA8	0.105027556	1.350307393	0.1834091	0.349925388
TERF1	0.0985675	1.346112024	0.1835334	0.350096679
MGA	0.06595641	1.346315441	0.1836521	0.350257204
B4GALT3	0.149440414	1.346360248	0.1836998	0.350282431
ZBTB47	-0.199212765	-1.351679908	0.1837785	0.350366741
MTHFD1L	0.138952205	1.347706489	0.1838304	0.350399782
ANKRD45	-0.501084016	-1.344991577	0.1839245	0.350513376
RAB35	0.118244624	1.343713369	0.1840099	0.350610348
ITGB6	0.228140827	1.342906297	0.1840457	0.350612689
MDH2	0.146963895	1.343424705	0.1843095	0.351049383
KIF13A	-0.095090752	-1.341362716	0.1846039	0.351544171
MATN2	0.362281203	1.342704735	0.1846524	0.351570442
DENND4B	-0.093858233	-1.346032671	0.1847992	0.35178407
HYKK	-0.182080952	-1.357387454	0.1849469	0.35188117
DOCK6	-0.098964699	-1.345946354	0.1849817	0.35188117
TNRC6B	-0.052230263	-1.339907634	0.1850137	0.35188117
SP110	-0.11407094	-1.342163367	0.1850708	0.35188117
NDUFAF5	0.12579265	1.342495302	0.1850967	0.35188117
NAGPA	0.148134583	1.358244648	0.1851090	0.35188117
NXN	-0.140267256	-1.340025145	0.1851110	0.35188117
CLN6	0.120493722	1.340592532	0.1851536	0.35188117
SLC27A1	-0.174684211	-1.342127875	0.1851631	0.35188117

TARBP1	0.135918947	1.341899762	0.1851969	0.35188117
KIF2C	0.140606353	1.339857315	0.1852988	0.352008793
DUSP19	-0.1940263	-1.344042415	0.1856900	0.352645451
NGDN	0.115073477	1.342914488	0.1857184	0.352645451
UFM1	-0.122746805	-1.339031011	0.1857381	0.352645451
GM2A	-0.136765414	-1.337351719	0.1859997	0.353076052
LEFTY2	-0.287159906	-1.337485118	0.1862648	0.353482274
JMJD6	-0.08837547	-1.338513526	0.1862834	0.353482274
EPM2AIP1	0.220313158	1.335961319	0.1863621	0.353504509
TMEM238	0.151152481	1.336833473	0.1863647	0.353504509
SIRT7	-0.198661212	-1.356298254	0.1864926	0.353671145
SLC41A3	0.240410043	1.339107355	0.1865645	0.353671145
PLCD1	-0.160749624	-1.33702575	0.1865745	0.353671145
TFEB	-0.125552838	-1.33790486	0.1865926	0.353671145
COPA	0.088069474	1.335476324	0.1868122	0.35402246
DCLK1	-0.37031297	-1.33456765	0.1868806	0.354085934
YIPF1	0.114903056	1.336144665	0.1870355	0.354312878
KIF2A	0.084208008	1.334261322	0.1871355	0.354436319
CAT	-0.13972462	-1.332805956	0.1873241	0.354616514
CCDC34	-0.442785152	-1.358469452	0.1873352	0.354616514
PHF2	-0.101883271	-1.333040031	0.1873464	0.354616514
NCBP3	0.050697289	1.332616113	0.1874086	0.354616514
UCK1	-0.109905564	-1.333682271	0.1874340	0.354616514
SPTBN1	0.089942594	1.334871234	0.1874401	0.354616514
RNASET2	0.260635714	1.336164704	0.1876096	0.354839371
VPS53	-0.048585883	-1.333162875	0.1876278	0.354839371
COPE	-0.082330865	-1.333088902	0.1877521	0.35500823
KIFBP	-0.090500921	-1.331320387	0.1878646	0.35501464
ZMIZ2	0.107113609	1.331779063	0.1878995	0.35501464
PAN2	-0.055336805	-1.331501799	0.1879016	0.35501464
SLC27A3	0.143258139	1.331455257	0.1879295	0.35501464
XAF1	-0.201701015	-1.331629904	0.1879304	0.35501464

MYO1B	0.153390921	1.333551645	0.1881102	0.355288178
TAX1BP1	0.115503835	1.336709152	0.1882242	0.355411663
CEP44	-0.112095451	-1.331164408	0.1882456	0.355411663
UGT8	0.157808346	1.331880885	0.1883225	0.355422699
ZNF436	0.115450676	1.332575966	0.1883966	0.355422699
HIVEP2	-0.107982932	-1.332098937	0.1884636	0.355422699
CASK	0.091890113	1.336699263	0.1885114	0.355422699
CEP192	-0.064539492	-1.332669945	0.1885357	0.355422699
SSB	0.09167313	1.331360388	0.1885377	0.355422699
FAM161A	-0.202976316	-1.341399969	0.1885552	0.355422699
YIF1B	0.162021024	1.330859308	0.1885624	0.355422699
TSPAN15	0.221623214	1.32975466	0.1885666	0.355422699
ESRP2	-0.129368814	-1.328304022	0.1888567	0.355903492
MRTFA	-0.141081128	-1.332726141	0.1889300	0.355976029
CRNN	0.57188	1.35610297	0.1889909	0.356024221
ZDHC4	0.176960577	1.331674262	0.1892576	0.356460438
IGHMBP2	0.067753891	1.330536683	0.1893040	0.356481589
CAPN15	-0.064779511	-1.327766922	0.1893804	0.356559344
ABCC4	0.209934737	1.327260859	0.1894393	0.356604038
DNASE1L1	0.281876504	1.331611372	0.1895066	0.356664736
UHRF1BP1L	-0.070161857	-1.329772488	0.1895498	0.356679805
UNC45A	-0.067948722	-1.325811433	0.1896159	0.356738143
PHF20	-0.124760077	-1.329478756	0.1898673	0.35708619
CA1	0.372523684	1.325052946	0.1898713	0.35708619
GAPVD1	-0.068996071	-1.324748896	0.1899837	0.357177465
SUPT7L	-0.12183641	-1.330737753	0.1900134	0.357177465
UTP14A	0.125459211	1.327044268	0.1900563	0.357177465
ARAP3	-0.120383647	-1.328271904	0.1901133	0.357177465
CDC42BPG	-0.102751241	-1.324316698	0.1901216	0.357177465
ATAD3B	-0.227064306	-1.332845767	0.1901310	0.357177465
FCHO1	0.290156	1.332019669	0.1902758	0.357358727
MAML1	0.082910038	1.325326199	0.1902979	0.357358727

SSRP1	0.105860639	1.324235221	0.1903404	0.357372404
GTPBP2	-0.094238423	-1.324133126	0.1903933	0.357405597
UBXN7	0.068113722	1.323320452	0.1904370	0.357406886
TMTC4	0.175472242	1.324656389	0.1904644	0.357406886
TBC1D7	0.08912953	1.324516214	0.1905402	0.357483021
KLHL20	-0.074710395	-1.322934612	0.1906672	0.357655201
RAB39A	-0.161104	-1.339676961	0.1908105	0.357857987
HSPA13	0.129082237	1.323402706	0.1909675	0.358020315
SLC7A2	-0.208527143	-1.333894373	0.1909676	0.358020315
WDR33	0.069067312	1.32037395	0.1914472	0.358853056
NDUFA3	0.177072331	1.322215532	0.1915378	0.358956589
SAC3D1	0.125119482	1.322885067	0.1916184	0.359041406
CHEK1	0.155222632	1.321463412	0.1918044	0.359323509
LOXL2	0.21234812	1.320298595	0.1919426	0.359516183
ELOVL5	0.229292519	1.319406979	0.1920365	0.359615994
PYCR1	0.242241925	1.318989604	0.1920755	0.359615994
SRSF4	-0.076149094	-1.319610047	0.1921022	0.359615994
SMOC2	-0.285266429	-1.319770486	0.1922022	0.359736882
HSPD1	0.189783647	1.3192177	0.1922555	0.359770634
NDUFA7	-0.122316188	-1.317705292	0.1923004	0.359787854
GCLM	-0.135717857	-1.322018531	0.1925197	0.36011562
KARS1	-0.088459098	-1.319868875	0.1925465	0.36011562
SULT2B1	-0.255494624	-1.316560671	0.1927472	0.360419549
PRPF40B	-0.094095564	-1.322136343	0.1927800	0.360419549
LIMA1	0.108545301	1.316976289	0.1929786	0.360712742
SYAP1	-0.120889267	-1.317822208	0.1930079	0.360712742
EIF2B5	-0.069651842	-1.318427022	0.1933602	0.361238608
HNMT	-0.221764737	-1.320519474	0.1933605	0.361238608
CHMP4A	-0.094641331	-1.316340654	0.1937609	0.361919996
MED27	0.093289925	1.313359369	0.1938465	0.362012882
HSD17B8	0.141671233	1.314370485	0.1939792	0.362128313
SBSN	0.385770897	1.323121446	0.1939794	0.362128313

TNPO3	0.082681865	1.316657208	0.194017	0.362131989
HACL1	-0.14622735	-1.313608086	0.1941015	0.362169261
NDUFAF2	0.134342293	1.315836756	0.1941084	0.362169261
ZNF423	0.281381278	1.322919904	0.1941776	0.362215876
PBX1	-0.194706654	-1.318661163	0.1942048	0.362215876
BCLAF3	0.085034925	1.318535557	0.1942786	0.362258772
ZCCHC2	-0.120283654	-1.315668392	0.194299	0.362258772
PTGES2	0.111866917	1.312146478	0.194350	0.362288392
DNAJC5	0.156561947	1.31141034	0.1944132	0.36233826
RPS27A	-0.145476504	-1.313466206	0.1945188	0.362408714
SNRPE	0.230151128	1.311076637	0.1945224	0.362408714
VPS16	-0.061085314	-1.313319439	0.1945606	0.362413334
MFAP1	0.063038613	1.310253115	0.1948344	0.362856748
DDX28	0.135807801	1.311295997	0.1948865	0.362886922
AP2B1	-0.052225872	-1.31250298	0.194931	0.362904833
PAXIP1	0.059759154	1.311250062	0.1950415	0.363042608
FCER1G	-0.269178722	-1.308325187	0.1955086	0.363845379
NIFK	0.124598628	1.310954147	0.195571	0.363895056
ERAP2	0.377548083	1.30840009	0.1959798	0.364588706
ESYT2	0.113822763	1.30840182	0.1960782	0.36470491
ZC3H8	0.136270865	1.310109421	0.1962605	0.364897444
NSMCE4A	0.124669748	1.309474101	0.1962688	0.364897444
WDR37	-0.063517406	-1.305990803	0.1962896	0.364897444
USP32	-0.083437427	-1.306634948	0.196330	0.364907036
GRHL1	-0.139658739	-1.307341859	0.1964616	0.365061809
ACP6	0.168393985	1.309138763	0.1964859	0.365061809
RPS3A	0.089445752	1.30758162	0.1967516	0.365475163
TPMT	0.128405165	1.305258378	0.1967804	0.365475163
AMPD2	-0.082875679	-1.304018107	0.1970614	0.365930042
NAB2	-0.150251015	-1.307124276	0.1971098	0.365953013
KDM4A	0.086383361	1.303139062	0.1972535	0.36615274
CAMSAP1	-0.079022162	-1.302652858	0.197428	0.366410962

NR2C2	0.076541485	1.302210975	0.1975145	0.366473613
RUNDC1	-0.088843515	-1.303016085	0.1975600	0.366473613
ZNF655	-0.22322537	-1.316776	0.1975760	0.366473613
PJA2	-0.086502147	-1.302426688	0.1976480	0.366473613
PIAS2	0.085929211	1.303572585	0.1976854	0.366473613
EYA3	-0.107748797	-1.30383872	0.1977011	0.366473613
NOSTRIN	0.187366541	1.304898665	0.1977152	0.366473613
UNC93B1	-0.200236917	-1.301303997	0.1979029	0.366754539
CKS1B	0.173655758	1.302876499	0.1979549	0.366777795
CDK10	-0.27474326	-1.313644973	0.1979878	0.366777795
MYO9A	-0.111989925	-1.300341944	0.1982192	0.367139642
HES1	0.111315294	1.302453994	0.1983396	0.36729562
PLXNB1	0.090749925	1.300046959	0.1984591	0.367449983
TRIM65	-0.08777725	-1.29869613	0.1987143	0.367855274
RIDA	-0.14740868	-1.298474952	0.1988169	0.367978121
SLC8A1	-0.210886708	-1.299777543	0.1990099	0.368268185
CASP3	-0.08285847	-1.296993645	0.1992969	0.368732038
GLS	-0.158649658	-1.302227763	0.1993975	0.368851015
EZH1	-0.103386557	-1.298029387	0.1996504	0.369170452
CWC15	0.08239188	1.296368309	0.1996511	0.369170452
SYK	0.119541468	1.296408662	0.1997057	0.369170452
S100A13	-0.196969643	-1.298442244	0.1997157	0.369170452
SERPINB11	0.529839845	1.30378451	0.1998311	0.369316505
FAAP100	-0.094842399	-1.302708839	0.1998844	0.369347798
RBM45	0.067036466	1.296175197	0.2000876	0.369655985
USP9Y	-0.142997937	-1.306746624	0.2001532	0.369708426
KIZ	0.143287895	1.296558451	0.2002711	0.369708426
AGPAT4	-0.218293158	-1.294733421	0.2002727	0.369708426
PRXL2A	-0.186824425	-1.293967572	0.2003267	0.369708426
MED6	0.073294421	1.294047549	0.2003962	0.369708426
ZNF318	0.053775395	1.293765694	0.2004025	0.369708426
UNC119B	-0.143134586	-1.294659487	0.2004341	0.369708426

PICK1	0.114488741	1.297160661	0.2004435	0.369708426
TOMM34	0.119899887	1.297563147	0.2004438	0.369708426
FAM207A	0.103333271	1.293986706	0.2005882	0.36990754
DTX2	-0.152683158	-1.296198364	0.2007008	0.370036057
LRRCC1	-0.195487059	-1.297279963	0.2007574	0.370036057
ABCF1	0.072056692	1.29342248	0.2007675	0.370036057
DNM3	-0.383822932	-1.29358943	0.2008509	0.370123008
MRPS7	0.131335075	1.29318771	0.2011289	0.370567869
INTS11	-0.092139398	-1.297202796	0.2011957	0.37057885
VASN	-0.150780547	-1.29287827	0.2012337	0.37057885
CHMP4C	0.162774571	1.294247031	0.2012712	0.37057885
MBL2	-0.227989291	-1.294687094	0.2012809	0.37057885
SAV1	-0.09612607	-1.292483612	0.2013207	0.370583804
MRPL17	0.132819876	1.293066414	0.2013587	0.370586678
SLC38A9	-0.1767613	-1.293362803	0.2015687	0.370906949
POMP	0.157452256	1.294222057	0.2016178	0.370930045
B3GNT2	0.148227895	1.292825937	0.2016854	0.370987167
ZNF761	0.223352353	1.302948195	0.2018936	0.371302786
SOWAHB	0.182858458	1.289183458	0.2025400	0.372424211
PDZRN3	0.157154361	1.292383307	0.2026058	0.372477742
SERINC3	0.131955508	1.292120336	0.2027040	0.372590666
PPP3CB	-0.118772143	-1.286936368	0.2028482	0.372788368
FDXR	-0.150412406	-1.288071745	0.2029994	0.372998648
TEAD1	-0.174034248	-1.289360376	0.2030568	0.37303653
ITIH2	-0.209345504	-1.286809646	0.2032608	0.373343698
PEX1	-0.103769147	-1.290124879	0.2033124	0.37337105
STARD5	-0.148890977	-1.285769653	0.2033586	0.373388183
KHDRBS2	-0.368375641	-1.313534612	0.2035348	0.373644272
RAMAC	0.073782519	1.285733307	0.2036922	0.373865597
TMEM154	-0.337292271	-1.290490718	0.2037737	0.373946429
PCNP	-0.084757162	-1.285612687	0.2038340	0.373990441
PPP3R1	-0.090613534	-1.284461294	0.2039918	0.374153406

GNG2	-0.204443064	-1.284347006	0.2040328	0.374153406
HIF1AN	-0.091434211	-1.28343398	0.2040334	0.374153406
SPTA1	0.245624248	1.282076717	0.2044429	0.374836052
MPI	-0.121498684	-1.290596175	0.2046511	0.375150562
ADAM9	0.155361692	1.283853904	0.2047815	0.375295421
MRAS	-0.196796273	-1.286593441	0.2048188	0.375295421
MGP	-0.369983271	-1.284081825	0.2048410	0.375295421
LSM 2.00	0.100288308	1.280793265	0.2048894	0.375316349
PTGS1	-0.377231767	-1.281785355	0.2049399	0.375340427
ALDH1A3	-0.255281579	-1.279742646	0.2053179	0.375965619
POP4	0.114499699	1.280465805	0.2053845	0.37601967
TNKS	0.149284323	1.279688352	0.2054552	0.37608122
EBNA1BP2	0.128770301	1.285073256	0.2055334	0.376109662
COPS2	-0.058632989	-1.28229697	0.2055448	0.376109662
PBX3	-0.169005921	-1.282780505	0.2057369	0.376392512
IFI44L	-0.501384098	-1.278325655	0.2060538	0.376905085
C20orf27	-0.167985318	-1.278480157	0.2063502	0.377314015
DOP1B	0.105449586	1.277028595	0.2063517	0.377314015
BRD1	0.068510974	1.276471744	0.2064015	0.377337203
CDK8	0.129657952	1.279511179	0.2065074	0.377462759
RTF2	0.06208515	1.277102263	0.2065746	0.377517568
E2F3	0.107791917	1.275642647	0.2070239	0.378270562
TLE1	0.105833955	1.278879303	0.2071222	0.37827065
ALAD	-0.101852575	-1.274795463	0.2071230	0.37827065
RAB3D	-0.187972519	-1.275585867	0.2071420	0.37827065
RPS5	0.067786316	1.276804341	0.2071976	0.37827065
GNL2	0.11232765	1.276975413	0.2072103	0.37827065
TTC19	0.119069417	1.274103417	0.2072881	0.378344724
FAM98C	-0.106846917	-1.27558401	0.2073460	0.378382257
RARRES1	-0.226155489	-1.274173427	0.2073891	0.378392851
RNF4	-0.187957143	-1.279310261	0.2075562	0.378629811
MIIP	-0.24773756	-1.283902847	0.2076676	0.378761544

SLC38A1	-0.18016495	-1.283081059	0.207703	0.378761544
RERG	-0.304821353	-1.272699766	0.207848	0.378859408
BTBD10	-0.077644925	-1.27862236	0.207880	0.378859408
RPL10	0.113405865	1.273016354	0.207892	0.378859408
CDC45	0.357910606	1.281559932	0.207906	0.378859408
SMC2	0.147817989	1.273168827	0.208102	0.379037539
PLIN3	-0.099105451	-1.271739571	0.208114	0.379037539
PNP	0.149924511	1.271788505	0.208155	0.379037539
MUL1	0.138371297	1.272441254	0.208182	0.379037539
SLC25A32	0.180687622	1.278096974	0.208190	0.379037539
MMACHC	-0.139572688	-1.275992463	0.208316	0.379198707
ND1	0.230469173	1.274231969	0.208575	0.379601566
MFN1	0.064651579	1.273666628	0.208643	0.379658036
SNUPN	-0.082414474	-1.27036623	0.208929	0.380103651
GFM1	0.116006184	1.269286624	0.208963	0.380103651
UBN2	0.100493365	1.268905339	0.209165	0.380403921
FKBPL	-0.138891692	-1.274963106	0.209297	0.380574503
SLC4A1AP	0.068903165	1.269575969	0.209340	0.380585561
HTATSF1	0.079847538	1.267562667	0.209555	0.380908137
TAOK3	-0.081557481	-1.272328643	0.209721	0.381141959
IFIT5	-0.118525639	-1.267038224	0.209783	0.381185028
BCKDHA	0.130314286	1.268362839	0.209970	0.381450657
REXO2	0.104106034	1.267059768	0.210004	0.381450657
SOWAHC	-0.092488102	-1.26831988	0.210202	0.381706333
SRXN1	0.225264267	1.27623159	0.210220	0.381706333
CRP	-0.333168083	-1.268791099	0.210281	0.381746648
LYRM2	-0.157474211	-1.268048111	0.210346	0.381746648
UACA	0.081479361	1.266156951	0.210355	0.381746648
HSPA8	-0.053979305	-1.266978399	0.210482	0.381909524
ESS2	-0.05395218	-1.265691004	0.210597	0.382048971
DPP10	0.291337989	1.272975598	0.210678	0.38204935
RHOA	0.129562801	1.264280393	0.210728	0.38204935

ITIH5	-0.300461891	-1.265372468	0.2107365	0.38204935
RANBP10	-0.114438346	-1.264168247	0.2107610	0.38204935
IAH1	-0.122440019	-1.265019341	0.2107858	0.38204935
DCXR	0.191326541	1.268250539	0.2108889	0.382167959
CABLES1	0.08708753	1.265421777	0.2112409	0.382717185
EXOC5	0.052441391	1.263538111	0.2112674	0.382717185
CCDC114	-0.360242593	-1.273098935	0.2114645	0.38294606
NRGN	0.226732143	1.26217039	0.2114692	0.38294606
THBD	-0.203547446	-1.265670216	0.2115245	0.382977548
YTHDF3	-0.072162553	-1.261868299	0.2116045	0.382978725
HRH1	0.303662125	1.281623649	0.2116385	0.382978725
RSPRY1	0.091558835	1.262383253	0.2116675	0.382978725
CHTF18	0.111943195	1.262857555	0.2117145	0.382978725
CDC42EP3	-0.196001429	-1.263482431	0.2117282	0.382978725
DDX5	0.069354774	1.261948875	0.2117854	0.382978725
DDX49	0.128475564	1.262574864	0.2117895	0.382978725
BBX	-0.061853515	-1.263109997	0.2118455	0.383012158
MRPS18B	0.120737406	1.262147986	0.2119885	0.383203151
SPTB	0.211610808	1.260591946	0.2120325	0.38321449
PPP2R3A	-0.093328387	-1.260177696	0.2123896	0.383791177
SIX1	-0.437426503	-1.261967109	0.2127035	0.384289305
RUFY3	-0.104666992	-1.257981198	0.2129816	0.384714345
APOC2	-0.277342143	-1.258329701	0.2130142	0.384714345
DHX34	0.080058429	1.257080875	0.2134906	0.385443669
IRF7	0.271926061	1.262693319	0.2134940	0.385443669
ATXN10	0.08387562	1.256443946	0.2136514	0.385659345
CENPK	0.148851633	1.259387292	0.2142360	0.386645857
LIMD1	-0.064837797	-1.255666586	0.2145459	0.38705807
NUDT8	-0.154670301	-1.253611044	0.2145475	0.38705807
RRP12	0.120112293	1.2572922	0.2146144	0.38705807
APOL3	-0.151092078	-1.2536451	0.2146170	0.38705807
NCAPH2	0.098263835	1.254838418	0.2148308	0.387364569

DYM	-0.078956634	-1.254913184	0.2148635	0.387364569
FAM241A	0.280721617	1.253494208	0.214947	0.387446861
PEX14	0.115377744	1.251971934	0.2151364	0.387719209
SP3	0.133053271	1.252478038	0.215318	0.387903207
SRGAP1	-0.132045301	-1.2572931	0.215334	0.387903207
RBSN	-0.09079015	-1.252141422	0.215353	0.387903207
CISD1	0.165498271	1.250962211	0.215507	0.388112779
S100A16	-0.212100226	-1.252595059	0.215629	0.388263296
HECA	-0.075812218	-1.250534801	0.215672	0.388268277
HNRNPK	0.068566823	1.251156233	0.215708	0.388268277
DNAJC25	0.182937011	1.251075067	0.215783	0.388333404
U2AF2	0.069459538	1.250495491	0.215843	0.388372432
DHRS7B	0.181760902	1.250496993	0.216186	0.388921522
PPP1R1A	-0.390157913	-1.257817988	0.216451	0.389328995
EXOC8	0.057504756	1.248766076	0.216623	0.389523981
EPB41L4A	-0.177396833	-1.249509287	0.216671	0.389523981
CBX4	-0.068683992	-1.247752489	0.216675	0.389523981
KIF21A	-0.101343797	-1.247277848	0.217094	0.390209155
DCTN2	-0.073715902	-1.24595806	0.217360	0.390618508
S100A11	-0.204876692	-1.250346731	0.217479	0.390711031
SIRT6	-0.078436466	-1.24853235	0.217489	0.390711031
PPIP5K1	0.103261147	1.24823577	0.217637	0.390908399
UBXN8	0.191436571	1.252504857	0.217789	0.391111884
GLRX5	0.102319876	1.244221693	0.218089	0.39158191
ADD1	0.085170991	1.244102681	0.218493	0.392183073
KRT9	0.273821128	1.249147139	0.218501	0.392183073
CPNE1	-0.188759571	-1.251159362	0.218714	0.392495619
NUP37	0.049695303	1.242572234	0.218755	0.39249893
PAFAH1B2	-0.062360752	-1.24428798	0.218920	0.392725003
SMUG1	0.128696346	1.246411751	0.219002	0.392766181
C8orf37	-0.106382876	-1.243189128	0.219021	0.392766181
ACOT4	-0.252184595	-1.246112028	0.219079	0.392766181

HIVEP1	-0.162717263	-1.245392825	0.2190977	0.392766181
VPS39	-0.062462387	-1.242522056	0.2192875	0.393036952
SASS6	-0.106640414	-1.242701321	0.2193467	0.393072569
TCERG1	0.060457538	1.240410307	0.2194357	0.393129022
CDK6	-0.144875376	-1.242233095	0.2194550	0.393129022
MCL1	-0.106041729	-1.243242491	0.2196915	0.393482855
RAB2B	0.111071353	1.238496073	0.2200789	0.394088799
FAM219B	-0.151577335	-1.240693578	0.2201075	0.394088799
RPUSD2	0.075167162	1.238081578	0.2202136	0.394209574
DLAT	0.108435628	1.239681732	0.2204997	0.394651088
PIK3C2A	0.049988327	1.239234286	0.2206828	0.394910271
APIP	-0.132698938	-1.23663695	0.2207458	0.394921875
ROMO1	0.199639229	1.237325802	0.2207677	0.394921875
HLA.DQB1	-0.322055714	-1.236832326	0.2208330	0.394970163
CD68	-0.165218218	-1.240913547	0.2210555	0.395214485
TEX30	-0.10260797	-1.235691579	0.2210940	0.395214485
ARFIP1	-0.105368477	-1.237655853	0.2211842	0.395214485
PRKD2	-0.053423008	-1.23634369	0.2212948	0.395214485
MTFR1L	-0.09036985	-1.235264464	0.2213016	0.395214485
TMEM176B	-0.191852632	-1.240674394	0.2213287	0.395214485
PFKFB2	0.25441218	1.24199392	0.2213615	0.395214485
TMEM237	-0.155460556	-1.245430395	0.2213952	0.395214485
LHFPL2	0.712655238	1.255260546	0.2213954	0.395214485
ARHGAP31	-0.113913008	-1.238639458	0.2214044	0.395214485
ARFGAP3	0.162517072	1.237967594	0.2214119	0.395214485
TOMM6	0.139539662	1.235149402	0.2214369	0.395214485
LECT2	-0.278873308	-1.236267426	0.2216622	0.395545548
PDGFRA	-0.175829	-1.237168705	0.2217000	0.395545548
S100A1	-0.550812331	-1.234439645	0.2218212	0.395691618
TOR1A	0.077583286	1.23407553	0.2219576	0.395781545
CA5B	0.126180451	1.239289893	0.2219960	0.395781545
MOB3C	-0.116995214	-1.240326187	0.2220265	0.395781545

EFNA5	-0.210003375	-1.236293668	0.2220275	0.395781545
TMEM141	0.185277778	1.234653844	0.2222427	0.39609552
PHB	0.091238177	1.232456062	0.2223567	0.396198072
RRAGB	-0.182980556	-1.239515319	0.2223785	0.396198072
TRIM4	-0.128921335	-1.239488689	0.2224240	0.396209878
PCDHB9	0.139641342	1.238707606	0.2225627	0.396379262
DCAF15	0.128639573	1.231678739	0.2226245	0.396379262
COPS7B	-0.08206582	-1.232693021	0.2226669	0.396379262
OPA3	0.140759148	1.232428882	0.2226956	0.396379262
INTS7	0.055594887	1.232687097	0.2227398	0.396379262
CWC27	0.069985489	1.231291673	0.2227706	0.396379262
TTC5	-0.078740489	-1.231507452	0.2228166	0.396379262
ZC3H7B	-0.052140981	-1.233369676	0.2228398	0.396379262
ARMC6	-0.081500508	-1.234083453	0.2228705	0.396379262
CHD7	0.113410451	1.230956059	0.2230255	0.396584983
GSTM3	-0.294057218	-1.234061409	0.2230990	0.396646611
APPL1	-0.065915	-1.230094351	0.2232485	0.396842865
ENOSF1	-0.170422654	-1.232825641	0.2233935	0.397031055
SPPL2A	0.196165741	1.231523949	0.2235824	0.397297238
TP53I11	-0.144382744	-1.230095124	0.2236517	0.397350788
APPBP2	-0.075408835	-1.232319743	0.2238080	0.3974566
CWC22	0.065394323	1.230476899	0.2238402	0.3974566
HNRNPA0	0.092883028	1.228649982	0.2238416	0.3974566
RWDD2A	-0.108219296	-1.233167096	0.2239235	0.3974566
C2CD5	-0.071261278	-1.228340721	0.2239385	0.3974566
DDB1	-0.046928124	-1.229247657	0.2239462	0.3974566
CNNM2	0.148897778	1.236321796	0.2240456	0.397563505
OGFOD2	-0.108353459	-1.229520904	0.2241256	0.397636023
DERA	-0.065750959	-1.228070342	0.2241676	0.397640895
ATP6V1B1	-0.278231068	-1.228024915	0.2243142	0.397831473
TXLNG	0.084543417	1.229970661	0.2244450	0.397941722
CTSO	0.145868891	1.231716	0.2244548	0.397941722

MARCHF7	0.146490038	1.229720677	0.2245798	0.398093845
PIR	0.2306685	1.230129299	0.2246888	0.398150174
EEF1E1	0.066913263	1.226306548	0.2246900	0.398150174
CCNK	0.069591617	1.226831268	0.2248315	0.398331294
PRDM10	0.092729041	1.225203244	0.2250235	0.398585078
NOP58	0.089816316	1.230705919	0.2250535	0.398585078
EPS8	-0.089640684	-1.224924021	0.2253000	0.398952449
HSPBAP1	-0.081449925	-1.225725648	0.2255800	0.3993786
ETNK1	0.085719248	1.225459381	0.2256221	0.399383527
GNA14	-0.243134545	-1.250449981	0.2256925	0.399438023
POLE3	-0.169803421	-1.229368907	0.2257575	0.399483815
NPLOC4	-0.05501141	-1.224054419	0.2258315	0.399494821
HELZ2	-0.096284643	-1.225387763	0.2258424	0.399494821
BTG2	0.22522213	1.23115987	0.2260048	0.399712375
NOMO3	0.242365556	1.227966754	0.2263051	0.400173824
DVL1	-0.084815977	-1.226340728	0.2263847	0.400244682
CST3	0.228374662	1.222287353	0.2264805	0.400342298
HDHD5	0.158902086	1.224637832	0.2265188	0.400342298
MED15	-0.061687034	-1.223414724	0.2267160	0.400621086
MRPS16	0.114555038	1.223214239	0.2269362	0.40092983
GADD45GIP1	0.108305876	1.220855965	0.2269861	0.40092983
PTPRF	0.134908233	1.222994963	0.2270092	0.40092983
SLC5A1	-0.344822083	-1.231720291	0.2271289	0.401061294
COQ3	0.129039342	1.220448577	0.2272309	0.401061294
RAB8A	0.133857331	1.220649227	0.2272355	0.401061294
CMTM6	0.165842846	1.220024948	0.2272417	0.401061294
CAPN5	-0.172984774	-1.221762498	0.2273418	0.401091216
PID1	-0.286638019	-1.22479455	0.2273599	0.401091216
AGGF1	0.080214412	1.219187014	0.2273772	0.401091216
SMARCC2	0.068013271	1.218613522	0.2276531	0.40150335
MT2A	0.290828947	1.218950383	0.2276899	0.40150335
USP42	0.10283061	1.221091384	0.2277315	0.401506868

LRATD2	-0.094585902	-1.217726716	0.2277997	0.40155737
SNRPB	-0.306472292	-1.229288896	0.2279974	0.401836186
RNF2	0.091389662	1.216508766	0.2282622	0.402232924
SNTA1	-0.152197406	-1.217803405	0.2283841	0.402308126
TMPRSS2	0.22887812	1.220204524	0.2283841	0.402308126
SPC24	0.179738534	1.216866534	0.2286145	0.402644045
MTRF1L	-0.169370979	-1.220319856	0.2287737	0.402709902
ATP13A3	0.085410395	1.216044979	0.2287760	0.402709902
PSMB4	0.06840018	1.215489571	0.2288065	0.402709902
NRBP1	-0.080579323	-1.216528985	0.2288161	0.402709902
UBE2D2	0.113910486	1.217027357	0.2288500	0.402709902
NCKAP5L	-0.116832143	-1.217020692	0.2289240	0.402733522
TRA2B	0.083041711	1.214728274	0.2289430	0.402733522
CPA3	-0.373411203	-1.214497494	0.2290227	0.402803818
ACADS	0.155280169	1.216839811	0.2291070	0.402882349
PAK4	-0.061335752	-1.216218519	0.2291595	0.402904742
RBBP7	0.107049098	1.214105823	0.2292615	0.403014361
PCYOX1	0.119029154	1.214415959	0.2293772	0.403089489
GNPDA2	-0.11548906	-1.214789264	0.2293837	0.403089489
SLC35F6	0.152473684	1.213537922	0.2294380	0.403116223
ADI1	0.110231353	1.213344826	0.2295261	0.403200171
COQ5	-0.107868271	-1.214789399	0.2297544	0.403531392
ZNF385B	0.32217	1.218000075	0.2298680	0.403662125
CA2	0.257284962	1.21198301	0.2300045	0.403830433
C10orf143	0.243216034	1.215710518	0.2302572	0.404204639
RNLS	-0.238675833	-1.217858196	0.2304727	0.404512882
TBC1D10B	-0.05677218	-1.213417864	0.2305278	0.404539786
PCDH1	-0.149781955	-1.214782831	0.2305685	0.404540819
DSN1	0.104112763	1.211401671	0.2307647	0.404669839
THNSL1	0.101032632	1.212091592	0.2307745	0.404669839
JCHAIN	-0.395964887	-1.210530882	0.2307905	0.404669839
MAN2B2	-0.12154468	-1.210332618	0.2308015	0.404669839

INPPL1	0.070463658	1.21027854	0.2311967	0.405293077
CD2BP2	0.061243603	1.20860595	0.2312650	0.405342573
RBM7	0.069255442	1.208491028	0.2313048	0.405342573
RAB17	0.134616353	1.208681359	0.2315070	0.40562799
PNKD	-0.121851203	-1.209143407	0.2317275	0.405885486
SMCR8	0.074693647	1.20826526	0.2318068	0.405885486
DENND2B	-0.16242406	-1.207248219	0.2318079	0.405885486
BAK1	-0.121238289	-1.20934972	0.2318649	0.405885486
AASDHPPT	-0.054671955	-1.207546571	0.2318894	0.405885486
SLC25A28	0.148028407	1.21149737	0.2318945	0.405885486
MSANTD4	0.125263333	1.232452147	0.2320081	0.405986963
ACSM3	-0.273913872	-1.206514804	0.2321091	0.405986963
CCDC59	0.172547143	1.211951961	0.2321527	0.405986963
TMEM30A	0.089507068	1.206535491	0.2321640	0.405986963
NARF	-0.09485797	-1.20704509	0.2321815	0.405986963
SARNP	0.069660564	1.206172469	0.2321925	0.405986963
ERCC3	-0.059693534	-1.207314563	0.2323438	0.40613295
FAM126B	-0.120163797	-1.205754381	0.2323560	0.40613295
LCOR	-0.168177218	-1.211139876	0.2324944	0.406304841
LAMC1	-0.174473722	-1.205174317	0.2326395	0.406488383
SLFN11	-0.187066917	-1.206068384	0.2328711	0.406823157
ZNF771	-0.166926653	-1.207553342	0.2329735	0.406906475
OSTC	0.314276692	1.204790102	0.2329990	0.406906475
HIGD1A	-0.23901406	-1.203695238	0.2333542	0.407406803
URM1	-0.114454186	-1.203204999	0.2333658	0.407406803
FBL	0.084369248	1.203936145	0.2336093	0.40776187
NAT10	0.086380526	1.205368838	0.2336978	0.407769024
TM4SF1	-0.184281197	-1.205233768	0.2337048	0.407769024
DDX11	0.150523697	1.204550071	0.2337797	0.407769024
TCN2	0.351087914	1.215591514	0.2338372	0.407769024
PMPCA	0.133331917	1.202696072	0.2338535	0.407769024
CXXC5	0.11305391	1.205279385	0.2338545	0.407769024

UROS	-0.087653308	-1.2053873	0.2343955	0.40864179
TRAM2	0.186740333	1.202772401	0.2346156	0.408955683
SPATA33	-0.13077641	-1.200287851	0.2346788	0.408995638
TAF5L	-0.072792556	-1.201090986	0.2349427	0.40933226
ARHGAP24	-0.208561333	-1.213727453	0.2349526	0.40933226
MAPT	-0.179721761	-1.200789754	0.2350427	0.409418967
ANTXR1	0.142522368	1.198634836	0.2351352	0.409500512
JSRP1	-0.382031203	-1.202550622	0.2351777	0.409500512
PTPN11	-0.075951429	-1.198395507	0.2352106	0.409500512
PPP1R32	-0.51326975	-1.205254662	0.2355445	0.410011572
MBIP	0.06246032	1.19695306	0.2357545	0.410306281
RPL21	0.126692932	1.198186745	0.2362127	0.410970441
MTCL1	0.199221278	1.196815976	0.2362397	0.410970441
YWHAQ	0.076922481	1.198966297	0.2362575	0.410970441
CROT	0.134083177	1.201051179	0.2363087	0.410988217
TBPL1	0.114385789	1.196344774	0.2364066	0.411083937
NEPRO	0.090845771	1.199373566	0.2364879	0.411083937
DDX21	0.146870489	1.200747611	0.2365356	0.411083937
FBXO28	-0.151352838	-1.198813038	0.2365487	0.411083937
ANKRD39	-0.132092801	-1.196176346	0.2365656	0.411083937
CYB5A	0.149459981	1.197357149	0.2366296	0.41112379
AGAP1	-0.078210056	-1.194855748	0.2366907	0.411160552
CC2D1A	-0.067655432	-1.19487867	0.2368156	0.411307124
ZXDC	-0.119217312	-1.197028639	0.2369187	0.411415852
DDB2	0.111666387	1.193927445	0.2369895	0.411468031
TTC30B	-0.283805682	-1.20233948	0.2370894	0.411571353
OLFML3	-0.313196034	-1.194726567	0.2371374	0.411584326
METAP1	0.10509925	1.19396828	0.2374575	0.412069033
LAMTOR5	-0.090909361	-1.192398735	0.2375756	0.412203915
TMEM70	0.13615	1.193855167	0.2376202	0.412210819
PCDHB2	0.315486701	1.209775285	0.2377295	0.41232989
MRPL18	0.145569474	1.19383594	0.2378977	0.412551264

ANGPTL4	-0.210057556	-1.196970103	0.2379918	0.412643899
RPS19BP1	0.15147094	1.198315604	0.2380954	0.412753059
CXXC1	0.056987203	1.190394272	0.2383489	0.413121926
VPS18	-0.065137669	-1.194693742	0.2385433	0.413388252
CENPH	0.149240214	1.190324536	0.2386169	0.413445158
MT1X	0.286212095	1.194345478	0.2386828	0.413473254
MRPS22	0.120474248	1.191471033	0.2387146	0.413473254
MITD1	0.153866053	1.189124921	0.2388582	0.413650324
MTOR	0.042872773	1.189051099	0.2388983	0.413650324
NOXA1	-0.150139098	-1.190855246	0.2391150	0.413954921
HAUS2	-0.080289699	-1.189966937	0.2392288	0.414081346
WASHC3	-0.089807594	-1.188953626	0.2393481	0.414181065
PTBP1	0.07013032	1.189718754	0.2393758	0.414181065
TRAPPC12	-0.048164079	-1.1909283	0.2394088	0.414181065
RWDD1	-0.103509962	-1.187706375	0.2395129	0.414250622
PPP1R13B	-0.073430338	-1.188277959	0.2395440	0.414250622
MT1E	-0.592350611	-1.196004253	0.2395864	0.414250622
ARRDC1	0.133695921	1.197173482	0.2396123	0.414250622
FGG	-0.225242838	-1.187317574	0.2399513	0.414765969
TIMM9	0.089632105	1.188548127	0.2401951	0.415116846
HSD3B7	0.186844897	1.194859215	0.2403053	0.415236806
ZFR	0.051619868	1.1838713	0.2408443	0.416097452
CALHM5	-0.271461778	-1.189800247	0.2410371	0.416352041
TAF9	-0.088819098	-1.188945122	0.2410739	0.416352041
GABPB1	0.076106748	1.183242765	0.2411190	0.416359013
UBE2E1	-0.118633036	-1.183264222	0.2412022	0.416369434
PALLD	-0.250349586	-1.18307009	0.2412071	0.416369434
HLA.DRB3	-0.293001429	-1.182480721	0.2415952	0.416865685
PCM1	-0.120999624	-1.181905536	0.2416184	0.416865685
POTEF	-0.441268545	-1.194993791	0.2416658	0.416865685
DYRK1A	-0.067610094	-1.182024257	0.2417084	0.416865685
H3C15	-0.33282218	-1.181963717	0.2417596	0.416865685

SPAG9	-0.054779173	-1.181785325	0.2417745	0.416865685
TNFRSF14	-0.180665714	-1.189785897	0.2418132	0.416865685
GRHPR	-0.066002951	-1.184244207	0.2418395	0.416865685
NCOA1	0.072199267	1.18147169	0.2418642	0.416865685
BLOC1S1	-0.057285338	-1.181414083	0.2420150	0.417054749
PLCB1	0.198403195	1.184221769	0.2422372	0.4173669
ZBED3	-0.127181729	-1.180303213	0.2424205	0.417586579
EGLN1	0.122383534	1.182517613	0.2424470	0.417586579
NUP54	0.034003327	1.179233863	0.2426925	0.417883892
KLF16	0.151318421	1.182307955	0.2427020	0.417883892
ABHD13	0.108672387	1.181835362	0.2427482	0.41789265
HDAC2	0.081282444	1.180719105	0.2430594	0.4183573
RAP1A	-0.108646128	-1.180254481	0.2431554	0.418451668
RFC2	0.076391842	1.177518878	0.2434065	0.418764515
SNAPC3	-0.071106241	-1.178315937	0.2434197	0.418764515
MRPL40	0.136137838	1.178041111	0.2437985	0.419344359
CIAO3	-0.076855312	-1.179216998	0.2438700	0.41939698
BSPRY	-0.110454041	-1.177426155	0.2439935	0.419525036
ZDHHC21	0.128655176	1.184057348	0.2440275	0.419525036
NOCT	-0.152497826	-1.189225095	0.2440988	0.419532959
APLF	0.117848421	1.175752515	0.2441365	0.419532959
LRRC20	-0.120957331	-1.176984788	0.2441557	0.419532959
IRS2	-0.181273722	-1.174615576	0.2446197	0.420258998
PHF21A	-0.057158083	-1.174265343	0.2449485	0.420742176
SIAH1	-0.098681674	-1.175973633	0.2449838	0.420742176
RAB29	0.201244662	1.17873562	0.2451385	0.420936549
DNAJA2	-0.049139549	-1.17212207	0.2455489	0.421534018
NUDT19	-0.123444662	-1.171900526	0.2455847	0.421534018
SMC4	0.127132519	1.173866014	0.2456110	0.421534018
HOXB7	0.342657639	1.172882361	0.2457059	0.421625583
GOSR2	0.107119624	1.171681757	0.2458549	0.421741163
GALNT2	0.159073647	1.172329951	0.2458797	0.421741163

RPL30	-0.091967786	-1.172636431	0.2458979	0.421741163
UBFD1	0.094772989	1.17306128	0.2459554	0.421768457
COL18A1	0.192522368	1.171077011	0.2461633	0.422053681
PSMD6	0.05236668	1.172295999	0.2463525	0.42230669
OSBPL1A	-0.103414662	-1.170024853	0.2465835	0.422631414
ZBTB24	0.178008524	1.172972639	0.2468442	0.422943389
ZNF598	-0.053163252	-1.169776069	0.2468489	0.422943389
NFS1	0.079660188	1.170043794	0.2470233	0.42317076
RPS12	0.062366259	1.167947935	0.2471658	0.423343495
CDC26	-0.070245733	-1.170106695	0.2472351	0.423390741
GPRC5B	0.273199223	1.174872802	0.2474646	0.423712318
PHLPP1	-0.191222161	-1.17854292	0.2475244	0.423743159
RIPK1	-0.053824192	-1.166734374	0.2477627	0.4240479
TBL1XR1	0.073665207	1.166605293	0.2477860	0.4240479
EIF3D	-0.054111541	-1.166399327	0.2478731	0.424078578
LOX	-0.165311985	-1.168475692	0.2478875	0.424078578
CERK	0.175088034	1.177730725	0.2480513	0.424287354
COPB1	0.070076541	1.166959524	0.2481530	0.424389785
CLPB	0.079693233	1.165680244	0.2482117	0.424418728
DMBT1	0.497062782	1.16686295	0.2483149	0.424523595
PEX5	-0.068326823	-1.166690318	0.2483849	0.424553723
GCFC2	-0.078204797	-1.170569615	0.2484162	0.424553723
MRPS23	0.113561353	1.168462977	0.2484672	0.424569533
NOMO2	0.315498951	1.168407797	0.2485884	0.424705117
CDCA2	0.21982059	1.179820574	0.2489267	0.425179863
SDHC	0.162696857	1.168725916	0.2489501	0.425179863
CEP55	-0.150469367	-1.164510192	0.2490982	0.425339362
USP9X	-0.064268628	-1.169541669	0.2491273	0.425339362
SALL2	-0.179163534	-1.162942765	0.2491777	0.42535387
LRRC17	-0.370313397	-1.166266435	0.2492268	0.425366101
B3GNTL1	0.105211877	1.167271857	0.2493317	0.425426966
SPAST	0.074680526	1.168561355	0.2493975	0.425426966

TVP23B	0.351302778	1.172464598	0.2494135	0.425426966
CHMP2A	-0.102470248	-1.164267352	0.2494320	0.425426966
PCP4L1	-0.374862772	-1.167212124	0.2494720	0.425426966
INTS6	0.045669361	1.164290645	0.2495574	0.425501065
A4GALT	-0.12156485	-1.162047079	0.2496176	0.425532329
DGKE	0.181183477	1.16303125	0.2496901	0.425584324
KHDRBS1	0.082344793	1.162886289	0.2498520	0.425788842
SLC2A1	0.229647744	1.161028487	0.2499684	0.425915651
WBP11	0.053113348	1.160393993	0.2502203	0.426273339
CCDC57	-0.233337481	-1.164780983	0.2502847	0.426311578
FOXP1	0.087448086	1.162339989	0.2503779	0.426398667
BCR	-0.055858444	-1.159622014	0.2505107	0.426553325
FAHD2B	0.216929701	1.166169842	0.2505547	0.426556638
PDXP	-0.068009237	-1.159714658	0.2506066	0.42657337
YWHAB	-0.074484211	-1.159826974	0.2507041	0.426648701
UFL1	-0.070728308	-1.159860389	0.2507349	0.426648701
RPL38	-0.104252699	-1.162698109	0.2510287	0.426995787
FBP2	-0.304189474	-1.160325554	0.2510469	0.426995787
KIAA1522	-0.080264511	-1.162941902	0.2510657	0.426995787
TCF25	0.064713102	1.158284129	0.2511629	0.427090019
ZNF512	-0.216915827	-1.15800947	0.2514909	0.427576779
GFER	-0.117557932	-1.1569722	0.2516914	0.427845986
INTS2	0.0521615	1.157358929	0.2517910	0.427943596
EIF4A1	-0.116693459	-1.15965745	0.2518357	0.427945299
TTC3	0.087469079	1.15644844	0.2518763	0.427945299
PLK1	0.091546259	1.156101242	0.2519882	0.428063672
VANGL1	0.124338158	1.157353999	0.2520890	0.428163226
ATP5PO	0.104309812	1.156118153	0.2521734	0.428195954
C16orf72	0.154590412	1.164886954	0.2521926	0.428195954
ZNF552	-0.150371228	-1.162743841	0.2524026	0.428425942
LMBRD1	0.088397338	1.155338934	0.2524129	0.428425942
RPS20	0.141054323	1.155475709	0.2525166	0.428530987

SIGMAR1	0.143804215	1.163200777	0.2525809	0.428561811
ATP6AP2	0.135814135	1.158642953	0.2526554	0.428561811
PPP2R5D	0.069912955	1.155502934	0.2526614	0.428561811
VPS25	0.069489229	1.15379756	0.2530978	0.42923023
XRCC5	0.071053741	1.153227321	0.2531762	0.429268646
ECHDC3	-0.245303872	-1.153560825	0.2532050	0.429268646
CFAP20	-0.082883929	-1.152843538	0.2533309	0.429338245
METTL18	0.103414474	1.153287962	0.2533348	0.429338245
PBLD	-0.172815808	-1.15289635	0.2533730	0.429338245
RNF169	-0.089878947	-1.153146217	0.2536239	0.429637127
ADGRL1	-0.260521429	-1.165213116	0.2536340	0.429637127
ZNF688	-0.094708177	-1.15458237	0.2537050	0.429686683
TPD52	-0.153371147	-1.151326643	0.2538827	0.429874641
PGAM1	0.108930113	1.155372775	0.2539019	0.429874641
WDR26	0.064324962	1.155853995	0.2540197	0.430003368
AGRN	0.136539192	1.15281791	0.2540639	0.430005482
EIF5A	-0.16186094	-1.150820421	0.2541458	0.430050862
RAP1GAP2	-0.128768233	-1.153225616	0.2541748	0.430050862
IBA57	0.105240152	1.150933622	0.2548289	0.431084904
ATXN1	-0.076808045	-1.150530107	0.2549977	0.431299349
MFAP5	-0.311174417	-1.148411931	0.2551169	0.431428009
WASHC2C	-0.097932312	-1.151505736	0.2552464	0.431576125
RAP2A	-0.148475697	-1.152825269	0.2553150	0.43162023
TAF8	-0.093298647	-1.14895571	0.2554427	0.431763126
RABL6	0.061723195	1.149976974	0.2556259	0.432001184
G6PC3	0.208708279	1.149999411	0.2556947	0.432012222
BIRC5	-0.194422593	-1.180024874	0.2557269	0.432012222
CD82	-0.193087237	-1.14827813	0.2557597	0.432012222
DAZAP1	-0.062804906	-1.147759056	0.2559119	0.432173057
NDUFS4	-0.129112481	-1.146411107	0.2559407	0.432173057
MTSS1	0.145761805	1.147098038	0.2560698	0.432320227
EXOC1	-0.049301504	-1.14603266	0.2567037	0.433317286

PHB2	0.088747105	1.14469311	0.2571735	0.434039214
VEZF1	0.124030414	1.143587101	0.257232	0.434065845
YEATS4	0.060892556	1.142892576	0.2573417	0.434178626
ACTB	-0.160678459	-1.145600219	0.2574618	0.434309091
ULK1	0.085884511	1.142073365	0.2577137	0.434661782
SIX5	0.094633148	1.141790811	0.2580824	0.435211357
MAST4	-0.079627774	-1.14075344	0.2582244	0.43532176
RPTOR	-0.051390075	-1.140728415	0.2582337	0.43532176
CADM4	0.131903571	1.140443311	0.2584417	0.435599078
TRIM28	0.099099511	1.141254674	0.2585710	0.435707815
TYW5	0.090590376	1.142854376	0.2586762	0.435707815
CRYZL1	-0.060744098	-1.142516643	0.2587099	0.435707815
SOX9	0.186989098	1.140170718	0.2587232	0.435707815
SHTN1	0.12270262	1.141582631	0.2588004	0.435707815
NHP2	0.082205671	1.139627114	0.2588055	0.435707815
BICRA	-0.071050038	-1.140237864	0.2588067	0.435707815
DLG5	0.072573459	1.140076452	0.2588519	0.435712714
BNIP3L	0.170803252	1.138797082	0.2592345	0.436284237
ARV1	0.186483654	1.141863294	0.2593160	0.436349139
PRKAB2	-0.137857932	-1.137608463	0.2595610	0.436688916
XPO7	0.060596109	1.137461557	0.2596180	0.43670412
SCYL3	0.139679188	1.14350631	0.2596560	0.43670412
TRMT10C	0.12599203	1.13836284	0.2597937	0.436863268
FAM120C	0.113501353	1.140286909	0.2599276	0.437015937
KIF18A	-0.239210461	-1.14758259	0.2600478	0.437076129
MGAT4B	0.17658525	1.144592586	0.2600495	0.437076129
PSTPIP2	0.152777669	1.136195959	0.2601236	0.437128241
LSM 12.00	-0.085813429	-1.136521091	0.2602487	0.437266171
SRCIN1	-0.193051579	-1.139129841	0.2605322	0.437669979
PDHX	0.09987435	1.137239803	0.2606549	0.437803771
PRSS8	0.245984211	1.137583983	0.2608862	0.438119777
SLC25A29	-0.124879041	-1.13473805	0.2610534	0.438327965

GOLGA5	0.10136275	1.136876001	0.2611755	0.438442109
C1RL	-0.125756466	-1.13363156	0.2612078	0.438442109
SIL1	0.095617726	1.135512598	0.2613300	0.438574776
EIF4EBP1	-0.147630301	-1.132780443	0.2615491	0.438816069
ICAM1	-0.135362726	-1.132773604	0.2615600	0.438816069
KCNN4	0.223238158	1.132351539	0.2620124	0.439501959
PIGR	-0.442515602	-1.133397969	0.2620902	0.439559788
FECH	0.138416224	1.136257226	0.2623022	0.439820732
CASC3	-0.051572203	-1.130804179	0.2623697	0.439820732
RPL7L1	0.109151335	1.131928778	0.2623758	0.439820732
ABHD3	-0.141041071	-1.141363906	0.2624298	0.439838705
RIC8B	0.093516165	1.131393663	0.2626508	0.440106542
TKT	-0.122846654	-1.133747131	0.2626834	0.440106542
EPHA2	0.115076128	1.130234348	0.2627197	0.440106542
LSM 8.00	0.059490492	1.129723432	0.2628162	0.440163487
PPM1L	-0.159308333	-1.133202685	0.2628745	0.440163487
RPS6KA5	0.181839117	1.131977776	0.2628838	0.440163487
TMEM177	0.116424962	1.130277297	0.2630697	0.440402179
DNM1L	0.058525551	1.130278952	0.2632100	0.440564816
ZZZ3	0.093093992	1.13131721	0.2634610	0.440898425
VPS37C	-0.070267331	-1.128891613	0.2634965	0.440898425
ATP2A3	-0.212385902	-1.127981331	0.2635850	0.440973849
ACADL	-0.317381202	-1.130622454	0.2640116	0.441614684
ATRN	0.162284417	1.12971337	0.2641110	0.441708146
RBM4	0.186080065	1.126510852	0.2645107	0.442289386
MRPL13	0.086953947	1.1269618	0.2645457	0.442289386
SMIM29	0.329991667	1.129410555	0.2646415	0.44234053
B4GALNT3	-0.139837744	-1.125951972	0.2646736	0.44234053
MUC1	0.266203759	1.13071242	0.2647596	0.44234053
TMEM186	0.168528203	1.126241586	0.2647718	0.44234053
SPPL2B	-0.10137938	-1.126001549	0.2647941	0.44234053
NR2C1	0.113507707	1.125985704	0.2648590	0.442376076

STRN4	-0.050965827	-1.124977061	0.2650805	0.442673237
DNAJC9	0.124468271	1.126239127	0.2652590	0.442898463
RPRD1B	-0.067677632	-1.12513548	0.2654397	0.443126149
RBM34	0.123887782	1.124103193	0.2657515	0.443574384
AMY1B	-0.514348308	-1.12305567	0.2659387	0.443813209
ABCB1	-0.205206541	-1.12609121	0.2659944	0.443834215
KBTBD7	-0.099451327	-1.123418506	0.2662075	0.444047381
SERPINB6	-0.126160489	-1.126693638	0.2662245	0.444047381
JTB	0.15249812	1.123941352	0.2662534	0.444047381
DOCK9	-0.072135361	-1.120918774	0.2665520	0.444472448
PNPLA6	0.079389139	1.12099475	0.2666260	0.444522665
CENPX	0.300988045	1.12719042	0.2667708	0.444582203
UBE2N	-0.051526729	-1.122369972	0.2668084	0.444582203
CRK	-0.056321164	-1.120312425	0.2668149	0.444582203
ACACA	-0.083973722	-1.120337185	0.2668369	0.444582203
PRMT3	0.076153165	1.121452304	0.2670160	0.444808557
KLHL8	0.214084058	1.131301701	0.2670907	0.444858995
FTSJ3	0.101726748	1.120239967	0.2674128	0.445322509
SPRTN	0.135906842	1.119750764	0.2674635	0.44533352
TIMM13	0.11785718	1.117469399	0.2679852	0.446129353
L1CAM	-0.139676635	-1.129498861	0.2680710	0.446198929
UBN1	-0.222431767	-1.117074882	0.2682172	0.446247423
HOXD9	-0.292623122	-1.125901293	0.2682465	0.446247423
EPB41L3	-0.218942312	-1.122401191	0.2682735	0.446247423
PPIC	0.136633477	1.116715719	0.2683134	0.446247423
SBF2	-0.054870432	-1.1169539	0.2683200	0.446247423
FLRT2	-0.222612913	-1.116671226	0.2685357	0.446533105
ZFP91	0.099759868	1.115689818	0.2687557	0.446824709
MED13	0.117535414	1.116325609	0.2690437	0.447230185
IDE	-0.076229229	-1.115183345	0.2691674	0.447322496
ATP13A2	0.104270338	1.116644397	0.2691867	0.447322496
SRF	-0.177189492	-1.114490007	0.2692885	0.447417987

DCP1B	-0.077921898	-1.114243766	0.269487	0.447675089
NEK8	0.089955714	1.11342263	0.269703	0.447961267
NAP1L4	0.062242293	1.113660301	0.269834	0.448106007
SETD5	0.0781025	1.113341865	0.270184	0.448612491
CHERP	0.057488583	1.112237953	0.270228	0.448612491
PROCR	-0.158814098	-1.113744339	0.270315	0.448684196
NCKIPSD	-0.056538026	-1.113014546	0.270622	0.449119431
C14orf119	-0.086747594	-1.111312323	0.270669	0.449125078
HMGB2	-0.112148835	-1.111304058	0.270736	0.449162565
NDEL1	-0.087269797	-1.116074839	0.270807	0.449172822
UBE2A	-0.084206203	-1.111620301	0.270831	0.449172822
ATXN2	-0.098157857	-1.112918297	0.270908	0.449227177
SLC17A5	0.13882997	1.110111493	0.271340	0.449869867
PSMA6	0.057402848	1.110015018	0.271684	0.450367352
C5orf22	-0.078266109	-1.108515982	0.271796	0.450479619
NPAT	0.12087916	1.109192434	0.272043	0.450815527
CCT6B	0.189271729	1.111512888	0.272125	0.450876701
BRD2	0.053145094	1.107853012	0.272229	0.450917777
THSD7A	-0.196848684	-1.108678719	0.272238	0.450917777
MORC4	0.104225484	1.117862506	0.272391	0.451069518
ABRACL	0.174582519	1.107981866	0.272419	0.451069518
TIMM29	0.103397105	1.110202306	0.272674	0.451371177
EFNB1	0.144397199	1.107994407	0.272690	0.451371177
GLE1	0.055782293	1.106911426	0.272742	0.451384348
ALKBH4	0.071089417	1.105483052	0.273221	0.452029174
UBALD1	-0.103770808	-1.105982468	0.273226	0.452029174
ZNF532	0.086731966	1.106887842	0.273266	0.452029174
HOMER1	0.136610113	1.105436547	0.273531	0.452393689
OMA1	0.155237632	1.105804845	0.273736	0.452600086
RFTN1	-0.163413647	-1.108292868	0.273789	0.452600086
HEATR5B	0.04806282	1.105577179	0.273789	0.452600086
LIN52	-0.256406231	-1.107038134	0.273948	0.452734928

MICAL2	-0.119135996	-1.103630163	0.2739605	0.452734928
ZBTB8OS	-0.10904109	-1.103423049	0.2741098	0.452908164
RRN3	0.063311598	1.103047896	0.2744659	0.453422708
PPIB	0.151369248	1.103846101	0.2746134	0.453502386
STX7	0.095490038	1.102461905	0.2746244	0.453502386
SYTL3	-0.17680987	-1.108477587	0.2746764	0.453502386
LZTS1	-0.223121429	-1.10976623	0.2746928	0.453502386
EHD3	-0.132026278	-1.100819143	0.2751825	0.454236602
UVSSA	-0.130108617	-1.108277763	0.2754036	0.454527994
CNOT11	0.052433643	1.102170359	0.2755139	0.454636019
H1.1	-0.468604211	-1.11048118	0.2755986	0.454700954
ARFGEF3	-0.107110387	-1.10211855	0.2756622	0.454733
SCAF1	0.068577049	1.099482974	0.2757906	0.454809881
ZBTB9	0.169359533	1.108956357	0.2757985	0.454809881
STX6	0.136866917	1.099861673	0.2759487	0.454940098
PHLDA3	0.137484887	1.099172326	0.2759677	0.454940098
BRF1	0.063233609	1.100090195	0.2761628	0.455135983
GNA11	0.085695451	1.102762546	0.2761756	0.455135983
STC1	-0.26013891	-1.098184679	0.2762417	0.455170077
UBE2E2	-0.227569545	-1.101132896	0.2764398	0.455423498
SPC25	0.167504359	1.09927115	0.2765092	0.455463962
RBM22	0.049660376	1.097444013	0.2767909	0.45582676
FUCA1	-0.15691594	-1.098306051	0.2768278	0.45582676
TOP2A	0.143446654	1.099678357	0.2768642	0.45582676
ATG101	-0.08266	-1.098290688	0.2769957	0.455968408
UBE2W	-0.101284051	-1.101769429	0.2773970	0.456555849
JPT1	-0.120962895	-1.096175582	0.2775175	0.456636367
PIAS4	0.063646883	1.097051002	0.2775359	0.456636367
AP1AR	0.065777879	1.097422796	0.2776235	0.456706427
STAU2	0.072689925	1.094906833	0.2776835	0.456730793
GPALPP1	0.063079511	1.096481407	0.2777749	0.456757596
MYH9	-0.10681015	-1.094756401	0.2777896	0.456757596

TRAPPC6A	-0.092105865	-1.094513824	0.278047	0.457106993
NOMO1	0.142344211	1.093540615	0.2784936	0.45770034
CMTR2	-0.093716316	-1.096674416	0.2784982	0.45770034
GNB1L	0.090177964	1.095131507	0.2786559	0.457885412
ARMCX5	0.114741504	1.092952607	0.2788494	0.458129195
BORCS8	-0.118741267	-1.098743681	0.2791809	0.45859896
UBE2G2	0.074412782	1.092864361	0.2794298	0.458903356
EPG5	-0.072104831	-1.094027028	0.2794640	0.458903356
EPB42	0.207940526	1.090655436	0.2795268	0.458903356
PDE12	0.047396316	1.091772714	0.2795467	0.458903356
CERT1	-0.107182331	-1.093488524	0.2797138	0.459103451
SRCAP	0.03712109	1.08987919	0.2798654	0.45924064
FUBP3	0.058366409	1.089936125	0.2798879	0.45924064
NELFB	0.069238985	1.089029612	0.2802298	0.459703201
RRP9	0.095139211	1.092342196	0.2802604	0.459703201
CYTH1	-0.086782613	-1.090851697	0.2803573	0.459787927
SCEL	-0.35898015	-1.088821129	0.280605	0.460119852
BAZ2B	0.098791353	1.091061191	0.2807296	0.460240544
NCOA2	0.058504474	1.087799479	0.2808063	0.460240544
PDGFRB	-0.130845602	-1.092135435	0.2808454	0.460240544
ERH	0.056412968	1.087775854	0.2808600	0.460240544
TEC	0.165568797	1.089137983	0.280976	0.460267922
ZBTB2	0.123382011	1.087888315	0.2810079	0.460267922
ZNF800	-0.157672556	-1.08910596	0.2810138	0.460267922
UBE2K	0.042631015	1.087180949	0.2810667	0.460267922
FAM204A	0.099431955	1.087927995	0.2811035	0.460267922
PLA2G15	-0.086974643	-1.087076779	0.281331	0.46056625
NME9	-0.420134154	-1.102626828	0.2813918	0.460591384
H3C1	-0.29876485	-1.088140338	0.2815380	0.460756332
KLHL3	0.146990044	1.091316844	0.2816272	0.460828019
IFRD1	-0.211772703	-1.090573382	0.2817595	0.460970243
B3GLCT	-0.125213534	-1.087226436	0.281842	0.461031131

CHD3	0.086094699	1.085176679	0.2820837	0.461351909
CTDSP1	-0.107134319	-1.088777069	0.2824530	0.461881453
TTC9C	-0.090638421	-1.083589065	0.2826190	0.462049841
RCHY1	0.040115282	1.083478863	0.2826667	0.462049841
JUND	-0.074180451	-1.083463331	0.2826925	0.462049841
COMMD3	-0.119458195	-1.084778313	0.2827818	0.462121324
MTRF1	0.092312159	1.085720697	0.2829090	0.462255805
KCTD3	0.080459412	1.083273204	0.2831090	0.462507621
MCUR1	0.089858872	1.08158452	0.2834977	0.463067574
LSS	-0.086646429	-1.081647776	0.2837100	0.46334026
UBA6	0.050130549	1.082681329	0.2838077	0.463423888
SDE2	0.084982331	1.081045022	0.2842120	0.463947696
TLE5	0.093466729	1.080530769	0.2842648	0.463947696
PPP1CA	-0.069694173	-1.080456212	0.2842677	0.463947696
CEACAM1	0.198419906	1.084972256	0.2843108	0.463947696
GABARAP	-0.059929695	-1.079045904	0.2846957	0.464501189
KLHDC10	0.163917622	1.078903802	0.2847497	0.464513687
CUL1	0.0380355	1.080421664	0.2848235	0.464560393
TBC1D4	0.124327444	1.082364895	0.2849428	0.464628288
INO80E	0.123818324	1.087716925	0.2849597	0.464628288
TONSL	0.103521671	1.080796653	0.2850457	0.464628288
MDH1	-0.062906992	-1.078296495	0.2850480	0.464628288
TACC2	-0.102790075	-1.080118663	0.2851262	0.464680737
SERINC1	0.147680451	1.079947002	0.2852955	0.464881962
TAF6	-0.057175893	-1.076937827	0.2857764	0.465576968
RNF216	-0.086555336	-1.077009001	0.2858590	0.465576968
THEM6	0.153446323	1.0766672	0.2858590	0.465576968
RSRC1	-0.137053759	-1.077107355	0.2861610	0.465993509
EMG1	0.07291391	1.076279797	0.2862132	0.466003258
SMG8	0.03458953	1.074778676	0.2865390	0.466459433
PSMB6	0.089324756	1.075111084	0.2866172	0.466511404
ANKS6	-0.094693759	-1.076162901	0.2869392	0.466960589

XIAP	0.046995301	1.076528661	0.2870146	0.467008409
USP3	0.063485056	1.073540406	0.2871126	0.467093081
KDELR3	0.252865615	1.080917398	0.2871736	0.467117438
PAK3	0.21244612	1.083842545	0.2873898	0.467394163
TMSB10	-0.148060056	-1.07240736	0.2875645	0.467433668
ZNRD1	0.088420771	1.073979336	0.2875703	0.467433668
FRYL	0.065368816	1.074405001	0.2876286	0.467433668
DENND5A	-0.082985395	-1.073927664	0.2876326	0.467433668
NPC2	-0.172731917	-1.073989912	0.2876603	0.467433668
PARG	-0.062052613	-1.074078409	0.2877719	0.467433668
PCNA	0.114147293	1.072315094	0.2877776	0.467433668
RPL35	0.185428383	1.075807027	0.2877825	0.467433668
CRIP1	0.090972387	1.07447533	0.2878378	0.467448647
HSH2D	-0.174005478	-1.075176913	0.2879425	0.467543858
DET1	-0.115551692	-1.072528	0.2879956	0.467554379
ITGA11	-0.162080752	-1.071343558	0.2880938	0.467639988
ABHD2	0.156367068	1.079861445	0.2881432	0.467645309
METTL2A	0.102791818	1.077359725	0.2883586	0.46792014
KIF4A	0.124835902	1.070442379	0.2885013	0.468072828
CRB3	0.143000269	1.076238657	0.2885449	0.468072828
AP1S1	0.09872532	1.069889127	0.2887366	0.468300653
URI1	-0.05007515	-1.069739	0.2887777	0.468300653
EIF2A	0.054549887	1.071025331	0.2888746	0.468383092
NUDT14	-0.103245414	-1.070693619	0.2890236	0.468548796
ABCC10	0.105727142	1.069880959	0.2890994	0.468597729
RAB24	0.085954361	1.069832175	0.2891711	0.468639222
GOSR1	0.092059812	1.070124311	0.2892845	0.468747751
DDHD1	0.069162218	1.07028776	0.2893766	0.468822443
OBSL1	-0.086445923	-1.068495253	0.2894425	0.468854461
RARS1	0.044041805	1.067918643	0.2896024	0.469038558
PTCD2	0.151384615	1.07227777	0.2899174	0.469404925
CBX6	-0.12868578	-1.068637894	0.2899218	0.469404925

APOC3	-0.217987406	-1.067182061	0.2899675	0.469404925
SH3PXD2B	0.095138289	1.067112672	0.2901648	0.469619466
ZDHHC20	0.123053289	1.067186431	0.2901924	0.469619466
DPP3	-0.066365338	-1.066645191	0.2903758	0.469841311
CELSR1	-0.102455263	-1.065884609	0.2905585	0.470062359
HLA.B	0.329471955	1.067163155	0.2907149	0.47024006
SLC30A7	0.174343722	1.065299069	0.2908130	0.470323879
DAG1	0.086382199	1.065685687	0.2909475	0.470444432
MED30	-0.053218665	-1.06486561	0.2909800	0.470444432
HRC	-0.248778175	-1.071733513	0.2910575	0.470494675
ZMAT3	-0.123616898	-1.070039739	0.2912704	0.470729003
FLYWCH2	-0.060099662	-1.065739612	0.2913934	0.470729003
RTN1	-0.111504925	-1.063866471	0.2913964	0.470729003
METTL17	0.078688602	1.064384154	0.2914380	0.470729003
PEG10	0.190126504	1.066933996	0.2914646	0.470729003
ARMC5	0.238080065	1.066065198	0.2914809	0.470729003
HNRNPH1	0.058890959	1.062472043	0.2920295	0.471540258
BRF2	0.094889262	1.062607916	0.2921795	0.471706364
TOM1	0.101836992	1.061911076	0.2922888	0.471766496
VPS51	-0.04173032	-1.064189916	0.2923090	0.471766496
FLOT2	0.134389831	1.061272255	0.2925846	0.472135789
EMILIN2	-0.179691391	-1.061870607	0.2928835	0.472543324
NDRG3	-0.077167199	-1.064094792	0.2929975	0.472651484
DLG3	-0.089496902	-1.063322509	0.2931755	0.472863821
RAB43	0.098310827	1.060118452	0.2934855	0.473181368
GLYCTK	-0.239050845	-1.064511999	0.2935294	0.473181368
TTC14	-0.115023966	-1.063983645	0.2935514	0.473181368
PPFIBP1	0.092465244	1.059159155	0.2935589	0.473181368
VPS35L	-0.044711523	-1.05847486	0.2941845	0.474113825
APEX2	0.071486667	1.062489775	0.2942819	0.474196131
UQCC1	0.111022105	1.05752496	0.2943526	0.474234822
TUBB2A	-0.239055414	-1.057371856	0.2944452	0.474308712

SZT2	-0.059224699	-1.059923788	0.2948025	0.474808596
FGB	-0.184816128	-1.056765189	0.2949482	0.474897211
VPS13B	0.057093647	1.058944436	0.2949509	0.474897211
CEL	0.393246714	1.05869663	0.2950459	0.474974784
C1orf109	-0.071586113	-1.056020652	0.2951127	0.475007044
ERICH3	-0.235526769	-1.055525786	0.2952506	0.47508594
TCF12	0.067400996	1.056150444	0.2953058	0.47508594
CDC123	-0.073858609	-1.056637461	0.2953335	0.47508594
PVR	0.108579361	1.055463201	0.2953489	0.47508594
AARS2	-0.137055639	-1.055474477	0.2954772	0.475216926
RBL1	0.152660471	1.060852604	0.2956802	0.475468078
RAD23A	-0.07148656	-1.055170202	0.2957414	0.475491162
FANCI	0.116123571	1.054683212	0.2959026	0.475606216
NCOA3	-0.046416447	-1.05408664	0.2959067	0.475606216
PGD	0.114059398	1.056453356	0.2961168	0.475868561
MTFP1	0.196090972	1.060822028	0.2962260	0.475968795
MRPL16	0.099067105	1.054599842	0.2962896	0.475995484
RHBDF2	0.110793308	1.053159737	0.2963827	0.476068743
ZNF672	0.143979323	1.052950307	0.2965515	0.47626521
SLC35E1	0.106168722	1.052900356	0.2967043	0.476435616
HIBADH	0.11829235	1.052536424	0.2967547	0.476441083
KRIT1	0.084107406	1.054429667	0.2968032	0.476443572
UBQLN2	0.081619173	1.05116098	0.2972474	0.477023025
HDAC8	-0.059613346	-1.053055708	0.2972587	0.477023025
PARP2	0.070516583	1.052295422	0.2974833	0.47730889
ENTPD4	0.142695526	1.051886176	0.2975504	0.477341036
RPA2	0.093527594	1.051820614	0.2977515	0.477557346
KRCC1	-0.265673109	-1.064505845	0.2977986	0.477557346
KLHDC7A	-0.172080283	-1.050386942	0.2978264	0.477557346
MRPS2	0.102968421	1.051314763	0.2979335	0.477653657
SPTBN2	-0.116814267	-1.049458308	0.2983994	0.478325052
NUP85	0.038503571	1.048116787	0.2985367	0.478468564

RAI2	-0.14451203	-1.052360839	0.2987356	0.478712826
EIF2S1	-0.053250865	-1.047131662	0.2990204	0.479005429
BORCS7	-0.070342639	-1.048044487	0.2990388	0.479005429
CNOT1	0.03821938	1.047631421	0.2990598	0.479005429
GGT6	-0.276260548	-1.049711402	0.2993557	0.47940381
ADGRL2	-0.147401466	-1.046717049	0.2996403	0.479733638
G3BP1	0.049539831	1.046606185	0.2996562	0.479733638
SLC43A2	-0.11661287	-1.04538534	0.2997803	0.479856516
EGR1	-0.379192348	-1.076791217	0.2999177	0.480000775
AK2	-0.103101504	-1.045987765	0.3001622	0.480315865
DICER1	-0.065702357	-1.044636532	0.3002092	0.480315865
S100A2	-0.421318797	-1.044149142	0.3003488	0.480463426
NPM2	-0.300377273	-1.050395219	0.3004463	0.480543769
EIF3H	-0.045484361	-1.046758414	0.3005584	0.480647249
PEX2	0.098336902	1.045111412	0.3007262	0.48083982
C5orf24	0.077253891	1.043110112	0.3008460	0.480955635
MED17	0.044742457	1.043196942	0.3011575	0.481377838
SURF6	0.161459286	1.046333049	0.3012561	0.481427697
NOVA2	0.147052632	1.042444219	0.3012836	0.481427697
HEXIM1	0.100131391	1.04371588	0.3013337	0.481432019
MRM1	0.124401128	1.04529546	0.3016133	0.481685036
PCK2	0.140459774	1.043186911	0.3016246	0.481685036
COX7A2L	0.157016475	1.04234087	0.3016344	0.481685036
WDCP	-0.073013835	-1.044266854	0.3017187	0.481743738
GSKIP	-0.074015	-1.04089873	0.3018644	0.481852425
DRG1	0.061752444	1.044971476	0.3019046	0.481852425
FAM177A1	0.119374887	1.045939217	0.3019292	0.481852425
ACAA2	-0.189215977	-1.044727371	0.3020599	0.481964779
TPX2	0.117061654	1.04319237	0.3020945	0.481964779
RBMXL1	0.080675263	1.040768363	0.3025698	0.482647164
CBX7	-0.178096667	-1.04417649	0.3030109	0.483226094
FAM53B	-0.111049699	-1.041825015	0.3030279	0.483226094

DHRS11	0.098120775	1.039793312	0.3033876	0.483619858
ABCD1	0.143318008	1.038833018	0.3034100	0.483619858
SYNE3	0.138142246	1.040009351	0.3034178	0.483619858
EIF4G2	0.034547876	1.038192799	0.3035952	0.483818215
SRP54	-0.054338327	-1.037494748	0.3036376	0.483818215
EDC4	-0.056794586	-1.03879731	0.3038242	0.48403954
H3.3A	-0.20317688	-1.037889769	0.3039065	0.484060758
DEF8	-0.150729348	-1.038591002	0.3039342	0.484060758
ITSN1	-0.07290938	-1.03625446	0.3039975	0.484060758
CLNS1A	-0.065054665	-1.036463359	0.3040285	0.484060758
RPE	-0.073135789	-1.03565975	0.3043352	0.484473449
UBA52	0.150072293	1.039197942	0.3045540	0.48474582
FOXN3	-0.250347554	-1.040977217	0.3046707	0.484813355
PHACTR4	0.051332331	1.037791837	0.3046920	0.484813355
SF3A2	0.058761541	1.034699161	0.3048580	0.485001496
CCNE1	-0.18278763	-1.035333509	0.3050000	0.485151319
ZNF143	-0.061887049	-1.033764486	0.3051375	0.485196428
PSMB3	0.071426692	1.034715045	0.3051385	0.485196428
PLCD3	-0.128481917	-1.035515316	0.3051718	0.485196428
PSMA3	0.040084023	1.034744993	0.3053612	0.485421537
ANO1	0.197442669	1.034045979	0.3055070	0.485577287
MVD	-0.078426635	-1.031952909	0.3059889	0.486204132
CREBBP	-0.048467425	-1.032010335	0.3059972	0.486204132
ZC3H3	0.326194074	1.055526449	0.3060847	0.486240051
C16orf86	-0.14522559	-1.034922006	0.3061156	0.486240051
PRDX3	0.129939248	1.031749076	0.3063727	0.486572317
ZC3HC1	0.042203045	1.030598428	0.3066085	0.486870189
TNIP1	-0.054036588	-1.032358773	0.3066737	0.486873859
RREB1	0.071460226	1.030552428	0.3067065	0.486873859
SRD5A3	-0.202652444	-1.03008902	0.3068662	0.486988572
TMTC2	0.179784295	1.032834688	0.3068747	0.486988572
GNS	-0.081029117	-1.03225035	0.3069644	0.487054803

SYNC	-0.226671071	-1.029969367	0.3070497	0.487113991
PPIL2	-0.053712068	-1.02946118	0.3071755	0.487236965
ND2	0.320660385	1.041064173	0.3073314	0.48736077
MPPE1	0.199378008	1.03029176	0.3073495	0.48736077
TXN	-0.096085526	-1.02882839	0.3074424	0.487369425
PTK2	-0.060503365	-1.029536017	0.3074834	0.487369425
ZMAT5	-0.07039	-1.02941424	0.3075680	0.487369425
TPBG	0.118667932	1.028533632	0.3075734	0.487369425
SELENOH	0.07649485	1.029805275	0.3075949	0.487369425
ATG4B	-0.064940808	-1.033380655	0.3077432	0.487528398
ERI3	-0.063615583	-1.02904569	0.3082406	0.488170896
RANBP1	-0.070362895	-1.027587411	0.3082450	0.488170896
MTHFS	0.10426759	1.02780336	0.3088936	0.489068188
CEP104	-0.070482726	-1.025848115	0.3089079	0.489068188
CFAP410	0.13671859	1.025560189	0.3091615	0.489393256
CBLB	0.072815425	1.027510545	0.3093755	0.489655736
OPLAH	-0.137737256	-1.025121087	0.3096700	0.490031531
SERGEF	0.086798872	1.025091491	0.3097095	0.490031531
NAPG	0.077145865	1.02493039	0.3098637	0.49004544
IL18R1	-0.16037211	-1.025727888	0.3099025	0.49004544
DGCR8	-0.054605098	-1.024390573	0.3099024	0.49004544
B4GALT7	0.12016485	1.024287313	0.3099114	0.49004544
ELP6	-0.049442124	-1.022863709	0.3102655	0.490390021
HBM	-0.188363524	-1.024581897	0.3102662	0.490390021
KCTD13	-0.190430455	-1.035528741	0.3102745	0.490390021
DHX29	0.054794338	1.023910091	0.3104005	0.49051312
FAM3C	0.149753703	1.022187135	0.3109100	0.491241806
EEF1B2	0.070379323	1.024117778	0.3109819	0.491278872
NDC80	0.13773235	1.021753197	0.3112716	0.491660003
HMOX1	-0.113871053	-1.022099946	0.3113695	0.49173808
STRBP	0.07477812	1.020302792	0.3114295	0.491756099
CRIP2	-0.113078759	-1.02061048	0.3117282	0.492151517

TBCE	0.105897932	1.020751404	0.3118320	0.492238702
ZPR1	0.05174	1.018740473	0.3121625	0.492683858
CHMP3	0.052601882	1.018522735	0.3122715	0.492779238
FGA	-0.186564455	-1.01867716	0.3123735	0.492863604
TSPAN8	0.491575214	1.022145719	0.3124416	0.492894472
ZNF511	-0.120988759	-1.017967685	0.3125415	0.492975152
USB1	-0.131476316	-1.019423919	0.3127705	0.493259608
TSPAN14	0.137330789	1.017264268	0.3129621	0.493485507
TASOR	0.059480451	1.021471598	0.3131002	0.493626596
PRPF40A	0.060165383	1.016649467	0.3133150	0.493888427
CLIC5	-0.249214586	-1.015671434	0.3138600	0.494670707
OTC	0.330601429	1.026955312	0.3139114	0.494674894
RSL1D1	0.158145526	1.01921848	0.3140334	0.494790425
GLO1	-0.083216222	-1.016350552	0.3140902	0.494803074
TST	-0.152586353	-1.014001028	0.3145265	0.495413158
ABI1	-0.056056222	-1.015645696	0.3146445	0.49552217
MRPL48	0.108780639	1.016338818	0.3147517	0.4956144
EGFR	0.117391323	1.016117211	0.3148378	0.495673099
BAG1	0.076692199	1.015477376	0.3149770	0.495815373
HAGH	-0.089816331	-1.01236712	0.3152284	0.496116164
TMEM26	0.402360718	1.013410656	0.3152659	0.496116164
SLC9A9	-0.168502525	-1.01723928	0.3156459	0.49663716
NUP98	0.036510489	1.011709957	0.3157302	0.496692772
ASRGL1	0.155251553	1.01128519	0.3158298	0.496772447
PI16	-0.141536654	-1.011465492	0.3160356	0.497019237
TJP3	-0.097208064	-1.010983711	0.3161052	0.497051578
ANXA1	-0.206991729	-1.011581208	0.3163120	0.497299755
SREBF1	0.084530556	1.012218707	0.3164100	0.497376789
ABHD17C	-0.148213167	-1.015061099	0.3164944	0.497432442
SMYD4	-0.117469491	-1.010936303	0.3165878	0.497488161
TUBAL3	-0.114745075	-1.010566994	0.3166279	0.497488161
CHD9	0.086846915	1.010426016	0.3167114	0.497542328

SFXN1	0.106631128	1.010560718	0.3169350	0.49780188
MRPL37	0.100468551	1.011763141	0.3169745	0.49780188
RAB25	0.150593271	1.009359194	0.3170817	0.497892944
SLC35B3	0.138487782	1.007684207	0.3174179	0.49830188
BRAF	0.06185782	1.008000584	0.3174400	0.49830188
RPS3	0.045165639	1.00853422	0.3175348	0.498373019
STK25	-0.050323165	-1.008150638	0.3176715	0.498509957
MED16	0.059034305	1.008938994	0.3177202	0.498509957
UQCR10	0.120049248	1.006990573	0.3180512	0.498921089
FREM1	-0.143221468	-1.01539765	0.3181272	0.498921089
ZNHIT6	0.074496353	1.007739875	0.3181407	0.498921089
PLEKHH3	-0.122693386	-1.00865198	0.3181789	0.498921089
PIK3CA	-0.07441047	-1.006899292	0.3182287	0.498922158
LRP6	-0.094874744	-1.005962823	0.3185745	0.49931352
RC3H2	-0.070480038	-1.009172421	0.3185767	0.49931352
MON1A	-0.127239662	-1.004863014	0.3187663	0.499393877
ELK1	-0.104855278	-1.009833787	0.3187689	0.499393877
ECE1	-0.100465132	-1.004839705	0.3187756	0.499393877
SOX17	0.09978968	1.004667365	0.3188619	0.49945196
RNASEL	-0.084892105	-1.005990415	0.3190670	0.499696563
NOP2	0.101153162	1.006865821	0.3192019	0.499830327
COQ10B	0.138751996	1.00536612	0.3195545	0.500304652
RPAP3	-0.054113327	-1.002827047	0.3199384	0.500828948
ZNF217	-0.072951391	-1.00249255	0.3200025	0.500852129
PMVK	0.119770508	1.002867539	0.3202163	0.501108072
TAGLN2	-0.108026541	-1.002314558	0.3202648	0.501108072
TBX3	-0.132782536	-1.00338276	0.3204226	0.501277676
SMYD3	0.117454511	1.003107806	0.3208169	0.501816685
ZNF740	0.091564252	1.002019454	0.3209457	0.501935612
D2HGDH	0.129612895	1.001647156	0.3209915	0.501935612
TSEN15	-0.157045312	-1.004066598	0.3210710	0.501982602
MOSPD2	0.094877218	1.001504142	0.3212295	0.502153038

NDUFS3	-0.078374327	-0.999555037	0.3213175	0.502176147
TK1	0.09944812	0.99997546	0.3213432	0.502176147
SHQ1	0.166837185	1.003777001	0.3216059	0.502509355
ALKBH2	-0.132239394	-1.00161557	0.3220187	0.503067622
E2F4	-0.0869	-1.00048636	0.3220624	0.503067622
SUCLG1	-0.079905545	-0.998207716	0.3221716	0.503160837
ABTB2	0.115454165	0.999560034	0.3223508	0.503363324
PPP3CA	-0.063956053	-0.998067536	0.3226094	0.503689632
RUSC1	-0.095353235	-0.998778881	0.3226787	0.503720358
MKI67	0.139972744	0.999927843	0.3230929	0.504289282
GNAL	-0.229025376	-0.996324752	0.3232066	0.504389198
CACUL1	0.048412079	0.994878919	0.3236516	0.504940565
FAM160A2	-0.052407744	-0.99516818	0.3236594	0.504940565
PHKG2	-0.066393045	-0.994845221	0.3241834	0.505680333
CLN5	-0.123271241	-0.993772767	0.3242397	0.505689513
GATB	0.074697605	0.99456026	0.3243770	0.505826913
CCNL2	-0.090625789	-0.993854972	0.3246489	0.506173066
DXO	0.075192481	0.992768435	0.3248245	0.506325747
TXNL4A	-0.048745846	-0.992115106	0.3248918	0.506325747
MAP7D1	-0.066983233	-0.992652926	0.3249455	0.506325747
HID1	0.099492744	0.992022622	0.3249487	0.506325747
DBN1	0.085962782	0.992093617	0.3250385	0.506325747
ZNF184	0.097089681	0.993045332	0.3250662	0.506325747
PPIL1	-0.054611823	-0.993041396	0.3250960	0.506325747
SH2D4A	0.093978008	0.991436784	0.3252115	0.506427871
NOS3	-0.16445694	-0.99539215	0.3252667	0.506436253
SSU72	0.059129718	0.991645125	0.3254425	0.506632139
ZNF668	0.111305105	0.992457325	0.3256930	0.506821116
ATG4A	-0.083811271	-0.992571695	0.3257437	0.506821116
GIN53	0.135758143	0.99029329	0.3257636	0.506821116
TMED7	0.199818233	0.991211979	0.3257636	0.506821116
EHHADH	0.114655977	0.990994352	0.3258626	0.506897514

MGAT1	0.116178947	0.990306441	0.3260286	0.507078027
ARL5A	-0.084097402	-0.993029346	0.3262445	0.507268979
PCBP1	-0.086907444	-0.991963693	0.3262876	0.507268979
RPP21	0.130669105	0.994524143	0.3263015	0.507268979
DOP1A	-0.097475	-0.989842166	0.326493	0.507489425
MAT2A	-0.046582237	-0.98890576	0.3266355	0.507632586
CASP2	0.082244173	0.99052677	0.3267646	0.507755822
PFDN4	-0.080871786	-0.987417554	0.3271845	0.508330499
EXOC2	0.038150827	0.987153702	0.3276646	0.508957643
FASTKD5	0.086027218	0.98676949	0.3276884	0.508957643
PRMT6	-0.119407763	-0.98950572	0.3280765	0.509482635
H4C15	-0.264418985	-0.987704367	0.3281468	0.509513551
BABAM1	-0.031515244	-0.985136877	0.3282696	0.509625418
CLTCL1	0.079045113	0.987622448	0.3283725	0.509676198
POTEJ	-0.175766165	-0.985819472	0.3284346	0.509676198
MRRF	0.10943406	0.984892459	0.3284732	0.509676198
CRTC1	-0.097300301	-0.98633394	0.3285026	0.509676198
RMDN3	0.073786241	0.984776619	0.328760	0.509997776
CAPN6	-0.262386579	-0.984604695	0.3288706	0.510071292
SGCB	-0.201664684	-0.985886919	0.3289086	0.510071292
CASC4	0.105076023	0.985289848	0.3289926	0.510124586
OAF	0.166130602	0.983641179	0.3295214	0.510866457
PRKACB	0.097829455	0.982120284	0.3298472	0.511293444
ELP2	-0.04914547	-0.983576091	0.3299765	0.511311768
REST	0.071651673	0.981647654	0.3299882	0.511311768
TWSG1	0.095059211	0.985255522	0.330010	0.511311768
ACADM	0.101023947	0.982251734	0.3303556	0.511656928
TXNRD2	0.125952171	0.981672445	0.3303764	0.511656928
USP35	0.13165914	0.984579319	0.3303845	0.511656928
CACHD1	-0.112536128	-0.98197934	0.3305154	0.51178209
SCRIB	0.071987293	0.980669998	0.3305718	0.511791367
BRIX1	0.102285677	0.982739972	0.330695	0.511904161

ARFIP2	-0.09378141	-0.980672465	0.3308339	0.512041031
C1orf198	-0.100297744	-0.979874069	0.330939	0.512085056
LDB1	-0.080405789	-0.980027796	0.3309639	0.512085056
ATP6AP1	-0.138133195	-0.984098587	0.3311890	0.512316991
COL5A1	0.118645977	0.979040134	0.3312476	0.512316991
ACOT13	0.099752348	0.979911477	0.3312646	0.512316991
DCAF13	0.085770695	0.980430691	0.3313939	0.512437972
MBOAT1	-0.115553722	-0.978680243	0.3314509	0.512448271
PSMG4	-0.071371711	-0.981333316	0.3315647	0.512546802
R3HCC1L	-0.08262359	-0.97958281	0.331650	0.512560213
EPSTI1	0.153573872	0.979286636	0.3316744	0.512560213
DHX36	0.042904741	0.977899047	0.3320157	0.513009628
DAPK2	-0.111468553	-0.977577463	0.3321428	0.513084009
CDK13	0.050553158	0.977462231	0.3321650	0.513084009
TIMM44	0.094210583	0.977486846	0.332313	0.513234761
IFNGR1	-0.114806298	-0.978148417	0.332464	0.513389743
IDH2	-0.165467105	-0.976270742	0.3326106	0.513537841
GPC1	0.092844639	0.979416247	0.3327458	0.513577916
KLHDC3	-0.069573459	-0.976779289	0.3327954	0.513577916
SLC25A19	0.093895789	0.976222895	0.332834	0.513577916
TUBA8	-0.180953923	-0.980777631	0.3328389	0.513577916
CDC7	0.147743204	0.982201913	0.3331729	0.51401419
TRAFD1	-0.055644842	-0.974939365	0.3333117	0.514097605
ACOT7	0.14804156	0.977602709	0.3333277	0.514097605
PRPF18	0.052100077	0.974790871	0.3334449	0.51419961
HILPDA	0.175072764	0.97738396	0.333528	0.514225999
TMEM223	0.087227782	0.974765745	0.3335934	0.514225999
RAB11FIP2	0.141495301	0.974740358	0.3336136	0.514225999
MATR3	0.053369944	0.974139214	0.3337036	0.514272817
MED19	-0.069403703	-0.974979892	0.3337524	0.514272817
ZNF428	0.084042406	0.974743601	0.3338427	0.514272817
COQ6	0.08802206	0.975298446	0.3338466	0.514272817

PTPN9	-0.045459549	-0.973715549	0.3339700	0.514384863
GEN1	-0.156843277	-0.973769296	0.3340822	0.514479533
REL	0.058653571	0.974734278	0.3344111	0.514907895
PSMG2	0.069559173	0.973059901	0.3344793	0.514923301
SLC25A14	0.216413862	0.986137253	0.3345225	0.514923301
MINPP1	0.085382293	0.972234179	0.3346273	0.515006414
AKAP13	-0.051003811	-0.971420888	0.3350387	0.515561376
PDP1	0.082246203	0.97116876	0.3355419	0.516241069
WIPI1	0.127070188	0.970139372	0.3356360	0.516241069
PITHD1	0.051789305	0.971339354	0.3356831	0.516241069
COPS7A	-0.070428421	-0.972244293	0.3357198	0.516241069
AKR1C2	-0.522688304	-0.974830735	0.3357381	0.516241069
C19orf33	-0.351294323	-0.970818658	0.3357855	0.516241069
MIPEP	0.115513177	0.9715931	0.3359001	0.516338954
RITA1	-0.133301905	-0.979388999	0.3360352	0.516468443
PYURF	0.096257857	0.969904205	0.3362296	0.51668902
KANSL3	-0.049864492	-0.96953781	0.3364041	0.516878964
ERC1	-0.054038477	-0.968449081	0.3364898	0.516932394
CMPK1	-0.10694203	-0.969977878	0.3366621	0.517118709
SRRM1	-0.082907274	-0.969951719	0.3367865	0.517231618
CDC25C	0.138353295	0.974059865	0.3369214	0.517360503
BAG2	0.186593327	0.966833492	0.3373028	0.517867778
COL12A1	-0.204160282	-0.966708141	0.3374979	0.518042681
GNB1	-0.076702594	-0.968209746	0.3375188	0.518042681
DHX40	0.050039643	0.965190502	0.3382141	0.519025567
RBM4B	0.117255498	0.966971251	0.3383735	0.519025567
FOXRED2	-0.078188459	-0.964755933	0.3383754	0.519025567
DNAJB2	0.069433955	0.965210036	0.3383991	0.519025567
LONP2	0.075557926	0.967057448	0.3384664	0.519025567
CDC42	0.105505827	0.964210873	0.3386265	0.519025567
NDUFS5	0.094064744	0.9650911	0.3386469	0.519025567
AKTIP	-0.082081541	-0.964438546	0.3387036	0.519025567

RAB6B	-0.163932136	-0.96607087	0.3387117	0.519025567
RNF31	0.041769479	0.96617186	0.3387120	0.519025567
DTWD1	-0.073782782	-0.964900225	0.3387217	0.519025567
FBXO42	-0.059857872	-0.964970587	0.3388775	0.519185722
ITFG2	-0.073371729	-0.964684719	0.3389556	0.519227303
PFKL	-0.070605818	-0.963315994	0.3390600	0.519233753
VMAC	-0.150902632	-0.964614365	0.3390621	0.519233753
CCDC134	0.073411485	0.963360366	0.3391617	0.519307916
KCNQ1	-0.176231093	-0.966430298	0.3393188	0.519470082
SMIM19	0.16617076	0.968299221	0.3395484	0.519670129
BCL2L1	0.078088628	0.963057539	0.3395522	0.519670129
NSD3	0.050881015	0.962079892	0.3396314	0.519670129
FRMD8	-0.057258485	-0.963671515	0.3397266	0.519670129
CCDC92	-0.057599135	-0.96198096	0.3397929	0.519670129
COMMD8	-0.04602188	-0.961895604	0.3397969	0.519670129
MAP4K5	0.06215282	0.962633184	0.3398444	0.519670129
TUBB8	0.098976842	0.96270566	0.3398591	0.519670129
SPIRE1	-0.179458519	-0.964315492	0.3399169	0.519676887
IQSEC2	-0.079878461	-0.964039712	0.3399659	0.519676887
NAT14	0.069360714	0.961513808	0.3400817	0.519775558
PCBD1	0.243076504	0.960876069	0.3404934	0.520326509
KANK4	0.185322729	0.96069334	0.3405990	0.520355606
SBF1	-0.04831282	-0.960107651	0.3406150	0.520355606
TSC2	-0.041689098	-0.959910511	0.3407571	0.520494331
POM121C	0.135021646	0.963751911	0.3411270	0.520981036
TIMM10B	0.068913759	0.95831821	0.3419929	0.52222482
OTULINL	-0.141187963	-0.957734544	0.3422859	0.522568238
CCNA2	0.144634398	0.956708527	0.3423208	0.522568238
CENPJ	-0.1688872	-0.957314376	0.3426050	0.522923571
MRPL11	0.10301156	0.956029381	0.3429629	0.523390374
TSC22D2	-0.095995564	-0.955748022	0.3431816	0.523646048
ALDH7A1	0.107078534	0.955650191	0.3432980	0.523666528

OLFML2A	-0.267646223	-0.957838379	0.3432982	0.523666528
VCP	-0.056652406	-0.953633267	0.3443670	0.525141438
EME1	0.190425207	0.952932479	0.3443686	0.525141438
CNNM4	0.100123977	0.953320124	0.3445879	0.525396992
RBM12B	0.046669436	0.952106472	0.3447127	0.525485676
MPP6	0.101485357	0.951879684	0.3447496	0.525485676
DYNC1LI2	0.076960089	0.95176488	0.3448375	0.525532427
OTUD6B	-0.070093741	-0.952597211	0.3448838	0.525532427
ANKLE2	0.054039812	0.949708897	0.3458557	0.526934231
TYW3	-0.074354962	-0.953138551	0.3459186	0.526950963
EBF1	-0.133831481	-0.952594934	0.3460318	0.527044315
ENTPD2	0.14305832	0.950361938	0.3462600	0.527254145
SMARCA1	0.069441805	0.949755531	0.3463183	0.527254145
WDR82	0.050444793	0.948698056	0.3463512	0.527254145
RBIS	0.082796335	0.94862968	0.3463774	0.527254145
MECR	0.095310789	0.949750184	0.3464906	0.52734744
S100A14	-0.274262406	-0.948478339	0.3467220	0.52762053
PUM1	-0.043646786	-0.947825666	0.3467835	0.527635018
UGDH	0.172850707	0.949334328	0.3470178	0.527912326
KAT8	-0.038726959	-0.946697616	0.3475207	0.528598239
TUSC1	-0.125524248	-0.946629484	0.3478556	0.529027047
CPEB2	-0.15177375	-0.952389253	0.3479069	0.529027047
POMT2	0.10247881	0.948377407	0.3480497	0.529163958
AAK1	-0.07573109	-0.945432429	0.3482098	0.529329095
GTF2IRD1	0.092238364	0.948295925	0.3484142	0.529560482
ELL	-0.057324338	-0.944451584	0.3485877	0.529695017
GPR39	0.169544662	0.945004555	0.3486082	0.529695017
PCYT1B	-0.101315079	-0.949351966	0.3486593	0.529695017
TSR1	0.065118966	0.943649131	0.3489148	0.530003824
STBD1	-0.101951353	-0.943904177	0.3490167	0.530078327
TALDO1	-0.093490921	-0.947049152	0.3490866	0.530106083
TMA16	0.081714248	0.944403019	0.3492237	0.530234161

CCDC61	-0.086891504	-0.942926619	0.3497407	0.530940575
CCN3	-0.196172293	-0.942437332	0.3499068	0.531113275
CCDC25	-0.067184511	-0.941192711	0.3502647	0.531577079
SLC9A3R2	-0.10572312	-0.943047796	0.3503414	0.531593164
SCARB1	0.115239575	0.94182354	0.3503807	0.531593164
ANKRD46	0.156770238	0.943957782	0.3504857	0.531673028
MRNIP	-0.070663684	-0.940270447	0.3507726	0.532029648
YBX2	0.309958974	0.949001296	0.3509583	0.532183007
RNPEPL1	0.063913072	0.940224227	0.3509786	0.532183007
RNF113A	-0.045564906	-0.939413282	0.3512492	0.532513809
LAMC3	-0.159422556	-0.939770844	0.3514297	0.532707
LAMTOR3	-0.06084841	-0.938560473	0.3515396	0.532794046
GMDS	-0.142379323	-0.937794074	0.3521533	0.533645579
ACOT9	-0.075229511	-0.936662464	0.3526804	0.534364387
RHOG	-0.081570102	-0.935993981	0.3528126	0.534484827
PRPF4	0.0501799	0.935396399	0.3531506	0.534917047
DYNC1LI1	-0.060715617	-0.935766487	0.3533476	0.535070061
C11orf68	-0.061228929	-0.935868925	0.3534454	0.535070061
FCN3	-0.153779323	-0.936177097	0.3534477	0.535070061
NDUFB2	0.148448972	0.937238861	0.3534625	0.535070061
RSRC2	0.057746868	0.933529745	0.3540656	0.535902247
MYSM1	0.083917746	0.934063267	0.3541623	0.535969565
G6PD	-0.163534767	-0.935357244	0.3542406	0.536008189
GIMAP2	-0.13301312	-0.93330461	0.3544847	0.536283785
SLC43A1	0.214468421	0.933546103	0.3545284	0.536283785
GSR	-0.096112838	-0.93222849	0.3547348	0.536516047
MSI2	-0.062675707	-0.931889169	0.3548997	0.536670317
GCDH	0.094846241	0.93280473	0.3549426	0.536670317
CCNL1	0.066721936	0.933067199	0.3550703	0.536738202
DNLZ	-0.172291368	-0.937897301	0.3551812	0.536738202
BAIAP2L1	-0.099419474	-0.931649757	0.3551879	0.536738202
LUZP1	-0.064464925	-0.932029774	0.3551996	0.536738202

TRIAP1	0.092434365	0.930159088	0.3558676	0.537668454
SUB1	-0.087839474	-0.931495366	0.3559708	0.537744363
RPS6KB2	-0.086324286	-0.930766325	0.3561231	0.537894351
SUPT3H	0.06522706	0.930893902	0.3563118	0.538094864
GBF1	-0.057110282	-0.930233669	0.3563619	0.538094864
PGR	0.155480977	0.928258535	0.3567845	0.538652879
EIF2B3	-0.046596184	-0.92761801	0.3573430	0.539415772
ADD2	0.145792857	0.927249084	0.3574617	0.539501125
ZNF324	-0.132924599	-0.932295942	0.3575408	0.539501125
ETNK2	0.174041667	0.930320379	0.3575590	0.539501125
BABAM2	-0.045028778	-0.928247034	0.3576172	0.539508758
KRT6B	0.305669776	0.931938623	0.3577962	0.539627732
G3BP2	-0.060901248	-0.927064554	0.3578024	0.539627732
GRAMD4	0.103360342	0.927918651	0.3579463	0.539710324
BICRAL	-0.105150701	-0.925979255	0.3579635	0.539710324
ATP5F1E	-0.140781842	-0.927286686	0.3581277	0.539712728
SLC11A2	0.14480297	0.925755289	0.3581911	0.539712728
LDLRAP1	-0.080959774	-0.925949126	0.3582327	0.539712728
TCEAL4	-0.095614887	-0.926210953	0.3582377	0.539712728
PANK3	-0.074645719	-0.926032789	0.3582694	0.539712728
LIG1	0.095457124	0.925775935	0.3582841	0.539712728
ACBD5	0.117178383	0.9262981	0.3585554	0.540041165
COX7A1	0.215978182	0.927619093	0.3586393	0.540087391
IDS	-0.111613725	-0.92575719	0.3587225	0.540132617
MRPL49	0.089036786	0.924902713	0.3587839	0.540144943
CRIP1	-0.166453195	-0.924152427	0.3588971	0.540157021
LPGAT1	0.119131842	0.925263781	0.3588984	0.540157021
FBN2	0.242274812	0.926099934	0.3589845	0.54020659
FBXL19	0.093917778	0.926888244	0.3591381	0.540357549
PARD6G	0.110316316	0.923294677	0.3594390	0.540730202
ABHD17A	0.066306389	0.92367329	0.3596079	0.540892541
CLDN1	-0.237186364	-0.926434308	0.3596535	0.540892541

SPAG7	-0.059347891	-0.921587579	0.3602102	0.541604392
PDE8A	-0.104330457	-0.921890882	0.3602336	0.541604392
TNFSF10	-0.112189323	-0.923374412	0.3603415	0.541686483
ANGPT2	-0.124001143	-0.921620307	0.3606115	0.542011693
PRKAR1B	-0.11557282	-0.92311339	0.3607949	0.542183742
TSHZ1	-0.107221429	-0.921520582	0.3608326	0.542183742
BCAM	-0.156127368	-0.922198237	0.3610157	0.542377228
MAN1A2	0.09226891	0.920813495	0.3610682	0.542377228
RMDN2	-0.083005357	-0.920001349	0.3616868	0.54322603
NUDT12	-0.100943947	-0.920291808	0.3621557	0.543848901
UBTD2	0.083830808	0.917929481	0.3624163	0.544160592
USP25	-0.04855547	-0.917118775	0.3625238	0.544241571
MCTS1	0.054008271	0.918155551	0.3627247	0.544419796
EXOSC7	0.053873703	0.916700695	0.3627498	0.544419796
COG8	0.069308008	0.916592524	0.3629715	0.544555222
PDHA1	0.080627045	0.917208146	0.3629872	0.544555222
ETFRF1	0.129141504	0.917362516	0.3630257	0.544555222
CORO7	-0.111838571	-0.918488681	0.3630637	0.544555222
PKHD1L1	-0.270936466	-0.917061589	0.3631083	0.544555222
IPO4	0.078257744	0.916348744	0.3631699	0.544567156
GZMB	-0.180515525	-0.917944746	0.3633276	0.544723191
GPATCH1	0.04378485	0.915200848	0.3637015	0.545203147
ARGLU1	0.052305485	0.914307244	0.3641143	0.545607466
PAN3	-0.038609549	-0.913778197	0.3643293	0.545607466
SLAIN2	0.035950669	0.913637412	0.3643524	0.545607466
DBNDD1	0.141456446	0.917206663	0.3643544	0.545607466
AMN1	-0.102114491	-0.914119056	0.3644067	0.545607466
RAP1GDS1	-0.053169135	-0.914042458	0.3644562	0.545607466
SUMO1	0.065930526	0.914913571	0.3644690	0.545607466
AKR1C1	0.3544	0.923752179	0.3645286	0.545607466
HDGF	-0.101869737	-0.914089168	0.3645399	0.545607466
GCHFR	-0.147833383	-0.9131722	0.3645794	0.545607466

LAP3	-0.106565639	-0.913742446	0.3646368	0.545607466
UBE2G1	0.042961842	0.913338826	0.3646645	0.545607466
PTPN1	-0.058633665	-0.912950761	0.3647109	0.545607466
PTPRS	0.122505827	0.915581015	0.3647995	0.545607466
TBC1D5	0.045568515	0.912892257	0.3648059	0.545607466
ANKRD49	-0.173932658	-0.913780229	0.3648315	0.545607466
NDUFAF6	0.083992143	0.913718478	0.3649152	0.545652536
ZNF76	-0.084524511	-0.914231117	0.3650199	0.545728745
NDUFAF1	-0.094530263	-0.912196707	0.3651320	0.54581597
SUMO3	-0.050820677	-0.912570874	0.3653811	0.546107853
RNASE6	-0.142600556	-0.911281476	0.3661702	0.547206773
ATXN7L3B	-0.098615395	-0.912744595	0.3663041	0.547326232
BRPF1	0.035781466	0.909543799	0.3664772	0.547504305
ROCK2	-0.073742857	-0.909679101	0.3665424	0.547521159
RTN4IP1	0.085138534	0.911498257	0.3669435	0.548032165
RNF115	0.11401188	0.908978062	0.3669925	0.548032165
TRAF5	-0.081468816	-0.908282459	0.3671895	0.548154196
GRN	-0.09468797	-0.908208411	0.3672099	0.548154196
RPS4X	0.077910263	0.90996836	0.3672925	0.548154196
HNRNPUL2	0.042207556	0.908891669	0.3673108	0.548154196
ANKRD12	0.109536869	0.908860493	0.3673479	0.548154196
FXYP1	-0.385283768	-0.912127668	0.3673985	0.548154196
BUB3	0.04083312	0.907629595	0.3674798	0.548195277
ZNF362	0.082057707	0.90813024	0.3676579	0.548275154
ZNF706	-0.076717857	-0.908599869	0.3676627	0.548275154
SLC25A25	-0.095225301	-0.909434624	0.3676954	0.548275154
MCC	0.079738759	0.906892807	0.3682339	0.548961732
LYAR	0.11938688	0.907899009	0.3682640	0.548961732
CLASP1	0.051900786	0.909427386	0.3683379	0.548991162
KANSL2	0.0459079	0.905998126	0.3685071	0.549135232
NFAT5	-0.096540564	-0.907190413	0.3685427	0.549135232
KDM4C	0.105341481	0.90537191	0.3688665	0.549536657

RABGEF1	-0.040290976	-0.904789128	0.3690819	0.549777216
METTL8	0.162119984	0.908880438	0.3696609	0.55055885
ME3	-0.129140977	-0.907379287	0.3697559	0.550610195
DSCC1	0.112306297	0.903209068	0.3698039	0.550610195
BCAS3	-0.053553308	-0.903961865	0.3700374	0.550877122
COL4A2	-0.093196241	-0.902177439	0.3704362	0.551389982
VAR52	0.089904778	0.902444413	0.3709347	0.552050914
INPP5J	0.145735942	0.906003309	0.3711147	0.552237834
STRAP	0.039801772	0.90080028	0.3712082	0.552296103
MRPL34	0.087935839	0.900858783	0.3713952	0.55249329
PHLDB3	0.091321147	0.901840922	0.3718588	0.553019289
RNPEP	-0.076715639	-0.900763627	0.3718987	0.553019289
PPP1R16A	-0.072701148	-0.899995804	0.3719122	0.553019289
HMG5	-0.109507143	-0.898966599	0.3720583	0.553155481
UBE2Q1	0.072101241	0.900204902	0.3722057	0.553292694
ABCF3	-0.037777737	-0.89802097	0.3725647	0.553639174
SPRR1A	0.201131282	0.900888767	0.3725978	0.553639174
PAXBP1	-0.074366579	-0.89835421	0.3726018	0.553639174
RPLP0	0.044131568	0.898552588	0.3726688	0.553657632
HAVCR2	-0.215128571	-0.904824462	0.3733200	0.554465234
CNOT6L	-0.055442105	-0.89655029	0.3733217	0.554465234
CENPF	0.105352368	0.897416691	0.3734888	0.554632334
MRPS21	0.113365414	0.896705088	0.3735997	0.554637182
POLR2L	-0.052540921	-0.8960771	0.3736014	0.554637182
EIF3C	-0.078499098	-0.897995004	0.3738047	0.554857888
MAML2	-0.107062538	-0.897968367	0.3739257	0.554955432
CPD	-0.122906385	-0.895926649	0.3742536	0.55536171
SND1	0.045948985	0.895609394	0.3746618	0.555886296
CELSR2	0.077392026	0.89606049	0.3748277	0.556051142
DIDO1	0.052937744	0.893148019	0.3751538	0.556453578
INPP5K	-0.074740329	-0.892732216	0.3756066	0.556853988
KDM5A	0.048260263	0.892241867	0.3756110	0.556853988

GALNT6	-0.156604361	-0.892715591	0.3756722	0.556853988
DAXX	0.051046767	0.89242733	0.3756900	0.556853988
C17orf100	-0.116017549	-0.902224399	0.3757345	0.556853988
HLA.A	0.22085	0.892774424	0.3758062	0.556853988
MRPS36	-0.085202556	-0.892355012	0.3758078	0.556853988
EIF2B2	-0.043686184	-0.892137084	0.3760708	0.557162375
E2F5	-0.123901423	-0.895045516	0.3761276	0.557165198
POLR3A	0.044987389	0.891087798	0.3762907	0.557325471
TBC1D24	-0.075027519	-0.891495482	0.3764259	0.557444362
JADE3	-0.056118797	-0.89099554	0.3765437	0.557537471
DESI2	-0.103918741	-0.892367316	0.3766428	0.55760289
NUDT9	-0.053315414	-0.890025008	0.3768063	0.557763503
PDRG1	-0.060578515	-0.890131699	0.3770460	0.558036975
SETD7	-0.122712895	-0.889661727	0.3774767	0.558592945
SEC14L2	0.107074812	0.888564309	0.3775797	0.558663903
ADO	-0.060176748	-0.890080693	0.3776998	0.558760178
IPO5	0.047089658	0.886905643	0.3784745	0.559761616
PCSK9	-0.128187297	-0.888003011	0.3784870	0.559761616
HERC4	-0.041228797	-0.886316022	0.3787876	0.560124495
FAM110B	-0.181094118	-0.891057514	0.3792480	0.560723619
GDI2	-0.04521844	-0.885608072	0.3794364	0.56092046
TCF3	0.087158402	0.885109862	0.3795746	0.561043099
ARMC8	-0.037433893	-0.886152977	0.3798699	0.561366345
MS4A6A	-0.187815551	-0.887978068	0.3799039	0.561366345
CLDN4	0.100712533	0.885965781	0.3802587	0.561704361
KYAT3	-0.119230451	-0.884761722	0.3802933	0.561704361
FASTKD1	0.126611125	0.886038656	0.3803058	0.561704361
FCF1	0.107449962	0.883711381	0.3803540	0.561704361
CMTM3	-0.126782777	-0.883840438	0.3809908	0.562562801
FOXK2	-0.05056032	-0.882018488	0.3810986	0.562603598
AIDA	0.090091654	0.883609143	0.3811292	0.562603598
TMEM67	-0.087606526	-0.882331398	0.3814202	0.56287063

TAF9B	-0.067105733	-0.881837566	0.3814836	0.56287063
ZFYVE9	-0.05112415	-0.882421797	0.3815142	0.56287063
POR	0.117646805	0.881748867	0.3815320	0.56287063
GUSB	0.26082594	0.881599901	0.3819483	0.563402931
PSME3	0.056691466	0.879844306	0.3822606	0.563781645
KBTBD4	-0.061446921	-0.880179631	0.3823394	0.563815974
MTDH	0.082683647	0.879546974	0.3824167	0.563848024
PARN	0.040449117	0.879525247	0.3825487	0.563915321
HAUS3	-0.055151578	-0.88042366	0.3825734	0.563915321
PIP4K2A	-0.072791165	-0.879112385	0.3826292	0.563915559
FNTA	-0.052811316	-0.879306899	0.3830017	0.564381847
TENT4B	0.044859323	0.879453596	0.3831087	0.564454183
TGFBRAP1	-0.054167256	-0.878833542	0.3831799	0.564454183
PCYT2	-0.072720677	-0.880570755	0.3832177	0.564454183
METTL15	0.070258722	0.878154265	0.3834187	0.564668312
ZBTB12	-0.137602381	-0.884056091	0.3837353	0.564968839
PPP6R3	-0.066026711	-0.878430855	0.3837575	0.564968839
GLA	0.113425639	0.879833425	0.3838682	0.564968839
RAB19	0.110220771	0.877414987	0.3838927	0.564968839
NUS1	0.140549548	0.877801184	0.3839005	0.564968839
UBXN1	-0.057971677	-0.877940976	0.3840454	0.565100224
EIF3B	-0.039618919	-0.8768072	0.3841699	0.565201524
NECAP1	-0.040845263	-0.876621855	0.3843919	0.565446149
RABGAP1	-0.049112105	-0.87561129	0.3845360	0.565495965
SDHAF2	0.136700752	0.87570219	0.3845835	0.565495965
KPNA6	-0.037776838	-0.875778641	0.3845929	0.565495965
DDX6	0.041125709	0.875432979	0.3848235	0.565753094
CDH5	-0.094743195	-0.874957835	0.3849115	0.565800427
MRPL27	0.093634263	0.875535332	0.3854410	0.566496709
SINHCAF	0.084944805	0.873916288	0.3857172	0.566820584
GMEB1	0.05984547	0.874209426	0.3858236	0.566829392
RAN	0.044529906	0.873250478	0.3858366	0.566829392

GBP5	-0.125684962	-0.873184019	0.3858907	0.566829392
MCRS1	0.036008929	0.872807165	0.3860982	0.567052164
ADK	-0.064873496	-0.872950497	0.3862089	0.567132633
MARK4	0.116808571	0.871441572	0.3869511	0.568140367
LAPTM4A	0.205916537	0.873944196	0.3872546	0.568503652
RNF20	0.039223515	0.870234835	0.3875055	0.568789421
MAPRE2	0.169274248	0.872466487	0.3879082	0.569298595
DENND11	0.0743284	0.86885714	0.3884224	0.569957786
ENOPH1	-0.08132109	-0.871058892	0.3884697	0.569957786
COIL	0.068108459	0.868033645	0.3887161	0.570228913
GALK1	-0.07005532	-0.868192326	0.3887669	0.570228913
NUBPL	0.094737613	0.869352426	0.3889418	0.570403119
GLUD1	-0.070903684	-0.867735778	0.3890167	0.570430449
QRSL1	0.066146692	0.867944443	0.3891121	0.57048805
BRI3BP	0.103237406	0.868193324	0.3891869	0.570499553
PTPRG	0.081318402	0.867577785	0.3892324	0.570499553
ETFB	-0.100868045	-0.868276184	0.3894403	0.570721868
MRPL54	0.080671688	0.866846046	0.3895339	0.570776591
VAMP7	0.06459515	0.866362384	0.3897357	0.570896571
COPB2	-0.055805314	-0.866421067	0.3897775	0.570896571
AOX1	-0.142558271	-0.867391483	0.3898282	0.570896571
JAZF1	-0.184679762	-0.882655056	0.3899671	0.570896571
ZBTB10	-0.078219774	-0.865827098	0.3899895	0.570896571
S100PBP	0.091121705	0.871760222	0.3900026	0.570896571
PRKCZ	0.069722293	0.869441158	0.3900095	0.570896571
CHL1	-0.221719418	-0.868818558	0.3901955	0.571080687
ECI1	-0.116587406	-0.865248389	0.3902478	0.571080687
AP3D1	-0.040784305	-0.865080942	0.3903517	0.571150349
SIGLEC10	-0.11037	-0.866485181	0.3904237	0.57117337
ING1	0.048757577	0.864671993	0.3906026	0.571339846
AURKB	0.118827124	0.864453924	0.3908155	0.571339846
REM1	-0.143352229	-0.867697088	0.3908348	0.571339846

LARP1B	-0.061872906	-0.865616245	0.3908878	0.571339846
DDX18	0.079439211	0.865790959	0.3909040	0.571339846
NFYB	-0.053610921	-0.864169434	0.3909258	0.571339846
GSTM4	-0.33470218	-0.866226734	0.3909722	0.571339846
CPT2	0.105122895	0.863881169	0.3909878	0.571339846
STC2	-0.194706955	-0.863534013	0.3911356	0.57147361
TEAD2	0.100258333	0.867615204	0.3913792	0.571747247
MRPL53	0.094320263	0.863535126	0.3915276	0.571881708
TOPORS	0.075286286	0.864766546	0.3919381	0.572328581
NUP153	0.035224532	0.862594413	0.3919464	0.572328581
PLA2G4C	-0.182886559	-0.864323471	0.3920221	0.572356913
EIF4H	-0.051781391	-0.862661567	0.3925100	0.572917089
UBE2F	-0.044274549	-0.86091939	0.3925187	0.572917089
C5orf51	0.054347406	0.860051196	0.3930288	0.573578725
RARRES2	-0.153388365	-0.859914947	0.3931875	0.573728184
SCARF2	0.172845	0.8635251	0.3933411	0.573869798
SGCE	-0.161179638	-0.859571954	0.3937325	0.574299954
MBTPS1	0.073339812	0.859560531	0.3937491	0.574299954
EPC2	0.06583485	0.858610952	0.3940469	0.574583046
UBE2O	-0.035289192	-0.858029128	0.3941049	0.574583046
NOL4L	-0.083672932	-0.858665232	0.3941775	0.574583046
FBXO31	0.16489697	0.861286871	0.3941792	0.574583046
GPATCH2	0.077600233	0.858053933	0.3942363	0.574583046
STEAP3	0.149388985	0.85891571	0.3942883	0.574583046
SREK1IP1	0.074993468	0.859231502	0.3943394	0.574583046
PLRG1	0.039213534	0.857207711	0.3945289	0.574776673
NAP1L5	-0.089378759	-0.857534654	0.3948168	0.575111208
IRAK4	-0.065023233	-0.857247201	0.3948719	0.575111208
IL1RN	-0.223824812	-0.857028687	0.3953113	0.575564153
MIF4GD	-0.082950376	-0.855869488	0.3953565	0.575564153
TARS3	0.070870056	0.855686701	0.3953849	0.575564153
ATE1	-0.046634248	-0.85566828	0.3954097	0.575564153

SH3YL1	0.109903571	0.856775848	0.3955038	0.575618554
MRT04	0.065605742	0.857740179	0.3955862	0.575655954
SOX5	0.082804958	0.856119811	0.3957282	0.575779997
DGCR2	0.137419375	0.856931796	0.3958114	0.57581855
DLG1	-0.058613064	-0.85489846	0.3960020	0.576013245
POLA1	0.072495203	0.854798551	0.3965390	0.576711789
ZAP70	0.150284914	0.858075914	0.3965982	0.576715271
DOCK5	0.099065038	0.854443989	0.3967909	0.576912835
GRPEL2	0.115685842	0.855479869	0.3969141	0.576943303
VPS28	-0.037885271	-0.854080631	0.3969256	0.576943303
SPIN1	0.067644455	0.852439452	0.3971500	0.577111823
AP1M2	-0.077986936	-0.852415291	0.3972235	0.577111823
TNIP2	-0.060695752	-0.852667997	0.3972622	0.577111823
STAU1	-0.045037406	-0.852441848	0.3972689	0.577111823
SEC24A	-0.054420489	-0.851601601	0.3981730	0.578342438
TAPBPL	0.158281955	0.852656263	0.3986503	0.578935014
RB1CC1	-0.046262011	-0.849866409	0.3987264	0.578935014
KLF13	-0.075910338	-0.850465151	0.3987521	0.578935014
ZBED1	0.054247162	0.849275957	0.3989434	0.579129882
CEP131	-0.086336523	-0.848930761	0.3991660	0.579331114
CHMP5	0.054714705	0.849669613	0.3991962	0.579331114
SST	0.508012094	0.853035397	0.3993856	0.57952319
HBQ1	0.14286468	0.848365198	0.3995164	0.57958237
TBK1	0.036929726	0.848270894	0.3995406	0.57958237
FBLL1	-0.075018083	-0.847994593	0.3996019	0.579588416
DZANK1	-0.108000113	-0.847704903	0.3999877	0.580065049
PPP1R14B	-0.139887594	-0.848244201	0.4005006	0.580724145
SFMBT1	-0.078847613	-0.846276714	0.4005566	0.580724145
GTF2A1	0.101869286	0.850327236	0.4009224	0.581102521
MED24	0.054035023	0.848563236	0.4009506	0.581102521
LRSAM1	-0.041238383	-0.846003145	0.4009893	0.581102521
VTCN1	-0.233899812	-0.846559299	0.4011727	0.581285339

BHLHE41	-0.20279381	-0.849483344	0.401255	0.581321714
RDH13	-0.079045695	-0.844919472	0.401360	0.581391147
SLC39A11	0.11597907	0.844821145	0.401829	0.581865682
PDHB	0.073182481	0.844042834	0.401840	0.581865682
POLDIP3	0.04891641	0.843841914	0.401903	0.581865682
GGPS1	0.113301786	0.846281921	0.401917	0.581865682
RBFOX2	-0.077913746	-0.8435302	0.402089	0.5820324
KATNAL2	-0.06579706	-0.845056715	0.402580	0.582660146
NFYA	0.103496429	0.841404504	0.403257	0.583556178
ADCY6	-0.21480094	-0.841605276	0.403542	0.583842636
PRPSAP1	-0.051568741	-0.840788925	0.403611	0.583842636
ASCC2	0.048744323	0.841455486	0.403627	0.583842636
DNAJA3	0.068547932	0.8402396	0.403971	0.584182484
RMDN1	-0.066122368	-0.840958155	0.404060	0.584182484
APOB	-0.149413647	-0.840022032	0.404068	0.584182484
RAB8B	-0.114663778	-0.842008313	0.404093	0.584182484
TRUB2	0.120584979	0.842037462	0.404214	0.584275025
PARS2	0.081165	0.839523802	0.404694	0.584885135
TICAM1	-0.167861923	-0.841655322	0.404770	0.584911108
ZBTB4	-0.101232838	-0.838667078	0.405041	0.585219468
WDFY1	0.056643797	0.839796042	0.405185	0.585345026
TIMM23	0.090035	0.837895666	0.405929	0.586335551
NSA2	0.087948026	0.83828938	0.406250	0.586715729
ZNF410	0.070964091	0.838404283	0.406378	0.586817478
MKLN1	0.037378835	0.836485461	0.406584	0.586933088
KNL1	0.116470044	0.835892215	0.406600	0.586933088
MYO5B	0.068658177	0.835641865	0.406631	0.586933088
EXOSC2	0.044987162	0.835188769	0.406801	0.587094419
ATIC	0.054899226	0.836067799	0.406895	0.587146222
MARK2	-0.038780451	-0.834056053	0.407360	0.587734697
CAMSAP2	0.068545301	0.834520079	0.407473	0.587812944
RAPH1	0.061157143	0.833795957	0.407540	0.587827097

TACC3	-0.067786504	-0.834550999	0.4081157	0.588473377
FMO5	-0.165869596	-0.834419947	0.4081224	0.588473377
POLR2D	-0.075285771	-0.833691986	0.4082168	0.588473377
BTN3A1	0.089894865	0.832861695	0.4082207	0.588473377
FARP1	0.078646447	0.833320238	0.4083542	0.588582208
WASF1	-0.113371541	-0.832465363	0.4088186	0.589167833
TSKU	0.07107359	0.832369237	0.4089706	0.589303238
NFRKB	0.030186504	0.830224938	0.4094984	0.589980013
THBS3	-0.145779511	-0.829914563	0.4096732	0.590114544
TRMT1	-0.055021872	-0.830995115	0.4097193	0.590114544
JADE1	-0.104385721	-0.831324235	0.4097662	0.590114544
USO1	0.054754887	0.830515377	0.4098588	0.590164112
ARHGEF5	0.061709474	0.830078566	0.4100487	0.590297866
GJB1	0.217441453	0.832128395	0.4100686	0.590297866
AGL	0.048391936	0.828593122	0.4104147	0.590712415
RSPH9	-0.319795565	-0.83771299	0.4105292	0.590794197
SHPRH	0.064954549	0.827944877	0.4109047	0.5912235
ABCD4	0.100837105	0.828023574	0.4109446	0.5912235
PARD3B	0.061542782	0.828488065	0.4110389	0.591251175
PRPF3	0.048602331	0.82799571	0.4110797	0.591251175
ID1	0.081780921	0.826942557	0.4115204	0.59175881
ANAPC1	0.032567124	0.828521408	0.4115493	0.59175881
GASK1B	0.145763876	0.827851978	0.4117663	0.591923621
IMPA1	-0.07348735	-0.827039499	0.4117803	0.591923621
MTO1	0.055605489	0.827819396	0.4118776	0.591979358
SDC1	0.174426692	0.825805144	0.4122553	0.592216912
MTA3	0.079882406	0.825717483	0.4122634	0.592216912
ZNF37A	0.14080705	0.832735335	0.4122809	0.592216912
HARS1	-0.044841316	-0.825411787	0.4123218	0.592216912
WDR61	-0.035941842	-0.82518011	0.4123346	0.592216912
LAD1	0.130671823	0.824922273	0.4125163	0.592393992
ARHGEF35	0.15989281	0.826117746	0.4129814	0.592978015

ZMIZ1	-0.065684406	-0.825774438	0.4132195	0.593190662
QRICH1	0.039399056	0.823566413	0.4132464	0.593190662
U2AF1L5	0.179983139	0.823806055	0.4133708	0.59323724
OXSRI	0.045090075	0.82455842	0.4134322	0.59323724
ATP23	0.083427406	0.825067831	0.4134542	0.59323724
SLC4A4	-0.251375172	-0.826553842	0.4136737	0.593468393
ARNT2	0.089494117	0.823306994	0.4137614	0.593510214
GRAP	0.112854224	0.823524333	0.4138818	0.593599054
PBX2	-0.0719	-0.8232032	0.4139794	0.593610126
MAPKAPK2	-0.067990677	-0.822407323	0.4140557	0.593610126
NDUFS2	0.072270263	0.822457755	0.4140649	0.593610126
TSG101	-0.04013612	-0.824408533	0.4142556	0.593799599
NAA38	0.061657143	0.824337924	0.4144232	0.59390625
PHKA1	-0.073285902	-0.822664174	0.4144470	0.59390625
ZFAND5	-0.064182556	-0.823132593	0.4145329	0.593945413
SLK	-0.061755752	-0.820988923	0.4147310	0.594131043
C10orf88	-0.095773523	-0.825045588	0.4147795	0.594131043
RNPS1	0.039033722	0.820281232	0.4151092	0.594519322
PRAG1	0.076421617	0.820626762	0.4155259	0.594975526
ZC3H15	0.059183173	0.821035877	0.4155449	0.594975526
RTCB	-0.043113647	-0.820288526	0.4157465	0.595180132
PDGFC	0.108370132	0.8213209	0.4159339	0.595364489
MPP7	-0.158138083	-0.818401377	0.4162303	0.59570479
F8A2	-0.065276791	-0.81846502	0.4163603	0.595806816
SNX12	-0.064616105	-0.817589955	0.4166763	0.596174956
PLEKHB1	0.200364	0.821344509	0.4169765	0.59652037
CEACAM5	-0.345538421	-0.818147751	0.4171037	0.5965646
PPP1R35	-0.133025238	-0.824847238	0.4171250	0.5965646
NEBL	0.193877068	0.817170751	0.4172566	0.596620315
CHRD2	-0.270185714	-0.818203008	0.4173100	0.596620315
CTDSPL2	0.049609624	0.816290335	0.4173623	0.596620315
FAM120B	0.039693722	0.817594805	0.4173990	0.596620315

PCCA	0.115270868	0.816732858	0.4176125	0.596759507
SH3RF3	-0.09025305	-0.816704858	0.4176140	0.596759507
ZNF444	0.075172185	0.815899966	0.4178635	0.596878411
RLIM	-0.03955141	-0.816252916	0.4179250	0.596878411
EEF1D	0.05187545	0.815296509	0.4179265	0.596878411
RPUSD1	-0.108799082	-0.816824186	0.4179585	0.596878411
PER1	-0.1369265	-0.821853749	0.4180385	0.596878411
PLEKHA6	0.112068985	0.815493862	0.4180505	0.596878411
KRR1	0.067906579	0.815373533	0.4183295	0.597186049
IMMP1L	0.116850167	0.817813669	0.4183835	0.597186049
TRNT1	-0.057887218	-0.816247798	0.4184475	0.597193434
MRPL12	0.086251043	0.814936601	0.4186275	0.597366749
NAPEPLD	-0.110083083	-0.814785876	0.4186985	0.597383452
AHCTF1	0.047430451	0.812983475	0.4192415	0.598074983
PIGB	0.095906883	0.813754408	0.4194665	0.598311142
TRIP6	-0.088898233	-0.812495267	0.4196445	0.598481536
PKNOX1	-0.057994549	-0.812270677	0.4197805	0.598587369
RPS10	0.074420492	0.812090198	0.4198365	0.598587369
COL26A1	0.277096212	0.813840484	0.4202060	0.599029755
EXOC3	0.033463778	0.811725973	0.4204210	0.599252039
IKZF3	-0.150107977	-0.812798571	0.4208215	0.59973851
RUBCN	0.121019336	0.810455812	0.4211910	0.600180991
CBX1	-0.060141823	-0.809302561	0.4213400	0.60030981
SLC15A4	0.070452086	0.80926878	0.4215340	0.600389003
ALPL	0.195923947	0.80932772	0.4215445	0.600389003
MTMR8	-0.152856552	-0.812692893	0.4216045	0.600389003
CBFB	0.052543759	0.808796006	0.4217005	0.600389003
TCEANC2	0.058632765	0.809439088	0.4217410	0.600389003
ADRA2A	0.119393242	0.810185259	0.4217510	0.600389003
VPS37A	-0.039051718	-0.808269332	0.4219450	0.600580918
THAP4	0.120989683	0.808150393	0.4224785	0.601091518
GRAMD1C	0.074030021	0.807964809	0.4225175	0.601091518

ATXN1L	-0.048305429	-0.807320138	0.4225310	0.601091518
C19orf47	-0.041048308	-0.807351829	0.4225406	0.601091518
SLC44A4	-0.175694173	-0.807829899	0.4228912	0.60141016
IDNK	-0.128022571	-0.808566166	0.4229884	0.60141016
ACOT1	-0.086076128	-0.806588844	0.4229975	0.60141016
GP2	-0.399211714	-0.807858246	0.4230383	0.60141016
KPTN	-0.056658031	-0.806916419	0.4230609	0.60141016
DHX57	0.048639939	0.80927424	0.4231809	0.601496451
CETP	-0.146917763	-0.810815446	0.4232809	0.601535255
ZMYND11	0.060890624	0.806085025	0.4233267	0.601535255
DCPS	0.068889135	0.805834853	0.4234493	0.601625332
ANKMY2	-0.063562274	-0.806378708	0.4236106	0.601769321
RELCH	-0.047263734	-0.803927745	0.4245327	0.602972197
USP53	0.090374492	0.803763744	0.4246208	0.602972197
FASN	0.076592218	0.80349801	0.4246738	0.602972197
TBC1D8B	0.111412538	0.805792568	0.4246944	0.602972197
COMMD1	-0.064450158	-0.803254334	0.4248975	0.603176278
RHPN1	-0.199766576	-0.809132914	0.4251184	0.603405367
CTNNA1	0.055874756	0.803528858	0.4252106	0.603441499
MRTFB	0.037714267	0.802439476	0.4253147	0.603441499
C11orf58	-0.044978421	-0.802459124	0.4253222	0.603441499
METTL7A	0.127174474	0.802375475	0.4254942	0.603601262
ZNF516	0.099948872	0.802543145	0.4256324	0.603712913
NDUFA10	-0.071246128	-0.802107701	0.4256926	0.603713951
ZCCHC10	0.07862094	0.803056722	0.4257655	0.603732963
TTC1	-0.043204474	-0.801243601	0.4259686	0.603921497
VAR51	-0.047314455	-0.801605627	0.4261042	0.603921497
CLMN	0.085122932	0.801272796	0.4261473	0.603921497
PSMB2	0.057147632	0.800908175	0.4261829	0.603921497
PPCDC	-0.062371842	-0.802420709	0.4261966	0.603921497
GSTA4	0.132211842	0.80234643	0.4262739	0.603947635
EOGT	0.093061692	0.801601609	0.4263837	0.60401884

TMC5	-0.126691974	-0.800644005	0.426459	0.604041371
DEAF1	0.079487311	0.80039437	0.4267110	0.604279581
ACO1	-0.07330288	-0.800454963	0.4267812	0.604279581
KLHL11	-0.06032578	-0.799904711	0.4268059	0.604279581
HNRNPH2	0.036052724	0.800181211	0.426873	0.604290379
HNRNPAB	0.066036579	0.799635719	0.4270612	0.604472394
DENND4C	-0.038233158	-0.799537521	0.4272787	0.6046959
UBL7	-0.047546154	-0.800240112	0.4274866	0.604812089
MMP24OS	-0.117905395	-0.798931319	0.4275144	0.604812089
TBCD	0.048106729	0.799090146	0.4275756	0.604812089
MYL12B	-0.172147406	-0.798447361	0.4276306	0.604812089
CUL5	0.0380275	0.799116048	0.4276587	0.604812089
APOBEC3C	0.110842312	0.799562365	0.4277603	0.604871437
NEIL1	-0.170683635	-0.798470148	0.4280032	0.605130618
NRM	0.084877143	0.797673937	0.4280865	0.605164188
LIG4	-0.05536515	-0.798651559	0.4282225	0.60527203
COL28A1	-0.235637218	-0.796978165	0.4284239	0.605405963
PTN	-0.244220301	-0.798370757	0.4284365	0.605405963
NSL1	0.082029549	0.796983237	0.4287226	0.60572595
COL2A1	0.244794549	0.798782464	0.4288913	0.605878426
PTGR2	-0.090527632	-0.797638792	0.4289499	0.605878426
BCKDK	-0.067106992	-0.795739027	0.4293720	0.606390157
ZNF385A	0.11009672	0.798136007	0.429680	0.606581287
POP7	0.087356203	0.795289105	0.429712	0.606581287
TAF2	0.033591596	0.794964613	0.4297286	0.606581287
SKA3	0.132647308	0.799262219	0.4297464	0.606581287
ZNF239	0.145357193	0.800034921	0.429831	0.606616552
PAEP	-0.364177583	-0.794037091	0.4301246	0.606946373
C1orf210	0.0988411	0.795475	0.4302947	0.607101955
SDHAF4	-0.11548797	-0.794686053	0.4305404	0.607364273
RLF	-0.048379489	-0.793461161	0.4308145	0.607666482
SETD1A	0.042304173	0.792779033	0.4309926	0.607833221

PDE4DIP	-0.046769549	-0.792311593	0.4311825	0.607971531
CACTIN	0.033405865	0.792146408	0.4312105	0.607971531
UQCRB	0.115291673	0.791322034	0.4316801	0.608549146
ZNF526	0.071036165	0.791169362	0.4318021	0.60859459
SMARCE1	0.045918917	0.791186651	0.4318325	0.60859459
MAP3K4	0.04238532	0.791863189	0.4324556	0.609387554
ANKRD42	-0.307942182	-0.807547921	0.4326466	0.609544035
NFASC	-0.139837747	-0.793092655	0.4327017	0.609544035
PI4K2A	0.063810977	0.789486668	0.4327462	0.609544035
YWHAG	0.056763346	0.790425684	0.4328632	0.609624276
PRR3	-0.118253383	-0.789590402	0.4330157	0.609754451
C4B	-0.274536129	-0.789792654	0.4331417	0.609847213
TAF1C	-0.08186825	-0.790742597	0.4335956	0.610379323
BHLHE40	-0.076021376	-0.788841016	0.4336399	0.610379323
WASHC4	-0.037075244	-0.787821294	0.4338196	0.610546721
SFR1	0.094391476	0.787894941	0.4341714	0.610958067
SOAT1	0.128974173	0.787615688	0.4343991	0.611129053
MRPS28	0.078184925	0.786648596	0.4344134	0.611129053
SDF2L1	0.067905451	0.786267125	0.4346171	0.61133092
EEF1A2	-0.195650564	-0.786341454	0.4347531	0.611437455
CYFIP1	0.040890553	0.78630858	0.4348252	0.611454199
PDK1	0.105832707	0.786164017	0.4349977	0.611611958
NOC3L	0.088287744	0.787294024	0.4352946	0.611893842
SERPINB5	0.284603571	0.785790508	0.4353804	0.611893842
CLTA	-0.049008289	-0.784934552	0.4353976	0.611893842
UPF3A	0.078342331	0.786426418	0.4354941	0.611893842
OBI1	-0.056440489	-0.785310261	0.4355859	0.611893842
FKBP14	0.086016259	0.784992057	0.4356196	0.611893842
GNG5	-0.078104906	-0.784556611	0.4356201	0.611893842
CRCP	0.056351541	0.78413611	0.4358884	0.612185984
RPS18	0.066028383	0.784390334	0.4362084	0.61251646
GTF2E2	0.047782073	0.784063925	0.4362444	0.61251646

NCCRP1	-0.203176128	-0.783944587	0.4363764	0.612617034
PLD2	0.055860489	0.78333811	0.4367475	0.612974411
LUC7L	-0.08260156	-0.784480681	0.4367518	0.612974411
PRPF19	0.036424774	0.782642005	0.4370202	0.613266372
TIMM10	0.056448998	0.782907255	0.4371656	0.613385657
SENP7	-0.051972199	-0.781569102	0.4375631	0.613849117
TAF3	0.071242669	0.783196784	0.4376169	0.613849117
SCO1	0.092232519	0.781360994	0.4377311	0.613924412
CA13	-0.134886692	-0.782472288	0.4378169	0.613959977
THOC3	0.06029812	0.780534054	0.4381032	0.614276587
POLR2C	-0.036086707	-0.780060516	0.4382728	0.614429487
DNMT3A	0.071818421	0.781019416	0.4384537	0.614483528
SGSM3	-0.08109006	-0.780352299	0.4384797	0.614483528
CMAS	-0.072690977	-0.780840273	0.4384936	0.614483528
HSPA2	0.19951688	0.781822773	0.4388691	0.614836984
EPN2	0.055433515	0.779746654	0.4388826	0.614836984
C2orf88	-0.127575376	-0.779030057	0.4389542	0.614836984
SOX21	-0.128538529	-0.783719971	0.4389875	0.614836984
ZNF649	0.10854609	0.77874624	0.4391520	0.614982485
ZNF33A	0.068914545	0.779844386	0.4392577	0.615045653
SMC1A	0.039358459	0.777198892	0.4399233	0.615892718
PPP2R1A	-0.034587538	-0.777228831	0.4400375	0.615967576
NGLY1	-0.059477293	-0.7774298	0.4402196	0.61613756
ARHGAP29	0.161280075	0.778018344	0.4408456	0.616870781
ROBO2	-0.145646053	-0.776706875	0.4408656	0.616870781
POLR3GL	-0.074859591	-0.778512408	0.4410262	0.61701118
NSF	0.050929295	0.776934089	0.4412328	0.617215172
DDHD2	0.041097914	0.774403245	0.4415715	0.617603932
DBI	0.09156812	0.774334227	0.4417043	0.617647073
TRIP4	-0.042986429	-0.774164892	0.4417241	0.617647073
VPS45	0.034361111	0.774543354	0.4419686	0.61790379
SRP72	0.03840343	0.773820488	0.4420485	0.617930465

CYREN	-0.102233551	-0.774245329	0.4421145	0.61793751
COLGALT1	0.057586466	0.773932551	0.4422539	0.617966229
DNMBP	0.056685846	0.774425964	0.4423022	0.617966229
RNFT1	0.154064241	0.774202576	0.4423177	0.617966229
ELP3	-0.049144286	-0.773034322	0.4424609	0.618021101
MGRN1	0.045935252	0.773708379	0.4424787	0.618021101
KIAA1107	-0.072814286	-0.772349559	0.4427874	0.61828571
MAP3K21	0.099418652	0.775053622	0.4427900	0.61828571
PARP16	0.12187266	0.774234716	0.4428675	0.61830864
TUBB4A	0.318115977	0.774935579	0.4433407	0.618884379
YPEL5	-0.06039047	-0.771431298	0.4435609	0.619106603
CTBP1	-0.052920188	-0.770835827	0.4438895	0.619404589
GABARAPL1	0.100856667	0.775056298	0.4438964	0.619404589
NCAPD2	0.080116917	0.771270676	0.4440142	0.619483757
MMS19	-0.050483789	-0.770191869	0.4445079	0.620087406
HNRNPA1	0.063870263	0.769554834	0.4447364	0.620320862
FBLIM1	-0.075821429	-0.769026308	0.4449777	0.620571277
ATG13	0.046675701	0.768382554	0.4456566	0.621433625
NUB1	0.037594023	0.767624323	0.4460697	0.621924136
INTS13	0.037402838	0.76647944	0.4462977	0.622156593
RPS11	0.077382594	0.767156934	0.4464744	0.622317382
PPP1CB	-0.035663195	-0.765884167	0.4465716	0.622350319
KAT6B	-0.09116131	-0.768121256	0.4466206	0.622350319
ZNF260	-0.165747159	-0.77031875	0.4467059	0.622352976
MLX	-0.074747143	-0.76560557	0.4467452	0.622352976
EEF1AKMT4	0.130399158	0.768350682	0.4469180	0.622383337
EIF6	-0.043136034	-0.765892626	0.4469239	0.622383337
DDAH1	-0.086604043	-0.765591032	0.4469509	0.622383337
POGLUT3	0.06678359	0.765320908	0.4472876	0.62276669
FAF1	-0.034853128	-0.764469266	0.4474430	0.62285366
GALNT12	0.107410508	0.765180406	0.4474727	0.62285366
ACAD9	0.071467395	0.765931654	0.4476725	0.622966401

YY2	-0.070600827	-0.764100388	0.4477008	0.622966401
RSBN1L	0.042523703	0.764263058	0.4477379	0.622966401
CENPN	0.190526184	0.766656521	0.4478436	0.62302813
DARS1	-0.032026744	-0.763602888	0.4481369	0.623302271
BLOC1S2	-0.040346906	-0.763429073	0.4482168	0.623302271
MYLK3	-0.186877444	-0.763084448	0.4482249	0.623302271
CADPS	-0.2085425	-0.768447707	0.4485815	0.623712755
IRF2BPL	-0.075934586	-0.763886023	0.4490600	0.624292892
NXT1	-0.074869361	-0.763046212	0.4491344	0.624310453
GNG4	-0.156055179	-0.76467724	0.4493089	0.624398078
UQCC2	0.072495075	0.761277468	0.4493209	0.624398078
DDX3X	-0.038377829	-0.761067154	0.4494248	0.62445746
ADCY7	-0.100880207	-0.760814927	0.4497977	0.62478694
BBS5	-0.095741228	-0.760655038	0.4498142	0.62478694
NDUFA1	-0.089520044	-0.76066141	0.4499019	0.62478694
RTN2	0.118174812	0.761020413	0.4499087	0.62478694
WVOX	0.065177218	0.760471324	0.4501800	0.625072511
MIS18BP1	0.133480168	0.760243273	0.4502493	0.625072511
FBRSL1	0.065290048	0.760564945	0.4503356	0.625072511
UPF2	0.035629289	0.762824692	0.4503607	0.625072511
DPF2	0.057043609	0.759525399	0.4507419	0.625516869
SUPT4H1	0.098227782	0.757872138	0.4513139	0.626225089
CYTH2	-0.059200526	-0.757710995	0.4514758	0.626364137
OSTM1	-0.076626466	-0.757188116	0.4518426	0.626787325
SARS1	-0.033435764	-0.756356945	0.4522287	0.627236354
SHMT2	0.092241447	0.757555112	0.4523324	0.627295271
NAP1L1	0.06696015	0.758490823	0.4524062	0.627311984
FHL3	-0.122522372	-0.755058255	0.4530969	0.62814744
HEATR6	0.056009098	0.755227278	0.4531329	0.62814744
PXDN	0.128002632	0.756570308	0.4534518	0.628504246
KMT2C	0.040487752	0.75420672	0.4536099	0.628626836
ATP5F1C	0.068483291	0.754093354	0.4536647	0.628626836

HIRA	-0.046461842	-0.754382193	0.4537910	0.628716792
LRCH4	-0.059797331	-0.754175517	0.4539575	0.628803491
EPS8L3	-0.153917708	-0.756592063	0.4539775	0.628803491
SH3KBP1	-0.077930564	-0.754138572	0.4541434	0.628947501
DOCK1	-0.065098312	-0.752564685	0.4545015	0.629357585
RWDD4	-0.050705286	-0.752471661	0.4547162	0.629568883
PPP1R9B	-0.037835297	-0.753285623	0.4548467	0.62966378
ANKRD17	0.040398872	0.752348587	0.4549139	0.629670907
METAP1D	0.078839662	0.752628311	0.4551458	0.629906012
KNSTRN	-0.111795164	-0.7518434	0.4554722	0.630229263
MST1R	-0.088111579	-0.75178258	0.4555036	0.630229263
ZNF391	-0.092152778	-0.754073754	0.4556255	0.630311713
NUFIP1	0.068049476	0.752131581	0.4558197	0.630493979
CALB1	-0.335318421	-0.7526033	0.4559617	0.630604388
EXD3	-0.09195532	-0.749184979	0.4564907	0.631172671
GPR180	0.088875714	0.749431987	0.4564964	0.631172671
NTMT1	-0.057356917	-0.749541912	0.4565847	0.631208869
LCMT2	-0.107676026	-0.75157296	0.4567275	0.631319987
FAM76A	-0.054055451	-0.749407924	0.4568044	0.631340584
LFNG	0.169994129	0.750660916	0.4570655	0.631595661
ZMAT2	-0.034127688	-0.748294526	0.4571225	0.631595661
PACS2	-0.034569774	-0.748238269	0.4571897	0.631595661
GTF2H5	-0.060460827	-0.749399405	0.4572379	0.631595661
SLC25A23	-0.090572909	-0.74999348	0.4573525	0.631610602
SOCS6	-0.080941214	-0.748487393	0.4573737	0.631610602
MPHOSPH8	0.030679023	0.747946376	0.4576887	0.631917866
CENPM	-0.125138139	-0.748165904	0.4577202	0.631917866
NBAS	0.0379425	0.746931381	0.4578552	0.631950709
NDST1	-0.066869793	-0.747070354	0.4578930	0.631950709
TUBGCP3	0.032403771	0.746794735	0.4579455	0.631950709
OXNAD1	0.102721241	0.747106626	0.4579930	0.631950709
TOM1L2	-0.062659756	-0.746941137	0.4580849	0.63199156

CHST3	-0.089529398	-0.746183546	0.4582915	0.632159172
DOHH	-0.052995425	-0.746389661	0.458356	0.632159172
FBXO22	-0.040058797	-0.746277196	0.4583932	0.632159172
RACK1	0.037354624	0.745737507	0.4586440	0.632370915
POLA2	0.072722519	0.746177358	0.4586715	0.632370915
NPDC1	0.129131203	0.746098833	0.4588762	0.632567441
YIPF6	0.065642895	0.743761043	0.4597664	0.633708464
SHE	-0.12511204	-0.75445497	0.4599419	0.633818955
PLP2	0.128804532	0.744372393	0.4599714	0.633818955
IMPAD1	0.085983835	0.742863094	0.4602922	0.634157629
RRP1	0.076385526	0.744035646	0.4603475	0.634157629
GAB2	-0.07551265	-0.743398188	0.4604046	0.634157629
PPM1A	0.039138722	0.743191969	0.4609686	0.634789052
FADS1	0.081652248	0.741966646	0.4609885	0.634789052
UBE3D	-0.099129412	-0.745565897	0.4614355	0.635318545
GCN1	0.044878252	0.74051476	0.4617617	0.635584807
SLFN5	0.063005818	0.740750108	0.4617825	0.635584807
BTD	0.078566466	0.74104642	0.4618165	0.635584807
POT1	-0.04901109	-0.740070102	0.4622246	0.635972768
PRG2	-0.171613722	-0.739627327	0.4622385	0.635972768
SIRT3	0.07375282	0.740328215	0.4622864	0.635972768
MCAT	-0.078859173	-0.73956351	0.4625297	0.636209106
FRS2	-0.070836692	-0.739598172	0.4625835	0.636209106
PROM1	0.21509203	0.740869733	0.4626946	0.636242828
SPATA5L1	0.040250038	0.739257435	0.4627334	0.636242828
BCL7A	0.059809831	0.73864656	0.4628415	0.636304667
DPYSL2	-0.130905827	-0.740082115	0.4630625	0.636522532
APRT	-0.057391504	-0.737984435	0.4632225	0.636656337
ENTPD6	0.079197505	0.738360848	0.4634874	0.636726221
SLC25A46	0.077247162	0.738455404	0.4635179	0.636726221
OVOL2	0.116425185	0.740873414	0.4635432	0.636726221
TMOD3	-0.034504041	-0.737725744	0.4635845	0.636726221

PRMT9	-0.044816598	-0.738836702	0.4635868	0.636726221
AP2M1	-0.040120974	-0.737495361	0.4637198	0.636808111
IBTK	0.04018282	0.738060282	0.4637719	0.636808111
TOP1MT	0.207050595	0.738611174	0.4642392	0.637363525
RNMT	0.059540508	0.7372434	0.4644258	0.637463735
ITM2C	-0.180497748	-0.738407287	0.4645079	0.637463735
CCNT1	-0.041839154	-0.735854648	0.4645898	0.637463735
CCDC43	-0.050020372	-0.736955709	0.4645919	0.637463735
CCDC12	0.056852936	0.736382687	0.4646262	0.637463735
CCNB1	0.091536842	0.734762609	0.4652257	0.6382
ARPC5L	-0.064692124	-0.734391012	0.4658073	0.638911431
DNAJB12	0.06608891	0.733617132	0.4660420	0.639146969
SIGIRR	0.084012218	0.733139034	0.4663197	0.639418674
PRPF4B	0.044441391	0.732845655	0.4663667	0.639418674
F2RL1	-0.145324444	-0.736331818	0.4667548	0.639865202
PACSIN3	-0.080832312	-0.732290218	0.4669338	0.640024058
KIF14	0.087856692	0.732929137	0.4670102	0.640033565
CCNY	0.06237344	0.731673076	0.4670668	0.640033565
ITPKB	-0.09067797	-0.730636874	0.4676859	0.640794843
ANTXR2	-0.080766805	-0.730728277	0.4677574	0.640806867
PSMD4	0.032946316	0.730334933	0.4678821	0.640891268
HLA.DRB4	0.345034962	0.731132364	0.4680014	0.64093835
TMEM120B	0.103913054	0.730963698	0.4681053	0.64093835
PDZD11	0.064396316	0.729962491	0.4681060	0.64093835
MEN1	0.039315977	0.729725894	0.4682586	0.641060904
INPP5B	-0.044482914	-0.729550426	0.4683357	0.641079957
ARID1B	0.029284812	0.728889309	0.4687309	0.641477952
SON	-0.026778139	-0.729585934	0.4687529	0.641477952
NDUFA4L2	0.174142053	0.730426873	0.4688614	0.641539947
TRIP11	-0.045149812	-0.728997519	0.4689349	0.641553574
PHF5A	0.043313929	0.72840793	0.4690777	0.641662143
FAM122B	0.056831109	0.728042321	0.4692957	0.641727383

NAT1	-0.138971068	-0.728542597	0.4693045	0.641727383
MBNL2	-0.059999925	-0.728025581	0.4693145	0.641727383
BAG5	0.055655455	0.729961845	0.4694529	0.641814742
MYADM	0.069585827	0.727616701	0.4695048	0.641814742
TRMT1L	-0.063118609	-0.727928888	0.4695882	0.641842333
PPP2R5B	0.071154135	0.727490658	0.4699522	0.642253348
L3MBTL3	0.050013872	0.727772359	0.4703447	0.64256861
MZT1	0.077015064	0.727839455	0.4703591	0.64256861
HOOK2	0.043588139	0.726431362	0.4703728	0.64256861
NIN	-0.066307069	-0.72698891	0.4705172	0.642579911
FGFR1	0.069850602	0.725957882	0.4705381	0.642579911
KIF7	-0.092934774	-0.726593199	0.4705710	0.642579911
FZD2	0.109291309	0.727973318	0.4707955	0.642776529
ZNF589	0.103318045	0.725366798	0.4709856	0.642776529
TMEM65	-0.111311645	-0.725793859	0.4710166	0.642776529
ERCC8	0.050192778	0.726654046	0.4710250	0.642776529
CFTR	0.221717273	0.729846401	0.4710311	0.642776529
RECQL	-0.05534609	-0.725234829	0.4711290	0.642822876
ASH1L	0.077179765	0.727389715	0.4712042	0.642839172
PSME3IP1	0.050017632	0.724630115	0.4713291	0.642859526
NUP58	0.026093759	0.724592325	0.4713458	0.642859526
DDX17	0.033819071	0.724536427	0.4714281	0.642886112
KRT8	0.112265977	0.724270812	0.4716400	0.643087948
ARIH2	-0.039128609	-0.723703519	0.4718848	0.643282995
SLIRP	0.079272932	0.724149922	0.4719699	0.643282995
PCDHA4	0.234788889	0.725191215	0.4719732	0.643282995
BDH1	-0.126006145	-0.724227723	0.4720822	0.643345175
DHCR24	0.108922192	0.723916215	0.4725150	0.643793561
SFRP2	0.203762495	0.723240147	0.4725381	0.643793561
VPS29	-0.038687917	-0.722183222	0.4728147	0.644083908
CHMP4B	-0.048902387	-0.72174094	0.4732084	0.644530456
RBBP6	0.033810846	0.721353907	0.4733219	0.644530456

SPDL1	0.108525893	0.721626984	0.4733330	0.644530456
PSMD11	0.03121406	0.722463442	0.4737370	0.644935401
SDAD1	0.059060075	0.721650035	0.4737750	0.644935401
DCTN4	-0.029693177	-0.720630687	0.4738210	0.644935401
IMP4	0.042367256	0.721577232	0.4740580	0.645172293
NOP53	-0.079999267	-0.721128763	0.4743370	0.645465554
CLDN10	-0.295210583	-0.71760894	0.4761270	0.647814851
SENP8	-0.063380436	-0.717021178	0.4764120	0.648085268
FAHD2A	-0.090027509	-0.716707092	0.4764570	0.648085268
UBOX5	0.061074743	0.716586817	0.4765180	0.648085268
ZNF446	0.090685338	0.716905096	0.4766980	0.648243363
GCC2	-0.051352914	-0.716592118	0.4767770	0.648263475
TRAP1	0.062478831	0.716113772	0.4768650	0.64829678
EIF3M	-0.029675282	-0.716511821	0.4769390	0.648311317
CLK3	-0.078962895	-0.71539039	0.4770670	0.64839725
MTFR1	0.079910602	0.71561775	0.4772430	0.64854997
C1orf122	-0.059345113	-0.714180154	0.4780720	0.649590483
RMND5A	-0.030980526	-0.713534842	0.4783160	0.649666592
HERC3	-0.114298194	-0.716127095	0.4783380	0.649666592
TMBIM1	-0.096742286	-0.713865527	0.4783450	0.649666592
AP3M2	-0.057817368	-0.714944716	0.4783850	0.649666592
YWHAE	0.041635602	0.713646572	0.4784790	0.649708567
FARS2	0.050682462	0.713522013	0.4785850	0.649765188
WDR5	0.062880075	0.712930244	0.4787800	0.649931296
KCTD20	0.081040204	0.714552555	0.4788360	0.649931296
STK38L	0.043640188	0.712073158	0.4790180	0.650092513
DCP2	-0.05783515	-0.712655719	0.4791700	0.650178699
RINL	-0.12161697	-0.718154247	0.4792650	0.650178699
RELA	-0.036821184	-0.712617024	0.4792740	0.650178699
TFB1M	0.070155602	0.712614124	0.4793640	0.650213672
REPS1	0.028086278	0.711390621	0.4794570	0.650246214
TP53BP2	0.040258891	0.711555005	0.4795160	0.650246214

KLK12	-0.346147738	-0.714573071	0.479891	0.650667254
RPL29	-0.159436256	-0.711904393	0.479997	0.650724866
COL9A2	-0.10290129	-0.712936025	0.480244	0.650972384
EIF4E	0.03472718	0.709428566	0.480951	0.651778313
NIF3L1	0.04690641	0.710348546	0.480967	0.651778313
SLC9A6	0.07442015	0.709673865	0.481220	0.652034482
MAP2K7	-0.037301288	-0.708144698	0.481427	0.652226926
SAP30	-0.073678722	-0.708029431	0.481627	0.652410998
NOL3	0.097509643	0.708232273	0.481785	0.652524943
DFFA	-0.032179568	-0.707657155	0.481839	0.652524943
C11orf54	-0.062554699	-0.708361244	0.481950	0.652536516
MMADHC	0.07790295	0.70880475	0.481976	0.652536516
PGRMC1	0.079230064	0.706731176	0.482300	0.652887195
ISOC2	-0.064911429	-0.706368303	0.482586	0.653186989
TRPM4	0.09462094	0.706845953	0.482666	0.653208182
PYCR2	0.099425113	0.705246847	0.483274	0.653944812
CNOT2	0.024984549	0.705944084	0.483396	0.654021999
DENND1A	-0.040174267	-0.70475482	0.483659	0.654176059
GALNS	-0.065182481	-0.705338822	0.483677	0.654176059
WTAP	0.030985677	0.704465663	0.483703	0.654176059
SLC66A2	-0.080076	-0.705046819	0.483920	0.65437237
BARD1	0.08878	0.705700129	0.483977	0.65437237
OTUD5	-0.080321692	-0.704754967	0.484149	0.654459361
NCAPG	0.081065226	0.704066854	0.484170	0.654459361
RBM3	-0.08374656	-0.703684817	0.484341	0.65460007
PTPRJ	-0.087580966	-0.703816524	0.484454	0.65460007
PTMS	0.09246312	0.703695786	0.484468	0.65460007
MCU	-0.088653195	-0.702984088	0.484661	0.654700174
MALSU1	0.07227282	0.703101349	0.484671	0.654700174
EID2	-0.056842188	-0.704773844	0.485053	0.655084156
NUDT1	0.072847323	0.702651285	0.485084	0.655084156
ELAC1	0.065324624	0.70451954	0.485291	0.655275447

DPH2	0.04575438	0.701512226	0.4855666	0.655559936
OSGEP	0.046954173	0.701987877	0.4856310	0.655559936
TNIK	-0.110401036	-0.701926601	0.4857842	0.655679559
LTN1	0.032826395	0.701192487	0.4858504	0.655681635
GSTZ1	0.09648891	0.701771667	0.4862588	0.656116164
HSP90AB1	-0.046968195	-0.700585866	0.4863016	0.656116164
CARS2	0.096434877	0.700820031	0.4864420	0.656138817
IRS1	0.096647274	0.700484444	0.4864825	0.656138817
PHKB	-0.04469885	-0.700481761	0.4865125	0.656138817
PLEKHG2	-0.069864737	-0.701112027	0.4867012	0.656180545
TUBGCP2	0.027081278	0.699565484	0.4867971	0.656180545
PDGFRL	0.146688353	0.700039013	0.4868376	0.656180545
LTO1	0.139771239	0.703809625	0.4868601	0.656180545
ZNF358	0.062798665	0.700348467	0.4868665	0.656180545
RTL8C	0.092848954	0.699001458	0.4872999	0.656649564
ITGB4	0.099541165	0.698761207	0.4873439	0.656649564
FAM222B	-0.229613136	-0.700736051	0.4875322	0.656816142
GDPD1	0.066204962	0.697988473	0.4878825	0.657200561
CTCF	0.068337237	0.697968213	0.4881735	0.657437402
MRC2	-0.105357068	-0.697558844	0.4881871	0.657437402
RNF121	0.076001887	0.70242241	0.4882689	0.657459575
OTUD7B	-0.059449436	-0.697387217	0.4884618	0.657574762
MGMT	-0.069483421	-0.697166932	0.4885214	0.657574762
ABHD17B	0.06658	0.696765035	0.4885488	0.657574762
PLEKHA8	0.052352609	0.697279826	0.4886751	0.657657493
SUCLA2	-0.06837485	-0.696199803	0.4889503	0.657940655
MAB21L4	0.151336008	0.695772733	0.4893811	0.658432951
TBCK	-0.034636632	-0.695286116	0.4894542	0.658444116
KCTD5	-0.0422924	-0.695733035	0.4895531	0.658489828
PAGR1	0.058337763	0.694775069	0.4897288	0.658638965
ABAT	0.129685714	0.69732623	0.4898172	0.658670467
BOD1L1	0.028761741	0.694455986	0.4899139	0.658699183

ZBED8	-0.076911059	-0.69662531	0.490005	0.658699183
MAN1C1	-0.102463929	-0.694680998	0.490033	0.658699183
SNRNP48	0.037284868	0.693619787	0.490436	0.659153579
NNMT	-0.190277068	-0.693875261	0.490564	0.659239325
ADAT1	0.06651953	0.692952618	0.490846	0.659482703
PMM2	-0.064161955	-0.693445224	0.490876	0.659482703
ERCC6	0.044767857	0.693283762	0.491114	0.659687864
BCAR1	-0.055205583	-0.692667393	0.491179	0.659687864
ISCA2	0.05164906	0.692355092	0.491223	0.659687864
GET4	-0.045060526	-0.692996888	0.491649	0.660171809
OGT	0.030468835	0.691089458	0.492022	0.660585746
ANKS1A	-0.035006184	-0.691681734	0.492201	0.660738353
CCAR2	0.041513816	0.69075032	0.492285	0.660763569
MDM4	0.159559981	0.691742806	0.492489	0.660935815
ZBTB44	-0.069323383	-0.69228155	0.492543	0.660935815
RANBP9	0.036263444	0.689824721	0.493389	0.661983817
NXT2	0.075246184	0.68979906	0.493557	0.662120891
SLPI	-0.268635827	-0.688713682	0.493838	0.662410716
DTD2	-0.094488872	-0.690879569	0.493911	0.662420651
CYP4F11	0.131959041	0.688270304	0.494053	0.66252448
ECH1	-0.070196259	-0.68782503	0.494225	0.662655782
TANK	-0.03882968	-0.687917	0.494282	0.662655782
NHLRC2	-0.040981504	-0.687220385	0.494453	0.662667684
TNFRSF10C	-0.161695075	-0.687140605	0.494476	0.662667684
FAM114A2	-0.043903361	-0.687997868	0.494487	0.662667684
LASP1	0.077016335	0.68761679	0.494591	0.662692997
ZNF84	0.07859488	0.688970219	0.494636	0.662692997
PSMF1	0.04025109	0.686471725	0.494901	0.662960722
SMG1	0.032578327	0.688038503	0.495162	0.663190551
AHCYL2	-0.057387444	-0.687491232	0.495204	0.663190551
SGF29	-0.030323523	-0.685284958	0.495647	0.663696761
ELF2	-0.040874173	-0.685166409	0.495731	0.663721697

C1GALT1	-0.083764605	-0.685245769	0.495843	0.663783702
LTBP1	0.114006391	0.684772502	0.496066	0.663994983
ERI1	0.062873346	0.684335393	0.496390	0.66434082
FAM185A	0.056481711	0.683206527	0.497034	0.665115288
ITGA6	0.08833703	0.682779011	0.497253	0.665320932
HNRNPUL1	0.032642162	0.682380936	0.497460	0.665510317
LZTS2	0.044974323	0.683614618	0.497611	0.665623954
CD84	-0.118484553	-0.682758564	0.497731	0.66569753
WRN	0.044181015	0.682341147	0.497951	0.665902958
RABL2A	-0.127007	-0.688185673	0.498470	0.666510197
PAQR7	-0.173910154	-0.685815238	0.498570	0.666513651
HIF1A	-0.133346883	-0.684881784	0.498604	0.666513651
ASAP2	-0.062241692	-0.68082668	0.498714	0.666572042
PPIF	-0.091995677	-0.680083133	0.499055	0.666940943
IMPACT	0.0423535	0.680631695	0.499242	0.667103021
XPC	0.06262688	0.679704739	0.499605	0.667412358
BTF3	0.037356387	0.679178601	0.499615	0.667412358
RPL15	0.082117504	0.679444825	0.499671	0.667412358
LMF1	-0.111161267	-0.6805415	0.499752	0.667431961
UBR3	0.035900207	0.68092419	0.500118	0.667833309
ZNF644	0.036266184	0.678770957	0.500380	0.668096105
TTK	-0.079761654	-0.678037329	0.500521	0.668111909
OXSM	0.059291504	0.677634622	0.500524	0.668111909
RPS27L	0.077592425	0.677243311	0.500753	0.668330343
GCNT2	-0.095303086	-0.677977361	0.500833	0.668348799
CCDC14	-0.117983778	-0.67709576	0.501180	0.668643367
TSTA3	0.058681767	0.676573553	0.501238	0.668643367
MTHFSD	0.049692801	0.676305238	0.501387	0.668643367
ERBB4	-0.09749515	-0.676190384	0.501422	0.668643367
HGD	-0.138661541	-0.676468656	0.501494	0.668643367
UTRN	0.052782556	0.676715186	0.501560	0.668643367
SUV39H2	0.101330827	0.676167726	0.501565	0.668643367

TPI1	-0.04215618	-0.676534657	0.5015816	0.668643367
SUOX	-0.051302914	-0.675870209	0.5016472	0.668643367
ITGB8	-0.101314774	-0.676381251	0.5017722	0.668722245
NT5C	-0.074438609	-0.675924816	0.5021622	0.669154165
PPID	-0.063232876	-0.674488873	0.5024319	0.669389765
ECM1	0.130025	0.675528724	0.5025044	0.669389765
ACTA2	-0.29477782	-0.675231627	0.5025776	0.669389765
ISCA1	0.055945113	0.674173529	0.5026335	0.669389765
MTHFD2	0.100260883	0.67480365	0.5026688	0.669389765
RPL22L1	-0.158401128	-0.673937984	0.5027804	0.669450519
TCAF2	-0.079185827	-0.674266634	0.5029088	0.66947371
HPGD	0.249440977	0.675435381	0.5029297	0.66947371
EMC2	0.032424564	0.674131735	0.5030445	0.669538707
CSRP2	0.085489286	0.67374424	0.5032217	0.669670721
EPN3	0.070320117	0.673506186	0.5033367	0.669670721
CENPC	0.04272641	0.673070512	0.5033416	0.669670721
P4HA2	-0.076379361	-0.6730287	0.5034807	0.669712251
RASSF8	-0.07973659	-0.673439887	0.5035048	0.669712251
CYBRD1	-0.11775609	-0.671619932	0.5042526	0.670524827
MB21D2	-0.083650188	-0.672559879	0.5042835	0.670524827
MCCC2	0.101827331	0.671874593	0.5043368	0.670524827
BRAP	0.031271936	0.671573066	0.5043806	0.670524827
ARHGAP12	0.037987575	0.671243051	0.5045156	0.670616466
SIAE	0.085879474	0.672004613	0.5047529	0.670844861
FMR1	-0.033936109	-0.671443023	0.5051125	0.671234605
STEAP4	-0.163367127	-0.672100885	0.5054006	0.67152903
SH3BGRL2	-0.071305338	-0.668470412	0.5062888	0.672547577
TRIM38	-0.040663464	-0.668321306	0.5063527	0.672547577
FAM120A	-0.038019023	-0.668660507	0.5063655	0.672547577
DHX15	-0.047847842	-0.667916818	0.5066576	0.67284697
NDUFA6	-0.059549568	-0.667689489	0.5068435	0.673006571
PSMD7	0.026389284	0.668348231	0.5069378	0.673043743

FLCN	-0.03752097	-0.667304998	0.5072966	0.673432047
FAM102B	-0.054557293	-0.666434237	0.5078214	0.673988124
MED10	-0.034390882	-0.66594359	0.5078483	0.673988124
GAPDH	-0.04667688	-0.666336225	0.5079980	0.674098622
LARS2	0.061365	0.665708038	0.5083632	0.674494997
GLUL	-0.134329286	-0.666833428	0.5085746	0.674687328
COL5A2	-0.092578553	-0.665284418	0.5087146	0.674775252
SPECC1L	0.028765263	0.665573182	0.5087738	0.674775252
LTV1	0.055940414	0.664649887	0.5088838	0.674832967
RICTOR	-0.039183045	-0.664098406	0.5090358	0.674946232
TFAP2C	0.153805882	0.66820383	0.5094548	0.675413681
RWDD2B	-0.043432481	-0.663311684	0.5095641	0.675470342
SPDEF	0.081064327	0.664161417	0.5098224	0.675636624
WDR60	-0.086038271	-0.663982346	0.5098227	0.675636624
EED	0.036189436	0.662379224	0.5102187	0.676073162
RPL6	-0.132151278	-0.662506047	0.5107153	0.676642891
TRAF6	-0.049787455	-0.661737345	0.5109666	0.676887442
ORC6	-0.107649211	-0.663280529	0.5112708	0.677202085
AGPAT2	0.099262199	0.660758248	0.5113772	0.677254575
PABPC1	0.041951635	0.660110199	0.5115523	0.677344195
PRR12	0.030796992	0.660007996	0.5116206	0.677344195
ZNF513	0.079414375	0.662997286	0.5116745	0.677344195
ING4	0.038949023	0.660503621	0.5117118	0.677344195
RUFY2	-0.059293102	-0.660283743	0.5117833	0.677350558
RIOK2	-0.057375583	-0.659950999	0.5121975	0.677810274
BPIFB2	0.248364448	0.66024741	0.5123956	0.677984101
LPAR2	0.185551471	0.664297617	0.5126533	0.678236628
PGS1	-0.049107941	-0.659137937	0.5128907	0.678462272
PRR14L	0.043650113	0.657068836	0.5135234	0.679210757
IGFBP5	-0.152319853	-0.656632701	0.5137715	0.679392452
RPS8	-0.100964417	-0.656887561	0.5138925	0.679392452
TRIQQ	0.2179285	0.661663623	0.5138954	0.679392452

CENPS.CORT	0.1351015	0.659310754	0.5140406	0.679392452
OSBP2	0.046385158	0.656385159	0.5140540	0.679392452
ZNF580	-0.074612835	-0.65741021	0.5141207	0.679392452
CDC23	-0.023996109	-0.656364707	0.5141676	0.679392452
PFDN6	0.032483571	0.655972844	0.5141963	0.679392452
FNTB	0.098528008	0.655994716	0.5143085	0.679452236
ZC3H10	-0.050621992	-0.656714439	0.5146907	0.679813909
SHPK	0.047951429	0.655609189	0.5147162	0.679813909
MORF4L1	0.037412756	0.654535949	0.5153233	0.680527199
CASTOR2	0.068525	0.654321532	0.5155046	0.68067808
ATP8	0.045679417	0.653804471	0.5157556	0.68091617
DPP4	0.170842857	0.654824629	0.5158522	0.68091617
DCAF6	-0.038015113	-0.654397575	0.5158862	0.68091617
KANSL1	0.032756034	0.65330379	0.5160549	0.681050293
ZNF414	-0.039777613	-0.652739072	0.5167416	0.681867878
DDX24	0.036966466	0.652454291	0.5171657	0.682338059
HINT1	-0.062751635	-0.651800413	0.5175867	0.682694118
TPRKB	0.053367669	0.651777526	0.5176537	0.682694118
ADNP2	-0.106592457	-0.651751719	0.5176962	0.682694118
CERS4	0.183461259	0.651812521	0.5177506	0.682694118
FBXO11	0.057847274	0.650683038	0.5178028	0.682694118
SLC22A5	0.123641692	0.650346746	0.5178386	0.682694118
TTI2	0.043435752	0.649899454	0.5181232	0.682778489
RAB23	0.075610113	0.649746337	0.5181916	0.682778489
PSMA8	0.108331964	0.6567235	0.5182136	0.682778489
TKTL2	-0.081044211	-0.650465713	0.5182369	0.682778489
EIF4G1	-0.024712778	-0.649661196	0.5182624	0.682778489
PIGQ	0.087020432	0.649962296	0.5183135	0.682778489
PARP9	-0.066650188	-0.650570569	0.5183735	0.682778489
FCN2	-0.128449063	-0.650375989	0.5184426	0.682780139
PREX2	-0.100389699	-0.64981576	0.5186657	0.682985351
EIF2S3	-0.030673624	-0.648327853	0.5190923	0.683374921

CDK19	0.043618402	0.648865734	0.5190956	0.683374921
ENGASE	0.050373816	0.647985971	0.5194216	0.683685554
KLHL42	0.078983	0.649777419	0.5194828	0.683685554
TNFRSF10B	0.088757925	0.648178124	0.5195715	0.683685554
RNASE1	-0.19306282	-0.648342459	0.5196010	0.683685554
BAZ1B	0.065592237	0.64747893	0.5197749	0.683825803
TNC	-0.148881955	-0.647210835	0.520063	0.684042654
KRT10	-0.161602444	-0.648309259	0.5200745	0.684042654
TMEM199	0.076887218	0.646655154	0.5201702	0.68406724
RPS6KA1	0.051498064	0.646529207	0.5203329	0.68406724
CDK18	0.083225376	0.647091177	0.5203340	0.68406724
ZNF714	-0.263940417	-0.65044592	0.5203809	0.68406724
NPM1	0.057600752	0.646283558	0.5204302	0.68406724
ZNF562	0.098360724	0.648628301	0.520547	0.684132275
MSI1	0.11257782	0.647364014	0.5207057	0.684252171
RNASEH2C	-0.06887303	-0.645551412	0.5208998	0.684418628
GPATCH11	0.057349312	0.645677887	0.5210087	0.684473109
ENPP1	-0.106251316	-0.645492587	0.5211209	0.684531355
IGF1	-0.134607289	-0.646759502	0.5213217	0.684531842
ADRM1	0.033138816	0.645106447	0.5213467	0.684531842
FXD3	0.14438536	0.647525112	0.5213826	0.684531842
PHIP	-0.04857188	-0.644867529	0.5213907	0.684531842
CYGB	-0.080083835	-0.646184963	0.5216933	0.684840596
GNAI1	0.098360184	0.644799795	0.5221206	0.685312878
MGAT4A	-0.121540966	-0.646545734	0.5222697	0.685420011
PABPC4	0.03803238	0.643688355	0.5223838	0.685481038
HEATR3	-0.055782707	-0.643222544	0.5225936	0.685487229
BCAR3	-0.069918816	-0.642986263	0.5226125	0.685487229
ICK	0.125160364	0.653329344	0.5226470	0.685487229
GON4L	-0.085428722	-0.642974209	0.5226586	0.685487229
C9orf64	-0.040142105	-0.642406157	0.5229332	0.685758695
DCAF10	-0.03636453	-0.642635348	0.5233198	0.686047561

ECI2	-0.143411372	-0.641846078	0.5233388	0.686047561
ZNF691	0.055468789	0.641819531	0.5233894	0.686047561
CUEDC1	-0.056546992	-0.641779288	0.5234809	0.686047561
EIF3E	0.024850226	0.641912231	0.5234914	0.686047561
TTC27	0.035647341	0.643012422	0.5236007	0.686083538
LAMA1	0.189140977	0.64153604	0.5237316	0.686083538
CDS1	0.109468571	0.641347726	0.5237419	0.686083538
DCAF7	0.027403609	0.641464792	0.5237892	0.686083538
PRR15L	-0.108747105	-0.640811339	0.5239538	0.686198079
GPHN	0.044228959	0.641374365	0.5240717	0.686198079
ZNF331	0.045175421	0.641594723	0.5240795	0.686198079
PTBP2	0.05472265	0.640968944	0.5242504	0.686298904
IGSF3	0.064563722	0.640846011	0.5243297	0.686298904
PPP4C	0.031940357	0.640222248	0.5243594	0.686298904
C7orf25	-0.057359192	-0.640659664	0.5244516	0.686330363
NME6	-0.053649793	-0.640785404	0.5245625	0.686387703
GOT2	-0.097697556	-0.638978862	0.5255229	0.687555047
NT5DC3	-0.076531278	-0.638508007	0.5257964	0.687555047
NR2F6	-0.056979323	-0.638945594	0.5259335	0.687555047
YARS2	0.05744156	0.637766557	0.5259846	0.687555047
RPAP1	0.025977962	0.637563878	0.5260321	0.687555047
POLR2B	0.022468421	0.63748994	0.5260942	0.687555047
CGGBP1	-0.047263008	-0.638355286	0.5261268	0.687555047
COA3	0.070685526	0.638666752	0.5261379	0.687555047
CRYBG2	-0.12864138	-0.638297375	0.5261916	0.687555047
SULT1C2	-0.159688534	-0.637664702	0.5261975	0.687555047
SF3B5	0.042319586	0.637387572	0.5261997	0.687555047
ZC3H6	0.046103036	0.637931846	0.5263674	0.687685601
GYPC	-0.094903872	-0.63656735	0.5266935	0.688023042
NSFL1C	-0.042092801	-0.636206026	0.5269156	0.688223918
MARVELD3	-0.122025328	-0.63668323	0.5270131	0.688263407
C2orf42	0.118621382	0.640358206	0.5271069	0.68829736

MAPK15	-0.046812068	-0.635701973	0.5276075	0.688862439
SEC23A	-0.042700977	-0.635409408	0.5279166	0.689177386
NFU1	-0.064233028	-0.634405539	0.5280774	0.689235381
COQ8B	0.063123271	0.634759762	0.5280969	0.689235381
MBNL1	-0.046095382	-0.634067496	0.5283270	0.689429057
LEO1	0.042294492	0.634040205	0.5283811	0.689429057
CLYBL	-0.083803722	-0.633333459	0.5288584	0.689787939
LRBA	0.048231467	0.63341411	0.5289114	0.689787939
ZCCHC3	0.055602632	0.633793281	0.5289622	0.689787939
FIBP	-0.033880071	-0.63334275	0.5289763	0.689787939
BUB1B	0.065132895	0.633436585	0.5289959	0.689787939
HEPH	0.086211617	0.633581026	0.5293028	0.690069587
MFHAS1	-0.050986466	-0.632563085	0.5293598	0.690069587
BANK1	-0.12024825	-0.639451662	0.5294159	0.690069587
ITPRID2	0.069955714	0.633484072	0.5295363	0.690137845
MSANTD2	0.097854525	0.6327486	0.5296889	0.690248211
ASB7	0.137124494	0.633874994	0.5301780	0.690796808
DCUN1D5	0.052526241	0.63239903	0.5303356	0.690809742
UTP11	0.087733684	0.632095098	0.5303576	0.690809742
DUS3L	0.034283722	0.630841976	0.5303921	0.690809742
CLSTN1	0.075182782	0.631414714	0.5305598	0.690816307
VPS13D	-0.034465808	-0.630475275	0.5306339	0.690816307
CNN3	-0.09453782	-0.630620619	0.5306428	0.690816307
NMT1	-0.029356056	-0.6305105	0.5306694	0.690816307
SRFBP1	0.048793214	0.63083818	0.5308154	0.690875736
LIN7C	-0.039789023	-0.630194773	0.5308512	0.690875736
CCN1	-0.076033571	-0.630123697	0.5310322	0.691022777
NENF	0.103393816	0.631061481	0.5311948	0.691092817
C12orf10	-0.040336767	-0.629576971	0.5312222	0.691092817
TERF2IP	0.037953541	0.628732772	0.5317987	0.691754103
FKRP	-0.055453019	-0.630914507	0.5319429	0.691853033
C16orf89	0.323993	0.630443639	0.5321321	0.69201046

MEA1	-0.067318759	-0.627713411	0.5327199	0.692611505
CCZ1	-0.035888124	-0.628308871	0.5327308	0.692611505
RCBTB1	-0.061383506	-0.627954854	0.5328409	0.692665421
SNED1	-0.09478205	-0.628684868	0.5330191	0.692808842
SRSF12	0.109038722	0.626590551	0.5332791	0.693039505
GBP1	-0.086245395	-0.627318577	0.5333331	0.693039505
UQCRFS1	0.078233289	0.626129553	0.5337794	0.693530615
DPYSL3	-0.141798703	-0.625399968	0.5339539	0.69365352
IPO8	-0.04336953	-0.625873035	0.5340101	0.69365352
POLRMT	0.062068102	0.625204393	0.5341668	0.693767622
RINT1	0.038287801	0.625162088	0.5342971	0.693847985
BAIAP2L2	-0.129616471	-0.626925226	0.5345261	0.694057438
ZHX2	-0.03933306	-0.624397982	0.5349258	0.694431654
SPON2	-0.082626466	-0.623687276	0.5351172	0.694431654
KTI12	-0.029923797	-0.62418166	0.5351193	0.694431654
DAP	0.048877932	0.624406067	0.5351711	0.694431654
IWS1	0.037407707	0.6238007	0.5352071	0.694431654
ISG15	0.103128083	0.623757951	0.5352329	0.694431654
FLOT1	-0.050812876	-0.623414902	0.5352939	0.694431654
VPS54	-0.047141023	-0.623523318	0.5354554	0.694552457
POLR2A	0.02257015	0.622693924	0.5357354	0.694826851
PRSS2	-0.170927273	-0.623044182	0.5358315	0.694862692
RNF10	0.092201525	0.62281287	0.5362581	0.695238427
NHLRC3	0.06052	0.62296205	0.5362582	0.695238427
YBX3	0.073196805	0.621559164	0.5367728	0.69581484
SAYSD1	0.076062286	0.622024733	0.5368400	0.69581484
SLC39A8	-0.149915556	-0.622737637	0.5371744	0.696159428
OVGP1	-0.30346868	-0.620624498	0.5372986	0.696231497
ZNF407	-0.035848459	-0.62039041	0.5374799	0.696377061
GARS1	-0.047178639	-0.619894632	0.5375937	0.69643479
ACP2	-0.050381391	-0.619956349	0.5376615	0.69643479
CYB5R2	-0.115609699	-0.620442734	0.5380974	0.696910648

LDAH	-0.127490677	-0.620388719	0.5383838	0.697123115
NDUFAF7	-0.050354342	-0.6192633	0.5383988	0.697123115
CIZ1	-0.045387387	-0.618916271	0.5388087	0.697511327
NHSL2	0.102970959	0.618040362	0.5388360	0.697511327
PCYOX1L	0.088751692	0.618232145	0.5389229	0.697534771
PCCB	0.086787782	0.618130121	0.5390229	0.697574813
CYHR1	-0.036713846	-0.618157416	0.5391350	0.697632146
TGDS	0.053100924	0.621042135	0.5393945	0.697878252
FOLH1	0.139851504	0.616894882	0.5395433	0.69798178
PTS	0.109856579	0.617450756	0.5396419	0.698020366
NASP	0.062767256	0.61672199	0.5397125	0.698022779
TCAF1	0.035363968	0.617004293	0.5398868	0.698159132
INO80B	-0.037826617	-0.616160163	0.5400683	0.69830497
C11orf98	0.063868327	0.616540322	0.5401953	0.698380193
CDC14A	-0.116446507	-0.617451287	0.5404053	0.698537444
NUAK2	0.073021214	0.61785295	0.5405108	0.698537444
GRWD1	0.044394564	0.615256217	0.5405684	0.698537444
SRPK1	0.048403421	0.61611993	0.5405922	0.698537444
IPO13	-0.049368218	-0.616328728	0.5407459	0.698647085
CDYL	0.027736192	0.613657173	0.5416180	0.699612781
ELMSAN1	-0.033131335	-0.613837121	0.5416327	0.699612781
SMCO4	-0.247665946	-0.614822085	0.5417007	0.699612781
TAF15	0.045147882	0.614085218	0.5422063	0.700168118
INTS6L	-0.081719848	-0.61430097	0.5422687	0.700168118
SERF2	0.078021241	0.612525525	0.5424408	0.700302071
MARF1	-0.021555432	-0.612634675	0.5426269	0.700453152
WDR59	-0.03684037	-0.61239816	0.5428788	0.700653003
PPIP5K2	0.022952763	0.611792276	0.5429197	0.700653003
ITGAV	0.067270677	0.611343759	0.5431607	0.700874141
KRI1	-0.050157556	-0.610929317	0.5434764	0.701058271
TRAF7	-0.05255485	-0.610815399	0.5434942	0.701058271
TTL	-0.054109658	-0.611077452	0.5435107	0.701058271

NFYC	-0.03323156	-0.610470093	0.5438819	0.701391017
CTH	-0.099296053	-0.610191683	0.5439652	0.701391017
POLR2M	-0.072456044	-0.615587222	0.5439813	0.701391017
GID8	0.02863062	0.610480482	0.5440889	0.701391017
PPP2CB	-0.050393835	-0.609933778	0.5441139	0.701391017
AKR1D1	-0.263584314	-0.610459545	0.5446636	0.702010895
C16orf87	-0.06180366	-0.60937209	0.5447509	0.702034334
USP46	-0.045952444	-0.610963933	0.5448701	0.702098831
CLK2	0.049096203	0.608104262	0.5452709	0.702525501
GEMIN2	0.06757703	0.608061352	0.5455176	0.702754721
STAM2	-0.038613722	-0.608343557	0.5457901	0.70301723
PDGFD	-0.140035534	-0.608173716	0.5461319	0.703351643
RUNX1	0.072447714	0.607175134	0.5461889	0.703351643
DNAJC24	-0.087042139	-0.610729127	0.5465114	0.70367765
SH3RF1	0.040809774	0.606353492	0.5468658	0.703977539
DLGAP4	-0.038623477	-0.606478909	0.5468836	0.703977539
HOMEZ	0.046521948	0.606395669	0.5470049	0.704044599
MVB12B	0.096426128	0.606369072	0.5471196	0.704102777
EIF3G	-0.027417538	-0.60505682	0.5475546	0.704572219
ETHE1	-0.074465526	-0.604704963	0.5476351	0.704572219
TEAD3	-0.076335902	-0.604739729	0.5476926	0.704572219
ZNF146	0.066928477	0.604350209	0.5477979	0.704619085
MRPS10	0.049472801	0.603702515	0.5482036	0.705051565
DNAJC10	0.119512406	0.603453062	0.5484119	0.705229622
SEC14L4	0.144094408	0.604316805	0.5485871	0.70536683
EXOSC9	0.068897436	0.603053671	0.5486862	0.705404092
RPUSD3	-0.101920714	-0.602879684	0.5496291	0.706459588
ZFAND2B	0.043330827	0.602053103	0.5496464	0.706459588
ARHGEF11	0.046667312	0.601616763	0.5500943	0.706945791
RBM5	-0.030712688	-0.600609455	0.5502251	0.707024339
NDRG4	-0.122591285	-0.600685473	0.5504079	0.707169199
SMIM26	-0.131376389	-0.604296631	0.5505742	0.707293903

TMEM143	0.128687581	0.600212449	0.5508746	0.707590181
HP1BP3	-0.09238735	-0.599686229	0.5509806	0.707635978
ALDH4A1	-0.080510414	-0.599808621	0.5513012	0.707958928
ATF6B	-0.06048587	-0.599067043	0.5517075	0.708327747
RPL26L1	0.083201692	0.598911065	0.5517758	0.708327747
C12orf65	-0.058271228	-0.599255527	0.5519062	0.708327747
SLC2A10	0.150714375	0.601362775	0.5519364	0.708327747
TRPT1	0.047174812	0.598162607	0.5520043	0.708327747
EYA2	-0.072425338	-0.598493945	0.5520071	0.708327747
CHN2	0.101292563	0.598422794	0.5525557	0.70889717
EIF4EBP2	0.052582162	0.597040854	0.5525905	0.70889717
SIDT2	0.075985714	0.597034315	0.5528827	0.709182327
IK	0.035415282	0.596285478	0.5531535	0.709440072
DRAP1	-0.034002519	-0.596115651	0.5532817	0.709506703
AIMP2	0.029991797	0.595939781	0.5534862	0.709506703
MCRIP2	-0.102387639	-0.597861584	0.5534992	0.709506703
MXRA7	0.110706391	0.595847553	0.5535382	0.709506703
UBL4A	-0.030122669	-0.595596969	0.5535556	0.709506703
PDSS2	-0.056397387	-0.595774357	0.5537007	0.709603816
MLF 2.00	0.05136297	0.596069663	0.5539986	0.709842224
DPH5	-0.054657143	-0.596825244	0.5540266	0.709842224
TMCO3	-0.089010207	-0.593420103	0.5551197	0.711152997
EXOC7	0.024830789	0.593006904	0.5552863	0.711276641
COP 1	0.048056526	0.593231587	0.5554356	0.711377434
TTF2	-0.048777068	-0.594127931	0.5558626	0.71183448
SPRY4	0.094256391	0.592559012	0.5560635	0.71200268
ILF3	0.031589944	0.591742504	0.5562177	0.71207409
RIOK1	0.035363722	0.591709504	0.5562596	0.71207409
PTGES3	-0.043199211	-0.591640705	0.5563887	0.712148709
NAAA	0.088485038	0.591537753	0.5565025	0.712205428
HLA.DPA1	0.132431203	0.591104337	0.5566986	0.712248528
HLA.E	0.080596147	0.591556199	0.5567286	0.712248528

USP12	0.047174242	0.593949856	0.5567467	0.712248528
DDX58	-0.064691203	-0.59066105	0.5570101	0.712495641
PRNP	0.121245305	0.588949809	0.5579999	0.71361323
TUBA4B	-0.034591523	-0.58953623	0.5580684	0.71361323
DDX1	0.028819436	0.589424213	0.5581412	0.71361323
MAEA	-0.028706992	-0.588929731	0.5581650	0.71361323
FBXL15	-0.040259492	-0.588600803	0.5583011	0.71366314
FBN1	-0.123935338	-0.589301897	0.5583877	0.71366314
KLHL12	0.054367876	0.588614244	0.5584150	0.71366314
PUF60	0.026893383	0.588132454	0.5585430	0.713736923
PEX26	0.073544118	0.58763966	0.5590773	0.714314379
PFDN2	-0.03487438	-0.587063071	0.5592720	0.714314379
WNK1	0.028401353	0.587671454	0.5593049	0.714314379
PPP1R13L	0.052478218	0.587364749	0.5593093	0.714314379
GLT8D1	0.066952484	0.58706596	0.5594001	0.714314379
NIT2	-0.054322857	-0.587847207	0.5594172	0.714314379
COMP	-0.130809361	-0.586647895	0.5595881	0.714422161
ZNF277	-0.087976803	-0.588273642	0.5596424	0.714422161
HNF1B	0.101431224	0.587134686	0.5597884	0.714479279
HSPA4	0.029241109	0.586094128	0.5599280	0.714479279
PCBP2	0.043743833	0.586011745	0.5599312	0.714479279
ASCC1	-0.036462575	-0.586522276	0.5599687	0.714479279
GLUD2	-0.098439163	-0.586794354	0.5601150	0.714576889
TSC1	-0.028703534	-0.585633803	0.5602190	0.714619017
HMG20B	0.026641748	0.584488472	0.5609834	0.715504209
ZFAND6	-0.040205282	-0.584343487	0.5614880	0.716057718
SLC19A1	0.102707962	0.585201369	0.5616263	0.716144133
PPP2R5A	-0.061318195	-0.58466316	0.5617125	0.716164035
NELFCD	0.033230301	0.583492595	0.5617978	0.716182918
TCEAL9	-0.09524201	-0.586291226	0.5619890	0.71633738
ARHGEF7	-0.024288383	-0.582884712	0.5621174	0.716410374
RPL24	-0.124866692	-0.583083325	0.5624120	0.716695787

PRDX2	0.047246992	0.58185445	0.5627302	0.717011334
CSTF3	0.031531541	0.581670476	0.5628328	0.717052059
PSME2	-0.040558496	-0.581160999	0.5632490	0.717492192
MSLN	-0.148727632	-0.580611912	0.5637750	0.718072175
UHRF1	-0.087653571	-0.58032244	0.5641560	0.718467213
SEMA3B	-0.076544338	-0.580012517	0.5643230	0.718589724
WDR41	-0.040536019	-0.578458652	0.5650325	0.71933452
ZC3H12A	-0.079338872	-0.580044766	0.5650490	0.71933452
TADA2B	-0.043675451	-0.578966059	0.5652514	0.719498924
GTSE1	0.062831955	0.578259683	0.5653455	0.719498924
CRBN	-0.044523177	-0.57815435	0.5653914	0.719498924
SPIDR	-0.05137137	-0.577685961	0.5658390	0.719978673
MAPK1IP1L	-0.107581098	-0.579513394	0.5661120	0.720235372
SRBD1	0.034107383	0.57656173	0.5664134	0.720528479
CD2AP	-0.043920714	-0.576144116	0.5665870	0.720659029
PPCS	-0.057425752	-0.577068382	0.5666740	0.720680123
RPF1	-0.048944925	-0.576019321	0.5668531	0.720814377
FBP1	-0.144847218	-0.575816129	0.5669830	0.720814377
ALPK3	0.159937708	0.583223086	0.5669932	0.720814377
RNF114	-0.043662669	-0.575452866	0.5673040	0.721119124
RABGGTB	0.035895977	0.575202503	0.5676100	0.721417743
GOLPH3	0.043156992	0.574969295	0.5677591	0.721516874
ATXN2L	0.026979511	0.574289334	0.5678598	0.721554529
ASXL2	-0.040412744	-0.574189754	0.5679632	0.721595523
SNX11	-0.058815697	-0.575035838	0.5682414	0.721836683
RANGAP1	0.024517556	0.574179612	0.5682952	0.721836683
CFAP126	-0.264076449	-0.580045797	0.5685692	0.722020699
PDCD5	-0.040232782	-0.573331255	0.5686000	0.722020699
COPS6	0.025271496	0.573104413	0.5686535	0.722020699
CAMKK1	0.075912726	0.573291463	0.5690030	0.722374857
ALKBH3	-0.062170508	-0.572648177	0.5693092	0.722622147
TMEM192	0.05216241	0.571951617	0.5693831	0.722622147

RIC1	0.04388909	0.57215816	0.5694120	0.722622147
MAP2K4	0.026529662	0.572372997	0.5697595	0.72296823
SPNS1	0.083197117	0.571269519	0.5698271	0.72296823
MAPKAPK5	0.043416047	0.570506136	0.5703363	0.723523846
CTU1	0.036615357	0.570494725	0.5704761	0.723610714
RIOK3	-0.044738797	-0.571134128	0.5706359	0.72372298
DPH1	0.04110703	0.570088556	0.5707484	0.723775169
IFITM3	-0.061411992	-0.570408125	0.5709192	0.723901385
JARID2	0.075435473	0.570701719	0.5710081	0.723923632
MAPK7	0.035269398	0.569335847	0.5711587	0.723992814
UHRF2	0.036957011	0.569572956	0.5712984	0.723992814
KRT13	-0.245928008	-0.568937191	0.5714056	0.723992814
ARHGAP23	-0.081903008	-0.56886812	0.5714952	0.723992814
SNX14	0.053014206	0.569537176	0.5715204	0.723992814
DCUN1D4	-0.031919962	-0.568706494	0.5715493	0.723992814
PER2	-0.05205946	-0.570977511	0.5715620	0.723992814
SNAPIN	0.030705263	0.568568985	0.5718010	0.72418797
RPUSD4	0.06125188	0.568668233	0.5718587	0.72418797
ATP6V1H	-0.04117041	-0.568044411	0.5719925	0.724266952
GALNT14	-0.138308175	-0.571274496	0.5722525	0.724441662
SSX2IP	-0.041896071	-0.568556437	0.5722755	0.724441662
CDC20	-0.066256241	-0.567529647	0.5723446	0.724441662
MKRN1	-0.026419523	-0.567388945	0.5727967	0.724854186
MOCS2	0.060384398	0.567062748	0.5728133	0.724854186
PNN	0.030081936	0.566207523	0.5732822	0.725357175
CEBPG	0.106003013	0.566877602	0.5734558	0.725486379
USP47	-0.028250771	-0.565825873	0.5738288	0.72586781
DIMT1	0.037159556	0.565250937	0.5740835	0.726099482
NUFIP2	-0.029127707	-0.565024334	0.5742883	0.726267959
BLOC1S4	0.025348571	0.563932309	0.5747711	0.72673116
TIAM1	-0.077035602	-0.565494963	0.5747978	0.72673116
GATAD1	0.02982468	0.564243234	0.5752435	0.727204193

IQGAP3	0.055229286	0.56336072	0.5755718	0.727528581
WDR24	-0.027683583	-0.561604686	0.5765475	0.728671107
FAM104A	0.116851324	0.562201433	0.5771969	0.729400997
HLA.DRB1	0.136535714	0.559466565	0.5779139	0.730216183
SEC24D	0.050635115	0.559348774	0.5783666	0.730697211
PRKD3	0.061264828	0.559261313	0.5784868	0.730758179
STAM	-0.028315444	-0.558229269	0.5786398	0.730860463
PITRM1	0.091681203	0.558293938	0.5789285	0.731028847
DCX	-0.212799971	-0.559837788	0.5789687	0.731028847
SPRYD7	0.043608402	0.557562956	0.5790910	0.731028847
CCN5	-0.18932381	-0.561313781	0.5791197	0.731028847
TSNARE1	-0.136581469	-0.561843002	0.5791332	0.731028847
BRI3	0.056895169	0.557251077	0.5794048	0.731263811
SMN1	0.052270833	0.557693714	0.5795638	0.731263811
UCHL1	0.146129955	0.558073832	0.5795649	0.731263811
MAX	-0.059017538	-0.557399526	0.5796076	0.731263811
RPLP2	0.041817575	0.556239208	0.5800455	0.731562034
PDPR	0.045360455	0.556640326	0.5800654	0.731562034
PRKCA	-0.093262418	-0.556105756	0.5801244	0.731562034
TMEM30B	-0.085312005	-0.556381642	0.5801322	0.731562034
PEX19	0.050428891	0.55589317	0.5804007	0.731809696
NF1	0.019699641	0.555176353	0.5807177	0.732118431
MED7	-0.028124793	-0.554576869	0.5813385	0.732810011
TBP	0.035954539	0.555792241	0.5814695	0.732825229
CYP4V2	0.086636099	0.559924306	0.5815863	0.732825229
ARHGAP1	-0.053546053	-0.554148176	0.5817059	0.732825229
KTN1	0.040979098	0.554435366	0.5817814	0.732825229
FABP7	0.317291958	0.558822707	0.5817998	0.732825229
PPIH	0.039887199	0.553530431	0.5818383	0.732825229
PPP1CC	0.038569323	0.554189326	0.5818560	0.732825229
CDC42SE2	-0.084456579	-0.553082515	0.5823041	0.733298676
NMRAL1	0.066668496	0.55269124	0.5825827	0.733558428

DHRS4	-0.071833459	-0.553262839	0.5828135	0.733758072
TXNDC17	-0.065805049	-0.552095223	0.5829968	0.733864912
LENG1	-0.034093083	-0.552973874	0.5830430	0.733864912
PC	-0.060281898	-0.552004038	0.5831790	0.733945918
KCTD1	-0.070429962	-0.551506524	0.5833088	0.734017506
PAX8	0.055223496	0.551334939	0.5835179	0.734189538
CAPRIN1	-0.023894211	-0.550921997	0.5836295	0.734238652
STXBP3	-0.031589962	-0.551469105	0.5837935	0.734354242
CELF2	0.068221286	0.549861986	0.5844910	0.735015927
ADCK5	-0.091988944	-0.55232671	0.5845845	0.735015927
BRCC3	-0.030205489	-0.550761041	0.5845934	0.735015927
MLXIP	0.042751165	0.549616515	0.5846516	0.735015927
STX18	0.058466504	0.549373716	0.5846816	0.735015927
DDX60L	0.070292931	0.550041761	0.5849055	0.735206621
RPL14	-0.094259662	-0.548716296	0.5855514	0.735927049
INO80C	-0.035702932	-0.547820581	0.5857612	0.736099601
SAR1B	-0.070853177	-0.548076444	0.5860998	0.736433899
PUS3	0.046226165	0.546908913	0.5863555	0.736664276
COA6	0.050487274	0.54631912	0.5869154	0.737276219
PCDHGC3	-0.078702778	-0.54629102	0.5870925	0.737406875
BRPF3	-0.03452406	-0.545550101	0.5872946	0.737501485
SZRD1	-0.031497256	-0.546274911	0.5873125	0.737501485
VPS8	-0.022244342	-0.545389097	0.5874065	0.737527738
ARHGEF28	-0.065930827	-0.545609137	0.5875845	0.737660451
CLIC1	-0.034941539	-0.544850629	0.5877558	0.737784066
CFHR4	-0.125047597	-0.546274228	0.5879145	0.737892033
NAV1	0.059452068	0.545536276	0.5880198	0.737932868
HOOK3	-0.042609662	-0.544584546	0.5882076	0.737989514
SCGB1D2	0.214506015	0.544638261	0.5882103	0.737989514
PRKAB1	0.041228703	0.543602583	0.5886639	0.738467319
SPTAN1	0.030179229	0.543571313	0.5888099	0.738507269
RAB11A	-0.080184211	-0.543433528	0.5888415	0.738507269

PRTFDC1	-0.098314962	-0.543211251	0.5897107	0.739506323
SORL1	0.061548083	0.542738405	0.5898109	0.739540084
TSPAN7	-0.094952222	-0.543342365	0.5899034	0.739565225
PTPN2	-0.02684218	-0.541501858	0.5900439	0.739649444
TUBGCP6	-0.027149835	-0.54099971	0.5904357	0.740049727
ENTR1	0.043201729	0.54124995	0.5905521	0.740104233
USP10	-0.034711504	-0.539599685	0.5914430	0.741129238
ACBD6	-0.045601466	-0.539084552	0.5919802	0.741667638
SNRPA	-0.027356861	-0.538892488	0.5920837	0.741667638
STK39	0.057142387	0.538622175	0.5920919	0.741667638
CNDP2	-0.067139944	-0.538391704	0.5921769	0.741667713
RAD51AP1	0.098324242	0.542721592	0.5922898	0.741667713
SERPINB8	0.076634117	0.53854762	0.5923111	0.741667713
TTC31	-0.04511718	-0.538747306	0.5924408	0.741738611
PLXNB2	-0.032950436	-0.537631185	0.5927472	0.741972488
GNPNAT1	0.062390019	0.537520404	0.5927738	0.741972488
TOPBP1	-0.027304511	-0.536951671	0.5932433	0.742329429
APEH	-0.036085883	-0.536919057	0.5933897	0.742329429
PTOV1	-0.059663308	-0.536995398	0.5934227	0.742329429
AHR	-0.05732109	-0.536570192	0.5934279	0.742329429
SPG21	-0.035633083	-0.537646506	0.5934421	0.742329429
RING1	-0.043749135	-0.536820166	0.5934978	0.742329429
LENG9	-0.070109586	-0.537124028	0.5935868	0.742349239
CKMT1A	-0.13010094	-0.536068134	0.5937719	0.742489232
FIP1L1	0.023590226	0.535930187	0.5938824	0.742535925
GPX7	-0.059774192	-0.536682508	0.5941638	0.742796261
SF1	0.029599944	0.536036051	0.5943531	0.742941489
GNG10	0.065632126	0.535520659	0.5946306	0.743196769
MYRIP	-0.108038333	-0.53688609	0.5950186	0.743583257
OARD1	0.035856654	0.534287113	0.5950863	0.743583257
FKBP5	0.136986421	0.534375215	0.5957619	0.744335778
RNF13	0.043007368	0.533151767	0.5958548	0.744360247

MIS18A	0.078345977	0.532596509	0.5964878	0.745059328
EPX	-0.152562851	-0.531945228	0.5968240	0.745319812
PRPF38A	-0.026430677	-0.5316182	0.5968432	0.745319812
SPIN3	-0.102849227	-0.532351781	0.5969378	0.745346133
DUSP16	0.064656392	0.533197101	0.5970345	0.745375425
HINT3	-0.044201316	-0.53132349	0.5972156	0.74543141
KRT2	-0.070275293	-0.530948291	0.5972978	0.74543141
ACSF3	0.057783759	0.532220569	0.5973965	0.74543141
FARP2	0.047869229	0.531829637	0.5974864	0.74543141
ELF3	0.06255532	0.531013137	0.5975114	0.74543141
FBXO46	0.053431778	0.532027991	0.5975205	0.74543141
CD47	-0.072941165	-0.529697758	0.5981914	0.74608914
MAP1LC3A	-0.084425526	-0.530652969	0.5981944	0.74608914
ELP1	0.025881128	0.529452416	0.5985235	0.746408219
ISCU	0.041623391	0.529551666	0.5987332	0.74657774
STK35	-0.032837911	-0.52889952	0.5988128	0.746585268
CWF19L2	0.025024201	0.528080335	0.5992700	0.747063475
PPOX	-0.07039812	-0.528236881	0.5994102	0.747146491
SIX4	-0.055505977	-0.527284713	0.5998729	0.747551935
P3H4	0.063456767	0.52803839	0.5998828	0.747551935
MYH10	0.064712086	0.527128513	0.6001783	0.747828427
CHP1	0.052235244	0.526966599	0.6002714	0.7478526
C2CD2L	0.065209774	0.526375233	0.6005945	0.748163547
GPN2	0.029556485	0.525946141	0.6009170	0.748462069
EPHA1	0.049938759	0.526253537	0.6009818	0.748462069
SIVA1	0.065552462	0.525268989	0.6014225	0.74872329
ARFGEF2	-0.025467158	-0.525006263	0.6014740	0.74872329
SERPINB12	0.222702525	0.527296955	0.6014839	0.74872329
ACSL3	0.04677312	0.524868783	0.6015295	0.74872329
DAZAP2	-0.09450594	-0.524950895	0.6015604	0.74872329
KRT75	0.133540038	0.524930157	0.6016812	0.748781819
KIF15	-0.053848308	-0.525018114	0.6017945	0.74883132

IDH3G	-0.044854305	-0.524088	0.602108	0.748944859
LONP1	-0.058971579	-0.52399618	0.602153	0.748944859
STAG1	0.026983633	0.523906709	0.602206	0.748944859
SAMD12	-0.053145251	-0.524047574	0.602219	0.748944859
DCAF5	-0.023965808	-0.52422503	0.602254	0.748944859
ANK1	0.086849455	0.523417421	0.602497	0.74904664
EIF4E2	-0.032261589	-0.525422512	0.602520	0.74904664
TBC1D17	-0.049886711	-0.523402491	0.602626	0.74904664
RHOC	0.056996617	0.523235546	0.602632	0.74904664
C2orf76	-0.050399586	-0.523068133	0.602786	0.749147455
GABPA	-0.024561278	-0.52288087	0.602925	0.749227717
BCL6	0.054079329	0.522668273	0.603404	0.749731582
ZNF608	0.044244835	0.522767249	0.603766	0.750089416
EFNA1	0.101885526	0.521496601	0.604039	0.750304346
CDK5RAP3	-0.035938015	-0.521266804	0.604087	0.750304346
JAG1	0.06402532	0.521012677	0.604185	0.750334793
DUSP22	-0.057754417	-0.521214963	0.604396	0.750504465
DNAJC12	0.114408757	0.522286816	0.604538	0.750571268
PKD2	0.050032086	0.520641183	0.604598	0.750571268
MMAA	0.051749436	0.520673949	0.604733	0.750647519
CSNK2A1	-0.029562538	-0.520238417	0.604909	0.750721213
MRPS18C	0.091280827	0.519887108	0.604961	0.750721213
MAOA	-0.090202872	-0.51994158	0.605014	0.750721213
PRKD1	0.085193553	0.521188389	0.605321	0.751010302
C1orf53	0.096770489	0.519481731	0.605605	0.751269955
RAP1B	0.037484962	0.518275788	0.606061	0.751744951
HK1	-0.052828588	-0.517657502	0.606506	0.752204781
RAB11B	0.040225234	0.517404909	0.606662	0.752306311
NSUN5	0.021898308	0.517771916	0.606808	0.75232073
QSOX1	0.125233459	0.517784471	0.606822	0.75232073
EPB41L2	-0.090164444	-0.516906426	0.607326	0.752853588
FYTTD1	-0.072721805	-0.516472975	0.607650	0.753163409

JADE2	-0.040970808	-0.515854098	0.6077345	0.753175352
FCGRT	-0.073647368	-0.516110297	0.6080088	0.753423194
ME1	-0.099178571	-0.51517222	0.6089848	0.754540576
GOLT1B	-0.078450904	-0.514333958	0.6091176	0.75461293
CTTNBP2	-0.058116241	-0.513818868	0.6091955	0.75461717
C1GALT1C1	-0.066433534	-0.513550773	0.6093357	0.754698973
RBFA	-0.090771538	-0.513065905	0.6098586	0.755159184
ASNSD1	0.05812437	0.514510714	0.6099586	0.755159184
CCDC174	0.037611643	0.512779938	0.6099938	0.755159184
HINT2	0.048701466	0.512696042	0.6100049	0.755159184
DUS2	-0.027682895	-0.512275665	0.6102617	0.755303431
WDR43	0.040671974	0.5128928	0.6102702	0.755303431
ATP11A	0.054284568	0.512223356	0.6103785	0.755345067
KCTD15	0.094105639	0.511905839	0.6105528	0.75546889
TIAL1	-0.031850977	-0.511822251	0.6106587	0.755507795
PHKA2	-0.031431767	-0.512115063	0.6107554	0.755511187
NCAPH	0.062820752	0.511737786	0.6108103	0.755511187
TBCA	-0.033037184	-0.511249669	0.6111067	0.755684245
FAM98B	-0.036502669	-0.511314382	0.6111694	0.755684245
CD207	-0.128642151	-0.512019172	0.6112439	0.755684245
LAMTOR1	0.044404402	0.510801501	0.6112486	0.755684245
P3H2	-0.096019122	-0.511768889	0.6113778	0.755752679
ARL 2.00	-0.036492353	-0.510465861	0.6114867	0.755795286
PDE5A	0.068242368	0.511447951	0.6116637	0.755919687
MMP14	0.052358594	0.511581204	0.6117363	0.755919687
ITCH	-0.017356891	-0.509187526	0.6124546	0.756715096
FOXO4	-0.082426449	-0.508094288	0.6135542	0.757981497
PSMD2	0.017093421	0.506956993	0.6140337	0.758401675
BST2	0.127126316	0.506967763	0.6140879	0.758401675
CTPS1	-0.038836312	-0.506853205	0.6141185	0.758401675
CARM1	0.028602632	0.506989481	0.6145774	0.758876071
STAMBPL1	-0.048049921	-0.505882776	0.6148502	0.759120588

MTUS1	-0.035680996	-0.50534573	0.6150670	0.759295844
ZNF738	-0.100590931	-0.507102662	0.615264	0.759446822
PDF	0.077933872	0.505375723	0.6154260	0.759555047
EML3	-0.02822015	-0.504738537	0.6157235	0.759829111
MINDY2	-0.047294553	-0.504149557	0.616045	0.760075273
PFDN5	-0.029063865	-0.504003053	0.6161507	0.760075273
UNK	-0.031092425	-0.503751101	0.6161757	0.760075273
PRKN	-0.084712278	-0.504286974	0.6162220	0.760075273
FAM118B	-0.045062143	-0.503969776	0.6164680	0.760286315
RNF126	0.036916353	0.503108256	0.6166670	0.760382093
DDX39B	0.027127481	0.503061969	0.6167480	0.760382093
SENP6	-0.023606613	-0.503467075	0.6167710	0.760382093
MBD1	-0.046304436	-0.502796979	0.6169170	0.760470788
PPT2	-0.078447696	-0.503333057	0.6170037	0.760484319
MED4	-0.028256034	-0.50183625	0.6176435	0.76118047
ADAMTS9	-0.068402626	-0.501993688	0.6177339	0.761199463
STON2	-0.049244267	-0.500094784	0.6187360	0.76229686
SLAIN1	-0.063283985	-0.500765506	0.6187747	0.76229686
EIF4A3	-0.02551843	-0.499082473	0.6196387	0.763099744
DEDD	-0.042961566	-0.500776674	0.6196562	0.763099744
PDLIM2	-0.071345519	-0.499585476	0.6197810	0.763099744
NRF1	-0.054960567	-0.499057264	0.6197880	0.763099744
LIMD2	-0.069933571	-0.498825289	0.6198255	0.763099744
CDK16	0.025256774	0.499320153	0.6198775	0.763099744
OSMR	-0.05690239	-0.499403685	0.6200377	0.763203568
ALDH1A1	-0.099213327	-0.498143065	0.6202057	0.763317883
TOE1	-0.039621278	-0.496822307	0.6210160	0.764224225
RPL18	0.060555451	0.496802761	0.6213247	0.764438971
NEU1	-0.041560338	-0.49710943	0.6213420	0.764438971
DROSHA	-0.023441767	-0.495928895	0.6216442	0.764718095
TGFB3	-0.059396053	-0.495697901	0.6218479	0.76487603
TGFBI	0.104972932	0.4959585	0.6219585	0.764884847

EXOC6	0.037397368	0.495422239	0.6220058	0.764884847
KLC4	-0.027028233	-0.495674867	0.6221022	0.764910648
GLYATL2	0.131991165	0.495509647	0.6222555	0.765006296
ZNF609	-0.027660489	-0.494507272	0.6226505	0.7653802
NSUN6	0.038572744	0.495097758	0.6227105	0.7653802
COG7	-0.034534588	-0.494577613	0.6229039	0.765525477
PRKAR2A	0.031884361	0.494099928	0.6229904	0.765539117
XRN1	0.019086504	0.493617296	0.6232955	0.765820851
DMAC1	0.076732143	0.493370318	0.6238667	0.766352576
VWA5A	-0.084305414	-0.492917688	0.6239516	0.766352576
ZCCHC8	-0.02489218	-0.492482032	0.6240655	0.766352576
COQ8A	0.047511711	0.492682123	0.6240816	0.766352576
PRDM15	0.056874205	0.493098962	0.6241054	0.766352576
GPD1L	0.062824211	0.492964602	0.6242345	0.766418417
RABEP2	0.026099173	0.491853012	0.6247575	0.766967219
SQLE	0.049848748	0.491475505	0.6249095	0.767000985
ZNF593	-0.046945883	-0.491282057	0.6249355	0.767000985
SERPINE2	0.11658703	0.491011988	0.6254106	0.767490978
CIAO2A	-0.034787932	-0.490439083	0.6255620	0.767583973
SNAPC1	-0.047885735	-0.494209148	0.6256610	0.767612673
SEC31A	0.023959286	0.490333047	0.6260160	0.767955371
CRTC3	0.039780075	0.490065359	0.6261878	0.768073371
PET100	0.076313553	0.48942234	0.6262904	0.768106304
MYCBP2	-0.018760485	-0.488930912	0.6266850	0.76849747
FUT6	0.150184105	0.491542333	0.6272805	0.769132853
PSMD12	0.028009173	0.487834896	0.6274617	0.769132853
RBX1	0.033960118	0.487690548	0.6274905	0.769132853
PRMT1	0.041885827	0.487825501	0.6275310	0.769132853
PCGF6	-0.04315166	-0.487655386	0.6275820	0.769132853
TPM3	-0.077820301	-0.487143349	0.6278654	0.769387263
STK17A	-0.057895085	-0.487333311	0.6280846	0.769557248
FOS	0.114465408	0.487712886	0.6281558	0.769557248

PRIM2	0.039073308	0.485503437	0.6289900	0.770486264
CASP7	0.054083158	0.485180981	0.6292690	0.770704464
SMAD1	0.046624549	0.485039384	0.6293257	0.770704464
ZNF275	-0.054138772	-0.485913002	0.6293959	0.770704464
CD209	0.194603704	0.48698525	0.6296969	0.77088485
CKMT2	-0.103523872	-0.484487905	0.6297897	0.77088485
AHCY	-0.033535226	-0.484413308	0.6298350	0.77088485
DNAJC17	0.028572632	0.484242664	0.6298779	0.77088485
PPP2CA	-0.034228759	-0.485476215	0.6299230	0.77088485
PPP1R21	-0.024020977	-0.483783466	0.6302312	0.771169071
NDUFA2	-0.055129906	-0.483368754	0.6307527	0.771692967
CDPF1	0.061137732	0.483016998	0.6310119	0.771692967
ARFGAP2	-0.025682977	-0.482626567	0.6311229	0.771692967
MMS22L	0.079094444	0.485017154	0.6311800	0.771692967
GTF2E1	0.029375226	0.482458643	0.6311819	0.771692967
TSPAN3	-0.087737474	-0.484288092	0.6312049	0.771692967
CUL3	0.018622763	0.483498027	0.6312130	0.771692967
KRT17	0.191236316	0.482611904	0.6312670	0.771692967
REXO1	0.046585863	0.483555734	0.6319958	0.77232351
ORC4	0.030563346	0.481830064	0.6320054	0.77232351
FHOD1	-0.029584586	-0.481506985	0.6320847	0.77232351
TPCN1	0.059379173	0.481171435	0.6320878	0.77232351
COPS3	0.018415996	0.481456572	0.6322239	0.772396877
ZNF250	0.060054516	0.482031442	0.6330129	0.7732669
ADAL	-0.06948322	-0.479329168	0.6333642	0.773558799
CCDC9	-0.026414212	-0.479188181	0.6334500	0.773558799
VTA1	0.020140162	0.479297721	0.6335099	0.773558799
SRP68	-0.022242556	-0.479111448	0.6335560	0.773558799
LAGE3	0.038553759	0.479130299	0.6336610	0.773594595
CHTOP	-0.07015141	-0.478973861	0.6338294	0.773706459
WDR62	0.093669286	0.479856664	0.6343024	0.774190702
KHNYN	-0.027820985	-0.47889288	0.6344260	0.774249429

HSPA9	0.045473026	0.477328561	0.6347638	0.774543457
TMEM115	0.039486729	0.477469745	0.6348200	0.774543457
C12orf4	0.029348271	0.477410004	0.6350420	0.774632492
CENPU	0.068639355	0.477619103	0.6350460	0.774632492
GUK1	-0.045119511	-0.4771673	0.6356635	0.775292892
CTSF	0.058362202	0.476557215	0.6359772	0.775535057
BRD4	0.024590677	0.475587089	0.6360155	0.775535057
GGT5	-0.080227718	-0.475036278	0.6366435	0.776208082
LYRM7	-0.049967105	-0.474328906	0.6369235	0.77636364
EIF5A2	0.201547368	0.476564713	0.6369245	0.77636364
USP38	0.021214586	0.474108553	0.6374785	0.776946073
USP1	-0.036222632	-0.47327797	0.6376252	0.777031562
FGL2	-0.101454624	-0.474032376	0.6377142	0.777046726
N4BP2L1	0.080200175	0.473414559	0.6378758	0.777150383
FOLR2	-0.078081015	-0.472876973	0.6381098	0.777342172
ABHD10	0.050030244	0.471979066	0.6385739	0.777513601
STK19	-0.05810119	-0.473731702	0.6386065	0.777513601
AAGAB	-0.032678571	-0.472112964	0.6386218	0.777513601
KLC2	0.026380414	0.472050647	0.6386265	0.777513601
NGRN	-0.041597368	-0.472095621	0.6386335	0.777513601
CSNK2A2	-0.019458553	-0.471295188	0.6390415	0.777916736
TPGS1	-0.055203046	-0.472732641	0.6392588	0.777933821
RBM6	0.029157425	0.471926989	0.6392666	0.777933821
FAM193B	0.04093722	0.470967727	0.6393618	0.777933821
KHSRP	0.023451297	0.470787635	0.6394385	0.777933821
BAG4	-0.044349032	-0.471474514	0.6394386	0.777933821
ZBED6	0.059087418	0.47092796	0.6397980	0.778277773
DTX3L	-0.044117049	-0.470521812	0.6399335	0.77834934
ARHGEF38	0.062810832	0.469820402	0.6406196	0.779090472
TRIP13	-0.059182462	-0.469042083	0.6409739	0.779428043
TCF4	-0.051957857	-0.467888718	0.6414805	0.779890236
ISLR	-0.079413102	-0.468433656	0.6415077	0.779890236

TRIP12	0.025380406	0.468527891	0.6416896	0.780018005
ZNF776	-0.057243543	-0.468623486	0.641776	0.78002965
FN1	0.087717481	0.467099793	0.6421619	0.780405101
PDCL3	0.042559549	0.466354986	0.6425909	0.780832467
MMAB	-0.069463797	-0.46677377	0.6427026	0.780875225
HARS2	-0.034341955	-0.46570701	0.6430288	0.781178088
POLG	0.032354008	0.465522506	0.6431837	0.781272784
RPL3	0.065508008	0.465830146	0.6433475	0.781330003
PFDN1	-0.030069233	-0.465680138	0.6434174	0.781330003
ZNF639	0.041825996	0.465852488	0.6434618	0.781330003
RARA	0.05021203	0.464559312	0.6438406	0.78169653
QDPR	-0.05441203	-0.464527364	0.6440921	0.781908341
ANKRD26	0.078313847	0.465247538	0.6442056	0.781952604
KNOP1	-0.056736992	-0.464524767	0.6445070	0.782224895
FAM53C	-0.056150807	-0.467577343	0.6446712	0.782252656
HMGCLL1	-0.05468386	-0.466693383	0.6446840	0.782252656
ZHX3	-0.041934643	-0.463560729	0.6449247	0.7824511
GRAMD1A	0.051902519	0.463176833	0.6450816	0.7825479
EMCN	-0.149268	-0.463264713	0.6453279	0.782718369
PPP1R3G	-0.07647015	-0.463238242	0.6453763	0.782718369
ARHGAP5	-0.025893327	-0.46316063	0.6454832	0.782734561
MIF	0.045933244	0.46216405	0.6455439	0.782734561
CMC1	0.055212425	0.462402595	0.6456983	0.782828238
NLRX1	-0.039139073	-0.462159352	0.6458055	0.782864712
UBE2H	-0.036440169	-0.461632041	0.6459892	0.782993946
DHX16	0.01697257	0.461408415	0.6460726	0.783001516
HCFC1	-0.025179342	-0.460506406	0.6467193	0.783691704
EFTUD2	0.017242695	0.460172647	0.6469520	0.783880033
RAB34	0.045060346	0.460264869	0.6470378	0.783890441
AGO1	-0.037607199	-0.459788519	0.6472481	0.784051621
VIM	0.094059962	0.45960953	0.6477713	0.784515508
NAA50	0.025775348	0.459071415	0.6477856	0.784515508

ZBTB14	0.021873195	0.457818087	0.6486345	0.785449588
CHAF1B	0.048188158	0.457768709	0.6488160	0.785575931
PRUNE1	0.046383684	0.458145794	0.6489044	0.785589197
HLA.DRA	0.098012744	0.4567798	0.6494858	0.786199289
MRPL10	0.049627752	0.456592739	0.6498314	0.786404494
UAP1	-0.060177707	-0.456164847	0.6498361	0.786404494
ALDH5A1	-0.057053158	-0.456623665	0.6498925	0.786404494
GIN52	-0.101129231	-0.457392885	0.6500063	0.786404494
ZNF8	0.041580868	0.45592483	0.6500447	0.786404494
SLIT3	0.091239414	0.457683032	0.6501202	0.786404494
IL1RAP	-0.051575673	-0.455680711	0.6502344	0.786448948
NIP7	0.036255575	0.45538707	0.6504171	0.786576258
SETD6	-0.067193506	-0.458898945	0.6507832	0.786925175
ZG16B	-0.129974667	-0.454918838	0.6509815	0.787070991
SLC66A3	-0.136216484	-0.460085754	0.6513292	0.787397824
EPRS1	0.025086316	0.45423794	0.6516434	0.787683771
PLEKHA2	-0.03018747	-0.453374753	0.6518725	0.787804834
CYP7B1	-0.073635806	-0.455104002	0.6519699	0.787804834
CHCHD1	0.047939286	0.453147415	0.6519764	0.787804834
VRK1	0.041214248	0.453289451	0.6521082	0.787823124
TFAP4	-0.044641259	-0.453293909	0.6521467	0.787823124
PAPSS1	-0.046369624	-0.45256422	0.6523993	0.788034463
GALNT3	0.076524624	0.451781178	0.6532657	0.788987078
SNCA	-0.085647556	-0.4513439	0.6533528	0.788998378
KIAA1143	0.029603421	0.45075937	0.6536897	0.789305569
LSG1	0.016771165	0.450587943	0.6538507	0.789305569
PHF12	-0.022419887	-0.450596671	0.6538583	0.789305569
RALGAPB	0.022967331	0.450621632	0.6539516	0.789305569
UQCC3	-0.072182143	-0.450699546	0.6539960	0.789305569
RBL2	-0.029457613	-0.450323746	0.6541953	0.789452272
STN 1.00	-0.036593714	-0.450252536	0.6551306	0.790486919
DNAJC3	0.039574895	0.448517883	0.6555008	0.790659794

CCDC120	-0.056207519	-0.449223923	0.6555160	0.790659794
TIMM17A	0.053987556	0.448163753	0.6555554	0.790659794
CCNYL1	0.069751691	0.449464033	0.6555855	0.790659794
CLU	0.175545113	0.449025013	0.6557850	0.790727582
DRAM2	-0.054920476	-0.449334949	0.6557975	0.790727582
NCOR2	-0.022450357	-0.447801739	0.6559125	0.790772345
SF3B4	0.028492162	0.447447896	0.6563491	0.791204738
URGCP	0.028773684	0.447755422	0.6568391	0.791701328
LRRC8A	0.033892013	0.445914343	0.6571719	0.792008479
TACO1	-0.028027425	-0.445314139	0.6575984	0.792393361
MEAK7	-0.032894586	-0.445894823	0.6576563	0.792393361
PLAT	0.079967556	0.445294175	0.6577871	0.792393361
TRIM36	-0.059581955	-0.445683725	0.6578035	0.792393361
DUSP14	-0.049428195	-0.444970088	0.6579000	0.792415467
ASDURF	-0.026174887	-0.444676013	0.6580691	0.792525139
COLEC11	-0.067152708	-0.445038309	0.6581779	0.792562071
DHX8	0.021238325	0.443975258	0.6586141	0.79299405
TCP1	0.02448091	0.444000782	0.6587635	0.793079159
PSME1	-0.030817415	-0.443797767	0.6590920	0.793328205
CASP8	-0.033809662	-0.443258297	0.6591261	0.793328205
CLPX	-0.048030263	-0.442485812	0.6596991	0.793766657
ZFP90	-0.042566692	-0.442629166	0.6597191	0.793766657
MKNK2	-0.048365547	-0.443362035	0.6597256	0.793766657
IDI1	0.051068947	0.441853602	0.6602021	0.794245817
CREB1	0.038859308	0.441955595	0.6604292	0.794305569
COPG1	-0.035261222	-0.441742339	0.6604419	0.794305569
MAD2L1	-0.042383769	-0.441328865	0.6604866	0.794305569
MTAP	0.032812556	0.440547438	0.6611449	0.795003124
NAA20	0.034886711	0.440289087	0.6612598	0.795047137
ARCN1	0.025466974	0.440162436	0.6615385	0.795287715
TEAD4	0.04528081	0.442656109	0.6617326	0.795374052
SETD9	0.054021176	0.441462563	0.6617668	0.795374052

ARHGAP44	0.078612406	0.439900397	0.6618589	0.79539049
GRIPAP1	0.028190338	0.440326777	0.6620842	0.795523064
LDHA	0.038426252	0.439052685	0.6621259	0.795523064
RABEPK	0.025934323	0.438715429	0.6623522	0.795700698
ERMN	0.098271165	0.437895398	0.6629609	0.796186534
NR1H2	0.050080111	0.439495469	0.6630004	0.796186534
TSTD2	-0.033393878	-0.438126366	0.6630208	0.796186534
BMF	0.052135184	0.438252773	0.6630704	0.796186534
EEF1AKMT2	-0.060728571	-0.437809669	0.6631714	0.79621367
C9orf152	0.067340229	0.437407117	0.6633712	0.796353215
CNOT9	0.018809211	0.437967375	0.6634446	0.796353215
CSPG4	-0.054421259	-0.436798109	0.6637286	0.796599213
DHR SX	-0.048332895	-0.436303672	0.6642306	0.797107509
TFPT	-0.045784674	-0.43688937	0.6644695	0.797300576
RAB11FIP3	-0.087197701	-0.435911075	0.6648739	0.797691554
SETDB1	0.024670207	0.4344751	0.6654092	0.798239417
FGD6	0.034171316	0.434323183	0.6656839	0.798474561
RRP7A	0.029794549	0.434471611	0.6658449	0.798573296
ANKRD11	-0.031068515	-0.43400343	0.6659977	0.798662218
SEPHS1	0.024837124	0.433667459	0.6661079	0.798700073
SLC4A2	0.074504023	0.433625472	0.6662089	0.798726791
DLG4	-0.057270808	-0.433332107	0.6662933	0.79873367
ACOT11	0.06821906	0.433541211	0.6665817	0.798984296
BAHD1	-0.035756917	-0.432538556	0.6669487	0.799329741
TNFRSF1A	0.053527578	0.432815513	0.6670617	0.799361647
HSF1	-0.026928788	-0.432107183	0.6671322	0.799361647
SDC3	0.070202723	0.432138371	0.6675959	0.79982277
STAP2	0.046089662	0.431432427	0.6676966	0.799849019
PSPC1	0.032969981	0.431298171	0.6678275	0.799911503
UBLCP1	0.025915224	0.43159006	0.6679935	0.800015924
HMGA1	-0.065181823	-0.430568705	0.6682719	0.800254925
SCFD1	0.027051504	0.430760341	0.6685017	0.800435662

SIGLEC1	0.07697985	0.430406123	0.668659	0.800478144
MACROH2A1	0.041839602	0.429928605	0.6686949	0.800478144
CAMKMT	0.031389004	0.429605292	0.668986	0.800691208
SDHB	-0.033282951	-0.430164904	0.6690640	0.800691208
GALK2	-0.045601165	-0.429407334	0.6691096	0.800691208
AURKA	0.056979321	0.430489544	0.6693272	0.800854854
COBL	-0.055067105	-0.429264622	0.669535	0.800854854
RASSF6	-0.055734887	-0.429518575	0.6695360	0.800854854
AKAP8	0.026004169	0.428736701	0.6696222	0.800854854
SDC4	-0.06641968	-0.429304374	0.6696409	0.800854854
CCL18	-0.113669017	-0.42864727	0.670093	0.801301994
MTHFR	-0.050163398	-0.42796253	0.6703510	0.80151528
AASS	0.067406391	0.428584288	0.6705294	0.801574164
TAF4	-0.021213722	-0.427565199	0.6705582	0.801574164
PLCH1	-0.034640827	-0.426849516	0.670925	0.801918342
LRRC40	0.025078985	0.426547704	0.6711467	0.801976816
SNRPD2	0.029412895	0.426568208	0.671176	0.801976816
FAM3B	0.111865268	0.427253165	0.6712492	0.801976816
TSPO	0.07799547	0.42672979	0.6713399	0.801976816
ZNF521	0.085627185	0.426709978	0.671369	0.801976816
PLEK2	0.07731371	0.428594352	0.6714587	0.801989504
SHCBP1	-0.063579071	-0.428977137	0.6715558	0.802011084
C5orf15	-0.051364957	-0.426696503	0.672019	0.802349314
SMAD4	-0.024376128	-0.425336031	0.6720309	0.802349314
NDUFS1	-0.037155526	-0.425280659	0.6720762	0.802349314
SDCBP	0.056153947	0.4254639	0.6722299	0.802368137
DHX38	-0.021727782	-0.425038872	0.672250	0.802368137
CLASRP	0.024029267	0.424888652	0.6724099	0.802396159
RBM48	0.044916095	0.426545525	0.6724316	0.802396159
LYST	0.05001891	0.425290668	0.6726564	0.802570025
PPL	-0.083422444	-0.424181506	0.6730038	0.80266307
PTPN14	-0.033448665	-0.423945295	0.673028	0.80266307

BCL7B	-0.050406579	-0.423958485	0.6730377	0.80266307
NUP62	0.035009831	0.424278566	0.6730507	0.80266307
XPNPEP1	-0.032121991	-0.422756285	0.6739915	0.80351172
MBNL3	0.042275656	0.423669745	0.6740075	0.80351172
PAX2	0.09595963	0.423700031	0.6740466	0.80351172
NISCH	-0.029109826	-0.422544805	0.6740790	0.80351172
PGM3	0.040088346	0.422083902	0.6745225	0.803911819
RAVER2	0.02903703	0.421818571	0.6745730	0.803911819
ATR	-0.024884639	-0.421599122	0.6750274	0.804358786
B4GALT5	0.082788515	0.42089565	0.6752415	0.804519546
RBM8A	-0.043205827	-0.420773517	0.6756121	0.804848887
TIMMDC1	0.042878947	0.420395747	0.6756765	0.804848887
ATG14	-0.033189887	-0.420563837	0.6757661	0.804861069
WBP4	0.031960677	0.420003036	0.6759561	0.804993003
PTPN4	-0.050002339	-0.421063959	0.6760675	0.805030891
C2CD2	0.036449812	0.419254082	0.6764866	0.805435756
GIGYF1	-0.027795207	-0.41954407	0.6765968	0.805472403
PEX13	-0.046041368	-0.41884002	0.6768438	0.805671953
MTFMT	0.036588835	0.418005513	0.6776241	0.806506257
UBP1	0.018637098	0.417492687	0.6777188	0.806524316
ALDH18A1	0.064365489	0.417305786	0.6778709	0.806527643
MGAT2	0.03688541	0.417393607	0.6778939	0.806527643
ERCC5	-0.035734048	-0.418386195	0.6779599	0.806527643
SNRPC	0.025927688	0.416500782	0.6784484	0.807014149
NUDT22	-0.042459839	-0.41687034	0.6789808	0.80755276
RPL23A	0.056511729	0.415927465	0.6790769	0.807566805
SHMT1	0.055931673	0.415667353	0.6791517	0.807566805
FAM135A	-0.048086308	-0.415205489	0.6795006	0.807887017
RAB20	-0.048649774	-0.414894255	0.6798217	0.808174087
CCT6A	-0.019795207	-0.414285015	0.6800510	0.808352056
TANC1	-0.023625771	-0.413813022	0.6805068	0.808716087
ATG2A	-0.030016523	-0.414189402	0.6805166	0.808716087

CCDC82	-0.027497556	-0.413386076	0.680777	0.808837687
PPIL4	-0.019082481	-0.412950376	0.6810232	0.808837687
ERCC2	0.023335965	0.412940182	0.6810325	0.808837687
RPS13	0.041433158	0.413327448	0.6810776	0.808837687
KIAA1109	0.026088342	0.412908269	0.6810994	0.808837687
SMDT1	-0.059514915	-0.4129822	0.6811026	0.808837687
ABRAXAS2	0.026972162	0.413533359	0.6811768	0.808837687
CHCHD4	0.041928383	0.412596104	0.6814608	0.809080292
GBE1	0.038719699	0.412303405	0.6815439	0.80908435
MMP15	-0.040286372	-0.412904297	0.6817387	0.809220984
SRM	0.043252632	0.411444553	0.6822899	0.809780556
FIZ1	-0.043669737	-0.411334239	0.6824084	0.809826477
PLCB3	-0.024000526	-0.41110902	0.6825897	0.809946221
JMJD1C	0.017455883	0.409946607	0.6833116	0.810618748
RIOX1	-0.049699041	-0.410010481	0.6833799	0.810618748
EPB41L4B	0.036866967	0.410186395	0.6833955	0.810618748
GAB1	-0.036133553	-0.409483701	0.6836406	0.810760326
SF3A1	0.019255451	0.409332002	0.6836746	0.810760326
NEMF	0.023598064	0.409265644	0.6838445	0.810805084
ZNF467	0.073673636	0.41128808	0.6838925	0.810805084
MRPL33	0.046248308	0.409048777	0.6839526	0.810805084
MIOS	0.019525113	0.408730856	0.6842247	0.81103369
ANLN	0.040443571	0.408937874	0.6844317	0.811107338
POLR3K	-0.02317849	-0.408222201	0.6844746	0.811107338
SEC23IP	-0.025598647	-0.408340352	0.6845266	0.811107338
TUFM	0.038368421	0.408011854	0.6847187	0.811239533
RHOQ	0.079274133	0.408268219	0.6848006	0.811241944
COL17A1	-0.082300663	-0.407861561	0.6849614	0.811338436
LACTB	-0.036690996	-0.406944594	0.6855954	0.811994656
AFAP1L2	-0.067418308	-0.406754196	0.6857386	0.812042205
TOM1L1	-0.044320489	-0.406729596	0.6857956	0.812042205
ADAMTS7	0.052585427	0.406480882	0.6858927	0.812062433

TAF7	-0.0156	-0.405768863	0.6863288	0.812483974
FOXJ2	0.041893985	0.405463003	0.6865245	0.812545737
LONRF2	-0.069839839	-0.407248228	0.6865411	0.812545737
CNOT4	-0.018045432	-0.405296945	0.6867135	0.812591644
STRADA	-0.026605038	-0.40606616	0.6867400	0.812591644
CLDN6	-0.141270588	-0.406582159	0.6868309	0.812604557
C9orf78	0.03548406	0.405329396	0.6869625	0.812659329
CALU	-0.035569041	-0.404714144	0.6870374	0.812659329
R3HDM2	-0.029723289	-0.404585614	0.6873355	0.812860551
VPS37B	-0.028086015	-0.405056217	0.6875096	0.812860551
POLR2F	0.047434142	0.404106581	0.6875235	0.812860551
TAF12	0.032306767	0.404138469	0.6875278	0.812860551
EHF	-0.046779895	-0.404010518	0.6877072	0.812945539
HDAC6	0.026755865	0.404953955	0.6877599	0.812945539
AAMP	0.02826188	0.403799746	0.6878954	0.813011054
PATL1	-0.0176985	-0.403258135	0.6882515	0.813336997
ZCCHC4	0.086417455	0.403400106	0.6883565	0.813366384
COL1A2	-0.098378008	-0.40263415	0.6888744	0.813871129
USF2	-0.016577105	-0.402297595	0.6890142	0.813871129
TUSC2	-0.035838954	-0.402088794	0.6890818	0.813871129
DSTYK	-0.032962519	-0.4020114	0.6891747	0.813871129
HNRNPA1L2	0.052936523	0.401686933	0.6892535	0.813871129
GLTP	0.046756695	0.402210992	0.6892646	0.813871129
TENT2	0.032940248	0.402916079	0.6893590	0.813887951
LRRC8B	0.095297039	0.403372595	0.6897575	0.814263476
NQO1	-0.141761278	-0.40107189	0.6898602	0.814290162
SMIM12	-0.045047368	-0.400566563	0.6902275	0.814629047
SNRPN	-0.060798496	-0.400574751	0.6904382	0.81476358
MAFG	-0.055644181	-0.40131378	0.6905021	0.81476358
FAM193A	-0.032061842	-0.399864829	0.6905884	0.814770769
ATP1B3	0.051741335	0.399581695	0.6908485	0.814900448
NDUFS7	0.033960117	0.399666784	0.6908589	0.814900448

POLD3	0.034728759	0.399609681	0.6910326	0.815010624
HEXD	-0.052364511	-0.399325928	0.6911347	0.815036358
TUBB1	-0.075358628	-0.398130064	0.6918755	0.815815186
PEA15	0.057927143	0.398408865	0.6920422	0.815916931
IGF2BP1	0.143476353	0.401531508	0.6923796	0.816219513
ARF5	0.034397094	0.397548134	0.6924744	0.816236753
PCP4	0.129790414	0.39706488	0.6927615	0.816365404
TFRC	0.069928233	0.397189293	0.6927806	0.816365404
MRPS11	0.039262538	0.3973355	0.6928247	0.816365404
BUB1	0.051373707	0.397250859	0.6929857	0.816460304
COG3	0.03028485	0.396371956	0.6932392	0.816647731
LACC1	-0.04197536	-0.396707619	0.6933107	0.816647731
RAVER1	-0.017963064	-0.396052025	0.6933862	0.816647731
KIF22	-0.038884342	-0.3961139	0.6935069	0.816695108
EIF4B	0.022494192	0.395929101	0.6937716	0.816825009
DUOX1	0.143961957	0.3975797	0.6937787	0.816825009
MAP3K1	-0.051298477	-0.395538298	0.6939155	0.816891706
MAPK8	-0.021233496	-0.395420384	0.6940404	0.81694434
PTPN12	0.022317312	0.395231569	0.6941535	0.816982477
IQGAP2	-0.065894611	-0.395362322	0.6943238	0.817088374
SRC	-0.029883041	-0.39384439	0.6950367	0.817799864
EIF2D	0.032273271	0.393822466	0.6950895	0.817799864
CIAPIN1	0.027689229	0.393429028	0.6953104	0.817964831
GATC	-0.033085695	-0.393627423	0.6954575	0.818042842
CCNT2	0.036941391	0.393665517	0.6958418	0.81830413
LXN	-0.057614474	-0.393260833	0.6958438	0.81830413
NOP56	0.028642669	0.392672215	0.6959959	0.81830413
AKR1B10	-0.135516526	-0.39327521	0.6960019	0.81830413
CNIH4	0.051892293	0.392031114	0.6963479	0.818616164
BTC	0.067257576	0.392735784	0.6965509	0.818672472
FPGT	0.024571019	0.392522494	0.6965577	0.818672472
GTF2H3	0.027675188	0.391567672	0.6968784	0.818877508

IQCB1	-0.038234624	-0.391679389	0.6968929	0.818877508
SBNO2	-0.033683788	-0.391405478	0.6971696	0.819084053
SCAMP2	0.046949962	0.390825451	0.6972358	0.819084053
CX3CL1	-0.139340043	-0.391489752	0.6973108	0.819084053
MTX2	0.028978289	0.391259934	0.6976263	0.819359853
CCDC137	-0.070896037	-0.390598758	0.6979395	0.819632874
PORCN	-0.075390564	-0.389565653	0.6982167	0.81978993
MAP7D2	-0.129424781	-0.390440117	0.6982348	0.81978993
RSBN1	0.019180169	0.38887386	0.6986862	0.820225
ANAPC2	-0.021049248	-0.388716576	0.6991220	0.820548683
ENSA	-0.039664586	-0.388427162	0.6991398	0.820548683
SARS2	-0.033599807	-0.388337481	0.6992044	0.820548683
HPN	0.080601758	0.389137829	0.6994417	0.820732191
PAXX	-0.039065038	-0.387914885	0.6995520	0.820766772
NUCB2	0.060709774	0.387075458	0.7001996	0.821431589
SLC38A2	-0.046727444	-0.386756053	0.7003138	0.821449834
USP40	-0.022738195	-0.386902895	0.7003770	0.821449834
CD40	0.05497688	0.386060721	0.7008085	0.821832823
RAD21	0.017598684	0.385880099	0.7008655	0.821832823
NUDT3	-0.042797895	-0.385667621	0.7010218	0.821921172
ATP5F1B	0.033635677	0.385273088	0.7013362	0.822194852
SIPA1L3	-0.01553203	-0.384971435	0.7016167	0.822428644
SRSF8	-0.033520865	-0.384005102	0.7022519	0.82295701
NFIB	0.067831992	0.383996994	0.7023767	0.82295701
EXOC6B	0.024107444	0.383850713	0.7024116	0.82295701
SETMAR	-0.029801729	-0.383782512	0.7024609	0.82295701
WDR89	0.039660113	0.384057276	0.7024728	0.82295701
RPL26	0.056105113	0.383988264	0.7025646	0.822969515
SEN2	-0.043881667	-0.384349656	0.70265	0.822974556
BOD1	-0.028623346	-0.383136745	0.7030475	0.823345123
WDR48	-0.023144812	-0.382791344	0.7032317	0.823465901
TMEM219	0.035129697	0.382679211	0.7034150	0.823571997

NINJ1	-0.074613846	-0.38361834	0.7034846	0.823571997
ERBB3	0.033137613	0.381867076	0.7038716	0.823930065
TJP2	-0.025283838	-0.381630797	0.7039994	0.823931881
CDC34	0.040827305	0.382032504	0.7040355	0.823931881
UBE2I	-0.019022707	-0.38134964	0.7042099	0.824040935
ARMCX3	0.048075902	0.381086171	0.7044666	0.824245624
HLTF	0.031682816	0.380762834	0.7046408	0.824355086
MNAT1	-0.019037132	-0.380108111	0.7052665	0.824991471
CDK1	0.053898684	0.37985325	0.7054518	0.825108361
LLGL2	-0.036547744	-0.379779759	0.7055695	0.825108361
DEGS1	0.082772368	0.379986419	0.7056099	0.825108361
PSME4	0.023782256	0.380267222	0.7057835	0.825179489
MME	-0.065312763	-0.379670459	0.7058945	0.825179489
TXNDC16	-0.029751917	-0.379355368	0.7059917	0.825179489
FBXO30	-0.025091045	-0.378936572	0.7059959	0.825179489
FOPNL	-0.037660679	-0.379249202	0.7061018	0.825208258
MRPL52	0.045681278	0.378446495	0.7063874	0.825389611
IVD	-0.043426715	-0.378585328	0.7064196	0.825389611
CHCHD6	0.034041109	0.378192427	0.7066636	0.825556993
JUNB	-0.035681786	-0.378008286	0.7067255	0.825556993
NEK3	0.041175789	0.377959806	0.7068456	0.825601478
TDRD3	0.016059211	0.377328357	0.7072349	0.825779183
MAPK1	0.029824305	0.3776548	0.7072585	0.825779183
ARF6	0.037500075	0.377662702	0.7073205	0.825779183
PEX11B	0.043237707	0.377149054	0.7073225	0.825779183
SVEP1	-0.045663575	-0.37711405	0.7074445	0.825787905
ACTR1B	-0.020266617	-0.376906964	0.7074927	0.825787905
ELF4	0.047294737	0.376685764	0.7077698	0.826016271
DGKA	-0.041041466	-0.376746902	0.7078675	0.826034895
GOLGA3	-0.023362387	-0.376101747	0.7081649	0.826247726
NEDD8	0.124360119	0.377028447	0.7082125	0.826247726
FUT8	0.049802218	0.375851813	0.7084082	0.826381325

LYPLAL1	-0.096265977	-0.375889667	0.7086200	0.826511571
YTHDC2	0.0355382	0.376016263	0.7088034	0.826511571
ACTR8	-0.016192895	-0.374983	0.7089655	0.826511571
SPR	0.04529594	0.374844513	0.7090201	0.826511571
FZD6	0.044089962	0.374997599	0.7090438	0.826511571
RPL28	-0.056758835	-0.374926804	0.7090956	0.826511571
FAM219A	0.031363071	0.374937897	0.7091301	0.826511571
RTEL1	-0.051273939	-0.375297374	0.7092136	0.826511571
DMTN	-0.042558778	-0.374354759	0.7093781	0.826511571
USF1	0.021021085	0.374518279	0.7093861	0.826511571
H2BU1	0.083863346	0.374814436	0.7094156	0.826511571
ANOS1	0.064566987	0.374826479	0.7095132	0.826530462
NDUFAF3	0.034941541	0.373302174	0.7102319	0.827245098
SEC24B	-0.016804444	-0.373336608	0.7102891	0.827245098
KIF18B	0.111548566	0.374316336	0.7103766	0.827251399
CISD3	0.050695376	0.372856793	0.7109321	0.827803992
TNFRSF21	0.043595859	0.372776274	0.7111691	0.827898178
RAP2B	0.042376429	0.3718117	0.7112715	0.827898178
RAB4B	-0.026743459	-0.371798283	0.7113194	0.827898178
ZFP3	-0.08717166	-0.372958403	0.7113399	0.827898178
GPBP1L1	0.037195609	0.371527804	0.7116591	0.828145474
ARL 3.00	0.041606579	0.37123636	0.7117155	0.828145474
MAN2A2	0.031674154	0.37106565	0.7119964	0.828377374
SRGAP3	-0.036973763	-0.370592544	0.7122816	0.828614163
TMEM59	0.045603835	0.370924589	0.7124858	0.828756728
ARHGEF40	-0.029710301	-0.370208975	0.7125890	0.828781766
STARD3NL	0.038141514	0.369866989	0.7128035	0.828936261
TRMT10A	-0.033522269	-0.369412556	0.7130439	0.829101736
THG1L	0.02400782	0.369407468	0.7132686	0.829101736
CHMP1A	-0.022503835	-0.369074641	0.7132932	0.829101736
KDM2A	-0.017406761	-0.369326082	0.7133621	0.829101736
ANK3	0.030628158	0.368980868	0.7133920	0.829101736

TMEM165	0.055805827	0.368974538	0.7134359	0.829101736
HSCB	0.03035094	0.369539554	0.7135310	0.829117307
NMNAT1	0.028748308	0.368378574	0.7142296	0.82967938
CUL2	0.016295508	0.367985335	0.7142407	0.82967938
PELO	-0.017962256	-0.367828948	0.7142599	0.82967938
EXT1	-0.028659662	-0.367661181	0.7143531	0.829692721
TIFA	-0.039064214	-0.367432044	0.7145099	0.82977938
SCUBE3	0.088681863	0.368997569	0.7147454	0.829787989
HCCS	-0.029119812	-0.367122181	0.7147510	0.829787989
TAF10	0.022051053	0.36718692	0.7147747	0.829787989
BAG6	0.017648158	0.367419307	0.7148439	0.829787989
FABP6	-0.089466667	-0.36685277	0.7153249	0.830250864
PPFIA1	0.017098214	0.366069832	0.7156412	0.830523537
SEN5	0.040703325	0.366603197	0.7162533	0.831138863
KIAA1191	-0.028761617	-0.364855586	0.7164539	0.831200731
TBC1D15	-0.020169053	-0.364849693	0.7164704	0.831200731
RFX5	0.021682857	0.365107691	0.7166463	0.831309768
SMIM13	-0.05787497	-0.365625942	0.7174707	0.832125887
PRXL2C	-0.037944248	-0.363931722	0.7175138	0.832125887
TUBGCP4	0.02160688	0.363046629	0.7178367	0.832263038
FHL2	-0.053628534	-0.362922248	0.7178722	0.832263038
DHRS1	0.050825451	0.363763787	0.7179406	0.832263038
GLRX3	-0.02769594	-0.363134137	0.7180021	0.832263038
ALG2	-0.027962857	-0.362509044	0.7181752	0.832263038
COX6B1	0.036734342	0.362284654	0.7183556	0.832263038
TRIM56	-0.013351861	-0.362252675	0.7184289	0.832263038
ARL5B	0.026796333	0.362586972	0.7185558	0.832263038
OXR1	0.047605451	0.362109002	0.7185716	0.832263038
SERPINA5	-0.124793985	-0.362235602	0.7186612	0.832263038
EIF5	-0.019739173	-0.361791203	0.7187000	0.832263038
FAM89B	-0.040647073	-0.362192387	0.7187197	0.832263038
STMN2	0.059314004	0.36171048	0.7188681	0.832263038

ASF1B	-0.046967256	-0.361704511	0.7188875	0.832263038
FMN1	0.040011466	0.361495686	0.7189310	0.832263038
DHX33	0.023590034	0.361666184	0.7190701	0.832263038
CHCHD5	-0.074425207	-0.361313431	0.7190864	0.832263038
ZNF821	0.065800643	0.362763453	0.7191080	0.832263038
TECPR2	-0.024047989	-0.361045666	0.7192897	0.832378443
CD5L	-0.065012368	-0.360888493	0.7194835	0.832448224
OAS1	-0.067367857	-0.360717603	0.7195574	0.832448224
EIF3J	0.025094632	0.361303132	0.7195961	0.832448224
SURF2	0.032254248	0.359652818	0.7203500	0.833112337
PDCD4	0.036319019	0.359567832	0.7203541	0.833112337
COBLL1	-0.03501656	-0.359411234	0.7204827	0.833112337
ZNF397	-0.038386278	-0.359504035	0.7204985	0.833112337
MED26	0.055639869	0.359770383	0.7206935	0.833112636
ATP9B	0.026044523	0.359080036	0.7207175	0.833112636
DDX55	-0.020823694	-0.359067188	0.7207495	0.833112636
TTC33	0.026624361	0.358936982	0.7208271	0.833112636
CREB3L4	0.046401495	0.359554571	0.7210110	0.833230332
FAM98A	-0.023802823	-0.358246354	0.7213435	0.833519687
FKBP7	0.047030883	0.35809232	0.7214685	0.833569719
RPL12	0.019179801	0.358187881	0.7217936	0.833849898
ANKHD1.EIF4	-0.030481673	-0.357616411	0.7219685	0.833957557
SH3GLB1	0.029186919	0.356950527	0.7223120	0.834258936
PKD2	-0.02780044	-0.357022135	0.7224135	0.834281249
PI4KB	0.02403965	0.356730922	0.7227165	0.834536181
E4F1	0.024718529	0.356353739	0.7229605	0.834715249
GK5	-0.056104769	-0.357733986	0.7230361	0.834715249
MAU2	-0.021565695	-0.355396225	0.7235204	0.835179437
LOC391322	0.044984323	0.354924974	0.7238337	0.835218324
BLZF1	-0.022983722	-0.35483171	0.7238965	0.835218324
SDHA	-0.023788289	-0.355043548	0.7239254	0.835218324
RRM2	0.041824737	0.35492659	0.7240655	0.835218324

AIFM1	-0.052293158	-0.354818619	0.7240759	0.835218324
CSTF2T	0.026097453	0.354528317	0.7241121	0.835218324
GPLOW	-0.01834218	-0.354548049	0.7241301	0.835218324
CCT8	-0.018203195	-0.354281489	0.7242954	0.835314068
MED25	-0.018913137	-0.35419487	0.7245933	0.835535175
STXBP1	-0.071275846	-0.354034952	0.7246518	0.835535175
SKP2	-0.042214079	-0.354539151	0.7248182	0.83554803
EVPL	0.057274812	0.353913064	0.7248276	0.83554803
AP1S3	-0.055132519	-0.352038435	0.7259934	0.836603847
HLA.DMA	-0.080508045	-0.351989454	0.7260701	0.836603847
CLDN12	0.095361905	0.352537863	0.7260842	0.836603847
TATDN1	-0.025256955	-0.351832692	0.7261359	0.836603847
GYS2	0.027387763	0.351835959	0.7261556	0.836603847
BIRC6	0.016709135	0.351965507	0.7262573	0.836626022
GNPTG	-0.036129135	-0.351855284	0.7263861	0.836679515
ACSS2	0.032620793	0.351413995	0.7270423	0.837340232
KCTD21	-0.030879023	-0.350439666	0.7271782	0.837399909
THUMPD1	0.028882707	0.350380274	0.7272591	0.837399909
YOD1	0.036436109	0.350209069	0.7273473	0.837406756
SDCBP2	0.057800789	0.350040714	0.7275863	0.837586911
HNRNPA3	0.023205752	0.349427474	0.7279209	0.837876821
BOLA1	0.033667707	0.349087362	0.7281846	0.837944123
UXS1	-0.038042406	-0.349058265	0.7282001	0.837944123
COLEC12	-0.066406541	-0.349016728	0.7283088	0.837944123
ACD	-0.036860514	-0.34952679	0.7283096	0.837944123
ZDHC7	-0.041933056	-0.348052581	0.7291151	0.838775777
KLHL36	-0.028866241	-0.347610454	0.7293303	0.838801044
CREB5	0.038672538	0.34754206	0.7294323	0.838801044
DCP1A	0.016054759	0.347511128	0.7294491	0.838801044
BRD8	0.017222218	0.347356469	0.7294676	0.838801044
ZNF512B	-0.048622425	-0.347397069	0.7296353	0.838898827
POLG2	-0.035209699	-0.347362958	0.7297739	0.838944127

KBTBD6	-0.03025594	-0.34697838	0.7298495	0.838944127
LDHB	0.04255928	0.347127455	0.7299227	0.838944127
KAT6A	0.023530244	0.346494337	0.7303017	0.839284024
INPP5F	0.031059028	0.345823026	0.7307777	0.839736658
YY1AP1	0.046606719	0.346159365	0.7309187	0.839801923
SAMD1	0.023164854	0.345393551	0.7309999	0.839801923
MAP3K20	-0.039444812	-0.344829337	0.7313569	0.840097109
ND4	0.043323947	0.344825716	0.7314224	0.840097109
ZNF597	0.033688487	0.345161883	0.7318290	0.840468993
CRYZ	-0.041365714	-0.344310281	0.7319134	0.840470865
B4GALT1	0.075343233	0.343763873	0.7321877	0.840601011
CES1	-0.125867707	-0.344587102	0.7321924	0.840601011
LDB2	-0.092222813	-0.343755051	0.7324442	0.84066097
RPL18A	0.043559643	0.343128354	0.7326567	0.84066097
HDDC3	0.042439248	0.343107444	0.7327297	0.84066097
R3HCC1	-0.027473402	-0.342973227	0.7327466	0.84066097
MEIS1	0.045711466	0.343136171	0.7327700	0.84066097
FCSK	-0.033196271	-0.343168212	0.7328247	0.84066097
PI3	0.139161278	0.343042249	0.7328244	0.84066097
FAM83D	-0.051756697	-0.343940987	0.7335414	0.841388343
PJA1	-0.038224624	-0.342763679	0.7336579	0.841417012
UBTD1	-0.045770658	-0.341885859	0.7337392	0.841417012
CA9	0.104714248	0.341553348	0.7338157	0.841417012
DR1	-0.022587688	-0.341446532	0.7339723	0.84150229
BMPR1B	0.053234793	0.341497236	0.7340910	0.841540688
SLC25A42	-0.057741667	-0.342419978	0.7342196	0.841540688
IMPDH2	-0.027234492	-0.340954872	0.7342546	0.841540688
LLGL1	0.028904511	0.340578496	0.7348257	0.842099478
GFAP	-0.102508889	-0.34438793	0.7350687	0.842283543
DDX54	0.032205827	0.340032726	0.7353043	0.842370767
RNF220	-0.021663961	-0.339548144	0.7353108	0.842370767
APBA3	-0.043375519	-0.339513607	0.7354268	0.842394966

MANBAL	0.067313195	0.340156053	0.7355437	0.842394966
PLD3	-0.044423308	-0.33951666	0.7355809	0.842394966
LIN54	-0.019923308	-0.338693302	0.7359719	0.842747711
BCAS2	0.021756774	0.338350014	0.7362097	0.842924848
SLC6A14	0.102417464	0.338465701	0.7364907	0.84312466
CNKSR3	0.036554699	0.338191569	0.7365664	0.84312466
IRGQ	-0.017755395	-0.337782813	0.7366334	0.84312466
CD74	0.061739474	0.337211	0.7371088	0.84356262
CNKSR1	-0.031340977	-0.337144876	0.7371823	0.84356262
TNRC6C	-0.032576353	-0.337016443	0.7373872	0.843659778
EIPR1	0.015726729	0.336908407	0.7374334	0.843659778
CCT3	-0.015801487	-0.336219512	0.7378061	0.843895336
CCDC80	-0.063759774	-0.336308434	0.7378413	0.843895336
VAV2	0.027674248	0.336192927	0.7378887	0.843895336
TNFRSF12A	-0.060636928	-0.335650626	0.7383387	0.844234973
UHRF1BP1	-0.018328947	-0.335553518	0.7384088	0.844234973
EDF1	0.020263806	0.335703043	0.7384352	0.844234973
NFATC3	0.021548571	0.335525474	0.7385759	0.844300694
DDI2	0.02241282	0.33508425	0.7387839	0.844443354
NRAS	-0.052214699	-0.335775872	0.7388928	0.844472737
HEBP2	0.037582143	0.334957358	0.7391733	0.844698227
RPL27	0.044886278	0.334521069	0.7392703	0.844713944
CTBP2	-0.037834605	-0.334428417	0.7393760	0.844739604
NUP43	0.025717575	0.334240895	0.7395404	0.844832324
INTS9	0.017655218	0.333308775	0.7400203	0.845241163
MARK3	0.016027744	0.333432737	0.7400648	0.845241163
CTNNBL1	0.016057594	0.333075892	0.7401657	0.845261125
SETD1B	0.024988203	0.333406686	0.7402694	0.845261125
PTGES	-0.080685863	-0.333171107	0.7403321	0.845261125
SUCLG2	0.040301391	0.332034436	0.7409651	0.845888665
MTF2	0.035848611	0.331849562	0.7413873	0.846275444
RBBP8	0.029310489	0.331264106	0.7415286	0.84634161

PLA1A	-0.088363542	-0.332935696	0.7418495	0.846612442
MECOM	0.034305639	0.330824167	0.7420989	0.846802094
ZRANB2	0.016937782	0.330211255	0.7423828	0.847030741
TMED8	0.025845093	0.330061941	0.7428304	0.847421238
SAP30BP	0.019009192	0.329462642	0.7428920	0.847421238
RAB4A	0.04186468	0.329242683	0.7431837	0.847568457
CACFD1	-0.041298713	-0.329464091	0.7431887	0.847568457
NDUFS6	-0.035158778	-0.329431465	0.7432826	0.847578799
BLOC1S5	0.018406015	0.32882599	0.7433647	0.847578799
TGFBR3	-0.049967154	-0.328230531	0.7439409	0.848140692
EEF1G	-0.024668365	-0.327926032	0.7441457	0.848278696
SYT17	-0.044535022	-0.328201682	0.7445349	0.848627745
CLDN7	0.041197556	0.327312704	0.7446936	0.848703105
ZNF654	0.028800721	0.327047927	0.7447685	0.848703105
HNRNPH3	-0.019521711	-0.327027519	0.7449009	0.848728721
MRPS26	0.029503433	0.326905502	0.7449580	0.848728721
SFSWAP	0.018361805	0.326664976	0.7451317	0.848831368
ANO9	0.057393187	0.326019218	0.7459369	0.849652796
SMAP1	-0.020646692	-0.325482065	0.7460419	0.84967708
NOTCH3	0.033079887	0.325224767	0.7462887	0.84986249
GPI	-0.028288647	-0.32307642	0.7477308	0.851409927
ATXN7L3	0.033292105	0.32299715	0.7479529	0.85156731
DCAF8	-0.031917857	-0.32295583	0.7481986	0.851751436
SFXN3	0.03352532	0.322408155	0.7484587	0.851876563
CKS2	-0.041209398	-0.322270822	0.7485137	0.851876563
MEAF6	-0.020184098	-0.321946648	0.7486009	0.851876563
SGMS1	0.034963562	0.321916648	0.7486442	0.851876563
GLB1L	-0.04972433	-0.323396035	0.7487819	0.851937282
TEPSIN	-0.018287914	-0.321402634	0.7489694	0.852055576
MRPL42	0.036609643	0.321285717	0.7491669	0.852184773
SPAG5	0.033123684	0.32094829	0.7494124	0.852348927
TFCP2L1	-0.074325464	-0.32169943	0.7494792	0.852348927

MAN1A1	0.031244361	0.320625811	0.7496436	0.852422872
NCAPD3	0.027461654	0.32062273	0.7497286	0.852422872
NR2C2AP	0.020813853	0.320364069	0.749796	0.852422872
CGNL1	-0.038479651	-0.32033468	0.7498969	0.852441916
UNC119	-0.026090526	-0.319801165	0.7504206	0.852941395
TBC1D12	-0.049474707	-0.320339499	0.7506354	0.853090285
DIXDC1	-0.040518842	-0.320692328	0.7507679	0.853145378
POLK	-0.019529699	-0.31894155	0.7509184	0.853220947
CCNH	0.028764211	0.31871786	0.7510115	0.85323112
GTF2B	-0.016892556	-0.318491769	0.751228	0.853381775
MIEF1	-0.021541173	-0.316748359	0.752491	0.854720849
ACYP2	0.047599436	0.315335123	0.7537359	0.855990889
CD5	-0.060872619	-0.315379234	0.7537779	0.855990889
POLR3B	-0.0131095	-0.314146367	0.754511	0.85658648
SSH2	-0.022474816	-0.313894693	0.7546306	0.85658648
VPS35	-0.014607064	-0.313989542	0.7546342	0.85658648
SS18	-0.02254156	-0.314032076	0.7546406	0.85658648
CMC4	-0.031639211	-0.313742372	0.754776	0.856645871
MRM2	-0.036216667	-0.314995988	0.7548769	0.856663339
TRPS1	0.029163684	0.312877927	0.7554129	0.857176206
GIPC2	0.052368797	0.311624458	0.7563899	0.858188428
NAA15	0.016177759	0.311405321	0.7565116	0.858212826
SLC2A3	-0.054408555	-0.311691666	0.756580	0.858212826
GOLGB1	0.026202406	0.311263146	0.756795	0.858361531
KIN	-0.019094098	-0.311332787	0.7568889	0.858370547
PAIP2	-0.03055594	-0.309764631	0.7577979	0.859305425
PDCD2L	-0.023984774	-0.309573504	0.7580089	0.859449352
PSMA4	0.015520278	0.308565776	0.7587299	0.860170781
TRIM29	0.086932707	0.308399216	0.7588644	0.860227182
TTPAL	0.023812932	0.308406524	0.7590416	0.860315767
CDC27	-0.013652951	-0.30836886	0.759112	0.860315767
GSTM1	0.150550564	0.307946561	0.7592129	0.860333543

ITGA4	0.037543045	0.307669983	0.7598986	0.861014917
TIGAR	-0.022096165	-0.306817917	0.7602356	0.86126253
ELAVL1	-0.015997086	-0.306411435	0.7602869	0.86126253
MSL1	0.036023195	0.306616015	0.7604644	0.861367541
SALL1	0.033979342	0.305674338	0.7610075	0.861886267
TUT4	-0.017657387	-0.305249783	0.7614021	0.862177161
HACE1	0.036610526	0.304927682	0.7614340	0.862177161
TRAPPC3	-0.01391203	-0.30459172	0.7616654	0.862327969
ENTPD7	-0.071390714	-0.306090231	0.7617371	0.862327969
RBM14	0.014844842	0.303914053	0.7621970	0.862752328
DESI1	-0.029678118	-0.303774411	0.7624931	0.862990411
SLC35A1	-0.039052391	-0.303452101	0.7626128	0.862990411
RPL22	0.034292105	0.303726089	0.7626624	0.862990411
TARDBP	0.014815564	0.302866595	0.7629859	0.863260211
ENC1	-0.03732497	-0.30275444	0.7631619	0.863301806
SHB	0.031210169	0.302701975	0.7631928	0.863301806
ILF2	-0.01541938	-0.302576124	0.7633233	0.863353284
SIRT5	0.020808235	0.30136469	0.7641841	0.864203815
CENPL	0.048649845	0.302862543	0.7642456	0.864203815
CHAC2	0.029742707	0.301079415	0.7644825	0.864288985
BAP1	0.015561523	0.300706243	0.7646139	0.864288985
ZNF888	0.044547953	0.302481278	0.7646536	0.864288985
ATF1	0.021057575	0.300651898	0.7646615	0.864288985
AMOTL2	-0.03563797	-0.301012997	0.7648269	0.864379612
CTDP1	-0.018110945	-0.30065052	0.7650297	0.864512555
MORF4L2	0.020737256	0.300389412	0.7651465	0.864548306
RAD9A	0.027924658	0.30033276	0.7652928	0.864615881
ARMC1	-0.016259662	-0.299793443	0.7653767	0.864615881
HOOK1	-0.020691917	-0.299004324	0.7659091	0.865121011
ARL14EP	0.017628985	0.298350465	0.7664764	0.86566548
ITGA2B	-0.058576731	-0.297995729	0.7666990	0.865820588
ETV6	0.026095414	0.297965751	0.7668272	0.865869068

NDUFV3	-0.024760733	-0.297838258	0.7669509	0.865894237
WIPF2	-0.015560996	-0.297655128	0.7670202	0.865894237
GRTP1	-0.027385263	-0.297365914	0.7672704	0.866080389
PBK	0.043741748	0.297018634	0.7675020	0.866245508
PQBP1	0.015265056	0.296882133	0.7676679	0.866293225
POLR2G	0.015162632	0.296713794	0.7677150	0.866293225
HMGH3	0.043473947	0.296423607	0.7678950	0.866400082
PHPT1	-0.027038609	-0.296494274	0.7680512	0.866479955
FARSA	-0.01846782	-0.296032294	0.7683198	0.866686679
NUP133	-0.012094041	-0.295245964	0.7688253	0.867094584
CTDNEP1	0.025706807	0.295464029	0.7688523	0.867094584
RIPK2	-0.032759774	-0.294877371	0.7690574	0.867133889
CHTF8	-0.044475	-0.295843287	0.7690580	0.867133889
CHMP6	-0.018169173	-0.29485826	0.7691519	0.867143421
MFSD4B	-0.033119398	-0.294091022	0.7697084	0.867674415
FCGR1A	-0.048068153	-0.293793009	0.7700609	0.86791253
IGF2BP3	0.080039286	0.294318855	0.7700900	0.86791253
FAM162A	0.050873816	0.293054084	0.7704430	0.86816147
ANXA3	-0.042107011	-0.293066952	0.7705108	0.86816147
TYMS	0.035389823	0.293162975	0.7706043	0.86816147
RAP1GAP	0.038928947	0.292953258	0.7706536	0.86816147
FBR3	-0.020543419	-0.292888644	0.7707394	0.868161793
MANF	0.038239098	0.292408886	0.7709226	0.868271717
NOTCH1	0.026140226	0.292439262	0.7710401	0.868307752
PIN4	0.022269977	0.292196616	0.7713014	0.868505618
POLR2K	0.020094398	0.291589887	0.7715950	0.868739855
LY6D	-0.119589697	-0.291924335	0.7717112	0.868774331
KHDC4	0.014053553	0.290779006	0.7722383	0.869271314
CDK11A	-0.020430977	-0.290402886	0.7724517	0.869415041
POLE4	0.031305188	0.290000085	0.7728503	0.869759901
MCAM	0.043880677	0.290135065	0.7729294	0.869759901
SHOC2	0.013196353	0.289664029	0.7730390	0.869781799

SLC12A2	0.052546391	0.289519042	0.7731205	0.869781799
TFPI2	0.07136891	0.289637018	0.773546	0.870115686
GCSH	0.032681429	0.288919335	0.773588	0.870115686
RNF214	-0.016907613	-0.288901442	0.773688	0.870131296
IREB2	0.02882515	0.288899863	0.7739814	0.870331931
ARNT	-0.01918736	-0.288374096	0.7740554	0.870331931
SMCHD1	0.020485688	0.288707365	0.7741238	0.870331931
LLPH	0.031655526	0.288415232	0.7742280	0.870352707
SERPINB4	0.144255769	0.288668748	0.774886	0.870975822
MAST2	-0.022248139	-0.287129383	0.7749539	0.870975822
LIPG	0.052746779	0.286809976	0.7759029	0.8719458
ARL6IP4	0.018700641	0.284994	0.7769608	0.873038001
C18orf32	-0.054078401	-0.284688896	0.7771418	0.873144733
PHRF1	-0.014443252	-0.283755996	0.7775430	0.873417579
UBE2C	0.034468609	0.283699778	0.777556	0.873417579
RNASEK	-0.049302813	-0.284487764	0.7778263	0.873548687
GTF2H4	0.014361241	0.283681473	0.777851	0.873548687
PPP6R2	-0.015355959	-0.283219091	0.7779316	0.873548687
SCYL2	-0.012833774	-0.283565057	0.7780433	0.873577446
SNX27	0.024288835	0.282930404	0.7782506	0.873713567
PLA2G7	-0.044684667	-0.283287553	0.7783543	0.873733326
ZNF827	0.017068158	0.282497432	0.778577	0.873843068
KMT2A	-0.015390492	-0.282300547	0.7786243	0.873843068
ZBTB43	-0.036149	-0.282658119	0.7791169	0.874112468
ALG13	0.021892376	0.282262589	0.7791175	0.874112468
TMEM263	0.024721579	0.281915007	0.779122	0.874112468
TBC1D10A	0.020783346	0.281525038	0.7792372	0.874144313
ESR1	-0.035790156	-0.281447679	0.7793608	0.874186373
GIT1	0.01464968	0.281267046	0.7795732	0.87425478
SELENOO	-0.02748588	-0.281085692	0.7796154	0.87425478
SNRNP35	-0.040266111	-0.281735399	0.7798115	0.87425478
PHGDH	0.047420451	0.280754836	0.7798128	0.87425478

FAM168A	-0.032213383	-0.280933545	0.7798802	0.87425478
TSR2	-0.023686466	-0.280643874	0.7799386	0.87425478
MRI1	0.034172556	0.280436751	0.7801771	0.874425598
PSAP	-0.032419613	-0.280037369	0.7803657	0.874484964
BOK	0.034465113	0.280072901	0.7804024	0.874484964
CRTC2	0.021046109	0.280135416	0.7805338	0.874535622
DIS3L	0.019154135	0.279848472	0.7806685	0.874589834
SH3BP5L	-0.027877444	-0.278959758	0.7813725	0.875217074
TTC28	-0.017310695	-0.278836931	0.7814007	0.875217074
MAPK13	0.024419737	0.27847253	0.7816641	0.875327169
ELP5	0.033581389	0.278917982	0.7816714	0.875327169
DUSP11	0.020798346	0.278246621	0.7818455	0.87542526
SMC3	0.015659927	0.277969813	0.7819486	0.87544439
ACAA1	-0.02782218	-0.277875418	0.7820998	0.875446209
ILVBL	0.026035019	0.277940438	0.7821227	0.875446209
TCF7L2	0.05048375	0.278304087	0.7824136	0.875674557
ERICH1	-0.026862556	-0.277079588	0.7827635	0.875970041
DDX50	-0.018306729	-0.276813124	0.7830225	0.876145216
RCOR1	0.016204887	0.276463739	0.7830925	0.876145216
TSPAN31	-0.042449944	-0.276454986	0.7832716	0.8762483
CSTF2	-0.011867634	-0.276099435	0.7833987	0.876294614
TSPAN6	0.039174023	0.27591258	0.7835138	0.876326734
ABI2	-0.02789662	-0.275669668	0.7837897	0.876538768
AACS	0.036176617	0.275367387	0.7839709	0.876644876
KMO	0.048149276	0.274914824	0.7844025	0.87703062
TRIM16	0.051264117	0.275024491	0.7845706	0.877121493
CWH43	-0.075610248	-0.274452534	0.7850331	0.877542543
GSTK1	-0.03075094	-0.274041258	0.7851756	0.877605206
RBM25	0.015014825	0.273502784	0.7853475	0.877677238
NBDY	0.015404925	0.273695339	0.7854296	0.877677238
CMTR1	-0.015904154	-0.27333848	0.7855727	0.877677238
ZNF430	-0.04713931	-0.274235074	0.7855859	0.877677238

AFG1L	0.025989662	0.273263979	0.7857887	0.877748945
KDM4B	-0.019147143	-0.272766906	0.7859446	0.877748945
ADGRA3	0.026695302	0.273504023	0.7859887	0.877748945
ARPIN	0.05252724	0.273177282	0.7859960	0.877748945
RFESD	-0.027024	-0.272657675	0.7860900	0.877757332
FAHD1	0.050698064	0.272532159	0.7862554	0.877845473
GSK3A	0.015891523	0.27208703	0.7865829	0.87803566
RNGTT	0.016627011	0.272019143	0.7865988	0.87803566
RBM18	-0.015682829	-0.27111523	0.7871797	0.878508639
SMIM20	0.030149357	0.271048584	0.7873299	0.878508639
SLC34A2	-0.04851682	-0.270888959	0.7873637	0.878508639
PCBP4	0.027791165	0.270870157	0.7874277	0.878508639
GPN1	0.014027932	0.270766067	0.7874559	0.878508639
CLCA4	0.085902424	0.270957418	0.7876369	0.878511205
TINF2	-0.021180008	-0.270483238	0.7876617	0.878511205
ALKBH6	-0.050695368	-0.271200008	0.7877172	0.878511205
FBXL7	0.098354762	0.271734321	0.7882206	0.878975982
EMSY	0.011132421	0.269479526	0.7884349	0.879039875
MT1F	-0.054543647	-0.269381819	0.7885238	0.879039875
AGPS	-0.033652632	-0.269283623	0.7885817	0.879039875
DDT	-0.030077368	-0.269119317	0.7887052	0.879039875
PIAS3	-0.03826586	-0.269529399	0.7887109	0.879039875
DMAC2	0.029115207	0.268960833	0.7888619	0.879111692
ZNF784	0.023946517	0.268869035	0.7892146	0.879195567
MOCS3	0.019526128	0.2683928	0.7893019	0.879195567
SREBF2	0.023485	0.270921911	0.7894048	0.879195567
KLHDC4	-0.024243962	-0.268298886	0.7894174	0.879195567
PWWP2B	0.020445816	0.268113139	0.7895192	0.879195567
PSMD5	0.01360403	0.268200159	0.7895210	0.879195567
RFFL	0.023671805	0.268050915	0.7895436	0.879195567
SECISBP2L	-0.018189286	-0.267537709	0.7901339	0.879755718
LATS1	-0.014025226	-0.266313244	0.7910136	0.880639289

TMEM189	-0.036393623	-0.266416148	0.7912865	0.88082087
TXNL4B	0.023284962	0.266022243	0.7913502	0.88082087
L3MBTL2	-0.020248951	-0.265180887	0.7917224	0.881138478
RFXANK	-0.020843947	-0.265207223	0.7920721	0.88143103
NUP50	0.012091045	0.264435873	0.7923034	0.881591773
GTPBP3	0.022663083	0.264627345	0.7926386	0.881836464
PLEKHB2	0.034610779	0.266160882	0.7927620	0.881836464
UBE2Q2	-0.023498226	-0.263899999	0.7927840	0.881836464
CLUH	0.021407519	0.263564029	0.7931018	0.881962058
CRY1	-0.031538283	-0.26424063	0.7931128	0.881962058
PHETA1	0.029302744	0.263318621	0.7931612	0.881962058
RBM39	0.015665207	0.263222372	0.7932444	0.881962058
FNIP1	0.016756398	0.263105651	0.7934281	0.882069672
CHRA1	-0.022695226	-0.262590666	0.7937474	0.882140779
STXBP6	0.03412782	0.262538755	0.7937491	0.882140779
SPINDOC	-0.022453203	-0.262769775	0.7937528	0.882140779
HDAC1	0.014823157	0.262260797	0.7939661	0.882281896
RNPC3	-0.012616053	-0.262036785	0.7941418	0.882379778
HOXB5	-0.037831971	-0.262205396	0.7944041	0.88257463
ZKSCAN4	-0.024724886	-0.261611146	0.7945081	0.882594215
SRRM2	0.011643071	0.26107873	0.7948852	0.882865042
PRMT2	0.029213177	0.26130411	0.7949264	0.882865042
PISD	-0.02330109	-0.260975595	0.7950191	0.882871371
MYO19	-0.0183301	-0.260384701	0.7954852	0.883292297
TRUB1	0.017766669	0.259615508	0.7959946	0.883761241
HMBS	-0.019943741	-0.258900878	0.7965775	0.884311688
CSNK2B	-0.013982876	-0.258795872	0.7967419	0.884397535
ATF7	0.016372143	0.258595604	0.7969658	0.88454926
SEPSECS	-0.015044549	-0.258183868	0.7971273	0.884631837
RGP1	-0.019778985	-0.258110604	0.7976376	0.885017227
TATDN2	-0.01944265	-0.257667009	0.7976490	0.885017227
SPHK2	0.021141855	0.256154927	0.7987062	0.886093393

COQ7	0.023069962	0.255924969	0.7989082	0.886219528
MCEE	0.026844571	0.255914112	0.7989945	0.886219528
C3orf38	-0.013816917	-0.255145245	0.7997439	0.886953786
PRKACG	0.052477506	0.254496776	0.8000615	0.887209051
MAP2K3	-0.015304305	-0.254204773	0.8001527	0.88721329
LYPLA2	-0.016329135	-0.253171082	0.8009644	0.888016327
DUS1L	0.017176264	0.252982459	0.8011490	0.8881239
TSPYL1	-0.01740609	-0.252527566	0.8016157	0.888543629
ACIN1	0.010616306	0.25213935	0.8017710	0.888619397
PLEKHG4B	0.033144656	0.252482392	0.8019100	0.888676387
PSMC3	0.011467406	0.251742103	0.8021672	0.888824467
ACAT1	-0.029317951	-0.25174304	0.8022188	0.888824467
TCP11L1	-0.019854643	-0.251120166	0.8025479	0.889054272
CSGALNACT2	-0.028691571	-0.251505827	0.8026014	0.889054272
SLC12A4	-0.02319906	-0.250510148	0.8030722	0.889478738
LRRC47	0.010966617	0.250088971	0.8033233	0.889659808
MSTO1	-0.026770677	-0.249377769	0.8039133	0.890216105
RAD18	-0.02374767	-0.249865382	0.8040667	0.890288164
GOPC	0.017876917	0.249125434	0.8041797	0.890316753
IL13RA1	0.033792551	0.249372867	0.8043037	0.89032276
FBXO38	-0.011938835	-0.248898378	0.8043609	0.89032276
HELB	-0.035848772	-0.249702084	0.8044718	0.890348851
JUN	-0.023037378	-0.248375564	0.8047775	0.890590028
RPS6	-0.041815959	-0.248321473	0.8050243	0.890670773
ICE2	-0.017153421	-0.247899277	0.8050822	0.890670773
PDS5B	-0.017934887	-0.247769493	0.8051137	0.890670773
P3H3	0.031308271	0.247965595	0.8052982	0.890777775
TFIP11	-0.016361015	-0.247355958	0.8055235	0.890917662
CIC	-0.015813244	-0.247350779	0.8056002	0.890917662
CSF1	0.070733333	0.248395848	0.8057394	0.890974555
FMNL3	-0.028458929	-0.246822491	0.8061484	0.891329699
VAV3	-0.021524286	-0.24610525	0.8067609	0.891884218

UFC1	-0.033014511	-0.245432807	0.8069487	0.891884218
TBC1D14	-0.033941389	-0.246356877	0.8069936	0.891884218
ITGB1BP1	-0.030902665	-0.246198067	0.8070626	0.891884218
TYSND1	0.021760094	0.245516248	0.8071354	0.891884218
MRPL28	0.027271992	0.245176918	0.8071777	0.891884218
LOXL1	0.038695602	0.244492577	0.8076626	0.892309052
ATG3	0.020058271	0.244527878	0.8077374	0.892309052
CMBL	0.025162425	0.24464019	0.8078725	0.892361105
PHAX	0.014370021	0.24407539	0.8080016	0.892406565
ANAPC13	-0.077211858	-0.243914499	0.8082778	0.89251848
BCL2L12	-0.031631333	-0.244027094	0.8082788	0.89251848
ANKRD16	-0.023159154	-0.243589404	0.8085097	0.892597144
HAUS8	-0.017293985	-0.243416124	0.8085278	0.892597144
DGLUCY	-0.051548872	-0.243350776	0.8086138	0.892597144
TBCC	-0.012542632	-0.243102276	0.8088007	0.89270635
HNRNPF	-0.018315692	-0.242365432	0.8093254	0.893188343
ALDH1B1	-0.042216686	-0.241559237	0.8099038	0.893729503
SAXO2	-0.08761014	-0.243956213	0.8106112	0.894311289
SMC5	0.025689662	0.24096683	0.8106232	0.894311289
EIF2AK2	-0.018550853	-0.240727547	0.8106955	0.894311289
CFDP1	-0.01843906	-0.240304675	0.8108737	0.894410808
MAGIX	-0.025455417	-0.239877608	0.8117392	0.895164519
DIS3L2	-0.016987556	-0.239184576	0.8117455	0.895164519
TADA1	-0.013417019	-0.239234084	0.8118216	0.895164519
WDR91	-0.010961214	-0.238791746	0.8120375	0.895305186
INPP5A	-0.02143903	-0.238405927	0.8123288	0.895529234
SEPTIN10	-0.026753195	-0.238136082	0.8125369	0.895565402
GEMIN8	-0.018209662	-0.238200077	0.8125487	0.895565402
MIEN1	-0.016737932	-0.238261655	0.8126263	0.895565402
ZSCAN31	-0.02078203	-0.237781706	0.8128848	0.895746719
SIK2	0.027054291	0.237712204	0.8129675	0.895746719
RPL4	-0.041618195	-0.237373297	0.8133274	0.896046164

TBC1D16	-0.01585	-0.236876989	0.8136604	0.896315756
AP1G1	0.014602786	0.236314799	0.8139969	0.896589103
SS18L2	0.026132759	0.23635145	0.8142166	0.896689994
RPL7A	0.033934586	0.236197917	0.814265	0.896689994
GFM2	-0.021616372	-0.235053786	0.8150858	0.897310787
MXRA5	0.033808177	0.234842432	0.8151029	0.897310787
ATOX1	-0.018463158	-0.234784642	0.8151487	0.897310787
HS6ST1	0.021097462	0.234721483	0.8151962	0.897310787
RABGAP1L	0.019380414	0.234851118	0.8152709	0.897310787
CSAD	-0.038212471	-0.234127695	0.8157789	0.89777212
SCOC	-0.042826128	-0.233982964	0.8159602	0.897874769
NUDCD2	-0.01415507	-0.233559177	0.8160804	0.897909602
SAMD11	0.05765447	0.233683226	0.8163548	0.89811416
ETFA	-0.031606147	-0.232895931	0.8168344	0.898544452
NOS1AP	0.027843835	0.232105245	0.817320	0.898894017
SPARC	0.027789135	0.232011491	0.8173293	0.898894017
NRBF2	-0.021172594	-0.231794259	0.8174556	0.898895059
CCSER2	-0.015747068	-0.231775171	0.8175074	0.898895059
FBXW4	-0.02451916	-0.232144985	0.817898	0.89914488
WAPL	0.01823718	0.231189306	0.8179117	0.89914488
ZHX1	0.023024167	0.231143203	0.8180415	0.899190155
LARP4	-0.01514438	-0.230891802	0.818315	0.899257246
YJU2	-0.015274372	-0.23071915	0.8183476	0.899257246
WDR11	-0.009391842	-0.230591697	0.8183683	0.899257246
TTC37	0.011460526	0.22963425	0.8191417	0.899863816
PHC2	-0.016396523	-0.229463108	0.8192607	0.899863816
DNAJC7	-0.02295215	-0.229325418	0.819361	0.899863816
CARHSP1	-0.02093609	-0.229267799	0.8193975	0.899863816
SNX13	-0.024029619	-0.229332892	0.8194296	0.899863816
CPM	0.074641466	0.229215043	0.8194523	0.899863816
ZNF74	0.047563038	0.229379435	0.819591	0.89991891
PABPN1	-0.040906391	-0.228851691	0.819848	0.900103739

ATP5PF	0.022653383	0.228371088	0.8201367	0.900185123
C17orf75	-0.011761353	-0.228355727	0.8201490	0.900185123
MBLAC1	-0.028135305	-0.228287255	0.8202607	0.900185123
CALB2	-0.05450188	-0.228132635	0.8204284	0.900185123
ZDHHC2	0.048508967	0.228818137	0.8205159	0.900185123
HSPB11	-0.040688004	-0.227825368	0.8205878	0.900185123
ANKRD52	0.012468365	0.228336361	0.8206049	0.900185123
TCTN2	-0.026302054	-0.227856476	0.8206318	0.900185123
HFE	0.035081975	0.228812021	0.8207959	0.900267836
C18orf21	0.024828158	0.227537302	0.8209228	0.900309784
WFDC2	0.046443609	0.226995456	0.8212570	0.900498799
FAM172A	0.01318985	0.22700234	0.8212726	0.900498799
PAIP1	0.010965282	0.226691839	0.8214220	0.90056532
CTSB	-0.036446823	-0.226406772	0.8217080	0.90070953
PARK7	0.01341812	0.226294509	0.8218674	0.90070953
DDX19B	0.017721107	0.226051631	0.8219609	0.90070953
FAM122A	-0.024890789	-0.22614863	0.8219714	0.90070953
CPT1A	-0.031394361	-0.226226271	0.8219972	0.90070953
SMPD3	-0.049796617	-0.22452818	0.8230886	0.901808099
WDR5B	0.040867381	0.225267641	0.8232489	0.901886282
PODXL	-0.045735816	-0.223899011	0.8235528	0.902121856
PPP2R5E	-0.013615357	-0.224197776	0.8236788	0.902139687
DNAJC21	-0.01238985	-0.223697587	0.8237848	0.902139687
ANAPC5	-0.01034515	-0.223758039	0.8238357	0.902139687
YAE1	0.022047487	0.223573657	0.8239558	0.90217384
GZF1	0.019116242	0.223665714	0.8240534	0.902183434
GLOD4	-0.019745301	-0.223829554	0.8241452	0.902186618
ASCC3	-0.012767402	-0.223225052	0.8243070	0.90226638
PFAS	0.017498496	0.222867969	0.8245320	0.902316291
DIAPH3	-0.024638803	-0.222635833	0.8245827	0.902316291
NAF1	-0.017922744	-0.222536494	0.8246190	0.902316291
DPP7	0.039968835	0.222016778	0.8251502	0.902799954

NES	0.035698976	0.220765338	0.8260786	0.903718291
NAA40	0.020333256	0.220287836	0.8263596	0.903765381
CCSER1	-0.054478947	-0.221093744	0.8263640	0.903765381
CLIC3	0.044294737	0.220494819	0.8264495	0.903765381
SCMH1	0.027605968	0.220566548	0.8265570	0.903765381
COA5	-0.032608609	-0.220350155	0.8265968	0.903765381
PLOD2	0.02634188	0.219791826	0.8267446	0.903765381
SUGP1	0.013209398	0.219824876	0.8267777	0.903765381
TRMT13	-0.016376955	-0.219774463	0.8268340	0.903765381
U2AF1	0.030041353	0.219152641	0.8272537	0.904126766
MGST1	0.060716917	0.218981293	0.8275272	0.904328323
BANP	-0.030360414	-0.21886922	0.8276208	0.904333259
ADGRG1	0.031148383	0.218519379	0.8277269	0.904351867
SMG5	0.011557876	0.217690879	0.8283753	0.904962839
ABITRAM	0.016453441	0.217067611	0.8290066	0.90555501
N4BP2L2	0.013000977	0.216251239	0.8294860	0.905889492
AUTS2	-0.022626541	-0.216258698	0.8294913	0.905889492
BTN3A3	0.025796241	0.216020207	0.8297065	0.905957732
KLC1	0.012671767	0.215949567	0.8298447	0.905957732
SCAF8	-0.008498365	-0.215752539	0.8298673	0.905957732
PPWD1	0.010014917	0.215746041	0.8299108	0.905957732
RNF167	0.017582293	0.215501172	0.8301943	0.906169812
LTA4H	-0.013325635	-0.21511515	0.8305033	0.906409591
HDHD2	-0.016868211	-0.215006607	0.8306174	0.90643664
ALDH9A1	-0.024655357	-0.21482444	0.8307609	0.906495334
AR	-0.028781955	-0.214483259	0.8309454	0.906599571
GON7	-0.019175846	-0.214188116	0.8310889	0.906658782
NME4	0.027649173	0.214108377	0.8311956	0.906677697
CALR	-0.018301128	-0.213800466	0.8313830	0.906784691
EIF1AD	0.029753622	0.213708723	0.8315615	0.906881883
ZBED5	-0.026062782	-0.213665334	0.8317162	0.906953176
PLEKHA4	-0.026015301	-0.213302742	0.8318393	0.90698997

EEF2KMT	0.037650045	0.213592268	0.8321675	0.907250166
CLK1	-0.03754608	-0.212950195	0.832272	0.907258478
MZT2B	-0.009581259	-0.212564658	0.832353	0.907258478
ARL13B	-0.02401355	-0.212496333	0.8325506	0.907375632
PF4	0.05452225	0.212046973	0.8328936	0.907563836
PTPRU	0.031302259	0.212063187	0.8329434	0.907563836
TAF5	0.010855865	0.211763789	0.8329915	0.907563836
INVS	-0.058926667	-0.211625809	0.8332755	0.907775765
CLCN7	-0.017391654	-0.210733401	0.8338026	0.908251809
MIPOL1	-0.022707708	-0.210955805	0.8342345	0.908625494
ERAP1	0.026894474	0.209805419	0.8346538	0.908780031
SULF1	0.038364023	0.209581369	0.8346812	0.908780031
ENY2	-0.017098269	-0.209779857	0.8347416	0.908780031
HOXB4	-0.044006579	-0.209506177	0.8347505	0.908780031
MCFD2	0.023164361	0.209668229	0.8348241	0.908780031
UBE3B	-0.010207218	-0.20956699	0.8349204	0.908787459
CHMP7	0.012374511	0.208890573	0.8352039	0.908998458
MTG2	0.020308564	0.208670584	0.8354438	0.909009285
EIF2S2	-0.013182722	-0.208580107	0.8354565	0.909009285
GINS4	-0.027533402	-0.208548406	0.8354825	0.909009285
SCRN3	-0.015037425	-0.208154637	0.8357699	0.909224534
AFTPH	0.011036617	0.208070477	0.8359588	0.909332586
THUMPD3	-0.011745745	-0.207536405	0.8363244	0.90953874
ANXA9	0.04411562	0.207452948	0.8364204	0.90953874
HTT	-0.008585695	-0.207170605	0.8365348	0.90953874
OSBPL7	0.016751212	0.207146683	0.8366189	0.90953874
NOA1	0.026143271	0.20717695	0.8366424	0.90953874
STXBP5	0.019403985	0.207153742	0.8367575	0.90953874
HUS1	-0.013329361	-0.206726583	0.8370711	0.90953874
NAA10	-0.011713305	-0.206290473	0.8372412	0.90953874
HOXB6	-0.029681733	-0.206385572	0.8372438	0.90953874
SEMA4B	-0.022151391	-0.20637964	0.8372574	0.90953874

VPS36	-0.013325876	-0.206306644	0.8372655	0.90953874
EEF2	-0.009630695	-0.206169888	0.8373333	0.90953874
POLR2E	-0.008909992	-0.206195103	0.8373885	0.90953874
NR2F1	0.038517444	0.206263793	0.8374029	0.90953874
HAUS7	0.014925808	0.205848135	0.8377462	0.909659001
ALAS1	-0.02341594	-0.20569063	0.8377621	0.909659001
USP28	-0.013056203	-0.205763711	0.8377824	0.909659001
HIBCH	0.031828252	0.204940124	0.8383554	0.910183734
ARID4A	0.011509023	0.204375186	0.8387411	0.910505134
MVB12A	-0.024242481	-0.204088386	0.8389997	0.910595929
TOR4A	0.031384662	0.204334811	0.8390408	0.910595929
KIAA0753	-0.023378008	-0.203756735	0.8392042	0.910595929
MTHFD2L	0.037878624	0.203817288	0.8392253	0.910595929
CSNK1G1	0.017773647	0.203702365	0.8392733	0.910595929
CLOCK	0.012164154	0.202891376	0.8398767	0.911130493
TMEM51	0.03929	0.202853353	0.8399456	0.911130493
TIMP1	0.041651992	0.202629469	0.8400795	0.911169445
COG1	0.016112368	0.202640129	0.8401616	0.911169445
CDC42BPA	-0.021257218	-0.202111201	0.8406085	0.911397519
ACBD3	-0.01821656	-0.202149192	0.8406273	0.911397519
FBXL3	-0.022309758	-0.202444737	0.8406407	0.911397519
WASHC2A	0.016635293	0.201186877	0.8412219	0.911930262
MYL6B	0.01941297	0.201116564	0.8413724	0.911995942
THOC5	-0.01442688	-0.200917473	0.8414664	0.912000502
ZNF32	-0.026832143	-0.200754051	0.8418181	0.912284225
CPSF4	0.011477707	0.200133909	0.8420179	0.912291877
SNF8	-0.011570038	-0.200086816	0.8420766	0.912291877
RXYLT1	-0.023038534	-0.200052964	0.8422254	0.912291877
C12orf29	-0.014824041	-0.199920724	0.8422675	0.912291877
CYP2J2	0.055799639	0.199767243	0.8423651	0.912291877
FAM174B	0.040775075	0.199745007	0.8423709	0.912291877
LRP1	-0.024859171	-0.19964581	0.8424543	0.912291877

TRIT1	0.016896147	0.199385382	0.8425978	0.912349966
MTMR10	-0.018425902	-0.199225978	0.8429636	0.912648614
METTL2B	-0.021332895	-0.198564625	0.8435308	0.913127664
RANBP17	0.03396903	0.198822767	0.8435860	0.913127664
KLHL9	0.022617896	0.198421042	0.8436851	0.913137555
UBA2	0.009720827	0.197483154	0.8441163	0.913450017
BLM	0.01749124	0.197462355	0.8441538	0.913450017
NCAM1	0.045456504	0.197035442	0.8444844	0.913616207
FCGR2A	-0.045233272	-0.197175977	0.8444874	0.913616207
CPS1	-0.058035185	-0.197886367	0.8446170	0.913659045
ARL8A	0.019809737	0.19678054	0.8448296	0.913791657
ECD	0.014795226	0.196610746	0.8449892	0.913866878
ATP6V0C	0.038473291	0.196180243	0.8452384	0.913994789
KATNA1	-0.012480263	-0.195898855	0.8453433	0.913994789
EEF1A1	-0.011033421	-0.195874754	0.8454611	0.913994789
EIF3L	0.007501626	0.195773967	0.8454676	0.913994789
CARNMT1	0.013922838	0.195535608	0.8456430	0.914086995
GOLPH3L	-0.022691372	-0.195329888	0.8458837	0.914249872
TKTL1	0.032320741	0.195342432	0.8461480	0.914438088
LIMK1	-0.013296209	-0.194724824	0.8462857	0.914489563
SAP130	0.008865977	0.194103571	0.8467471	0.914819976
PTPRM	-0.028853515	-0.19421279	0.8467717	0.914819976
ACTR5	-0.009139357	-0.19388096	0.8468857	0.914845752
ZNF408	-0.021078	-0.194131371	0.8472489	0.915140635
UBE2J1	0.027218797	0.193214883	0.8474300	0.915238839
EEF1AKNMT	0.017653421	0.19282452	0.8477617	0.915499716
RPLP1	-0.018344812	-0.192673847	0.8480337	0.915683463
FMOD	0.044130639	0.192389931	0.8481123	0.915683463
TEDC1	0.035947521	0.192547755	0.8483236	0.915690413
PAIP2B	-0.033370103	-0.192263094	0.8483943	0.915690413
GPS1	-0.006910086	-0.191942682	0.8484456	0.915690413
HBG2	0.064135714	0.191842268	0.8484796	0.915690413

IDH3A	-0.018560226	-0.191245822	0.8490606	0.916220082
ACTR3B	-0.019935038	-0.190913015	0.8492592	0.916336877
FAM83H	0.016929323	0.190595787	0.8496711	0.916683879
VAT1L	0.04559868	0.1900434	0.8501492	0.917042596
CUX1	0.011792105	0.189670577	0.8501845	0.917042596
SH3PXD2A	0.018910789	0.189375261	0.8504114	0.917190167
WWC3	0.016465789	0.188825815	0.8509758	0.917460818
SDHD	0.034115725	0.189495275	0.8510019	0.917460818
TTLL12	-0.018307782	-0.188516215	0.8511198	0.917460818
SLC9A1	-0.016352632	-0.188384524	0.8511746	0.917460818
NF2	-0.008965846	-0.188562485	0.8511755	0.917460818
EFHD1	0.031170865	0.188477513	0.8512279	0.917460818
ATN1	-0.01613515	-0.18851543	0.8513007	0.917460818
SCYL1	-0.011973759	-0.188166468	0.8513855	0.917460818
ARPC1A	-0.01413218	-0.187556371	0.8518335	0.917846087
DNAJB1	0.012716391	0.186971826	0.8522902	0.918168585
ASMTL	-0.016608346	-0.186962534	0.8523135	0.918168585
RPF2	-0.037163519	-0.186777093	0.8526439	0.918211034
ZNF384	0.024984774	0.186530181	0.8526511	0.918211034
MTERF3	-0.019978423	-0.186583763	0.8528065	0.918211034
WDYHV1	-0.029864927	-0.186550667	0.8528591	0.918211034
RFC3	0.012363534	0.186173333	0.8529110	0.918211034
C17orf49	0.013753177	0.186235627	0.8529489	0.918211034
GUF1	0.016789286	0.186085069	0.8529865	0.918211034
DLST	0.022451316	0.185649584	0.8533536	0.918364853
AAR2	0.014102293	0.185681055	0.8534197	0.918364853
RBM38	0.036597009	0.186041668	0.8535791	0.918364853
FAH	0.019468647	0.185237337	0.8536420	0.918364853
TMA7	0.029338906	0.185447051	0.8536774	0.918364853
PTPMT1	0.018108722	0.185353033	0.8536892	0.918364853
SERPINA11	0.055083518	0.185436073	0.8537626	0.918364853
SERPINB3	0.090015977	0.184937402	0.8540091	0.918532687

TOP3B	-0.007078154	-0.184572308	0.8542066	0.918647717
NAXD	-0.015384248	-0.183959002	0.8546885	0.919068436
YDJC	0.01938528	0.183715171	0.8551917	0.919331699
ATP8A1	0.017320628	0.183286226	0.8552425	0.919331699
TXN2	0.018662823	0.183063839	0.8553664	0.919331699
GPS2	-0.009434549	-0.182846814	0.8554962	0.919331699
SGSH	0.02328062	0.182946628	0.8554979	0.919331699
DIPK1B	-0.029294229	-0.182973531	0.8555220	0.919331699
UBE2E3	0.040463684	0.182759729	0.8555672	0.919331699
KLK11	0.060568797	0.182713775	0.8557682	0.919331699
C1D	0.013054286	0.182434486	0.8558325	0.919331699
CDC40	-0.009231662	-0.182298697	0.8559327	0.919331699
PRCP	0.023840662	0.182306808	0.8560489	0.919331699
INHBA	-0.035098	-0.182171409	0.8560899	0.919331699
IST1	-0.011811353	-0.182232341	0.8561106	0.919331699
ATP8B1	0.020767669	0.181088425	0.8568927	0.919966685
POLI	0.014217594	0.181201303	0.8568990	0.919966685
METTL7B	0.034873198	0.181217642	0.8570050	0.919966685
EIF3K	-0.011165639	-0.180911818	0.8570645	0.919966685
C1orf116	-0.032271767	-0.180024661	0.8577158	0.920529644
GALNT7	-0.023761278	-0.179948667	0.8577703	0.920529644
DHFR	-0.021165639	-0.179292836	0.8583085	0.921009789
THBS2	0.040315414	0.178982018	0.8585719	0.921195065
RAB12	-0.012997481	-0.178504541	0.8588987	0.921417407
VPS52	0.006461786	0.178515486	0.8589702	0.921417407
CDK5RAP1	-0.015684677	-0.178603299	0.8590615	0.921417407
ATAD2	0.017635113	0.178394233	0.8591425	0.921417407
TRAM1	0.027180226	0.177964472	0.8593142	0.921435006
PNPO	-0.022060902	-0.17810315	0.8593496	0.921435006
EEPD1	-0.020122086	-0.1779176	0.8594845	0.921435006
DNAI2	-0.090239316	-0.180398454	0.8596352	0.921435006
ACADSB	0.022439474	0.177555605	0.8597777	0.921435006

FBXL2	0.024335417	0.178098802	0.8598139	0.921435006
CCT4	-0.007277481	-0.177267664	0.8598587	0.921435006
SPRYD3	-0.010873947	-0.177236155	0.8598849	0.921435006
RAD1	-0.012746372	-0.17683884	0.8601942	0.921669117
NUCKS1	0.036018308	0.176834507	0.8604207	0.921759705
SPTY2D1	-0.017964135	-0.176736388	0.8604604	0.921759705
ARF1	-0.081228571	-0.176558264	0.8606910	0.921909508
RPL34	0.032511466	0.17585049	0.8610828	0.922093295
NTHL1	-0.019309135	-0.175724788	0.8611230	0.922093295
ZNF565	0.02278279	0.175946729	0.8611352	0.922093295
WASF3	-0.028135278	-0.175554197	0.8614412	0.922323728
HLA.DRB5	-0.05850188	-0.174911175	0.8617792	0.922520345
HTRA2	-0.013437805	-0.175008358	0.8618066	0.922520345
KCMF1	0.009503647	0.174763385	0.8618992	0.922522117
MAFF	0.022791165	0.174547231	0.8620420	0.92256629
UXT	-0.011124233	-0.174367709	0.8622382	0.92256629
CRACD	0.02248391	0.174244219	0.8622717	0.92256629
FADS3	-0.036207033	-0.176222012	0.8623040	0.92256629
SMG9	0.008370453	0.173607886	0.8627595	0.922870085
PTPN23	0.006447406	0.173715099	0.8627698	0.922870085
REPS2	-0.011587406	-0.173458683	0.8628833	0.922894234
PYGO2	0.013871692	0.173054984	0.8631669	0.923100253
C2orf49	-0.009455451	-0.172820594	0.8634656	0.923322429
SEC13	-0.009006297	-0.172665164	0.8636316	0.92340268
POLD1	0.013425263	0.172335039	0.8638426	0.923530943
MARVELD1	0.025526504	0.172103136	0.8639668	0.92356647
YAP1	0.011383383	0.171766856	0.8642021	0.923720744
PITPNM2	-0.022803302	-0.171850434	0.8644300	0.923776717
RNF7	0.023971786	0.171654629	0.8644365	0.923776717
ANAPC7	-0.006612143	-0.171486157	0.8645994	0.923853497
SLC27A2	0.026281203	0.171047598	0.8647326	0.923898583
KIFC3	0.03326579	0.170743867	0.8649948	0.923941036

PRKAA2	0.021584398	0.170698214	0.8650055	0.923941036
DNAJC1	-0.018987556	-0.17054777	0.8651215	0.923941036
WDR83	0.014285438	0.170643628	0.8651365	0.923941036
NMRK1	0.024760419	0.170271154	0.8654454	0.924173687
RPS6KA2	0.037133505	0.170722486	0.8656265	0.924269889
VEGFC	-0.029360752	-0.169792261	0.8657865	0.924288257
WNK2	-0.022447883	-0.169648401	0.8658956	0.924288257
ADM	-0.057962	-0.169985632	0.8659165	0.924288257
PLVAP	-0.020126842	-0.169209847	0.8661982	0.924468978
TIMM8B	-0.022470113	-0.169154043	0.8662684	0.924468978
ACTR10	-0.007539556	-0.168568161	0.8666696	0.924799281
POLL	0.016021757	0.168292881	0.8669555	0.925007378
IQCE	-0.033470195	-0.168016092	0.8673477	0.925156878
HTRA3	0.026743974	0.167750421	0.8673645	0.925156878
STAMBP	0.011665308	0.16787082	0.8673687	0.925156878
MANBA	0.015693045	0.167239537	0.8677126	0.925421474
CDKN2AIPNL	0.020480677	0.16728843	0.8678175	0.925421474
ENTPD5	0.014895808	0.167062583	0.8678905	0.925421474
DDX47	-0.013488346	-0.166649184	0.8682205	0.925676278
METTL1	0.020205064	0.166926503	0.8683166	0.925680867
ELF1	-0.008700188	-0.166269454	0.8684846	0.92576273
PRDM11	-0.025692925	-0.165785543	0.8689695	0.92618348
SLC25A16	-0.0235436	-0.165526517	0.8692035	0.926335154
IL10RB	-0.054580994	-0.165195	0.8698024	0.92682695
LANCL1	0.015003684	0.164600508	0.8698476	0.92682695
RPL13	-0.026133609	-0.164210888	0.8701537	0.927042888
ZNF746	-0.029157224	-0.164186942	0.8702325	0.927042888
TDG	-0.014346165	-0.163802886	0.8704215	0.927146918
CAMKK2	0.009163195	0.163685987	0.8705356	0.927170102
HAPLN3	0.03543891	0.163506571	0.8706408	0.927184578
SCUBE2	0.049483421	0.163590339	0.8707315	0.927184578
CDK2AP1	-0.017452632	-0.162948548	0.8711025	0.927482986

WRAP53	0.013365209	0.162801284	0.8712104	0.927500128
S100A7	0.083758967	0.162684033	0.8714209	0.927626443
DENND1B	-0.013560365	-0.162214534	0.8716862	0.927714769
TAOK2	-0.008234477	-0.162209012	0.8716862	0.927714769
PPME1	0.00869906	0.161762521	0.8721123	0.927887706
ERLIN2	-0.016152489	-0.161723958	0.8721814	0.927887706
IDH3B	-0.013781654	-0.161566375	0.8722265	0.927887706
N4BP2	0.012966805	0.161576413	0.8722368	0.927887706
DCK	0.011480789	0.161407254	0.8723058	0.927887706
NIBAN2	0.014704511	0.161038298	0.8726037	0.928081768
VAMP3	0.015604248	0.160977903	0.8726754	0.928081768
WNT5A	0.022101128	0.160878004	0.8729136	0.928081768
COQ9	0.016683459	0.160396079	0.8731056	0.928081768
ZNF451	-0.006538586	-0.160274497	0.8731883	0.928081768
SERPINH1	0.015533647	0.160288127	0.8732698	0.928081768
SORD	-0.03723594	-0.16019704	0.8732899	0.928081768
IPO11	0.007740805	0.160107277	0.8733018	0.928081768
NBR1	0.0125675	0.160299929	0.8733387	0.928081768
CREM	-0.018421152	-0.16071454	0.8734026	0.928081768
KDM1B	0.008185977	0.159545041	0.8737428	0.928346056
ZNF189	-0.021311806	-0.159826614	0.8739624	0.928482214
MVK	0.012295226	0.158543158	0.8745427	0.928942181
PPP1R2	-0.013022857	-0.158655442	0.8745784	0.928942181
TRIM37	0.015301818	0.158605649	0.8747409	0.92901758
RPP25	-0.019129323	-0.157838777	0.8751297	0.929265281
TMEM14C	-0.032135357	-0.158151768	0.8751573	0.929265281
FARSB	0.010536252	0.157131446	0.8756617	0.929703655
ADAMTS5	-0.04101053	-0.156535843	0.8762752	0.930257672
DECR2	-0.021284568	-0.155615166	0.8769214	0.930846326
MTPN	-0.011848571	-0.155234037	0.8771904	0.931027265
DYNC1I2	0.007070357	0.155053217	0.8772753	0.931027265
ECHDC2	-0.024158459	-0.154535629	0.8777437	0.931352423

USP16	-0.006476195	-0.154469802	0.8777889	0.931352423
GTPBP4	0.017236654	0.154458781	0.8778570	0.931352423
ILKAP	0.01194438	0.153954313	0.8783280	0.931683328
PTPRK	-0.014195902	-0.15369535	0.8783524	0.931683328
CCDC127	0.01311943	0.153713801	0.8784825	0.931723967
MXI1	-0.022110766	-0.153731151	0.8786824	0.931777265
SRA1	-0.009619474	-0.153259513	0.8787164	0.931777265
DTNBP1	-0.011203759	-0.152837861	0.8790434	0.932017353
CPSF2	0.007177342	0.152692968	0.8791265	0.932017353
SLU7	-0.007557519	-0.152016777	0.8796637	0.932489465
CXCL16	0.025699318	0.152022863	0.8797575	0.93249133
C4orf33	0.019065602	0.151817919	0.8799425	0.932494924
NIPSNAP3A	-0.028030075	-0.151627855	0.8799907	0.932494924
LRRC49	-0.023978313	-0.152251939	0.8800365	0.932494924
BTBD11	-0.024104773	-0.151698979	0.8801529	0.93252111
WDR81	0.006923158	0.151153172	0.8804248	0.932666547
RNF168	-0.022951828	-0.151638107	0.8804739	0.932666547
OSBP	0.006580226	0.150537742	0.8808590	0.932977106
FUOM	-0.041852174	-0.150612433	0.8809789	0.933006724
PLEKHA7	-0.013111391	-0.149590992	0.8815587	0.933365584
CD99	-0.02202703	-0.149476531	0.8817568	0.933365584
SUPT6H	-0.005389925	-0.149140511	0.8819567	0.933365584
MID2	0.022298462	0.149063971	0.8820597	0.933365584
PEX10	0.027736263	0.149103457	0.8820837	0.933365584
TJAP1	0.009484004	0.149254334	0.8820912	0.933365584
DYNLT3	-0.016413684	-0.14891259	0.8821287	0.933365584
SMPD1	-0.017272229	-0.149031494	0.8821625	0.933365584
STRN	0.007367568	0.148995025	0.8822159	0.933365584
RAB40C	0.014464545	0.149052384	0.8822375	0.933365584
DEPDC5	-0.009008684	-0.14853209	0.8824239	0.933465681
RPL19	0.022017481	0.148348792	0.8826094	0.933501697
ERCC6L	0.015926466	0.148367957	0.8827125	0.933501697

TCEA2	-0.015389043	-0.148172714	0.8828138	0.933501697
TELO2	0.008150187	0.14803226	0.8828258	0.933501697
LCMT1	0.007064124	0.147346485	0.8834714	0.933975999
OTUD1	-0.025564355	-0.14746557	0.8835134	0.933975999
WTIP	0.025731624	0.147747201	0.8835504	0.933975999
KATNBL1	-0.014420909	-0.146801614	0.8840167	0.934371588
NPAS3	-0.022631739	-0.146208911	0.8842957	0.93456849
LIMCH1	0.013244628	0.146288458	0.8843988	0.934580403
TUBG1	0.014300476	0.145584125	0.8847568	0.934632611
ITM2B	0.017562895	0.145471029	0.8848038	0.934632611
HLA.F	-0.022808203	-0.145430057	0.8848976	0.934632611
SGTB	-0.011837782	-0.145215144	0.8849974	0.934632611
TLR3	-0.022743797	-0.145314961	0.8850042	0.934632611
SH3TC1	-0.020668917	-0.145343076	0.8850532	0.934632611
CIRBP	0.013728023	0.145212414	0.8850924	0.934632611
AEBP2	-0.017038077	-0.145254295	0.8851858	0.934633671
NDUFA9	-0.014138346	-0.144567545	0.8856010	0.9348958
POFUT2	-0.009517989	-0.144571654	0.8856180	0.9348958
SETX	0.008410639	0.14438237	0.8857408	0.934927842
CLPP	-0.013962406	-0.143791654	0.8861482	0.93526093
WDR74	-0.006943722	-0.143452082	0.8864092	0.935439157
RAB32	-0.014618628	-0.14326243	0.8865634	0.935504641
UMPS	-0.007119711	-0.14265375	0.8870248	0.935894211
HTATIP2	-0.01802938	-0.14242926	0.8873248	0.936113385
C4A	0.062514688	0.14187879	0.8877316	0.936182595
CYB561	-0.015913797	-0.141787022	0.8877327	0.936182595
FBXO45	-0.006831692	-0.141700721	0.8877896	0.936182595
MON2	0.00670712	0.141599727	0.8878584	0.936182595
GATA2	-0.021804405	-0.141633126	0.8878709	0.936182595
BAX	0.011652838	0.141542748	0.8879438	0.936182595
DLGAP5	-0.01526265	-0.14134123	0.8881207	0.936271867
CTU2	0.008421602	0.141050291	0.8883127	0.936377079

THY1	0.02011703	0.140946982	0.8884722	0.93642151
SOS 1	0.006975921	0.140742954	0.8885394	0.93642151
UBE2D1	0.017138457	0.140577038	0.8887865	0.936509372
FAM171A1	-0.015656259	-0.140509118	0.8888806	0.936509372
FOXRED1	0.016935714	0.14032357	0.8889295	0.936509372
LDHAL6B	-0.018493684	-0.140095518	0.8890266	0.936509372
SLC37A1	-0.019754793	-0.140075198	0.8890845	0.936509372
IRF1	-0.01873596	-0.139719755	0.8895855	0.93692558
PHF8	0.013192669	0.139373161	0.8896639	0.93692558
LANCL2	0.00907765	0.139152525	0.8897864	0.936957456
NDE1	0.008619098	0.139008062	0.8898812	0.936960068
PSIP1	0.011281842	0.138045825	0.8906393	0.937646029
RPL13A	-0.019240564	-0.138013665	0.8907175	0.937646029
KCNMA1	-0.0248875	-0.137226436	0.8913197	0.938182624
MSL2	0.008815728	0.1368366	0.8915936	0.938302
ELMO3	0.017131786	0.136927788	0.8916186	0.938302
LAMB1	-0.01863985	-0.136433754	0.8919069	0.938508794
PLCXD3	-0.042598095	-0.136618214	0.8920765	0.93858952
PPBP	0.028201692	0.135801686	0.8924059	0.938839184
PRPF38B	-0.007437105	-0.135629649	0.8926278	0.938975276
SRPX	-0.035881838	-0.13532595	0.8928315	0.939011289
CYTB	0.024953246	0.135259631	0.8929607	0.939011289
LYPLA1	0.015339662	0.135095033	0.8929676	0.939011289
MICALL2	0.012014474	0.135033001	0.8930325	0.939011289
FABP5	-0.035564286	-0.133633677	0.8942445	0.940188509
DIAPH1	-0.008426147	-0.133227541	0.8944524	0.94023467
MPP1	0.015194887	0.13324777	0.8944734	0.94023467
MICAL3	-0.009380752	-0.132875056	0.8947206	0.940326963
CXCL17	0.046084012	0.132827294	0.8948235	0.940326963
MED21	0.030537688	0.132877508	0.8949545	0.940326963
NIBAN1	-0.025465602	-0.132599587	0.8949685	0.940326963
HEXIM2	0.014215865	0.132530013	0.8950245	0.940326963

POLR3D	-0.006001335	-0.131704156	0.8956358	0.940804216
CUEDC2	-0.011624912	-0.131702345	0.895664	0.940804216
CDKN2A	-0.019670282	-0.131455873	0.895834	0.940875832
PHKG1	0.020079946	0.131920288	0.8959549	0.940875832
GIN51	-0.015409419	-0.131253809	0.8960104	0.940875832
SMS	0.019458459	0.130756848	0.8964050	0.941192836
RNF6	-0.023650721	-0.131160255	0.896550	0.941247814
LGALS8	0.010054586	0.129676907	0.8972784	0.941914963
MELK	0.022339376	0.128903985	0.898084	0.942586005
GMNN	-0.019436688	-0.128873336	0.8981035	0.942586005
IPMK	-0.018404949	-0.128525209	0.898607	0.943017824
TMEM208	0.024822801	0.127962347	0.8987680	0.943088589
CDK17	0.012113628	0.127278684	0.8991774	0.943420673
RPL8	0.020728966	0.126196816	0.9000489	0.944237444
VPS26A	0.006429023	0.125637126	0.9004145	0.944523142
ALKBH8	-0.008924286	-0.125503208	0.900519	0.944536084
THADA	-0.007943703	-0.123917321	0.9017709	0.945750671
VSIG4	-0.014492124	-0.123639559	0.9019885	0.945827184
ANKRD10	0.012847451	0.123558325	0.902133	0.945827184
ITFG1	0.011630188	0.123391337	0.9022044	0.945827184
RPL9	0.007920865	0.123378574	0.9022465	0.945827184
STAT2	-0.01036806	-0.123232032	0.9023098	0.945827184
EIF3A	0.005063289	0.123040684	0.902533	0.945936031
SNRNP40	-0.007854436	-0.122881183	0.9026000	0.945936031
PDCD2	-0.007559793	-0.122782617	0.9027175	0.94596149
HYAL2	-0.018842331	-0.122607929	0.902911	0.946066747
ZNF579	-0.010639895	-0.122358084	0.9031185	0.946106021
KIF20A	0.009342543	0.12215531	0.9031890	0.946106021
CEP68	-0.010103699	-0.122071247	0.9032285	0.946106021
SLBP	-0.012176156	-0.121637199	0.9037655	0.946570822
COG2	0.009872274	0.120939483	0.9042098	0.946857982
TOP3A	-0.008821278	-0.120936627	0.9042260	0.946857982

OGDHL	0.018321241	0.120433097	0.9045409	0.947051264
MKRN2	0.007258233	0.120367709	0.9046025	0.947051264
SPATA2L	0.022739491	0.120563058	0.9050506	0.947051264
ZFYVE1	-0.005696447	-0.119781536	0.9050655	0.947051264
PSMB8	-0.008010056	-0.119769342	0.9050697	0.947051264
RAB28	0.00797406	0.119597715	0.9051966	0.947051264
B3GALT6	0.014105263	0.119642625	0.9051975	0.947051264
PLAUR	0.021596053	0.119540784	0.9052937	0.947051264
GPN3	-0.008510526	-0.119430129	0.9053169	0.947051264
STX12	0.012336724	0.119469262	0.9053825	0.947051264
TARS1	-0.008628759	-0.119268398	0.9054369	0.947051264
NEGR1	0.024401481	0.119183035	0.9055575	0.947079562
UBE2T	-0.018779593	-0.118962371	0.9057216	0.947106212
FHL5	-0.026001478	-0.118972936	0.9057694	0.947106212
RC3H1	-0.006008477	-0.118743463	0.9059379	0.947184822
HMGB1	0.007577833	0.118348228	0.9061729	0.947332927
POLR2H	0.007128008	0.118002546	0.9064352	0.94750953
SGPP1	-0.017370808	-0.117575606	0.9068926	0.947889463
PPIE	-0.008186729	-0.117107825	0.9071467	0.947974164
CAAP1	-0.006890038	-0.117084358	0.9071599	0.947974164
MTSS2	0.012720677	0.117032539	0.9072722	0.947993977
ZSCAN26	0.012085564	0.116526607	0.9076072	0.948190291
YBX1	-0.008467312	-0.116547181	0.9076469	0.948190291
RTCA	-0.007381679	-0.116302435	0.9078099	0.948262967
NACA	0.008814906	0.11587316	0.9082116	0.948584322
UBQLN1	0.005082782	0.115385117	0.9085054	0.948735738
MPPED2	0.01249406	0.115393324	0.9085485	0.948735738
PPM1B	-0.006369342	-0.115239061	0.9086364	0.948735738
SEC14L1	-0.01347237	-0.114711453	0.9092692	0.949289583
PUS10	0.013048406	0.114263435	0.9094066	0.949289583
CCT7	0.005587556	0.114196827	0.9094669	0.949289583
ATP9A	0.014431372	0.11413793	0.9095552	0.949289583

PFKFB4	-0.012293368	-0.114009166	0.9096345	0.949289583
AKAP8L	-0.00777453	-0.113787037	0.9098142	0.949367643
ZNF326	0.007306729	0.11366656	0.9098963	0.949367643
ARL8B	-0.00930688	-0.113443307	0.9100912	0.949430264
TMCC1	0.00935891	0.113351667	0.9101434	0.949430264
PRRC1	0.010074398	0.112877432	0.9105515	0.949612449
CWF19L1	0.007853421	0.11272214	0.9107592	0.949612449
ATF7IP	0.007050433	0.112539623	0.9107803	0.949612449
PTTG1	0.025633552	0.112940787	0.9107833	0.949612449
RAB5C	-0.008585555	-0.112515824	0.9107859	0.949612449
GATM	0.021789135	0.112317303	0.9110136	0.949752298
MED9	0.009401128	0.111923192	0.9113320	0.949954594
ZNHIT3	0.008063511	0.111630476	0.9114657	0.949954594
GPC4	0.026151842	0.111596171	0.9114990	0.949954594
USP20	0.008500827	0.111534848	0.9115820	0.949954594
GLCCI1	0.013338684	0.111556231	0.9117400	0.950021669
NOSIP	-0.006993391	-0.110439072	0.9124157	0.950627543
HDAC9	0.014927547	0.110373009	0.9126183	0.950648379
PRAME	-0.01338577	-0.110322747	0.9126718	0.950648379
VPS50	-0.004550376	-0.11012024	0.9127167	0.950648379
IPCEF1	0.01570646	0.109729654	0.9131057	0.950929881
ANP32A	0.010319004	0.109362926	0.9132797	0.950929881
SLC35E2B	0.018664717	0.10953713	0.9133233	0.950929881
C1orf159	-0.017161491	-0.109479377	0.9133617	0.950929881
SYF2	-0.007031419	-0.108216109	0.9141917	0.95169643
UIMC1	-0.006293577	-0.107945237	0.9143772	0.951792577
PELI1	-0.020491667	-0.108974719	0.9145357	0.951793293
FOSL2	-0.011817857	-0.107761074	0.9145655	0.951793293
GEMIN6	0.007837387	0.106767007	0.9153234	0.952349141
OAS3	0.012898891	0.106746502	0.9153283	0.952349141
WIPI2	0.008070019	0.106652132	0.9154353	0.952349141
COMTD1	0.015286692	0.106703345	0.9154749	0.952349141

SERPING1	-0.017996429	-0.106241849	0.9157503	0.952537994
MAPK9	0.005493536	0.106083127	0.9159169	0.95261372
REEP6	0.017448327	0.105778476	0.9161409	0.952748593
JMJD7	0.016717519	0.105214473	0.9166816	0.953213671
DDA1	-0.005249981	-0.104830731	0.9168762	0.95324505
SNAP47	-0.008419286	-0.104808163	0.9168996	0.95324505
BPGM	0.013657481	0.104601806	0.9170268	0.953279602
CD163	0.01587218	0.104469002	0.9171290	0.953288222
MCMBP	0.007311992	0.104223383	0.9173959	0.953468087
ZCCHC17	-0.005608021	-0.103973822	0.9175302	0.953510005
BPNT1	0.013916278	0.103395436	0.9180073	0.95390809
MRPS6	0.011106391	0.102952553	0.9183272	0.954060903
EXOC3L2	-0.013081	-0.102907247	0.9184213	0.954060903
POLR1C	-0.007350414	-0.102736401	0.9185301	0.954060903
COG4	0.006946955	0.102816643	0.9185303	0.954060903
MTX3	0.007271767	0.101883766	0.9192337	0.954693767
SHROOM1	0.00862906	0.100751926	0.9200980	0.955493688
FOXA3	0.057569048	0.100856045	0.9203249	0.955631509
IKBIP	0.010187917	0.099751685	0.9208880	0.956081112
CXorf56	0.005986053	0.099727921	0.9209463	0.956081112
TNFRSF6B	-0.020627669	-0.099582344	0.9212240	0.95627169
RIT1	-0.008373008	-0.09892857	0.9215107	0.956471469
CASP6	-0.009224173	-0.098806257	0.9216532	0.956483652
FRZB	-0.019743182	-0.098686072	0.9217109	0.956483652
MAPKAP1	0.005111226	0.098317394	0.9220447	0.956673654
GRSF1	0.010595921	0.098236498	0.9220825	0.956673654
MCF2L	-0.006890733	-0.098068687	0.9221996	0.956697283
RAD54L2	-0.005429098	-0.097957454	0.9223222	0.956726686
IFRD2	-0.011219474	-0.097580483	0.9226075	0.956924836
COG5	0.007053891	0.097424134	0.9227444	0.956969067
RPL7	0.015764925	0.096562334	0.9234224	0.95724727
TMCC3	-0.012906165	-0.096584066	0.9234346	0.95724727

ZNF276	-0.008011654	-0.096415999	0.9234958	0.95724727
FAU	-0.018001165	-0.096507025	0.9235068	0.95724727
GPSM2	-0.014915303	-0.096691266	0.9235131	0.95724727
FIS1	0.007341053	0.096347639	0.9235785	0.95724727
SYNCRIP	-0.004654248	-0.096044254	0.9237961	0.957375031
STK11	-0.005845019	-0.095729278	0.9240463	0.957536549
MRPL50	-0.008439917	-0.095047815	0.9246525	0.957827303
B4GALT4	-0.011291282	-0.094897274	0.9247002	0.957827303
ADCK1	-0.007700226	-0.095069663	0.9247007	0.957827303
KAT5	-0.005904436	-0.094899636	0.9247044	0.957827303
RTL8A	-0.01181804	-0.094427154	0.9251804	0.958222627
CD164	-0.028567194	-0.09405232	0.9255045	0.958460476
FXR1	-0.003817274	-0.092952256	0.9262330	0.959117073
ARMCX1	-0.018423609	-0.092914207	0.9263359	0.959125744
LIPT2	0.014598604	0.092814509	0.9265165	0.959214863
RXRB	0.006045113	0.092287566	0.9267591	0.959347793
NDP	-0.02689069	-0.092335438	0.9268339	0.959347793
RGL1	-0.009417583	-0.091960056	0.9271372	0.959563922
CCDC117	0.006713008	0.09158029	0.9273293	0.959564633
GRIP1	0.008185338	0.091568778	0.9274179	0.959564633
PTK6	0.021423188	0.091690968	0.9275186	0.959564633
MINDY1	-0.009825977	-0.091234311	0.9275949	0.959564633
SLX4IP	0.009835737	0.091441565	0.9276106	0.959564633
HADH	0.011854436	0.090607156	0.9280924	0.959901632
PUS7L	-0.004953199	-0.090575569	0.9281255	0.959901632
PIK3IP1	0.015465344	0.090687713	0.9284088	0.960096822
HMGCS1	-0.011302444	-0.089266299	0.9291737	0.960789916
ZNF106	-0.006965244	-0.089146959	0.9292775	0.96079916
GEM	0.014700126	0.089080759	0.9294912	0.960885614
COPZ1	0.00932109	0.088845784	0.9295503	0.960885614
DENND4A	0.006438049	0.088575988	0.9297422	0.960986155
CHAF1A	-0.007396241	-0.087902312	0.9302295	0.961391933

IRF9	-0.007133647	-0.087446728	0.9306154	0.961692853
NSRP1	-0.004921598	-0.086894377	0.9310464	0.96196873
TOLLIP	-0.008521053	-0.086879498	0.9311829	0.96196873
DPY30	0.006112462	0.086628835	0.9312377	0.96196873
AKAP17A	0.003848045	0.086589867	0.9312687	0.96196873
SPATA20	0.010763011	0.086456955	0.9314455	0.96196873
COA4	0.015056259	0.086495379	0.9314517	0.96196873
MPRIP	0.006404429	0.085885785	0.9318747	0.962308293
HSPE1	0.010351523	0.085661271	0.9320423	0.962354017
OXLD1	-0.007138936	-0.08552395	0.9321187	0.962354017
ZNF264	0.010891319	0.086227112	0.9322034	0.962354017
CASD1	-0.024473959	-0.085515923	0.9323134	0.962369725
HYPK	0.004923346	0.084833868	0.9326652	0.962634944
XYLB	-0.010971786	-0.084140863	0.9332660	0.963107594
CCT2	0.003424248	0.083933406	0.9333757	0.963107594
PPA1	0.00850656	0.083921929	0.9334078	0.963107594
PTRH1	-0.007915451	-0.083468455	0.9338327	0.963447467
SREK1	0.00535083	0.083138516	0.9340367	0.9635606
H2AC21	0.010967293	0.082953423	0.9341532	0.963582839
DHX35	0.003538684	0.082797555	0.9342926	0.963628704
HMMR	0.008573761	0.082270817	0.9348280	0.964033476
FAM221A	-0.010108041	-0.082190757	0.9348904	0.964033476
FRMD6	0.011971015	0.081917474	0.9349700	0.964033476
ALDH2	0.011858477	0.081750584	0.9351153	0.964085355
MAP4K4	-0.00584906	-0.080801667	0.9359704	0.964600263
TATDN3	0.008988586	0.08070001	0.9359746	0.964600263
SNIP1	-0.003743402	-0.080476622	0.9361096	0.964600263
HAUS6	0.00648891	0.080513268	0.9361148	0.964600263
THEM4	-0.013260695	-0.080467225	0.9361407	0.964600263
GSTT1	-0.025472932	-0.080400816	0.9361849	0.964600263
PTRHD1	-0.011122368	-0.079992186	0.9365165	0.96484401
ADH4	-0.017249107	-0.079741006	0.9369534	0.965196094

MAGI3	-0.004400043	-0.079238908	0.9371262	0.965276222
ATF2	-0.003940395	-0.078935853	0.9373380	0.96539639
ZNF22	-0.015527759	-0.078738052	0.9375490	0.965429768
SUPT20H	0.003646635	0.078652467	0.9375607	0.965429768
TADA3	0.003509605	0.078391703	0.9377630	0.965452061
TRIM27	0.003257154	0.078358405	0.9378107	0.965452061
SESN2	-0.01003232	-0.078368902	0.9378677	0.965452061
ABHD11	0.008799391	0.077459077	0.9385375	0.966043657
LYRM1	0.008187876	0.07697573	0.9389270	0.966347144
GMFB	0.005362105	0.076395378	0.9393429	0.966676584
PYROXD1	-0.005694248	-0.075514787	0.9400628	0.967255824
FGD4	-0.007300038	-0.075623314	0.9400964	0.967255824
LRIF1	-0.005787688	-0.075241893	0.9402612	0.967327341
KMT2E	0.006613835	0.07500851	0.9404909	0.967440381
RFC1	0.005593115	0.074864676	0.9405617	0.967440381
RFX7	-0.006443058	-0.073454936	0.9416750	0.968374634
NSD2	0.005212594	0.073496664	0.9416917	0.968374634
KLHL14	0.007021353	0.073252183	0.9418515	0.968374634
EFR3A	-0.005484887	-0.073254798	0.9418516	0.968374634
DOK1	0.006335658	0.072946297	0.9421469	0.968435429
KIF5B	0.002893534	0.072865518	0.9421938	0.968435429
PTGR1	0.009100714	0.072770148	0.9422400	0.968435429
PNPLA2	-0.006210545	-0.072697034	0.9422924	0.968435429
CRACR2B	0.0087525	0.072465774	0.9424740	0.968505623
PFN2	-0.007905075	-0.072463696	0.9425515	0.968505623
CHD2	0.003606289	0.072010586	0.9428187	0.968681423
TMEM63A	0.010843947	0.07197015	0.9429417	0.96871042
FBXL4	-0.006682707	-0.071788855	0.9430382	0.96871148
ADAT3	-0.005038853	-0.071564377	0.9432092	0.968759329
COPS4	0.003012556	0.071494476	0.9432757	0.968759329
LRMDA	0.006732143	0.070981747	0.9436623	0.969058311
PAPOLA	0.004671064	0.070756696	0.9438415	0.969144372

LENG8	0.00336247	0.070570024	0.9440115	0.969155646
FAM174A	-0.010244352	-0.070590284	0.9440435	0.969155646
POLE2	0.00806287	0.070507699	0.9441886	0.969206571
WDR55	-0.005786387	-0.070113737	0.9443675	0.969252699
ZC3HAV1L	-0.006121241	-0.070049948	0.9444245	0.969252699
SCAMP4	0.007558211	0.069572989	0.9447581	0.969497063
BAZ1A	-0.004777737	-0.068725276	0.9454535	0.970112531
PANK2	-0.00475532	-0.068687088	0.9455495	0.970112843
VPS4A	0.004729545	0.068344307	0.9457376	0.970207887
PKDCC	0.014107519	0.068207333	0.9458512	0.970226404
ZNF395	-0.011659375	-0.068358122	0.9459669	0.97024701
GYPA	0.013507143	0.067355002	0.9465335	0.97073011
CERCAM	0.009992235	0.06699975	0.9468426	0.970944029
KAZALD1	-0.017942398	-0.066948991	0.9470058	0.970944029
UBASH3B	-0.008725139	-0.066704009	0.9470291	0.970944029
RBCK1	0.003233402	0.066542517	0.9471936	0.970982152
GLMP	-0.00913162	-0.066546056	0.9472681	0.970982152
MMP12	-0.011485169	-0.06617091	0.9474489	0.970982152
CASP9	-0.004136842	-0.066291111	0.9474489	0.970982152
EWSR1	-0.00472032	-0.065532164	0.9479699	0.971417978
BRWD3	-0.006890753	-0.064779074	0.9485781	0.971896257
MROH1	0.00569759	0.064501573	0.9487748	0.971896257
DDX59	-0.006293026	-0.064455316	0.9488175	0.971896257
IL6ST	0.008426756	0.064487428	0.9488197	0.971896257
MEGF9	0.00588812	0.064296424	0.9489356	0.971916277
RNF34	0.003460789	0.063867359	0.9492908	0.972102163
SLC29A3	0.011796	0.063967628	0.9493086	0.972102163
MPC2	-0.00634182	-0.063601792	0.9495137	0.972214756
TSR3	0.005389718	0.063388143	0.9496832	0.972290227
PCK1	-0.016907106	-0.062976938	0.9500766	0.972518116
BTAF1	-0.003192786	-0.062872535	0.9500975	0.972518116
PKLR	0.007766466	0.062616385	0.9502747	0.972548181

CACYBP	0.007253759	0.062495833	0.9503826	0.972548181
MED31	-0.006982707	-0.06248172	0.9504145	0.972548181
MSRA	0.00494891	0.062093983	0.9506851	0.972727288
ALYREF	-0.005444737	-0.061916044	0.9508777	0.972826261
TP53	-0.004538903	-0.061743308	0.9509879	0.972840906
DDX41	0.002400827	0.060794934	0.9517216	0.973493377
EVA1B	-0.009766667	-0.060866308	0.9518345	0.973510551
FGGY	0.005800865	0.060493779	0.9519586	0.973538954
CXCL10	-0.012060796	-0.060546802	0.9520667	0.973552034
HSPA6	0.005083741	0.060232931	0.9521684	0.973557964
CDK7	0.003519938	0.059727601	0.9525587	0.973858921
PLPP1	0.009236713	0.059608429	0.9526964	0.973901576
CD248	0.010073233	0.059379112	0.9528794	0.973943273
ZBTB21	-0.005416278	-0.059221359	0.9529685	0.973943273
PTTG1IP	-0.008243252	-0.059139953	0.9530256	0.973943273
ACBD7	-0.012010789	-0.058367107	0.9536405	0.974474144
SHF	0.012002914	0.058115312	0.9539126	0.974532083
MERTK	0.003776222	0.057883992	0.9540215	0.974532083
NAPB	-0.00475464	-0.057845323	0.9541126	0.974532083
ERF	-0.004540789	-0.057718707	0.9541855	0.974532083
HGS	0.002516541	0.057696794	0.9541925	0.974532083
KLF5	-0.005158459	-0.057596934	0.9542735	0.974532083
MEX3D	-0.003494098	-0.05715498	0.9546355	0.974742059
NEK6	-0.00395	-0.057088256	0.9546716	0.974742059
SUSD2	-0.014888534	-0.057003687	0.9547688	0.974743887
RPS17	0.00398953	0.056598214	0.9550594	0.974942499
YBEY	0.007991998	0.056032957	0.9555514	0.975275292
ZBTB17	0.0070725	0.056038554	0.9555776	0.975275292
BRMS1	-0.003231241	-0.055685171	0.9557742	0.975377951
DCBLD2	-0.006647594	-0.055300985	0.9561379	0.975650939
HSD17B4	0.006022932	0.054964687	0.9563454	0.975764609
HLA.DPB1	-0.013700564	-0.054755284	0.9565436	0.975868117

SPTLC3	-0.00572127	-0.054522412	0.9567326	0.97596349
TXNDC15	-0.009568338	-0.053944167	0.9571548	0.976125654
EXOSC4	0.003762389	0.053955971	0.9571552	0.976125654
MON1B	0.003485902	0.053947142	0.9571930	0.976125654
RAE1	-0.002116165	-0.053793766	0.9572763	0.976125654
PTMA	-0.006047519	-0.053562138	0.9574754	0.976160689
SQOR	-0.007483271	-0.053425139	0.9575689	0.976160689
HAPLN1	-0.011616729	-0.053375593	0.9575992	0.976160689
TLNRD1	0.005597554	0.053333719	0.9579144	0.976252227
APOC4	-0.009774906	-0.052984877	0.9579532	0.976252227
RFXAP	0.003084511	0.052915267	0.9579775	0.976252227
ZBTB3	-0.004359491	-0.052605317	0.9582426	0.976424296
AMZ2	-0.004855733	-0.052207697	0.9585300	0.976619117
NIT1	0.005129195	0.052026236	0.9586859	0.976679994
IRF6	-0.006609398	-0.051348776	0.9592189	0.977124488
SDF4	0.005422368	0.050499133	0.9598914	0.977711771
CSDE1	0.001791173	0.050102779	0.9601985	0.977926071
NFIC	-0.003839962	-0.049967658	0.9603047	0.977936495
FN3KRP	0.004546015	0.049759981	0.9604687	0.97799203
MYL12A	-0.010084797	-0.049627535	0.9606195	0.97799203
PRG3	-0.014719361	-0.049534112	0.9606483	0.97799203
SNRPF	-0.004317857	-0.049316892	0.9608207	0.978026725
EHBP1	-0.00382218	-0.049249172	0.9608755	0.978026725
C12orf66	0.003414041	0.048488683	0.9614922	0.978504349
LNK2	0.007413697	0.048512088	0.9615376	0.978504349
HDLBP	0.002346485	0.048297306	0.9616335	0.978504349
ECHS1	0.006053947	0.048008177	0.9618598	0.978636477
ALKBH5	0.00236262	0.047691465	0.9621149	0.978797916
CYSTM1	-0.007448373	-0.047666738	0.9622297	0.978815965
MOV10	-0.003055451	-0.047240055	0.9624807	0.978960702
GLYATL3	-0.012697143	-0.047249328	0.9625645	0.978960702
NAB1	-0.005222692	-0.046734138	0.9628817	0.979184772

CNBP	-0.004302508	-0.046433728	0.9631325	0.979342102
MED11	0.003641241	0.045826722	0.9636500	0.979675694
EAFF1	-0.003847932	-0.045764523	0.9636669	0.979675694
NHEJ1	0.003423703	0.045567624	0.9638000	0.979675694
FBXO7	-0.00300344	-0.045517186	0.9638464	0.979675694
CINP	0.003009524	0.043900819	0.9651341	0.980814065
ORAI1	0.006738667	0.043912192	0.9651596	0.980814065
GRPEL1	-0.0047485	-0.042905905	0.9659271	0.981495735
PLEKHG1	0.002813498	0.042757483	0.9660331	0.981505138
DDX20	0.002670244	0.04247676	0.9662547	0.981632073
SETD2	-0.001783665	-0.041790176	0.9667964	0.98200845
PIGA	0.00593707	0.041787215	0.9668181	0.98200845
C19orf54	-0.00438277	-0.041671401	0.9669372	0.98203056
PHYH	-0.006452188	-0.041446048	0.9670694	0.982066521
ZRSR2	-0.003519098	-0.040311337	0.9679990	0.982800185
MED20	0.002109109	0.040229584	0.9680350	0.982800185
RABAC1	-0.005870827	-0.040195854	0.9681300	0.982800185
THOC6	-0.001921259	-0.040049994	0.9681792	0.982800185
SGTA	-0.001951312	-0.039611842	0.9685328	0.983060859
RP2	0.004292049	0.039332196	0.9687610	0.983194179
NFX1	-0.00238206	-0.03904358	0.9690469	0.983385932
FBXL17	-0.002604662	-0.038511843	0.9694086	0.983617447
WDSUB1	0.003176504	0.038432191	0.9694688	0.983617447
ARID1A	-0.006013421	-0.038342837	0.9695782	0.983625044
A2M	0.006629323	0.038091106	0.9697539	0.983625044
EGFLAM	0.006454962	0.038089215	0.9697771	0.983625044
MACROD2	0.005797049	0.037623921	0.9701057	0.983625044
SPATA5	-0.002183327	-0.037611108	0.9701216	0.983625044
CARD6	0.004351579	0.037594345	0.9701387	0.983625044
ENPP4	-0.004683534	-0.037613957	0.9701547	0.983625044
TXNDC11	-0.003722613	-0.036775138	0.9707794	0.984110752
DDI1	-0.004596739	-0.036764455	0.9708276	0.984110752

GDAP2	-0.002103286	-0.036552399	0.9709569	0.98414353
DAB2IP	-0.002589229	-0.036210968	0.9712275	0.984158809
ARL 1.00	0.003036447	0.036213465	0.9712503	0.984158809
ANAPC11	0.01256427	0.036220037	0.9712629	0.984158809
NUDT6	0.004522462	0.036079529	0.9713825	0.984181761
CRABP1	-0.014996654	-0.035851522	0.9715145	0.984217043
AARSD1	-0.005192727	-0.035787555	0.9716235	0.984229201
RNF181	-0.002618177	-0.035266581	0.9719821	0.98439791
QARS1	0.001320827	0.035259446	0.9719838	0.98439791
FRG1	-0.002320823	-0.035126103	0.9720989	0.984416266
C12orf49	-0.006183459	-0.034593727	0.9725848	0.984810055
ESCO1	-0.004165294	-0.034247384	0.9727956	0.984925234
KMT5A	0.004275952	0.033864166	0.9732450	0.985281943
GTF2H1	0.001547419	0.033407124	0.9734539	0.985395215
ADSL	-0.002484586	-0.033057295	0.9737691	0.985615953
SMIM22	-0.00563803	-0.032748699	0.9740000	0.985751329
TRPV2	-0.004948063	-0.032381232	0.9743351	0.985992224
CFAP206	0.0108875	0.03208124	0.9749489	0.986515016
OVCA2	0.003006504	0.031139592	0.9752755	0.98674705
GSS	0.002868759	0.030900101	0.9754502	0.986825491
MXRA8	0.004256143	0.030302684	0.9760024	0.987285722
LYSMD1	0.002382989	0.029622976	0.9764770	0.987645114
SNU13	0.001827562	0.029047636	0.9769236	0.987645114
ADSS2	-0.002216342	-0.029047498	0.9769325	0.987645114
CYP24A1	-0.009292571	-0.029003953	0.9769680	0.987645114
ARID3B	0.005706061	0.029056341	0.9770256	0.987645114
INO80	-0.001949455	-0.028830145	0.9770964	0.987645114
ZFP1	-0.002697803	-0.028899148	0.9771250	0.987645114
MAGED1	-0.002307387	-0.028780973	0.9771361	0.987645114
HK2	-0.00315782	-0.028589066	0.9773028	0.987715224
TRIM2	-0.00301688	-0.02831811	0.9775197	0.987836045
MCRIP1	-0.001824669	-0.028187908	0.9776186	0.987837617

MNT	0.001671541	0.027673329	0.9780458	0.988150236
GNPTAB	0.00339859	0.027533648	0.9781227	0.988150236
C12orf43	0.002179887	0.027236448	0.9783824	0.988314264
DDX39A	-0.003260852	-0.026602573	0.9788698	0.988532888
CIP2A	-0.002248308	-0.026588581	0.9788830	0.988532888
PMF1	0.003180639	0.026474745	0.9789612	0.988532888
ZNF501	0.00687723	0.026582614	0.9789884	0.988532888
ACTBL2	-0.005215414	-0.025791236	0.9795042	0.988842887
ALG14	0.002973203	0.025772493	0.9795279	0.988842887
PPP3CC	0.002123008	0.025708215	0.9795877	0.988842887
C1QTNF5	0.004344056	0.025291157	0.9799467	0.989106957
GP1BB	-0.004517029	-0.024668239	0.9804894	0.989399271
ANXA7	-0.001736421	-0.02443525	0.9805814	0.989399271
ULK4	-0.003762267	-0.02435498	0.9807008	0.989399271
ST6GALNAC2	-0.003596648	-0.024256365	0.9807902	0.989399271
UPF1	-0.000684492	-0.024010816	0.9809220	0.989399271
ZKSCAN8	0.00186906	0.023850409	0.9810534	0.989399271
HOMER3	-0.001809164	-0.023815512	0.9810773	0.989399271
SGCD	-0.004828571	-0.023702073	0.9811640	0.989399271
TPGS2	-0.007442038	-0.023632097	0.9812650	0.989399271
LPIN3	-0.002595985	-0.02344069	0.9813796	0.989399271
POLD2	-0.001666147	-0.023244713	0.9815309	0.989399271
LTBP2	0.005609436	0.023140578	0.9816142	0.989399271
VPS26B	0.001078371	0.023109152	0.9816426	0.989399271
CACNA2D1	-0.003358392	-0.023104818	0.9816589	0.989399271
ITGA3	-0.003737594	-0.023030587	0.9816985	0.989399271
ADGRE2	-0.003266111	-0.022586373	0.9820687	0.989666349
TREX1	0.00183368	0.022461234	0.9821585	0.989666349
FSBP	-0.003010879	-0.022316022	0.9822867	0.989684927
TXNL1	-0.001069248	-0.022189341	0.9823719	0.989684927
TWNK	-0.00317037	-0.022047579	0.9825318	0.989747791
SMURF1	-0.00179637	-0.021459283	0.9829955	0.990116349

SGPP2	-0.004037162	-0.021135915	0.9832045	0.990228788
THBS4	-0.006756579	-0.020894594	0.9833959	0.990323361
RNF138	-0.001875283	-0.020771586	0.9834982	0.990328099
C19orf25	-0.001325658	-0.02037865	0.9838058	0.990539596
PLTP	-0.004367763	-0.019933301	0.9841620	0.990724128
SLC12A8	-0.003697368	-0.019858551	0.9842280	0.990724128
SMU1	0.00104968	0.019783099	0.9842819	0.990724128
FAM160B2	-0.001805733	-0.019523857	0.9845181	0.990785459
AMT	0.005191541	0.019483084	0.9845381	0.990785459
ABCG1	0.00271203	0.019079402	0.9848401	0.990991084
PDP2	-0.00244391	-0.018256047	0.9855728	0.991592586
CARMIL1	0.001413271	0.018109548	0.9856332	0.991592586
PLXNA1	0.001227605	0.017592004	0.9860192	0.991820951
HPRT1	0.00157812	0.017551281	0.9860556	0.991820951
COMMD2	-0.00104265	-0.01725355	0.9862922	0.991907751
ATRIP	-0.001647444	-0.01720721	0.9863374	0.991907751
CYB5R3	0.001931542	0.01685292	0.9866111	0.992085328
ZNF148	0.000727583	0.01586606	0.9873909	0.992770474
TOR1B	-0.00126968	-0.015418672	0.9877733	0.993056624
DCLRE1C	-0.001199248	-0.014996406	0.9880901	0.993277329
ATP5F1D	0.001395	0.014317855	0.9886218	0.993712756
KCTD18	0.000794925	0.013402519	0.9893485	0.994344788
KIAA1958	-0.002058824	-0.013233654	0.9895253	0.994360459
RCC1	0.000819323	0.01313734	0.9895600	0.994360459
MR1	0.002688211	0.012597892	0.9900086	0.994643499
SLC35A2	0.001356515	0.012482696	0.9900881	0.994643499
COG6	-0.000897526	-0.012421411	0.9901351	0.994643499
TADA2A	0.00103455	0.01206594	0.9904168	0.994827444
CD109	-0.003867744	-0.011818973	0.9906159	0.994900945
ASAP3	-0.001032707	-0.011719924	0.9906861	0.994900945
VAMP2	0.001237782	0.011603103	0.9907841	0.994900945
SEMA3F	0.001314831	0.011414355	0.9909295	0.994903867

MEF2D	-0.001089098	-0.011350583	0.9909830	0.994903867
NT5C2	0.000950307	0.010818254	0.9914037	0.995227804
UBR7	0.000664699	0.010545961	0.9916188	0.995344914
DGAT1	-0.001340625	-0.010430761	0.9917165	0.995344914
VEGFA	-0.001541267	-0.009914686	0.9921233	0.995654725
CALCRL	-0.001411015	-0.009723723	0.9922812	0.995714716
SKIV2L	-0.000496147	-0.009452549	0.9924894	0.995825251
GALNT1	-0.000810226	-0.008258238	0.9934387	0.996597699
RPS15	0.000589492	0.008244131	0.9934557	0.996597699
MED22	-0.000359301	-0.007298224	0.9942013	0.997247081
NFKBIA	0.000553293	0.006840603	0.9945669	0.997515224
ZFAND3	-0.000419844	-0.00639497	0.9949192	0.997651636
DYNLT1	0.000543026	0.006369693	0.9949379	0.997651636
ACO2	-0.000555357	-0.006217262	0.9950602	0.997651636
UNC13B	0.000320169	0.006174536	0.9950960	0.997651636
PLEKHM1	-0.000740489	-0.005672364	0.9954970	0.997895914
FAM111B	-0.000858467	-0.005645633	0.9955363	0.997895914
APBB2	-0.000459361	-0.005258478	0.9958220	0.998055494
EXOSC5	-0.000363383	-0.00516851	0.9958922	0.998055494
SSBP3	-0.000377331	-0.004417285	0.9964892	0.998442249
ZC2HC1A	0.000450684	0.004262876	0.9966120	0.998442249
HNRNPL	0.000242105	0.004213585	0.9966512	0.998442249
PHLDB2	0.000657519	0.00418899	0.9966716	0.998442249
TTC38	-0.000464361	-0.003828238	0.9969578	0.998591285
PROSER2	-0.000393436	-0.003753606	0.9970177	0.998591285
FOLR1	-0.000927519	-0.003505605	0.9972157	0.998605721
FOXK1	0.000250263	0.003488974	0.9972283	0.998605721
RPS9	-0.000422857	-0.003355536	0.9973337	0.998612733
OTUD3	0.000284394	0.002966834	0.9976459	0.998822019
KIAA1328	-0.000261767	-0.002844874	0.9977395	0.998822019
KIF12	-0.000501515	-0.002342802	0.9981400	0.999123289
C7orf50	-0.000221128	-0.002129684	0.9983076	0.999123289

ZNF592	0.000146011	0.002095244	0.9983358	0.999123289
CABIN1	7.44E-05	0.001851968	0.9985286	0.999217779
WDTC1	-8.43E-05	-0.001600314	0.9987293	0.999232979
SET	0.00014718	0.001494955	0.9988126	0.999232979
NDUFS8	0.000124853	0.001460551	0.9988391	0.999232979
SFXN4	6.5E-05	0.00079	0.9993726	0.999668129
TLK2	1.21E-05	0.000333937	0.9997346	0.999931641
CEP85	1.47E-05	0.000116848	0.9999072	0.999935003
CRY2	1.07E-05	8.21E-05	0.9999356	0.999935003